

**LAWRENCE, KANSAS
DIGESTER IMPROVEMENTS PROJECT**

**CITY PROJECT NO. WW0601
CITY BID NO. B1106
BLACK & VEATCH PROJECT NO. 165210**

CHANGE ORDER NO. 2

This Change Order No.2 covers adjustments to the Contract Time and Contract Price, which result from the changes in the work described herein. Included in this Change Order is Item CO2-1, initiated to replace three valves and install one new valve at Digester No. 3; Item CO2-2, initiated to install new sample lines and associated valves for Digester No. 3; Item CO2-3, initiated to provide a connection to the digester gas system for PIT-301; Item CO2-4, initiated to provide condensate drains at the Waste Gas Flare; Item CO2-5 initiated to replace plug valves at Digesters No. 1 and 2; and Item CO2-6 initiated to remove additional piping that is abandoned inside the existing Sludge Control Building.

Item CO2-1. Replacement and Installation of Digester No. 3 Valves.

Initiated by: Engineer/Owner

This modification covers the replacement of three plug valves (DPV-57, 58, and 59) and the installation of a new plug valve for Digester No. 3. The valves are located in the existing Sludge Control Building. The three existing valves were not operational, and the new valve was installed to allow isolation of Digester Number 3 from the existing vent to allow gas storage if sludge level is lower than normal. This change results in an increase in Contract Price of \$6,111.00. This change represents an increase of two (2) calendar days in Contract Time.

Item CO2-2. Replacement of Sample Lines and Associated Valves at Digester No. 3.

Initiated by: Engineer/Owner

This modification covers the replacement of the existing sample lines and valves with new sample lines and valves. The existing sample lines at Digester No. 3 are not operational. The new sample system will match the installed system on Digester No. 2. This change results in an increase of Contract Price of \$2,975.00. This change represents an increase of one (1) calendar day in Contract Time.

Item CO2-3. Connect Digester Gas System to PIT-301.

Initiated by: Engineer/Owner

This modification covers adding a 1-inch gas line, drip leg, and valves to connect the digester gas system to PIT-301 to allow a direct reading of sludge level in Digester No. 3. This change results in an increase of Contract Price of \$2,990.00. This change represents an increase of one (1) calendar day in Contract Time.

Item CO2-4. Add Condensate Drains at Waste Gas Flare.

Initiated by: Engineer

This modification covers adding two ½-inch condensate drains at the flame trap assembly, and thermal shutoff valve near the Waste Gas Flare. Removal of the existing flame trap assembly and thermal shutoff valve indicated a buildup of soot and water at this location. Drains were added to reducer operation and maintenance issues. This change results in an increase of Contract Price of \$706.00. This change represents no change in Contract Time.

Item CO2-5. Replace Plug Valves at Digesters No. 1 and 2.

Initiated by: Engineer/Owner

This modification covers replacing three existing plug valves (DPV-8, DPV-44, and DPV-52) which were discovered to be non-functional. This change results in an increase of Contract Price of \$4,103.00. This change represents an increase of two (2) calendar days in Contract Time.

Item CO2-6. Remove abandoned piping inside Sludge Control Building.

Initiated by: Engineer/Owner

This modification covers removing existing the 6-inch and 8-inch sludge lines that feed into Digesters No. 2 and 3. With the modifications to the influent piping, all sludge will now be pumped through a flowmeter to either Digester No. 1 or 2. Removal of this piping will provide additional floor space in the lower level of the Sludge Control Building. This change results in an increase of Contract Price of \$6,043.00. This change represents an increase of four (4) calendar days in Contract Time.

**LAWRENCE, KANSAS
DIGESTER IMPROVEMENTS PROJECT**

**CITY PROJECT NO. WW0601
CITY BID NO. B1106
BLACK & VEATCH PROJECT NO. 165210**

SUMMARY

CHANGE ORDER NO. 2

The Contract Price shall be modified as follows as a result of the changes described by this modification request. Additions to the Contract amount are indicated by a "+" in front of the amount, deductions by a "-".

<u>Effect on Contract Amount</u>		<u>Increase/Decrease In Contract Price (+/-)</u>
<u>Item</u>	<u>Description</u>	
CO2-1	Replacement and Installation of Digester No. 3 Valves	+\$6,111.00
CO2-2	Replacement of Sample Lines and Associated Valves at Digester No. 3	+\$2,975.00
CO2-3	Connect Digester Gas System to PIT-301	+\$2,990.00
CO2-4	Add Condensate Drains at Waste Gas Flare	+\$706.00
CO2-5	Replace Plug Valves at Digesters No. 1 and 2	+\$4,103.00
CO2-6	Remove abandoned piping inside Sludge Control Building	+\$6,043.00
	Total for CO 2	<u>\$22,928.00</u>
	BID AMOUNT OF ORIGINAL CONTRACT	\$3,130,000.00
	PREVIOUS CHANGE ORDER ADJUSTMENTS	<u>\$30,217.00</u>
	CURRENT CONTRACT AMOUNT	\$3,160,217.00
	CHANGE ORDER NO. 2	<u>+\$22,928.00</u>
	ADJUSTED CONTRACT AMOUNT	\$3,183,145.00

Effect on Contract Time

CO2-1	Replacement and Installation of Digester No. 3 Valves	Two (2) days
CO2-2	Replacement of Sample Lines and Associated Valves at Digester No. 3	One (1) days
CO2-3	Connect Digester Gas System to PIT-301	One (1) days
CO2-4	Add Condensate Drains at Waste Gas Flare	Zero (0) days
CO2-5	Replace Plug Valves at Digesters No. 1 and 2	Two (2) days
CO2-6	Remove abandoned piping inside Sludge Control Building	Four (4) days
Total days		Ten (10) Calendar Days

This change order has added ten (10) calendar days to the Contract Time, the new Substantial Completion date is July 30, 2012, and the new Final Completion date is August 31.

This change order includes all costs, direct, indirect, and consequential, and all changes in Contract Time arising from the work included in item CO2-1 through CO2-6. No additional claims shall be made for changes in Contract Price or Contract Time arising from these work items.

All other provisions of the contract remain unchanged.

Agreed to this _____ day of _____, 2012

Recommended:
Black & Veatch Corporation

Approved:
City of Lawrence

By: _____

By: _____
City Manager

Date: _____

Date: _____

Approved:
Walters Morgan Construction Co., Inc.

By: _____

Date: _____

**LAWRENCE, KANSAS
DIGESTER IMPROVEMENTS PROJECT**

**CITY PROJECT NO. WW0601
CITY BID NO. B1106
BLACK & VEATCH PROJECT NO. 165210**

SUMMARY

CHANGE ORDER ITEM CO2-1

REPLACEMENT AND INSTALLATION OF DIGESTER NO. 3 VALVES



February 28, 2012

Aaron Lemke
Black & Veatch
8400 Ward Parkway
Kansas City, MO 64114

Re: Lawrence Digester Improvements

Dear: Mr. Lemke

Walters-Morgan has enclosed change proposal #4 for the amount of \$6,111.00. The proposal is for removal and replacement of DPV-57, 58, 59 and the installation of a new valve in the 6" vent line in the Sludge Control Building as requested.

Walters-Morgan has included the labor, material and equipment to remove and install the 4 each 6" Henry Pratt Plug Valves. Gray & Company has included coating the 4 each new valves.

In order to expedite the installation of the valves Walters-Morgan has installed valves previously designated for use in the original project scope. The new valves will require 4-5 weeks for delivery.

Please contact me at (785) 539-7513 ext. 111 if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Mueller", written in a cursive style.

Scott Mueller
President / Project Manager

cc: File

CHANGE ITEM NO. 4

WALTERS-MORGAN CONSTRUCTION, INC.
 Digester Improvements
 Lawrence, KS

JOB NO.
 DATE

211-04
 28-Feb-12

Digester #3 Valve replacement DPV-57, 58, 59 and add
 1 valve to 6" Vent line

Item Description	Qty	Unit	Labor Unit \$	Labor Total	Mat Unit \$	Mat Total	Sub Unit \$	Sub Total	Equip Unit \$	Equip Total	Total
Install 6" valve in vent line & Adjust Pipe	1	ea	900.26	900.26	81.00	81.00	0.00	0.00	152.00	152.00	1133.26
Remove and replace existing valves	3	ea	426.08	1278.24	20.50	61.50	0.00	0.00	42.00	126.00	1465.74
Henry Pratt Plug 6" plug Valves	4	ea	0.00	0.00	633.00	2532.00	0.00	0.00	0.00	0.00	2532.00
Gray & Co to coat new valves	4	ea	0.00	0.00	0.00	0.00	50.00	200.00	0.00	0.00	200.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotals				\$2,178.50		\$2,674.50		\$200.00		\$278.00	\$5,331.00
SUBTOTAL											\$5,331.00
Contractor's Fee (15%)											\$769.65
Contractor's Fee (5%)											\$10.00
TOTAL									TOTAL		\$6,111

ADDITIONAL TIME REQUIRED -

Scott Mueller

From: Tom Miller [tommler@midamericavalve.com]
Sent: Tuesday, February 28, 2012 8:38 AM
To: Scott Mueller
Subject: RE: Plug Valve Gear Position Chart

Scott,
Here is the pricing for the additional valves.
\$537 each for valves with handwheel
\$594 each for valves with chainwheel, plus \$3/foot chain
Delivery is 4-5 weeks.
FOB factory, prepay and add shipping cost (estimated at \$150).
Let me know if you need any other info.
Thank you,
Tom

2 each @ \$537 ⁰⁰ /ea	1074
2 each @ \$594/ea	1188
40 IF chain @ \$3/ft	120
FRT	150
	<hr/>
	\$ 2532 ⁰⁰

From: Scott Mueller [mailto:ScottM@waltersmorgan.com]
Sent: Tuesday, February 28, 2012 7:48 AM
To: Tom Miller
Subject: RE: Plug Valve Gear Position Chart

Tom,
Has Pratt confirmed the pricing on the plug valves?
Scott

From: Tom Miller [mailto:tommler@midamericavalve.com]
Sent: Monday, February 27, 2012 2:14 PM
To: Scott Mueller
Subject: Plug Valve Gear Position Chart

Bolt & Gasket sets \$ 142.50

**LAWRENCE, KANSAS
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**CITY PROJECT NO. WW0601
CITY BID NO. B1106
BLACK & VEATCH PROJECT NO. 165210**

SUMMARY

CHANGE ORDER ITEM CO2-2

**REPLACEMENT OF SAMPLE LINES AND ASSOCIATED VALVES
AT DIGESTER NO. 3**



March 5, 2012

Aaron Lemke
Black & Veatch
8400 Ward Parkway
Kansas City, MO 64114

Re: Lawrence Digester Improvements

Dear: Mr. Lemke

Walters-Morgan has enclosed change proposal #5 for the amount of \$2,975.00. The proposal is for removal and replacement of the Digester #3 sample lines as indicated on the attached drawing.

Walters-Morgan has included the labor, material and equipment to remove and install the sample lines. Walters-Morgan will dispose of all removed material.

Please contact me at (785) 539-7513 ext. 111 if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Mueller", is written over the word "Sincerely,".

Scott Mueller
President / Project Manager

cc: File

CHANGE ITEM NO. 5

WALTERS-MORGAN CONSTRUCTION, INC.
 Digester Improvements
 Lawrence, KS

JOB NO.
 DATE

211-04
 04-Mar-12

Remove and replace Digester #3 sample lines
 with PVC

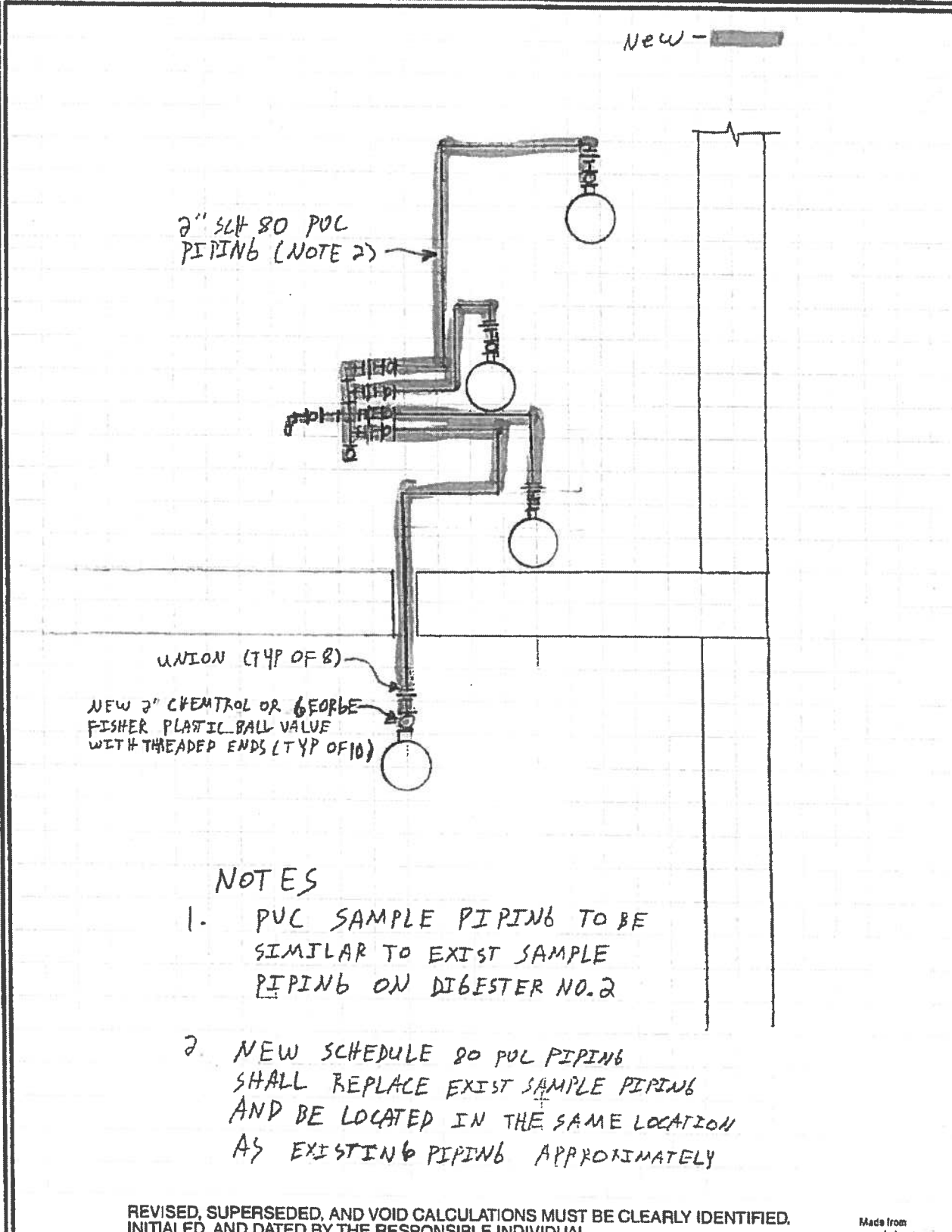
Item Description	Qty	Unit	Labor Unit \$	Labor Total	Mat Unit \$	Mat Total	Sub Unit \$	Sub Total	Equip Unit \$	Equip Total	Total
Remove existing piping	3.5	hr	107.32	375.62	0.00	0.00	0.00	0.00	47.00	164.50	540.12
Install new Pipe & Valves	7	hr	107.32	751.24	0.00	0.00	0.00	0.00	42.00	294.00	1045.24
PVC Pipe, Valves & Supports	1	ls	0.00	0.00	1001.90	1001.90	0.00	0.00	0.00	0.00	1001.90
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotals				\$1,126.86		\$1,001.90		\$0.00		\$458.50	\$2,587.26
SUBTOTAL											\$2,587.26
Contractor's Fee (15%)											\$388.09
Contractor's Fee (5%)											\$0.00
TOTAL									TOTAL		\$2,975

ADDITIONAL TIME REQUIRED -

new - ~~_____~~

DO NOT WRITE IN THIS SPACE

PGN - 172B



2" SCH 80 PVC
 PIPING (NOTE 2)

UNION (TYP OF 8)

NEW 2" CHEMROL OR GEORGE
 FISHER PLASTIC BALL VALVE
 WITH THREADED ENDS (TYP OF 10)

NOTES

1. PVC SAMPLE PIPING TO BE SIMILAR TO EXIST SAMPLE PIPING ON DIGESTER NO. 2
2. NEW SCHEDULE 80 PVC PIPING SHALL REPLACE EXIST SAMPLE PIPING AND BE LOCATED IN THE SAME LOCATION AS EXISTING PIPING APPROXIMATELY

Lawrence Digester Improvements

Date: 02/27/12 Support Quote

Corrosion Products

Description	Qty	Unit	Price	Total
2" Sch 80 PVC Pipe	50	lf	1.45	72.50
2" Sch 80 PVC 90 Deg Bend	5	Ea	2.24	11.20
2" Sch 80 PVC 45 Deg Bend	4	Ea	5.30	21.20
2" Sch 80 PVC Tee	3	Ea	8.00	24.00
2" Sch 80 PVC Cross	1	Ea	21.00	21.00
2" Sch 80 Male Adapter	8	Ea	6.20	49.60
3/8 Allthread 10ft length	6	Ea	4.40	26.40
2" Clevis Hanger Galvanized	6	Ea	2.25	13.50
2" Sch 80 Chemtrol True Union Ball Valve	10	Ea	69.50	695.00
3/8 nuts & drop in	1.0	ls	22.50	22.50
Freight	1.0	ls	45.00	45.00
				1,001.90

**LAWRENCE, KANSAS
DIGESTER IMPROVEMENTS PROJECT**

**CITY PROJECT NO. WW0601
CITY BID NO. B1106
BLACK & VEATCH PROJECT NO. 165210**

SUMMARY

**CHANGE ORDER ITEM CO2-3
CONNECT DIGESTER GAS SYSTEM TO PIT-301**



March 5, 2012

Aaron Lemke
Black & Veatch
8400 Ward Parkway
Kansas City, MO 64114

Re: Lawrence Digester Improvements

Dear: Mr. Lemke

Walters-Morgan has enclosed change proposal #6 for the amount of \$2,990.00. The proposal is for installation of the 1" SST gas line from the 10" digester gas to PIT-301 as indicated on the attached drawing.

Walters-Morgan has included the labor, material, welding and equipment to install the 1" gas line. Walters-Morgan will install threaded 1" 316 SST piping for use on the gas line. All piping will be supported similar to the line on Digester #2. The 3" diameter drip leg will be welded to match the existing line on Digester #2.

Please contact me at (785) 539-7513 ext. 111 if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Mueller", is written over a white background.

Scott Mueller
President / Project Manager

cc: File

CHANGE ITEM NO. 6

WALTERS-MORGAN CONSTRUCTION, INC.
 Digester Improvements
 Lawrence, KS

Install 1" SST Gas Line to PIT-301

JOB NO.
DATE

211-04
05-Mar-12

Item Description	Qty	Unit	Labor Unit \$	Labor Total	Mat Unit \$	Mat Total	Sub Unit \$	Sub Total	Equip Unit \$	Equip Total	Total
Install 1" SST piping	13	hr	81.67	1061.71	0.00	0.00	7.69	99.97	12.00	156.00	1317.68
Weld Drip Leg & Install tap	4	hr	0.00	0.00	0.00	0.00	102.50	410.00	0.00	0.00	410.00
SST Pipe & Supports	1	ls	0.00	0.00	916.91	916.91	0.00	0.00	0.00	0.00	916.91
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Subtotals \$1,061.71 \$916.91 \$509.97 \$156.00 \$2,644.59

SUBTOTAL \$2,644.59

Contractor's Fee (15%) \$320.19
 Contractor's Fee (5%) \$25.50

TOTAL \$2,990

ADDITIONAL TIME REQUIRED -



BLACK & VEATCH

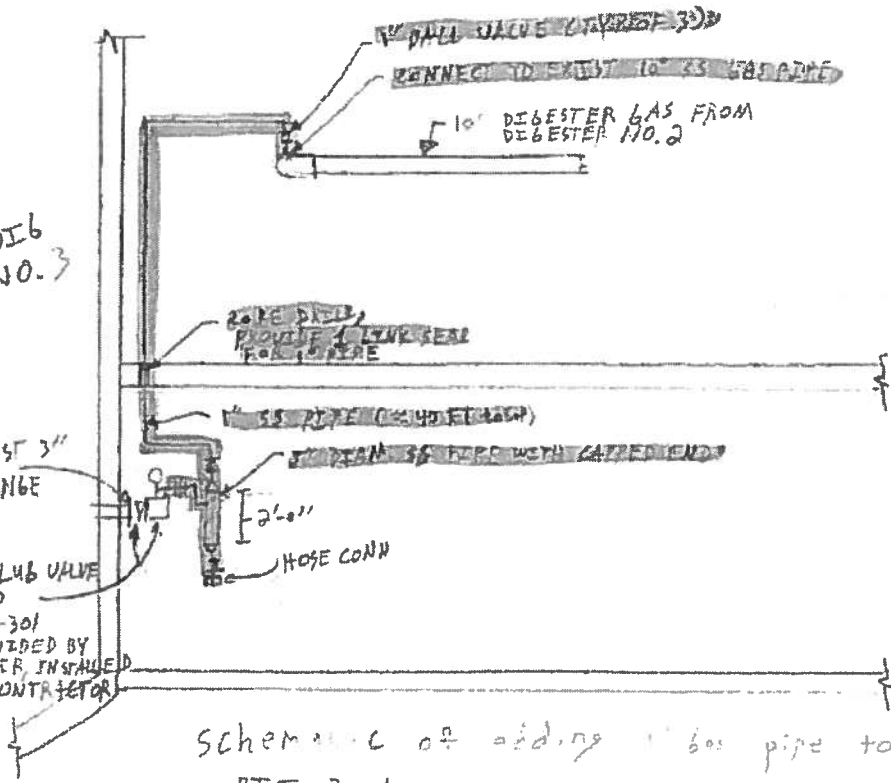
Building a world of difference.

2009						
JANUARY			1	2	3	
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MARCH	1	2	3	4	5	6
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	31					
APRIL			1	2	3	4
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	29	30	31			
MAY				1	2	
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JUNE						
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	31					
JULY				1	2	3
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	28	29	30	31		
AUGUST						
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	25	26	27	28	29	30
	31					
SEPTEMBER						
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	7	8	9	10	11	12
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	25	26	27	28	29	30
	31					
OCTOBER						
	1	2	3	4	5	6
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	13	14	15	16	17	18
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	31					
NOVEMBER						
	1	2	3	4	5	6
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	19	20	21	22	23	24
	25	26	27	28	29	30
	31					
DECEMBER						
	1	2	3	4	5	6
	7	8	9	10	11	12
	13	14	15	16	17	18
	19	20	21	22	23	24
	25	26	27	28	29	30
	31					

DIG NO. 3

EXIST 3" FLANGE

3" PLUG VALVE AND PIT-301 PROVIDED BY OWNER INSTALLED BY CONTRACTOR



Schematic of adding 60' pipe to PIT-301

FIGURE 2

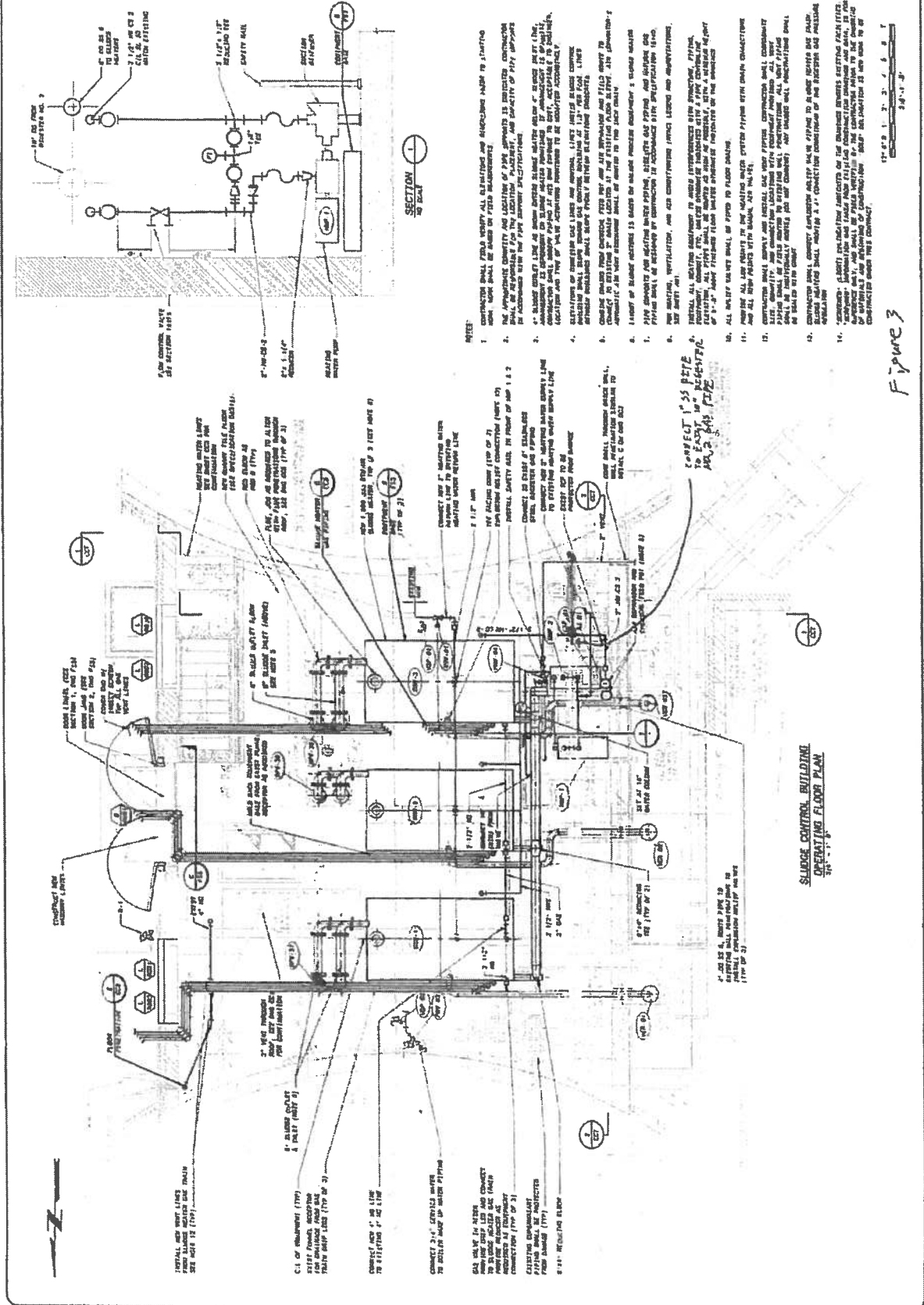


Figure 3

Piping Aloys.
Ferguson

Lawrence Digester Improvements
Date: 02/17/12 Support Quote

Description	Qty	Unit	Price	Total
Anvil AS 200EH 1 5/8" x 1 5/8" 304 SST Strut	10	If	12.50	125.00
Anvil Fig 146 3/8" Allthread	12	If	5.75	69.00
Anvil Fig 65 1" Clevis Hanger 304 SST	1	Ea	7.50	7.50
Anvil Fig 103 3" Pipe 304 SST Offset Support B=5"	1	Ea	38.75	38.75
Anvil AS 1100 SST 1" Pipe	6	Ea	3.95	23.70
LS-300 Link-Seal	8	Ea	6.25	50.00
		Ea		0.00
		Ea		0.00
		Ea		0.00
		If		0.00
		Ea		0.00
		Ea		0.00
		Ea		0.00

313.95

Lawrence Digester Improvements
 Date: 02/17/12 Pipe Quote

Description	Qty	Unit	Price	Total
SST 316 Threaded 1" Dia. Threaded Sch 40 Pipe	40	Lf	6.25	250.00
SST 316 Threaded 1" Dia. Threaded 90 deg bend 150 lb	8	Ea	4.17	33.36
SST 316 Threaded 1" Dia. Threaded Union	1	Ea	10.78	10.78
SST 316 Threaded 1" Dia. Threaded Ball Valve IMPORI	2	Ea	27.00	54.00
SST 316 Threaded 1" dia x 6" long threaded nipple	1	Ea	9.96	9.96
SST 316 Threaded 1" dia x 12" long threaded nipple	1	Ea	19.50	19.50
SST 316 Threaded 1" dia x 10" long threaded nipple	1	Ea	16.36	16.36
SST 316 1" thread-O-let 3000#	3	Ea	20.35	61.05
SST 316 3" Dia Weld Cap sch40	2	Ea	16.15	32.30
SST 316 Sch 40 3"Dia. Pipe	3.0	Lf	35.00	105.00
SST 316 Threaded hose barb 1" x 1" mnpt	1.0	Ea	10.65	10.65
		Ea		0.00
		Ea		0.00
				602.96

**LAWRENCE, KANSAS
DIGESTER IMPROVEMENTS PROJECT**

**CITY PROJECT NO. WW0601
CITY BID NO. B1106
BLACK & VEATCH PROJECT NO. 165210**

SUMMARY

CHANGE ORDER ITEM CO2-4

ADD CONDENSATE DRAINS AT WASTE GAS FLARE



March 5, 2012

Aaron Lemke
Black & Veatch
8400 Ward Parkway
Kansas City, MO 64114

Re: Lawrence Digester Improvements

Dear: Mr. Lemke

Walters-Morgan has enclosed change proposal #7 for the amount of \$706.00. The proposal is for installation of the 2 each 1/2" SST drains on the waste gas flare.

Walters-Morgan has included the labor, material, and equipment to install the 1/2" drain lines. Walters-Morgan will install threaded 1/2" 316 SST piping for the drain on the thermal valve and flame trap.

Please contact me at (785) 539-7513 ext. 111 if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'Scott Mueller', written over a white background.

Scott Mueller
President / Project Manager

cc: File

CHANGE ITEM NO. 7

WALTERS-MORGAN CONSTRUCTION, INC.
 Digester Improvements
 Lawrence, KS

JOB NO.
 DATE

211-04
 05-Mar-12

Install 1/2" drain at waste gas flare

Item Description	Qty	Unit	Labor Unit \$	Labor Total	Mat Unit \$	Mat Total	Sub Unit \$	Sub Total	Equip Unit \$	Equip Total	Total
Tap and install 1/2" drain on the thermal valve	2.5	hr	81.67	204.18	0.00	0.00	0.00	0.00	24.00	60.00	264.18
Install 1/2" drain on Flame Trap Piping Material	1.5	hr	81.67	122.51	0.00	0.00	0.00	0.00	0.00	0.00	122.51
	1	ls	0.00	0.00	227.57	227.57	0.00	0.00	0.00	0.00	227.57
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Subtotals

\$326.68

\$227.57

\$0.00

\$60.00

\$614.25

SUBTOTAL

\$614.25

Contractor's Fee (15%)

\$92.14

Contractor's Fee (5%)

\$0.00

TOTAL

TOTAL

\$706

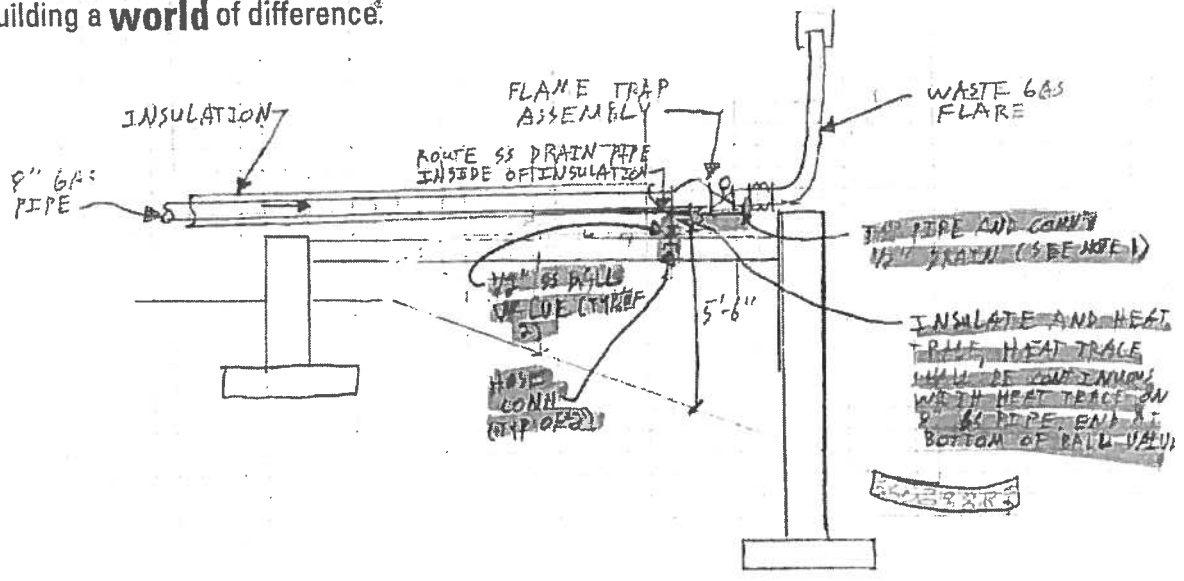
ADDITIONAL TIME REQUIRED -



BLACK & VEATCH
Building a world of difference.

2009

JANUARY			1	2	3				
	4	5	6	7	8	9	10		
	11	12	13	14	15	16	17		
	18	19	20	21	22	23	24		
	25	26	27	28	29	30	31		
FEBRUARY			1	2	3	4	5	6	7
	8	9	10	11	12	13	14		
	15	16	17	18	19	20	21		
	22	23	24	25	26	27	28		
MARCH			1	2	3	4	5	6	7
	8	9	10	11	12	13	14		
	15	16	17	18	19	20	21		
	22	23	24	25	26	27	28		
	29	30	31						
APRIL				1	2	3	4		
	5	6	7	8	9	10	11		
	12	13	14	15	16	17	18		
	19	20	21	22	23	24	25		
	26	27	28	29	30				
MAY					1	2			
	3	4	5	6	7	8	9		
	10	11	12	13	14	15	16		
	17	18	19	20	21	22	23		
	24	25	26	27	28	29	30		
	31								
JUNE			1	2	3	4	5	6	
	7	8	9	10	11	12	13		
	14	15	16	17	18	19	20		
	21	22	23	24	25	26	27		
	28	29	30						
JULY				1	2	3	4		
	5	6	7	8	9	10	11		
	12	13	14	15	16	17	18		
	19	20	21	22	23	24	25		
	26	27	28	29	30	31			
AUGUST						1			
	2	3	4	5	6	7	8		
	9	10	11	12	13	14	15		
	16	17	18	19	20	21	22		
	23	24	25	26	27	28	29		
	30	31							
SEPTEMBER					1	2	3	4	5
	6	7	8	9	10	11	12		
	13	14	15	16	17	18	19		
	20	21	22	23	24	25	26		
	27	28	29	30					
OCTOBER						1	2	3	
	4	5	6	7	8	9	10		
	11	12	13	14	15	16	17		
	18	19	20	21	22	23	24		
	25	26	27	28	29	30	31		
NOVEMBER							1	2	3
	4	5	6	7	8	9	10	11	12
	13	14	15	16	17	18	19	20	21
	22	23	24	25	26	27	28		
	29	30							
DECEMBER			1	2	3	4	5		
	6	7	8	9	10	11	12		
	13	14	15	16	17	18	19		
	20	21	22	23	24	25	26		
	27	28	29	30	31				



sketch of adding drain to
Flame Trap assembly at Waste Gas Flare

NOTES:

- PUN THE 1/2" DRAIN FROM THE DOWNSTREAM SIDE OF THE THERMAL SHUT OFF VALVE PARALLEL TO THE 1/2" DRAIN FROM THE FLAME ARRESTOR. WRAP HEAT TRACE AROUND BOTH DRAINS.

FIGURE 1

Scott Mueller**From:** Blake Wilt [bwilt@pipingalloys.com]**Sent:** Monday, March 05, 2012 10:13 AM**To:** Scott Mueller**Subject:** Re: Lawrence SST Quote

Scott,

SST 316 Threaded 1/2" Pipe Sch 40	20 lf - \$4.05/ft (stock)
SST 316 Threaded 1/2" 90 deg bend 150 lb	4 ea - \$2.29 ea (stock)
SST 316 1/2" Threa Ball Valve FP 2PC (import)	2 ea - \$20.78 ea (stock)
SST 316 1/2" dia 2" long Threaded nipple	2 ea - \$2.44 ea (stock)
SST 316 Threaded Hose Barb 1/2" x 1/2" mnpt	2 ea - \$9.85 ea (stock)

81
9.16
41.56
4.88
19.70
156.30

Please let me know if we can help you with this list of material.

Thanks,

Blake Wilt
Piping Alloys Inc
13899 W 101st St | Lenexa KS 66215
ph: 913-677-3833 | fax: 913-262-7552
<http://www.pipingalloys.com>

1/2" NPT TAP 71.27
4/5/641

----- Original Message -----

From: Scott Mueller**To:** Blake Wilt**Sent:** Monday, March 05, 2012 9:33 AM**Subject:** Lawrence SST Quote

Blake,

Walters-Morgan is requesting pricing for the following list of items:

SST 316 Threaded 1/2" Pipe Sch 40	10 lf
SST 316 Threaded 1/2" 90 deg bend 150 lb	4 ea
SST 316 1/2" Threaded Ball Valve	2 ea
SST 316 1/2" dia 2" long Threaded nipple	2 ea
SST 316 Threaded Hose Barb 1/2" x 1/2" mnpt	2 ea

Contact me if you have any questions.

Thank you,

Scott Mueller,
Walters-Morgan Construction, Inc.
785-539-7513, ext. 111

3/5/2012

**LAWRENCE, KANSAS
DIGESTER IMPROVEMENTS PROJECT**

**CITY PROJECT NO. WW0601
CITY BID NO. B1106
BLACK & VEATCH PROJECT NO. 165210**

SUMMARY

CHANGE ORDER ITEM CO2-5

REPLACE PLUG VALVES AT DIGESTERS NO. 1 AND 2



March 5, 2012

Aaron Lemke
Black & Veatch
8400 Ward Parkway
Kansas City, MO 64114

Re: Lawrence Digester Improvements

Dear: Mr. Lemke

Walters-Morgan has enclosed change proposal #8 for the amount of \$4,103.00. The proposal is for removal and replacement of DPV-8, 44, and DPV-52 in the Sludge Control Building as requested.

Walters-Morgan has included the labor, material and equipment to remove and install the 2 each 6" and 1 each 8" Henry Pratt Plug Valve. Gray & Company has included coating the 3 each new valves.

Please contact me at (785) 539-7513 ext. 111 if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Mueller", written over a white background.

Scott Mueller
President / Project Manager

cc: File

CHANGE ITEM NO. 4

WALTERS-MORGAN CONSTRUCTION, INC.
 Digester Improvements
 Lawrence, KS

JOB NO.
 DATE

211-04
 05-Mar-12

Digester #1 Valve replacement DPV-44 and DPV-8
 Digester #2 Valve replacement DPV-52

Item Description	Qty	Unit	Labor Unit \$	Labor Total	Mat Unit \$	Mat Total	Sub Unit \$	Sub Total	Equip Unit \$	Equip Total	Total
Remove and replace existing 6" valves	2	ea	426.08	852.16	20.50	41.00	0.00	0.00	42.00	84.00	977.16
Remove and replace existing 8" valve	1	ea	463.94	463.94	25.64	25.64	0.00	0.00	42.00	42.00	531.58
Henry Pratt 6" & 8" Plug Valves	1	ls	0.00	0.00	1922.00	1922.00	0.00	0.00	0.00	0.00	1922.00
Gray & Co to coat new valves	3	ea	0.00	0.00	0.00	0.00	50.00	150.00	0.00	0.00	150.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Subtotals			\$1,316.10	\$1,988.64		\$150.00		\$126.00		\$3,580.74
SUBTOTAL										\$3,580.74

Contractor's Fee (15%)										\$514.61
Contractor's Fee (5%)										\$7.50

TOTAL **\$4,103**

ADDITIONAL TIME REQUIRED -

**LAWRENCE, KANSAS
DIGESTER IMPROVEMENTS PROJECT**

**CITY PROJECT NO. WW0601
CITY BID NO. B1106
BLACK & VEATCH PROJECT NO. 165210**

SUMMARY

CHANGE ORDER ITEM CO2-6

**REMOVE ABANDONED PIPING INSIDE
SLUDGE CONTROL BUILDING**



March 5, 2012

Aaron Lemke
Black & Veatch
8400 Ward Parkway
Kansas City, MO 64114

Re: Lawrence Digester Improvements

Dear: Mr. Lemke

Walters-Morgan has enclosed change proposal #9 for the amount of \$6,043.00. The proposal is for removal of the 6" and 8" lines in the Sludge Control Building as indicated on the attached drawing.

Walters-Morgan has included the labor, material and equipment to remove the 6" and 8" piping. Include is the cost to remove and dispose of the concrete pipe supports. Plugging of the floor and wall penetrations is included.

Please contact me at (785) 539-7513 ext. 111 if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Mueller", is written over a white background.

Scott Mueller
President / Project Manager

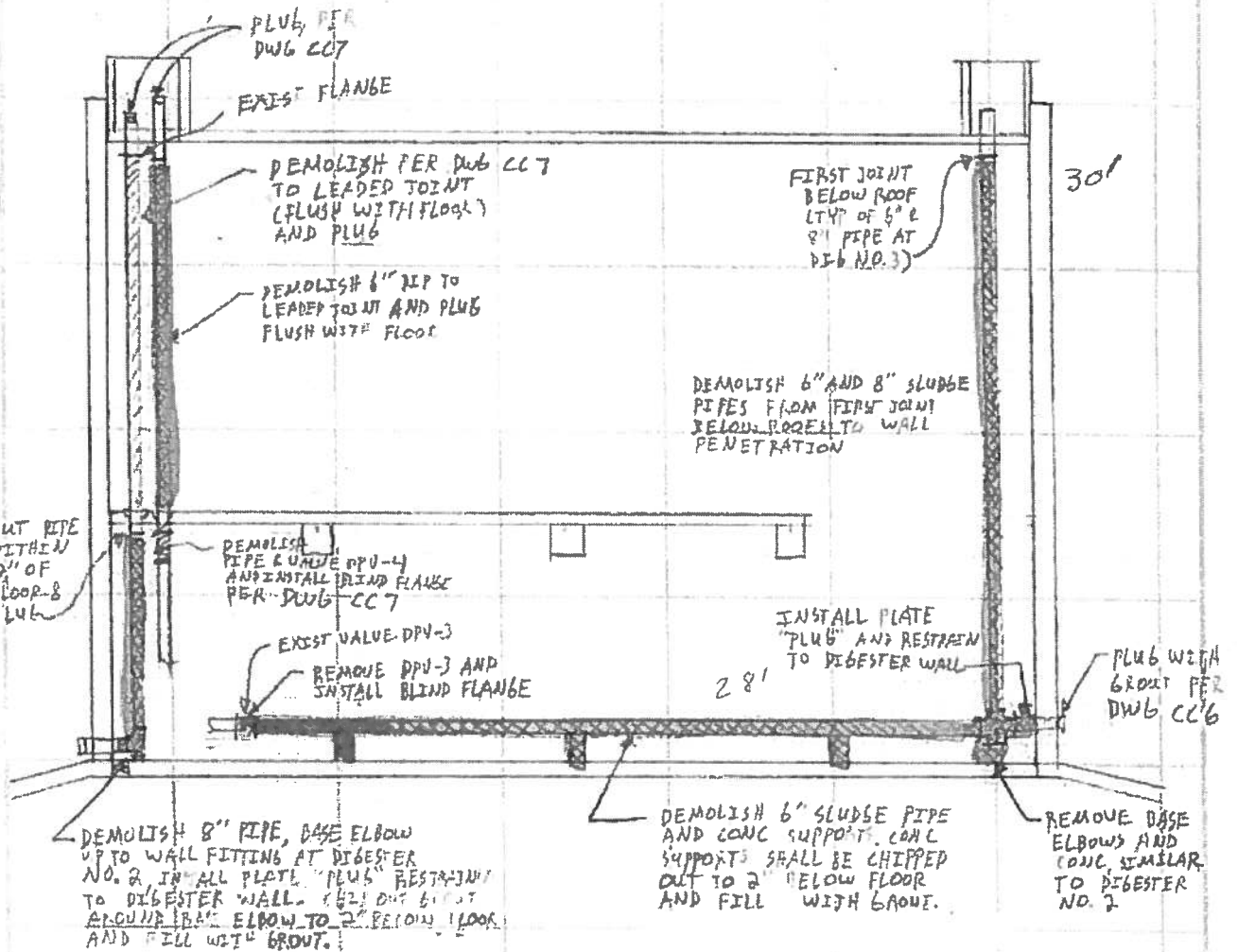
cc: File



Owner _____ Computed By _____
 Plant _____ Unit _____ Date _____ 20____
 Project No. _____ File No. _____ Verified By _____
 Title _____ Date _____ 20____
 Page _____ of _____

- DEMOLITION IN CONTRACT
- ADDITIONAL DEMOLITION

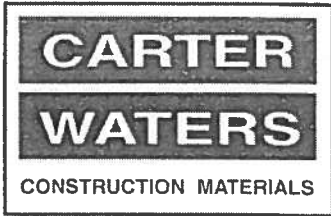
DO NOT WRITE IN THIS SPACE



Revised, Superseded, and Void Calculations Must Be Clearly Identified, Initialed, and Dated by the Responsible Individual.

Lawrence Digester Improvements
Date: 03/02/12

Description	Qty	Unit	Price	Total
3/4" x 3' long Threaded Rod	1	Ea	20.45	20.45
8" Dia Blind Flange	1	Ea	81.60	81.60
6" Dia Blind Flange	1	Ea	48.60	48.60
10" dia x 3/4" plate for wall penetration	1	Ea	123.00	123.00
8" Bolt & Gasket Sets	1	Ea	16.50	16.50
6" Bolt & Gasket Sets	1	Ea	10.25	10.25



232430

INQUIRIES: 816-471-2570
 P.O. BOX 412676
 KANSAS CITY, MO 64141
 REMIT TO:
 P.O. Box 412676
 Kansas City, MO. 64141

INVOICE # 35015257
 LOCATION # 35
 DATE 02/20/12
 PAGE 1 OF 1

INVOICE

WALTERS MORGAN CONSTRUCTION CO
 2616 TUTTLE CREEK BLVD
 MANHATTAN, KS 66502-4479

SHIP TO:
 WALTERS MORGAN CONSTRUCTION CO
 LAWRENCE ANAEROBIC DIGESTER
 1400 EAST 8TH STREET
 LAWRENCE, KS

Job# 21104 LAWRENCE ANAEROBIC D
 3320 35-KS SLS TAX.LAWRENCE FREIGHT TERMS: PREPAID ALLOWED
 CUST P/O: 21104 REPS: 33 / TERMS: NET 30 DAYS
 ORD-DATE: 02/16/12 WRITTEN: RDS ORDER #: 35016721 SHIP VIA: OUR TRUCK

PRODUCT/DESCRIPTION	OPEN	SHIP'D	B/O	PRICE	U/M	EXTENSION
GROUT CW100-1107 50LB BAG PRECISION GROUT NS NON-METALIC KDOT MDOT IDOT 60/PL	25	25	0	10.2240	BAG	255.60
CHE 51656438 THORO ACRYL 60 5 GAL/PAIL 36/PALLET	1	1	0	113.8190	PL	113.82
FUEL SURCHARGE FUEL SURCHARGE	1	1	0	17.5000	EA	17.50

JOB SITE CONTACT
 DAVID 785-587-7491

B/L# 0482705

JOB 211.04 PHASE 30110
 ENDOR MS
 STAINAGE Y (N)
 PA: REG # 8 COPY Y (N)
 BY SIAM

FEB 23

Job Tax # 1105 KS01400443

MDSE TOTAL	HANDLING	MISC CHG	TAX	FREIGHT	DEP-AMT	DEP-APPLD	INVOICE TOTAL
386.92	0.00	0.00	0.00	0.00	0.00	0.00	386.92

~~A SERVICE CHARGE OF 1 1/2 PER MONTH WILL BE ADDED
 TO DEBIT BALANCES OVER 60 DAYS OLD~~

Special order and non-stock merchandise is non-returnable/non-refundable.
 All other merchandise returns are subject to a 20% restocking charge.

**LAWRENCE, KANSAS
DIGESTER IMPROVEMENTS PROJECT**

**CITY PROJECT NO. WW0601
CITY BID NO. B1106
BLACK & VEATCH PROJECT NO. 165210**

SUMMARY

REQUEST FOR ADDITIONAL CALENDAR DAYS

Lemke, Aaron W.

From: Scott Mueller [ScottM@waltersmorgan.com]
Sent: Tuesday, March 06, 2012 3:20 PM
To: Lemke, Aaron W.
Subject: Lawrence Digester Improvements

Aaron,

As we discussed Walters-Morgan is requesting time extensions for the change proposals below:

Change Proposal #4 Removal and Replacement of DPV-57, 58, 59 and addition of a new valve in the 6" vent line, 2 calendar days.

Change Proposal #5 Removal and replacement of Digester #3 sample lines, 1 calendar day.

Change Proposal #6 Installation of the 1" SST gas line from the 10" digester gas line to PIT-301, 1 calendar day.

Change Proposal #7 Installation of the drains on the waste gas flare, no days requested.

Change Proposal #8 Removal and replacement of DPV-8, 44, and 52, 2 calendar days.

Change Proposal #9 Removal of the 6" and 8" piping in the Sludge Control Building, 4 calendar days.

Pipe away modifications for Digester #3 Pressure/Vacuum relief valves, 4 calendar days due to welding. *

Please contact me if you have any questions.

Thank you,

Scott Mueller,
Walters-Morgan Construction, Inc.
785-539-7513, ext. 111

** This item will be part of a future work change directive*