

CONTRACTOR'S APPLICATION FOR PAYMENT

**PROJECT: Clinton Lake Treatment Plant-PAC Feed
BMcD Project #123031**

NO. 5 Final

Date: 2/16/23

Engineer: Burns McDonnell Engineering

To: City of Clinton
415 Gary Blvd
Clinton, OK 73601

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WALTERS-MORGAN CONSTRUCTION

Work accomplished through: February 15, 2023

WALTERS-MORGAN JOB NO. 221-06

CHANGE ORDER SUMMARY		
Change Orders approved in previous months by Owner	ADDITIONS	DEDUCTIONS
Total		
Approved this Month		
Number	Date Approved	
Totals	\$0.00	\$0.00
Net change from Changes	\$0.00	

The present status of the account for this Contract is as follows:

ORIGINAL CONTRACT SUM	\$	\$897,000.00
Net Change by Change Orders	\$	\$0.00
CONTRACT SUM TO DATE	\$	\$897,000.00
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TOTAL COMPLETED & STORED TO DATE	\$	\$897,000.00
RETAINAGE <u>0%</u> Work Completed	\$	\$0.00
RETAINAGE <u>0%</u> Materials on Hand	\$	\$0.00
TOTAL EARNED LESS RETAINAGE	\$	\$897,000.00
LESS PREVIOUS CERTIFICATES FOR PAYMENT	\$	(\$842,650.00)
CURRENT PAYMENT DUE	\$	\$54,350.00

The undersigned CONTRACTOR certifies that: (1) all previous payments received from Owner on account of Work done under the Contract referred to above have been applied to discharge CONTRACTOR'S legitimate obligations incurred in connection with Work covered by prior Applications for Payment number _____, inclusive; (2) title of all Work, materials and equipment incorporated in said Work or otherwise listed in or covered by the Application for Payment will pass to OWNER at time of payment free and clear of Liens, security interests and encumbrances (except such as are covered by a Bond acceptable to OWNER indemnifying OWNER against any such Lien, security interest or encumbrance); and (3) all Work covered by this Application for Payment is in accordance with the Contract Documents and not defective.

Dated: 3/3/23

WALTERS-MORGAN CONSTRUCTION, INC.

CONTRACTOR

By:

Craig Driskel
Craig Driskel - Project Mgr.

	Owner
	Contractor
	Engineer

The undersigned certifies the work has been carefully inspected and to the best of their knowledge and belief, the quantities shown in this estimate are correct and the work has been performed in accordance with the contract.

APPROVED BY OWNER

Dated: 3/17/23

BURNS MCDONNELL ENGINEERING

ENGINEER

By:

Dana Weir

By: _____

Date: _____

WALTERS-MORGAN CONSTRUCTION, INC.

SCHEDULE OF VALUES
Clinton WTP PAC Feed System

PERIOD ENDING: 2/15/2023

BMcD Project # 123031
Clinton WTP PAC Feed System
WALTERS-MORGAN JOB NO. 221-06

DATE: 2/16/2023

Billing # 5 Final

ORIGINAL CONTRACT AMOUNT \$897,000

ITEM	DESCRIPTION	QTY	UNIT	\$	TOTAL PRICE	QTY THIS PER	QTY PREV ESTIM.	QTY TO DATE *	AMOUNT THIS PER	AMOUNT PREV. EST.	AMOUNT TO DATE
1	BONDS & INSURANCE	1.0	LS		\$20,000.00	0.00%	100.00%	100.00% *	\$0.00	\$20,000.00	\$20,000.00
2	CONSTRUCTION MOBILIZATION	1.0	LS		\$10,000.00	0.00%	100.00%	100.00% *	\$0.00	\$10,000.00	\$10,000.00
5	DEMOBILIZATION	1.0	LS		\$5,000.00	50.00%	50.00%	100.00% *	\$2,500.00	\$2,500.00	\$5,000.00
6	WATERLINE	1.0	LS		\$23,000.00	0.00%	100.00%	100.00% *	\$0.00	\$23,000.00	\$23,000.00
7	DRAIN LINE	1.0	LS		\$24,000.00	0.00%	100.00%	100.00% *	\$0.00	\$24,000.00	\$24,000.00
8	SLURRY LINE	1.0	LS		\$32,000.00	0.00%	100.00%	100.00% *	\$0.00	\$32,000.00	\$32,000.00
9	ASPHALT REPAIR	1.0	LS		\$8,000.00	0.00%	100.00%	100.00% *	\$0.00	\$8,000.00	\$8,000.00
10	DRILLED PIERS	1.0	LS		\$45,000.00	0.00%	100.00%	100.00% *	\$0.00	\$45,000.00	\$45,000.00
11	BASE SLAB	1.0	LS		\$45,000.00	0.00%	100.00%	100.00% *	\$0.00	\$45,000.00	\$45,000.00
12	PAC EQUIPMENT	1.0	LS		\$590,000.00	0.00%	100.00%	100.00% *	\$0.00	\$590,000.00	\$590,000.00
13	EQUIPMENT START	1.0	LS		\$5,000.00	50.00%	50.00%	100.00% *	\$2,500.00	\$2,500.00	\$5,000.00
14	ELECTRICAL WORK	1.0	LS		\$80,000.00	0.00%	100.00%	100.00% *	\$0.00	\$80,000.00	\$80,000.00
15	HEAT TRACING	1.0	LS		\$5,000.00	50.00%	50.00%	100.00% *	\$2,500.00	\$2,500.00	\$5,000.00
16	SEEDING	1.0	LS		\$5,000.00	50.00%	50.00%	100.00% *	\$2,500.00	\$2,500.00	\$5,000.00
17			LS		\$0.00	0.00%	0.00%	0.00% *	\$0.00	\$0.00	\$0.00

TOTAL CONTRACT	\$897,000.00	*	\$10,000.00	\$887,000.00	\$897,000.00
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TOTALS	% COMPLETE
A. TOTAL WORK COMPLETED	100.00%
B. TOTAL MATERIAL ON HAND	\$897,000.00
	\$0.00
TOTAL COMPLETED & STORED	100.00%
RETAINAGE WORK COMPLETED (0%)	\$897,000.00
RETAINAGE STORED MATERIALS (0%)	\$0.00
	\$0.00
TOTAL EARNED LESS RETAINAGE	\$897,000.00
PREVIOUS PAYMENTS	<u>\$842,650.00</u>
AMOUNT DUE CONTRACTOR	\$54,350.00



Powdered Activated Carbon (PAC) Startup Report

February 15, 2023

Owner:	City of Clinton 415 Gary Blvd. Clinton, OK 73601
Equipment:	Powdered Activated Carbon (PAC) Storage and Feed System
SO #:	7155
Specifications Section:	46 36 15
VeloDyne Contact:	Service Manager Bob Dunkerson 303.530.3298 x205 bdunkerson@velodynesystems.com
Manufacturer's Representatives:	Jim Beer Hartwell Environmental Corporation 918-728-0770 jbeer@hartwellenv.com & Tim Hunt Fluid Equipment Company 918-998-7021 thunt@fluidequipment.com

15 February 2023

Equipment has been successfully commissioned and training provided to plant personnel for the operation and maintenance of the PAC silo and feed equipment.

Majority of deficiencies were shipping related to include;

- 1) The heater was shaken loose during shipping. Returned to VeloDyne MO. For repair and re install by the contractor
- 2) Dust collector differential pressure switch shaken loose during transport. Hardware replaced and tightened
- 3) Auger gear box cover bolts missing, auger bolt loose. Hardware replaced and tightened
- 4) Bin activator main sleeve seal broken loose, resealed on site and verified
- 5) Feeder downspout out of alignment, motor operating backwards rotation at startup. Corrected on site and verified

Commissioning:

- 1) Verified incoming power primary and secondary voltage
- 2) Verified equipment room lights, inside and out
- 3) Man door hardware internal switch was set to lock from the inside i.e. allow for someone to mistakenly lock themselves inside the silo. Hardware removed and made to not allow recurrence.
- 4) Set electrical overloads and adjustable CB's
- 5) Verified dust collector rotation and operation sequence
- 6) Silo Vibravivo dip switches set and verified
- 7) Calibrate guided wave radar and verified
- 8) Adjusted and verified pressure switches operation
- 9) Verified installation of silo filter bags
- 10) Inspect overall mechanical/ electrical installation and plumbing
- 11) "Dry" (empty) started equipment to verify motor rotations, operation sequence, alarm shut-down and recovery
- 12) Reversed wetting cone high level float switch output from N.O. to N.C and verified
- 13) Verified incoming water flow and pressure, motive valve operation
- 14) Adjusted wetting cone spray nozzles and drip loop
- 15) Verified rotation/ operation silo heater and exhaust fan
- 16) Verified rotation/ operation of rotary airlock valve
- 17) Verified operation silo gate valve open/ close and seal integrity
- 18) Verified alarm horn operation
- 19) Authorized PAC delivery and fill- verified operation of truck unload panel and alarms
- 20) Verified auger rotation/speed feed reference and complete sequence of operation

- 21) Calibrate auger feeder to 9.4#'s per hour @ 60 Hz
- 22) Collect and record motor amp draws
 - a. Equipment room heater= 12A
 - b. Volumetric Feeder at 100% speed w/ PAC = .8A
 - c. Rotary airlock Valve Motor = 1A
 - d. Bin Activator motor= 2.6A
 - e. Dust Collector blower motor= 6.2A
 - f. Dust collector shaker motor= .8A

Provided operator and maintenance training



PAC System Startup Checklist and Customer Acceptance

Project Name: Fluid Equipment - Clinton PAC	Sales Order / Project Number: 7155
Equipment Serial No. 222-7155-3774	Equipment Model #: PAC Silo
Start-Up Inspector (VeloDyne): Bob Dunkerson	Contract Inspector:

Inspector and Contractor to inspect and verify the following:

Mechanical

- All fasteners verified tightened
- Motors Aligned
- Motor Direction Verified
- All guards are in place and securely fastened

Plumbing:

- Plumbing System Tested with no leaks found
- Valves verified to be installed in correct flow direction
- Valves verified to open and close properly
- Flow meters verified for proper operation

Electrical:

- All components verified to be securely installed
- All wires properly installed with no stray strands and pull tested
- All terminal blocks tightened properly and to the proper torque
- All wires labeled
- All components labeled where required
- Input signals and commands verified operational
- Output signals verified operational
- Display meters calibrated to default settings
- Pressure switch operational and calibrated. Set-point: _____
- System alarms verified operational and display & clear on HMI properly

Feeder

Feeder operational, auger and overwind secured and rotation verified

Low hopper level proximity switch operational and indicates properly.

Volumetric Feeder Calibration Set Point 9.4 lbs/min @ 60 vdc/hz

Wetting Cone

Plumbing free of defects/damage, leak free, verified correct installation to mechanical drawings

Inside free of debris

Washdown valves operational and flow setup properly

Discharge valve operational, verified open/close

High level alarm verified operational

Calibration Notes:

PAC feed auger calibrated to 9.4#'s per hour at 60hz- Feeder has the capability to operate up to 90hz; commissioned at 60hz maximum due to the required feed rate being in the 9#'s per day (estimated) range

Special Notes:

*incoming water supply leaking and hand valve stuck; new back-flow preventer assembly ordered to be installed by contractor

Bob Dunkerson
Print Name

[Signature] 2/15/23
Signed - VeloDyne Authorized Service Technician, Date

VeloDyne start-up & training services are deemed complete and all retainages held for services are hereby released:

Print Name

Signed - Customer, Date



March 6, 2023

Burns & McDonnell Engineering
PO Box 419173
Kansas City, MO 64141

Attn: Dana Weir

RE: Clinton WTP PAC Feed System
Clinton, OK
Project Substantial Completion

Dear Ms. Weir:

Final checks of the PAC equipment was completed on or about February 14, 2023 with the equipment being ready for full operation. With this status, we are requesting project Substantial Completion be effective February 15, 2023.

Your attention to this request is appreciated.

Sincerely,

A handwritten signature in blue ink that reads 'Craig Driskel'.

Craig Driskel
Project Manager
Walters-Morgan Construction, Inc

CDBG CERTIFICATE OF COMPLETION

I, Dana Weir

(print your name here)

Engineering: Burns & McDonnell

(print name of company)

Architect: _____

(print name of company)

County Commissioner: _____

(print name of County)

City/Town Personnel: _____

(print name of City/Town here)

have been the project site overseer for CDBG Project # 17852, for the City
of Clinton, Washita County, Oklahoma, for certain improvements consisting of:

(Project description) Installation of a powdered activated carbon storage and feed silo.

do hereby concur that the above referred to improvements were accomplished according to approved plans and specifications and/or duly authorized change orders, to the best of my knowledge, information and belief. This Certification is for the benefit of the OWNER listed above to finalize the project quantities and payment.

A final field observation of the project was completed.

Craig Driskel

(print name of Contractor)

of Walters-Morgan

(print contractor company name here)

is the prime contractor on this job.

I DO HEREBY APPROVE THE ABOVE REFERRED TO IMPROVEMENTS, AND RECOMMEND APPROVAL TO THE
City of Clinton

(print name of City/Town/County)

Dated this 17 day of March, 2023.

Dana Weir
(your signature here)

Dana Weir
(print name here)

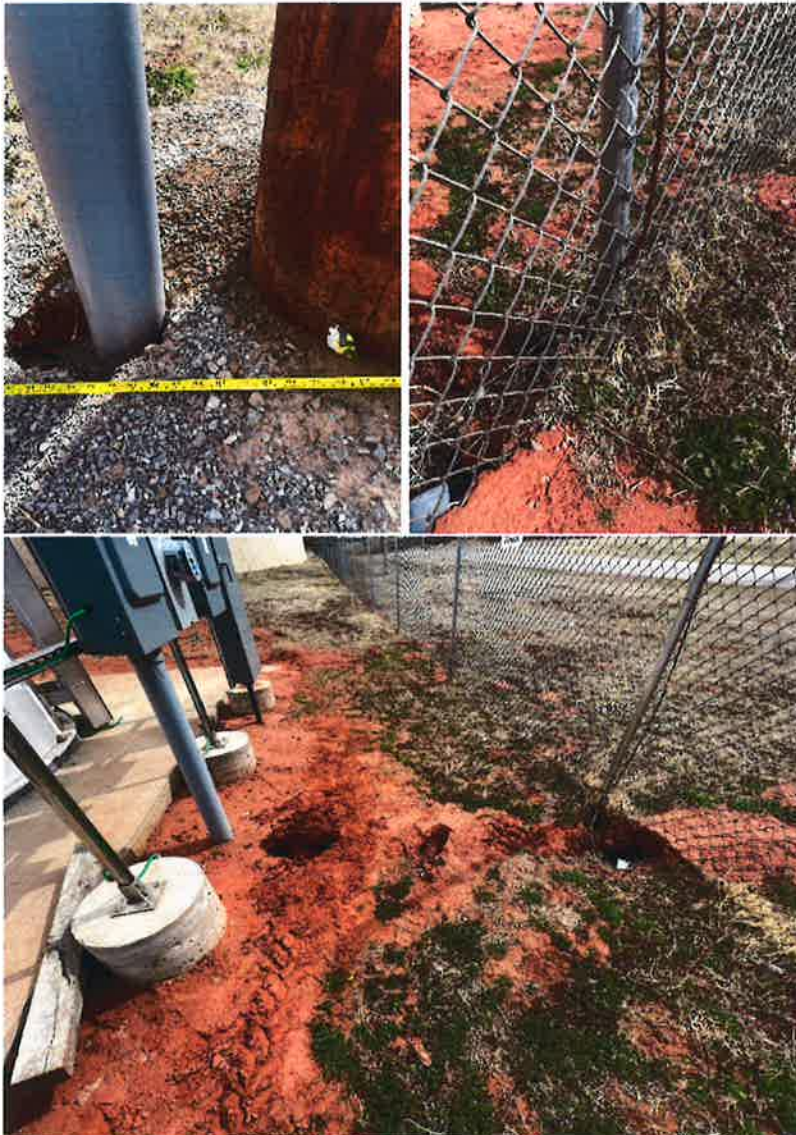
Burns & McDonnell
(print company name here)

March 17, 2023

Attn: Craig Driskel, Walters Morgan
Re: City of Clinton, OK PAC Project - Punchlist
PN 123031

Punchlist items:

1. Address ground settling around electrical conduit runs – see photos below.



2. Replace blackflow preventer assembly.

cc: Gene McCullough, City of Clinton
Robert Johnston, City of Clinton