



January 25, 2024

Honorable Chairman and Trustees
Oklahoma Water Utilities Trust
420 West Main St.
Oklahoma City, OK 73102

Subject: **Change Order No. 1**
Project No. WT-0151
Hefner Water Treatment Plant Ozone System Expansion / Upgrades
DWSRF Project No. P40-1020902-09 and P40-1020902-10

Honorable Chairman and Trustees:

I. **SCOPE:**

Change Order No. 1 will modify and take precedence over the original plans and specifications. Change Order No. 1 adds additional work necessary and modifies the total contract price for the completion of the project.

II. **JUSTIFICATION:**

Change Order No. 1 is necessary because of the following:

- **CO 1.1 Demolition of Wall in Ozone Building:** Change Order 1.1 is based on RFI #035 and PCO # 001 demolition of an existing office wall in the Ozone Building control room.

This wall must be removed in order to install the new Master Ozone Control Panel (MOCP) in the existing control room.
- **CO 1.2 Additional Door Hardware:** Change Order 1.2 is based on RFI #009 and PCO #002 additional Door Hardware.

RFI # 009 and PCO #002 addressed the additional material associated with Door Hardware Sets 14, 15, and 16 that were not clarified on the original door schedule. No additional labor was requested.
- **CO 1.3 Additional Waterstop in Chemical Building Containment** Change Order 1.3 is based on DCM #019 and PCO #004 Chemical Building Water Stop installation in the interior Polymer and Ferric Containment walls.

The interior containment walls for the spill containment for Polymer and Ferric Sulfate required the addition of water stop in the construction joint between the walls and floor of the basins. This change order is for the additional material, and labor to install the water stop. This work was

previously approved by the General Manager and the approval letter is included in the detailed description of this change order included in the backup documentation.

- **CO 1.4 Temporary Shoring Chemical Vault C:** Change Order 1.4 is based on DCM #020 and PCO #005 4 Chemical Vault Temporary Shoring.

Chemical Feed Vault C has experienced significant deterioration because of chemical leak, to the point at which there is concern of imminent failure. The contractor was directed to install temporary shoring to complete their work on the main water pipeline and to support the structure until permanent repair/replacement can be completed. This work was previously approved by the General Manager and the approval letter is included in the detailed description of this change order included in the backup documentation.

- **CO 1.5 Relocate Ozone Destruct SCR's:** Change Order 1.5 is based upon Submittal response to 16444.001, RFI #89 and PCO #006 which discuss the need to provide three (3) SCR's in separate, stand alone, enclosures rather than as part of the Ozone Building MCC (MCC-OZ) lineup to feed the heaters associated with the existing (3) and new (1) Ozone Destruct Units. This was done in accordance with the recommendations of the supplier of the Ozone Destruct Units, Veolia (formerly Suez).

This Change Order is for the procurement of the SCR's and the materials, labor, equipment and incidentals required to install these SCR's within the ozone building electrical room.

- **CO 1.6 Storm Sewer Pipe Diameter Change:** Change Order 1.6 is based on RFI# 031 and PCO # 007 where there is a change in materials for the round pipe as shown on the plans to horizontal elliptical pipe. This is necessary to connect and extend the existing elliptical pipe to allow construction of the new chemical building.

This Change Order is for the materials, labor, and installation of the horizontal elliptical pipe storm sewer pipe.

- **CO 1.7 Chemical Feed Vault Depth Change:** Change Order 1.7 is based upon a differing elevation of the existing 84" Finished Water line at the Chemical Feed Vault as discussed in RFI #033 and PCO # 008. This adjustment is for the extra depth encountered for the Chemical Feed Vault.
- **CO 1.8 Additional Clearwell No. 1 Demolition/New Work:** Change Order 1.8 is a change order to the contract that was discussed in RFI#67 and in PCO #013 for the additional demolition and new work necessary to remove the existing access ladder and concrete pad to enable the installation of the new Clearwell No. 1 weir wall.
- **CO 1.9 Additional Circuit Ozone Building Air Compressor:** Change Order 1.9 is a change order to the contract feed the Existing Air Compressor in the Ozone Building from the new Ozone building MCC as discussed in RFI# 085, and RFI # 093. The air compressor is utilized to generate compressed air for the purposes of displacing the ozone gas in the contactor during shutdowns to enable operations staff to quickly evacuate an ozone contact for the purpose of inspecting, testing, repair, rehabilitation, or replacement of the equipment inside the contactors. This change order is

associated with the materials, labor, and equipment necessary to provide, install, test, and place into working operation new wiring, conduit, and circuit breaker necessary to power the existing air compressor from the new Ozone MCC (MCC-OZ).

- **CO 1.10 Additional Reinforcing Clearwell #3/#4 Gate Structures:** Change Order 1.10 is a change to the contract price due to changed conditions found on the roof of Clearwells No. 3 and No. 4. These changed conditions necessitated the installation of temporary shoring to support the roof during construction of the clearwell weir walls and corresponding isolation gates and additional concrete reinforcement of the roof slab to support the new gate well and corresponding platform access. Due to the critical nature of this work and the need to restore the clearwells to service as soon as possible, prior approval from the General Manager was obtained to proceed with the work. This approval is included in the backup documentation associated with this Change Order Item.
- **CO 1.11 Additional Cleaning/Disinfection Clearwell #1:** Change Order 1.11 is a change to the contract price due to changed conditions within Clearwell #1 relating to additional disinfection and cleaning required for the baffle walls in Clearwell No. 1 while performing work to install the new clearwell inlet weir as discussed in PCO #17. Additional square footage of cleaning needed to be added to the base scope of work due to these changed conditions within Clearwell #1.
- **CO 1.12 Additional Ozone Contactor Roof Curb:** Change Order 1.12 is a change to the contract price to add a new concrete roof curb around the existing ozone contactor effluent gate opening to facilitate the installation of the new roof on the Ozone Contactor as discussed in RFI #102 and PCO #021. This will improve the roof and gate opening integrity and reliability of the roof connection.



III. COST ESTIMATE:

CHANGE ORDER NO. 1

ADDITIONS

Bid Item	Description	Unit	Unit Price	Revised Quantity	Quantity Increase	Cost Increase
CO 1.1	Demolition of Wall in Ozone Building	LS	\$3,066.75	1	1	\$3,066.75
CO 1.2	Additional Door Hardware	LS	\$9,223.02	1	1	\$9,223.02
CO 1.3	Additional Waterstop Chemical Building Containment	LS	\$26,200.00	1	1	\$26,200.00
CO 1.4	Temporary Shoring Chemical Feed Vault C	LS	\$36,000.00	1	1	\$36,000.00
CO 1.5	Relocate Ozone Destruct SCR's	LS	\$24,512.95	1	1	\$24,512.95
CO 1.6	Storm Sewer Pipe Diameter Change	LS	\$3,446.46	1	1	\$3,446.46
CO 1.7	Chemical Feed Vault Depth Change	LS	\$2,234.62	1	1	\$2,234.62
CO 1.8	Additional Cleaning and Disinfection Clearwell No. 1	LS	\$5,640.21	1	1	\$5,640.21
CO 1.9	Additional Circuit for Ozone Building Air Compressor	LS	\$20,172.85	1	1	\$20,172.85
CO 1.10	Additional Reinforcing Clearwell #3/#4 Gate Structures:	LS	\$65,916.21	1	1	\$65,916.21
CO 1.11	Additional Cleaning/Disinfection Clearwell #1	LS	\$13,325.06	1	1	\$13,325.06
CO 1.12	Additional Ozone Contactor Roof Curb	LS	\$13,233.84	1	1	\$13,233.84
TOTAL CHANGE ORDER NO. 1 ADDITION						\$222,971.97

Total Change Order No. 1:

\$222,971.97

IV. COST SUMMARY:

Original Contract Amount	\$44,432,000.00
Change Order No. 1	\$222,971.97 (0.50% increase)
Revised Contract Amount	\$44,654,971.97

Change order No. 1 represents an increase of \$222,971.97 or 0.50 percent of the original contract amount. Total change orders to date represent an increase of \$222,971.07 or 0.50 percent above the original contract amount. The revised contract amount is \$44,654,971.97.

V. CONTRACT TIME:

The table below summarizes the milestone dates specified in the original contract and the impact of this change order on the established contract times. The original contract called for 550 calendar days for the substantial completion of the new chemical building, 1,035 calendar days for the Substantial Completion of the project and 1,095 calendar days for the Final Completion of the project. This change order No. 1 does not modify these contract times. As a result, the contract milestones remain as originally specified.

Summary of Contract Milestones									
Description	Substantial Completion – Chemical Building			Substantial Completion of Project WT-0151			Final Completion of Project WT-0151		
	Increase/ (Decrease)	Cal Days	Date	Increase/ (Decrease)	Cal Days	Date	Increase/ (Decrease)	Cal Days	Date
Notice to Proceed		NA	05/12/22	NA		05/12/22	NA		05/12/22
Original Contract	0	550	11/23/23	0	1035	03/12/25	0	1095	05/11/25
Change Order No. 1	0	550	11/23/23	0	1035	03/12/25	0	1095	05/11/25

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The above and foregoing is hereby accepted this 30TH day of JAN., 2024; and the undersigned agrees to perform the work at the price indicated.

ATTEST:



Witness


Crossland Heavy Contractors

The prices for Change Order No. 1 were established through negotiation and appear to be fair and reasonable.




Thomas O. Crowley, P.E.

Approval is recommended.



Deputy Director, Utilities Engineering


Chris Browning, General Manager for
Deborah K. Miller, P.E., Interim City Engineer

APPROVED by the Trustees and signed by the Chairman of the Oklahoma City Water Utilities Trust this 27TH day of **FEBRUARY** 2024.

ATTEST:

Amy K Simpson
SECRETARY

 J D Couch
CHAIRMAN

CONCURRED by the Council and signed by the Mayor of The City of Oklahoma City this 12TH day of MARCH, 2024.

ATTEST:

Amy K Simpson
CITY CLERK

 David Holt
MAYOR

REVIEWED for form and legality.

Craig B Keith
GENERAL COUNSEL/
ASSISTANT MUNICIPAL COUNSELOR