



October 20, 2022

Honorable Chairman and Trustees  
Oklahoma City Water Utilities Trust  
420 W. Main, Suite 500  
Oklahoma City, OK 73102

RE: Amendment No. 2 and Change Order No. 2  
Project No. ST-0138  
Wastewater Treatment Plant Improvements  
South Canadian Wastewater Treatment Plant

Honorable Chairman and Trustees,

This letter presents the second set of contract modifications for the above-listed Project. These changes result from value engineering efforts made between City staff, the Project Engineer, CP&Y, and the Contractor, Crossland Heavy Contractors, Inc.

## I. SCOPE

Amendment No. 2 adjusts plan quantities to reduce total contract cost. Change Order No. 2 shows reductions and increases to bid item prices through contract modifications. The table below displays each itemized modification with description, cost reduction, and associated revised document. Each contract document that was revised is attached to this letter.

Item	Description of Change	Document Modification	Cost Reduction
1	Replace dowel-jointed concrete with asphalt except in truck route.	Reissue Sheets C-003, C-905, CG-100-110, CY-012. ODOT Asphalt Binder Index as of October 2022 needs to be used. 2" of S4 and 4" of S3	\$304,889.00
2	Reduce pier quantities for removal of anoxic zones and filter canopy.	Reissue Sheets G-007, G-010, G-011, G-012, G-300, G-301, C-002-009, CG-013, CG-018, CG-046, CG-048, CG-104-106, CG-108, CY-013, CY-018, B-300, B-363, M-252, M-253, M-300-303, M-370-372, M-400-402, S-253-259, S-300-303, S-306, S-309-311, S-363-367, S-401, S-407-410, S-413-414, S-501, S-504, S-508, E-011, E-054-056, E-088, E-094, E-300-305, E-370-371, E-400-405.	\$115,500.00
3	Replace paving around clarifiers with sidewalk and sod.	Reissue Sheets C-003, C-006, C-009, CY-022.	\$ 255,542.75
4	Remove the canopy for the filters.	M-400-402, S-401, S-407-410, S-413-414, S-501, S-504, S-508, E-400-405.	\$419,955.00

5	Remove a clarifier and make it a future installment.	Reissue Specifications 11351 – Final Clarifier Equipment, 17910 – Input Output List, and 17920 – Control Narrative. Reissue Sheets G-007, G-010-012, G-350, G-351, C-002-009, CG-022, CG-023, CG-049, CG-106, CY-022, CY-023, M-304-305, M-330, S-320-321, S-324, E-014, E-036, E-046, E-084, E-088, E-330, E-333.	\$4,372,973.00
6	Remove anoxic zones. Add junction box to north side of basins. Rotate and move the RAS Splitter Box to the east. Reduce basin thickness by reducing middle wall thickness and removing outer channels from anoxic zones. Remove 36" plug valves on DW-PVC line south of Grit Basin. Add plug valves to 36" DW line and 24" RAS line going into junction box.	Reissue Specifications 11375 – Extended Aeration System and 11388 – Hyperbolic Mixer. Reissue Sheets G-007, G-010, G-011, G-012, G-250, G-300, G-301, C-002-009, CG-013, CG-018, CG-046, CG-048, CG-104-106, CG-108, CY-013, CY-018, B-300, B-363, M-250, M-251, M-252, M-253, M-300-303, M-370-372, S-253-259, S-300-303, S-306, S-309-311, S-363-367, E-011, E-054-056, E-088, E-094, E-300-305, E-370-371.	\$2,044,545.00
7	Remove redundant onsite chlorine generator and associated equipment.	Reissue Specifications 11210 – On-site Sodium Hypochlorite Generation System, 17910 – Input Output List, and 17920 – Control Narrative. Reissue Sheets G-550, G-551, G-552, M-550, M-554, E-015, E-032, E-066, E-550, E-554-555, E-559-562.	\$561,332.00
8	Removal of electrical duct bank for future Aeration Basin No. 3	Reissue Sheet E-088	\$155,150.00
9	Update door specification	Reissue Specification 08710 – Door Hardware.	No change
Amendment No. 2 and Change Order No. 2 Total Cost Reduction			\$8,229,886.75

## II. JUSTIFICATION

These changes result from value engineering efforts made between the City staff, CP&Y, and Crossland Heavy Contractors, Inc. The Project was approved by the Trust on July 5, 2022, with a total bid amount of \$213,851,000.00. CP&Y and Crossland generally agreed upon the value engineering items prior to Trust approval and this amendment/change order formalizes the contract modifications related to the items listed in the Scope above. Amendment 1 for a decrease of \$834,110.00 and Change Order 1 for a decrease of \$13,665,409.00 were approved by the Trust on August 16, 2022. The total bid revised total contract amount is \$199,351,481.00.

## III. COST ESTIMATE

The cost reduction for each Bid Item and the adjusted overall cost decrease are shown in the Change Order No. 2 table below. The revised values were developed by Crossland Heavy Contractors, Inc. and CP&Y concurs with the revisions. Quantities were revised for item 01-43 24 Inch Drilled Piers. The 24 Inch Drilled Pier quantity was changed from 11,000 LF to 10,300 LF. The updated quantities are shown in Amendment No. 2 Table. The reductions in pier quantities are associated with Item 2 in the table above.

**AMENDMENT NO. 2****DECREASE**

Bid Item	Description	Unit	Unit Price	Plan Qty	Revised Qty	Qty Decreased	Revised Price	Cost Decrease
01-43	24 Inch Drilled Pier	VF	\$165.00	11,000	10,300	700	\$1,699,500.00	\$(115,500.00)

\*Current Quantity includes previous amendments

**Total Decrease: \$(115,500.00)****Total Amendment No. 2: \$(115,500.00)****CHANGE ORDER NO. 2****ADDITIONS**

Bid Item	Description	Unit	Unit Price	Total Price	Revised Price	Cost Increase
01-07	Foundation Improvements For Aeration Basin	LS	\$5,000,000.00	\$5,000,000.00	\$5,370,370.00	\$370,370.00
01-38	Site Civil	LS	\$15,776,516.00	\$15,776,516.00	15,792,006.00	\$15,490.00

**Total Increase: \$385,860.00****SUBTRACTIONS**

Bid Item	Description	Unit	Unit Price	Total Price	Revised Price	Cost Decrease
01-06	Aeration Basin Tanks	LS	\$19,000,000.00	\$19,000,000.00	\$16,891,763.00	\$(2,108,237.00)
01-08	Aeration Basin Equipment and Piping	LS	\$9,000,000.00	\$9,000,000.00	\$8,677,832.00	\$(322,168.00)
01-09	Final Clarifier Tanks	LS	\$9,500,000.00	\$9,500,000.00	\$6,745,000.00	\$(2,755,000.00)
01-10	Final Clarifier Equipment and Piping	LS	\$6,250,000.00	\$6,250,000.00	\$4,632,027.00	\$(1,617,973.00)
01-16	Filters	LS	\$8,250,000.00	\$8,250,000.00	\$7,830,045.00	\$(419,955.00)
01-19	Disinfection and Brine Storage Equipment (Price Proposal Cost is \$4274000)	LS	\$5,131,600.00	\$5,131,600.00	\$4,570,268.00	\$(561,332.00)
01-39	Paving	LS	\$3,000,000.00	\$3,000,000.00	\$2,439,568.25	\$(560,431.75)
01-32	MV Loop and MV Transformers	LS	\$9,850,000.00	\$9,850,000.00	\$9,694,850.00	\$(155,150.00)

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Total Decrease: \$(8,500,246.75)

Total Change Order No. 2: \$(8,114,386.75)

Total Amendment No. 2 and Change Order No. 2: \$(8,229,886.75)

#### IV. COST SUMMARY

Original Contract Amount	\$213,851,000.00	
Amendment 1	\$834,110.00	(a decrease of 0.39%)
Change Order 1	\$13,665,409.00	(a decrease of 6.39%)
Amendment 2	\$115,500.00	(a decrease of 0.05%)
Change Order 2	\$8,114,386.75	(a decrease of 3.79%)
Revised Contract Amount	\$191,121,594.25	(a decrease of 10.63%)

Amendment No. 2 is a decrease of \$115,500.00 or 0.05 percent below the original contract amount. Change Order No. 2 is a decrease of \$8,114,386.75 or 3.79 percent below the original contract amount. Amendment No. 2 and Change Order No. 2 result in an overall decrease of \$8,229,886.75. Total Amendments and Change Orders to date result in an overall decrease of \$22,729,405.75 or 10.63 percent below the original contract value. The revised contract amount is \$191,121,594.25.

All construction shall be done in accordance with all applicable state and local codes and the provisions of the original Contract Documents.

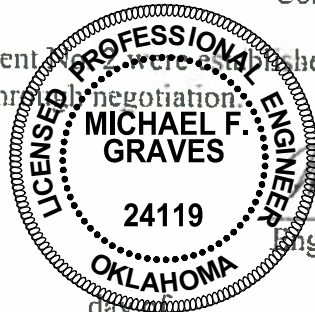
The above and foregoing is hereby accepted this 20th day of October, 2022; and the undersigned agrees to perform the work at the price indicated.

ATTEST:

[Signature]  
Witness

[Signature]  
Contractor

The prices shown for Amendment No. 2 were established by competitive bidding. Change Order No. 2 prices were established through negotiation.



[Signature]  
Engineer

Approval is recommended this \_\_\_\_\_ day of \_\_\_\_\_, 2022.

[Signature]  
Crystal L. Kowalik, P.E., Interim Engineering Manager

[Signature]  
Chris Browning, General Manager

[Signature]  
Eric J. Wenger, P.E., City Engineer

APPROVED by the Trustees and signed by the Chairman of the Oklahoma City Water Utilities Trust this 22nd day of November, 2022.

ATTEST:

[Signature]  
Secretary



[Signature]  
Chairman

CONCURRED by the Council and signed by the Mayor of The City of Oklahoma City this 6th day of December, 2022.

ATTEST:

[Signature]  
City Clerk



[Signature]  
Mayor

Reviewed for form and legality.

[Signature]  
Assistant Municipal Counselor