

Anjuman A. Islam, Ph.D.
Water Utility Director

Nathaniel Tillis
Wastewater Utility Director



Kenneth M. Scolaro
Administrative Manager

Chad W. Regalia, P.E.
Chief Engineer

November 20, 2024

Board of Waterworks Commissioners:

Mayor Cory Mason
Alder Mollie Jones
Alder Terry McCarthy
Jens Jorgenson
Jim Sullivan
John Tate II
Natalia Taft
Stacy Sheppard

SUBJECT: Change Order No. 2 – Contract W-21-2 – 42" Water Main Replacement – Phase 2

Dear Commissioners:

Submitted for your review and approval is Change Order No. 2 – Contract W-21-2 – 42" Water Main Replacement – Phase 2, Super Excavators (Contractor), in the amount of **\$67,359.69**. This change order is to account for unexpected costs that arose related to sanitary lateral needing to be re-laid over the water main. The work associated with the additional costs include:

- Removal of an abandoned gas valve
- Removal of previously placed cold patch asphalt and replaced with concrete
- Removal of concrete pavement that failed and needed replacement
- Off-setting an existing water main to install the new main as well as the installation of a water main extension and hydrant.

The original contract amount is \$4,904,988.00. A previous change order of \$34,300.00 had increased the amount to \$5,247,988.00. The current change order amount of \$67,359.69 would increase the total contract amount to \$5,315,347.69, which is an increase of 1.28%. ***So far, the two change orders reflect an overall increase of 8.37% on the original contract price.***

Sincerely,

Anjuman, Islam, Ph.D.
Water Utility Director

AI/jb

Date of Issuance: September 4, 2024 Effective Date: Upon Approval of Owner

Contract: 42-Inch Transmission Water Main Phase 2 Owner: Racine Water and Wastewater Utilities

Graceland Blvd to Osborne Blvd Owner's Contract No.: W-21-2

Contractor: Super Excavators, Inc. Engineer: Ruekert & Mielke, Inc.

Address: N59 W14601 Bobolink Ave Engineer's Project No.: 8022-10031.302

Menomonee Falls, WI 53051 Effective Date of Contract: February 23, 2022

The Contract is modified as follows upon execution of this Change Order:

Description:

See attached summary table.

Reason for Change Order:

See attached summary table.

Attachments:

Change Order No. 2 summary table, Analysis of Closeout Change Order, Work Change Directive No. 1, Super Excavators Additional Work Request dated 7/19/2022 (CO-2-1), Super Excavators Additional Work Request dated 11/21/2022 (CO-2-2), Email correspondence with Super Excavators 11/14/2022 (CO-2-3A, 3B, 3C), Super Excavators Additional Work Request dated 7/19/2022, Super Excavators Additional Work Request dated 5/15/2024 (CO-2-3D), Super Excavators Additional Work Request dated 5/5/2023 (CO-2-4), and Super Excavators Additional Work Request dated 5/18/2023 (CO-2-5).

CHANGE IN CONTRACT PRICE	CHANGE IN CONTRACT TIMES
Original Contract Price \$ 4,904,988.00	Original Contract Times: Substantial Completion: <u>November 15, 2022</u> Ready for Final Payment: <u>December 15, 2022</u>
Change from previously approved Change Order \$ 343,000.00	Change from previously approved Change Order Substantial Completion: _____ Ready for Final Payment: _____
Contract Price prior to this Change Order: \$ 5,247,988.00	Contract Times prior to this Change Order: Substantial Completion: _____ Ready for Final Payment: _____
Increase of this Change Order: \$ 67,359.69	Increase of this Change Order: Substantial Completion: <u>July 21, 2023</u> Ready for Final Payment: <u>May 29, 2024</u>
Contract Price incorporating this Change Order: \$ 5,315,347.69	Contract Times with all approved Change Orders: Substantial Completion: <u>July 21, 2023</u> Ready for Final Payment: <u>July 21, 2023</u>

RECOMMENDED:

ACCEPTED:

ACCEPTED:

Digitally signed by
Brennen E. Fischer
Date: 2024.10.08
08:50:23-05'00'

By: Brennen E. Fischer
Engineer (Authorized Signature)

By: _____
Owner (Authorized Signature)

By: J. Benson
Contractor (Authorized Signature)

Brennen E. Fischer, P.E.
Ruekert & Mielke, Inc.

Racine Water Utility

Super Excavators, Inc.

Date: September 4, 2024

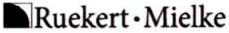
Date: _____

Date: 9/16/24

42-inch Transmission Water Main Phase 2
Change Order No. 2 Summary Table

Item Number	Description	Reason for Change Order	Cost
CO-2-1	Relay Sanitary Lateral at Goodland School	During installation of the 42-inch water main on Graceland Boulevard, it was discovered that the Goodland School sanitary lateral was in conflict with the line of grade of the pipe. The sanitary lateral was related to extend over the new 42-inch water main.	\$2,308.27
CO-2-2	Remove Abandoned Gas Vault	During installation of the 42-inch water main on Haven Avenue, it was discovered that an abandoned gas valve vault was in conflict with the line of grade of the pipe. The abandoned gas valve vault was removed in order to install the new 42-inch water main.	\$2,252.86
CO-2-3A	RWU Water Service - Remove Cold Patch and Subcut	Due to pipe and pavement restoration supply chain and material availability issues as described in Work Change Directive No. 1, the Contractor was not able to complete the 42-inch water main installation and pavement restoration prior to the City of Racine's Winter Work Moratorium. Prior to the Winter Work Moratorium, RWU requested that the Contractor remove the previously placed cold patch asphalt in the areas that RWU replaced water services and install 10.5" concrete. Additionally, on Haven Avenue from Lathrop Avenue to W. Lawn Avenue was replaced with 10.5" concrete to match the existing asphalt elevation. In the Spring of 2024, the additional 1.5" of concrete was removed in order to install the 1.5" asphalt surface course.	\$1,394.33
CO-2-3B	RWU Water Service - 10.5-inch Concrete		\$26,213.31
CO-2-3C	Additional Cost for 10.5-inch Concrete Base in lieu of Type "A" concrete base		\$17,623.84
CO-2-3D	Subcut and Proof Roll Kentucky and Graceland	The 42-inch water main was installed and the pavement was replaced on the west side of Kentucky Street from Graceland Boulevard to Haven Avenue and on the south side of Haven Avenue from Kentucky Street to Lathrop Avenue. The existing concrete pavement on the east side of Kentucky Street and the north side of Haven Avenue failed and needed to be replaced. The existing pavement in this area did not have a stone base. As requested by the City of Racine, 6-inches of the existing clay was removed below the pavement elevation and replaced with 6-inches of crushed aggregate base course.	\$25,502.65
CO-2-4	8-inch water main offset at Haven and Arthur	During installation of the 42-inch water main at the intersection of Haven Avenue and Arthur Avenue, it was discovered that an existing 8-inch water main was in conflict with the line of grade of the pipe. The existing 8-inch water main was offset in order to install the new 42-inch water main.	\$10,362.16
CO-2-5	6-inch Water Main Connection at Osborne	As requested by RWU, the Contractor installed a 6-inch water main extension and hydrant to the end of the new 42-inch water main to connect to the existing 6-inch water main at Osborne Boulevard.	\$39,513.74
Subtotal of Additional Items			\$125,171.16

ORIGINAL CONTRACT AMOUNT	\$ 4,904,988.00
EXECUTED CHANGE ORDER(S)	\$ 343,000.00
CONTRACT PRICE PRIOR TO THIS CLOSEOUT CHANGE ORDER	\$5,247,988.00
AMOUNT EARNED ON ORIGINAL CONTRACT ITEMS	\$ 4,857,976.53
AMOUNT EARNED ON CHANGE ORDER NO. 1 ITEMS	\$ 332,200.00
AMOUNT EARNED ON CHANGE ORDER NO. 2 ITEMS	\$ 125,171.16
TOTAL AMOUNT EARNED	\$ 5,315,347.69
TOTAL AMOUNT EARNED	\$ 5,315,347.69
LESS CONTRACT PRICE PRIOR TO THIS CLOSEOUT CHANGE ORDER	\$ (5,247,988.00)
CLOSEOUT CHANGE ORDER AMOUNT	\$ 67,359.69



W233 N2080 Ridgeview Parkway
Waukesha, WI 53188-1020

ANALYSIS OF CLOSEOUT CHANGE ORDER

OWNER: Racine Water and Wastewater Utility
PROJECT: REBID 42-inch Transmission Water Main Phase 2 Graceland Boulevard to Osborne Boulevard
DATE PREPARED: 9/4/2024

ITEM NO.	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT \$	ORIGINAL CONTRACT AMOUNT	ACTUAL QUANTITY INSTALLED	FINAL CONTRACT AMOUNT	FINAL DIFFERENCE
1	Mobilization	L.S.	1.00	\$ 191,000.00	\$ 191,000.00	1.00	\$ 191,000.00	\$ -
2	Traffic Control	L.S.	1.00	\$ 75,000.00	\$ 75,000.00	1.00	\$ 75,000.00	\$ -
3	Silt Fence	L.F.	60.00	\$ 3.50	\$ 210.00	0.00	\$ -	\$ (210.00)
4	Inlet Sediment Guard, Type D	EA.	39.00	\$ 140.00	\$ 5,460.00	28.00	\$ 3,920.00	\$ (1,540.00)
5	Tree Removal	I.D.	20.00	\$ 100.00	\$ 2,000.00	0.00	\$ -	\$ (2,000.00)
6	Tree Trimming	L.S.	1.00	\$ 3,000.00	\$ 3,000.00	1.00	\$ 3,000.00	\$ -
7	Topsoil, Seed, Fertilizer, Mulch and Type B Soil Stabilizer	S.Y.	200.00	\$ 12.00	\$ 2,400.00	348.00	\$ 4,176.00	\$ 1,776.00
8	Dust Control using Calcium Chloride	100 lbs.	100.00	\$ 50.00	\$ 5,000.00	0.00	\$ -	\$ (5,000.00)
9	Dust Control using Water	1000 gal	100.00	\$ 50.00	\$ 5,000.00	26.35	\$ 1,317.50	\$ (3,682.50)
10	42-inch Water Main w/ Slurry Backfill	L.F.	2,430.00	\$ 575.00	\$ 1,397,250.00	2,436.50	\$ 1,400,987.50	\$ 3,737.50
11	42-inch Water Main w/ Granular Backfill	L.F.	2,980.00	\$ 552.00	\$ 1,644,960.00	2,991.00	\$ 1,651,032.00	\$ 6,072.00
12	42-inch Butterfly Valve	EA.	4.00	\$ 68,000.00	\$ 272,000.00	4.00	\$ 272,000.00	\$ -
13	Hydrant Assembly with 42"x6" Tapping Sleeve and 6-inch Tapping Valve	EA.	5.00	\$ 13,000.00	\$ 65,000.00	7.00	\$ 91,000.00	\$ 26,000.00
14	12-inch Water Main Relay or Offset w/Granular Backfill	EA.	2.00	\$ 11,000.00	\$ 22,000.00	2.00	\$ 22,000.00	\$ -
15	6-inch Water Main Relay or Offset w/ Granular Backfill	L.F.	40.00	\$ 310.00	\$ 12,400.00	15.00	\$ 4,650.00	\$ (7,750.00)
16	6-inch Water Main / Hydrant Lead with Slurry Backfill	L.F.	25.00	\$ 370.00	\$ 9,250.00	37.00	\$ 13,690.00	\$ 4,440.00
17	6-inch Water Main / Hydrant Lead with Granular Backfill	L.F.	45.00	\$ 175.00	\$ 7,875.00	48.50	\$ 8,487.50	\$ 612.50
18	Detector Wire and Locator Box for Water Main	EA.	10.00	\$ 400.00	\$ 4,000.00	1.00	\$ 400.00	\$ (3,600.00)
19	32 lb. Magnesium Anode	EA.	75.00	\$ 50.00	\$ 3,750.00	6.00	\$ 300.00	\$ (3,450.00)
20	15 lb. Magnesium Anode	EA.	31.00	\$ 25.00	\$ 775.00	6.00	\$ 150.00	\$ (625.00)
21	Remove and Replace Catch Basin	EA.	5.00	\$ 2,900.00	\$ 14,500.00	5.00	\$ 14,500.00	\$ -
22	Remove and Replace 12-inch RCP CL V Storm Sewer w/ Slurry Backfill	L.F.	130.00	\$ 150.00	\$ 19,500.00	159.10	\$ 23,865.00	\$ 4,365.00
23	Remove and Replace 12-inch RCP CL V Storm Sewer w/Granular Backfill	L.F.	145.00	\$ 126.00	\$ 18,270.00	84.00	\$ 10,584.00	\$ (7,686.00)
24	Remove and Replace 21-inch RCP CL III Storm Sewer w/ Slurry Backfill	L.F.	14.00	\$ 170.00	\$ 2,380.00	18.30	\$ 3,111.00	\$ 731.00
25	Remove and Replace 27-inch RCP CL III Storm Sewer w/ Slurry Backfill	L.F.	19.00	\$ 187.00	\$ 3,553.00	0.00	\$ -	\$ (3,553.00)
26	Full Depth Sawcutting	L.F.	11,600.00	\$ 2.25	\$ 26,100.00	11,418.00	\$ 25,690.50	\$ (409.50)
27	Crushed Aggregate Base Course	TON	950.00	\$ 40.00	\$ 38,000.00	1,835.85	\$ 73,434.00	\$ 35,434.00
28	Pavement Replacement Type "A" (concrete with asphalt overlay)	S.Y.	3,600.00	\$ 75.00	\$ 270,000.00	4,722.00	\$ 354,150.00	\$ 84,150.00
29	Pavement Replacement Type "B" (concrete pavement)	S.Y.	5,200.00	\$ 65.00	\$ 338,000.00	5,232.40	\$ 340,106.00	\$ 2,106.00
30	Pavement Replacement Type "C" (asphalt overlay)	S.Y.	2,400.00	\$ 21.00	\$ 50,400.00	2,176.00	\$ 45,696.00	\$ (4,704.00)
31	2-inch Asphalt Pavement Mill Over Curb Pan	S.Y.	700.00	\$ 2.50	\$ 1,750.00	758.50	\$ 1,896.25	\$ 146.25
32	2-inch Asphalt Pavement Mill (Graceland and Haven)	S.Y.	15,700.00	\$ 1.60	\$ 25,120.00	4,322.00	\$ 6,915.20	\$ (18,204.80)
33	2-inch Asphalt Concrete Surface Course (Graceland and Haven)	TON	1,800.00	\$ 84.00	\$ 151,200.00	488.00	\$ 40,992.00	\$ (110,208.00)
34	3-inch Temporary Asphalt Trench Patch	S.Y.	320.00	\$ 33.00	\$ 10,560.00	293.50	\$ 9,685.50	\$ (874.50)
35	30-inch Concrete Curb and Gutter Replacement	L.F.	540.00	\$ 43.00	\$ 23,220.00	636.70	\$ 27,378.10	\$ 4,158.10
36	4-inch Concrete Sidewalk/ADA Ramp Replacement	S.F.	1,050.00	\$ 8.00	\$ 8,400.00	956.00	\$ 7,648.00	\$ (752.00)
37	Detectable Warning Field	S.F.	10.00	\$ 40.00	\$ 400.00	10.00	\$ 400.00	\$ -
38	Concrete Driveway Replacement	S.F.	200.00	\$ 9.00	\$ 1,800.00	239.00	\$ 2,151.00	\$ 351.00
39	Asphalt Driveway Replacement	S.F.	200.00	\$ 7.00	\$ 1,400.00	0.00	\$ -	\$ (1,400.00)
40	Pavement Marking, Epoxy, 6-inch Solid White	L.F.	450.00	\$ 2.50	\$ 1,125.00	118.00	\$ 295.00	\$ (830.00)
41	Pavement Marking, Epoxy, 4-inch Solid Yellow	L.F.	3,360.00	\$ 1.34	\$ 4,502.40	212.00	\$ 284.08	\$ (4,218.32)
42	Pavement Marking, Epoxy, 4-inch Solid White	L.F.	6,640.00	\$ 1.34	\$ 8,897.60	3,245.00	\$ 4,348.30	\$ (4,549.30)
43	Pavement Marking, Epoxy, Symbols & Arrows	EA.	32.00	\$ 105.00	\$ 3,360.00	16.00	\$ 1,680.00	\$ (1,680.00)
44	Water Main Offset Cash Allowance	L.S.	1.00	\$ 100,000.00	\$ 100,000.00	1.00	\$ 100,000.00	\$ -
45	Water Service Offset 3/4-inch to 2-inch	EA.	4.00	\$ 3,400.00	\$ 13,600.00	0.00	\$ -	\$ (13,600.00)
46	Locate & Protect Sanitary Lateral	EA.	4.00	\$ 280.00	\$ 1,120.00	0.00	\$ -	\$ (1,120.00)
47	4-inch Thick Insulation	L.F.	100.00	\$ 35.00	\$ 3,500.00	140.00	\$ 4,900.00	\$ 1,400.00
48	Trench bridging (If ordered by engineer)	L.F.	150.00	\$ 100.00	\$ 15,000.00	0.00	\$ -	\$ (15,000.00)
49	Precast Concrete Barrier, (If ordered by engineer)	L.F.	150.00	\$ 50.00	\$ 7,500.00	56.00	\$ 2,800.00	\$ (4,700.00)
TOTAL BID ITEMS 1-49					\$ 4,891,488.00		\$ 4,845,620.43	\$ (45,867.57)
TOTAL OF ALL ESTIMATED MANDATORY ALTERNATE B PRICES (MA-B1)								
MA-B1	Telesive Sanitary Sewer Mains (8 to 15-inch)	L.F.	1,500.00	\$ 9.00	\$ 13,500.00	1,372.90	\$ 12,356.10	\$ (1,143.90)
TOTAL OF ALL ESTIMATED MANDATORY ALTERNATE B PRICES (MA-B1)					\$ 13,500.00		\$ 12,356.10	\$ (1,143.90)
SUBTOTAL OF ORIGINAL CONTRACT ITEMS					\$ 4,904,988.00		\$ 4,857,976.53	\$ (47,011.47)
ADDITIONAL ITEMS								
CO-1-1	16-inch Water Main w/ Granular Backfill	L.F.	40.00	\$ 450.00		16.00	\$ 7,200.00	\$ 7,200.00
CO-1-2	16-inch Butterfly Valve	EA.	1.00	\$ 7,500.00		1.00	\$ 7,500.00	\$ 7,500.00
CO-1-3	Connect to Existing 16-inch Water Main	EA.	1.00	\$ 24,500.00		1.00	\$ 24,500.00	\$ 24,500.00
CO-1-4	42-inch Ductile Iron Water Main w/ Granular Backfill	L.F.	200.00	\$ 1,300.00		200.00	\$ 260,000.00	\$ 260,000.00
CO-1-5	Cap or Plugs for End of 42-inch Ductile Iron Water Main Pipe	EA.	2.00	\$ 16,500.00		2.00	\$ 33,000.00	\$ 33,000.00
CO-2-1	Relay Sanitary Lateral at Goodland School	L.S.	1.00	\$ 2,308.27		1.00	\$ 2,308.27	\$ 2,308.27
CO-2-2	Remove Abandoned Gas Vault	L.S.	1.00	\$ 2,252.86		1.00	\$ 2,252.86	\$ 2,252.86
CO-2-3A	RWU Water Service - Remove Cold Patch and Subcut	S.Y.	371.82	\$ 3.75		371.82	\$ 1,394.33	\$ 1,394.33
CO-2-3B	RWU Water Service - 10.5-inch Concrete	S.Y.	371.82	\$ 70.50		371.82	\$ 26,213.31	\$ 26,213.31
CO-2-3C	Additional Cost for 10.5-inch Concrete Base in lieu of Type "A" concrete base	S.Y.	1,101.49	\$ 16.00		1,101.49	\$ 17,623.84	\$ 17,623.84
CO-2-3D	Subcut and Proof Roll Kentucky and Graceland	L.S.	1.00	\$ 25,502.65		1.00	\$ 25,502.65	\$ 25,502.65
CO-2-4	8-inch water main offset at Haven and Arthur	L.S.	1.00	\$ 10,362.16		1.00	\$ 10,362.16	\$ 10,362.16
CO-2-5	6-inch Water Main Connection at Osborne	L.S.	1.00	\$ 39,513.74		1.00	\$ 39,513.74	\$ 39,513.74
SUBTOTAL OF ADDITIONAL ITEMS					\$ -		\$ 457,371.16	\$ 457,371.16
GRAND TOTALS:					\$ 4,904,988.00		\$ 5,315,347.69	\$ 410,359.69

ORIGINAL CONTRACT AMOUNT	\$ 4,904,988.00
EXECUTED CHANGE ORDER(S)	\$ 343,000.00
CONTRACT PRICE PRIOR TO THIS CLOSEOUT CHANGE ORDER	\$5,247,988.00
AMOUNT EARNED ON ORIGINAL CONTRACT ITEMS	\$ 4,857,976.53
AMOUNT EARNED ON OTHER ITEMS	\$ 457,371.16
TOTAL AMOUNT EARNED	\$5,315,347.69
TOTAL AMOUNT EARNED	\$5,315,347.69
LESS CONTRACT PRICE PRIOR TO THIS CLOSEOUT CHANGE ORDER	(\$5,247,988.00)
CLOSEOUT CHANGE ORDER AMOUNT	\$67,359.69