

MAYOR JIM GRAY




LEXINGTON

CHARLES MARTIN
DIRECTOR
WATER QUALITY

Memorandum

To: Urban County Council
Martha Allen, Council Clerk

From: Elizabeth Sebren 
Acting Administrative Specialist Principle for Remedial Measures Program

Date: January 4, 2017

Re: Change Order No. 4 (Final Adjusting Change Order) for the West Hickman Main Trunk A RMP Project

This memorandum is to notify the Urban County Council of Change Order No. 4 (FACO) for the West Hickman Main Trunk A Remedial Measures Project. Per CAO Policy No. 15R, Tier 1 allows the Remedial Measures Program Manager to approve Change Orders of less than 5% of the cumulative contract award. Change Order No. 4 decreases the contract amount by \$115,980.00, bringing the cumulative change of all four Change Orders to \$96,803.99 or approximately 2.6%, and increases the contract time by 102 calendar days.

Should you have any questions, please contact me at 425-2087.

cc: Vernon Azevedo, P.E., Remedial Measures Program Manager
Dowell Hoskins-Squier, Commissioner of Environmental Quality
Charles Martin, P.E., Director of Water Quality
Todd Slatin, Director of Purchasing
Stacey Maynard, Council Administrator
Mark Fischer, P.E., Project Manager
File



SANITARY SEWERS REMEDIAL MEASURES PLAN CONTRACT CHANGE ORDER FORM

Project Name: West Hickman Trunk Sewer A
Contractor: Garney Companies, Inc.
Contract Number: 153-2014
RMP Project ID: WH-2
Change Order ID Number: 4 (Final Adjusting Change Order)
Applicable Tier: 1

CHANGE ORDER DETAILS

Contract Amount	<u>\$4,010,001.99</u>	Contract Time	<u>683 c days</u>
Original Contract Amount:	<u>\$3,797,218.00</u>	Original Contract Time	<u>270 c days</u>
Change in Contract Amount	<u>\$ -115,980.00</u>	Change in Contract Time	<u>102 c days</u>
New Contract Amount:	<u>\$3,894,021.99</u>	New Contract Time	<u>785 c days</u>

JUSTIFICATION FOR CHANGE ORDER

See attached.

REQUIRED SIGNATURES

Tier 1
Yunni Azvedo
Remedial Measures Plan or Construction Manager
Date 12-20-16

Tier 2

Remedial Measures Plan or Construction Manager
Date _____

Director of the Division of Water Quality
Date _____

Director of the Division of Purchasing
Date _____

URBAN COUNTY COUNCIL NOTIFICATION

[Signature]
Employee Submitting Notification
Date 12-20-16



January 3, 2017

Mark W. Fischer, PE
Division of Water Quality
Lexington-Fayette Urban County Government
125 Lisle Industrial Ave., Suite 180
Lexington, KY 40511

RE: West Hickman Trunk Sewer – A – Final Adjusting Change Order

Dear Mr. Fischer,

We recommend approval and execution of the final adjusting change order dated December 2nd, 2016. The change order is a total decrease for the contract in the amount of \$115,980.00 and an increase of time of 102 calendar days. This final adjusting change order adjusts the bid quantities to reflect the actual work completed.

Please refer to attached supporting documents for the final adjusting change order dated December 2nd, 2016

If you should have any questions, please do not hesitate to call me.

Sincerely,
ICA Engineering, Inc.

A handwritten signature in black ink that reads "Michael A. Hansen". The signature is written in a cursive, flowing style.

Michael A. Hansen, P.E.
Project Manager

Strengthening America's Infrastructure[®]

4645 VILLAGE SQUARE DRIVE, SUITE F • PADUCAH, KY 42001 • 270.444.9691 • FAX 270.443.3943 • icaeng.com

FINAL ADJUSTING CHANGE ORDER

Attachment No. 1 to CO#4-(FACO)

West Hickman Trunk Sewer -A
RMP ID 103-2014

Item No.	Item Description	Unit	Bid Q'ty	Unit Price	Item Price	Instal'd Q'ty	Installed Item Price	+/- from Bid
	BASE BID							
1.	Mobilization	LS	1	\$75,000.00	\$75,000.00	1	\$75,000.00	\$0.00
2.	Bonds and Insurance	LS	1	\$17,500.00	\$17,500.00	1	\$17,500.00	\$0.00
3.	General Requirements	LS	1	\$30,000.00	\$30,000.00	1	\$30,000.00	\$0.00
4.	Demobilization	LS	1	\$6,000.00	\$6,000.00	1	\$6,000.00	\$0.00
5.	Erosion and Sediment Control and SWPPP Conformance	LS	1	\$60,000.00	\$60,000.00	1	\$60,000.00	\$0.00
6.	8-inch Gravity Sewer Pipe, PVC (SDR 35)	LF	60	\$150.00	\$9,000.00	60	\$14,700.00	\$5,700.00
7.	18-inch Gravity Sewer Pipe (DIP, FRP, RCP, PVC), 6.1 - 10 feet depth	LF	870	\$175.00	\$152,250.00	870	\$146,300.00	-\$5,950.00
8.	48-inch Gravity Sewer Pipe (DIP, FRP, RCP, PVC), 10.1 - 14 feet depth	LF	2060	\$420.00	\$865,200.00	2060	\$865,200.00	\$0.00
9.	48-inch Gravity Sewer Pipe (DIP, FRP, RCP, PVC), greater than 14 feet depth	LF	750	\$420.00	\$315,000.00	750	\$301,560.00	-\$13,440.00
10.	54-inch Gravity Sewer Pipe (DIP, FRP, RCP, PVC), 6.1 - 10 feet depth	LF	50	\$500.00	\$25,000.00	50	\$25,000.00	\$0.00
11.	54-inch Gravity Sewer Pipe (DIP, FRP, RCP, PVC), 10.1 - 14 feet depth	LF	630	\$500.00	\$315,000.00	630	\$305,000.00	-\$10,000.00
12.	54-inch Gravity Sewer Pipe (DIP, FRP, RCP, PVC), greater than 14 feet depth	LF	500	\$500.00	\$250,000.00	500	\$192,500.00	-\$57,500.00
13.	60-inch Gravity Sewer Pipe (DIP, PCCP, RCP) 10.1 - 14 feet depth	LF	50	\$600.00	\$30,000.00	50	\$21,000.00	-\$9,000.00
14.	96-inch Steel Encasement w/60-inch Sewer (open cut), 10.1 - 14 feet depth	EA	175	\$1,300.00	\$227,500.00	175	\$227,500.00	\$0.00
15.	96-inch Steel Encasement (open cut), 10.1 - 14 feet depth	EA	200	\$750.00	\$150,000.00	200	\$120,000.00	-\$30,000.00
16.	Abandon Existing Manhole Partially Demolish and Fill Manhole	EA	4	\$1,500.00	\$6,000.00	4	\$1,500.00	\$4,500.00
17.	Standard Manhole, 4-foot diameter (depth 5.1 to 6.0 feet)	EA	2	\$6,000.00	\$12,000.00	2	\$12,000.00	\$0.00
18.	Manhole Barrel Extensions, 4-foot diameter	VF	85	\$250.00	\$21,250.00	85	\$21,250.00	\$0.00
19.	Manhole Diaphragm, Manhole Anti-Flotation Collar & WT Cover	EA	13	\$1,500.00	\$19,500.00	13	\$22,500.00	\$3,000.00
20.	48-inch Tee-Base and 48-inch Riser (depth to 6.0 feet)	EA	4	\$8,000.00	\$32,000.00	4	\$32,000.00	\$0.00
21.	48-inch Tee-Base and 48-inch Riser w/Bend (depth to 6.0 feet)	EA	3	\$12,000.00	\$36,000.00	3	\$36,000.00	\$0.00
22.	54-inch Tee-Base and 48-inch Riser (depth to 6.0 feet)	EA	2	\$9,750.00	\$19,500.00	2	\$9,750.00	-\$9,750.00
23.	60-inch Tee-Base and 48-inch Riser (depth to 6.0 feet)	EA	1	\$15,000.00	\$15,000.00	1	\$15,000.00	\$0.00
24.	60-inch Tee-Base and 48-inch Riserw/Bend (depth to 6.0 feet)	EA	1	\$20,000.00	\$20,000.00	1	\$20,000.00	\$0.00
25.	12-foot diameter Manhole @ MH-2A	LS	1	\$75,000.00	\$75,000.00	1	\$75,000.00	\$0.00
26.	Intersection Structure @ WH1-6	LS	1	\$185,000.00	\$185,000.00	1	\$185,000.00	\$0.00
27.	Upstream Tie-In Structure	LS	1	\$105,000.00	\$105,000.00	1	\$105,000.00	\$0.00
28.	Core Drill Existing Manhole; Tie-In New 18-inch Sewer	EA	1	\$4,500.00	\$4,500.00	1	\$0.00	-\$4,500.00
29.	Connect New 18-inch Sewer to Existing Manhole	EA	1	\$10,000.00	\$10,000.00	1	\$0.00	-\$10,000.00
30.	Reconnect New Manhole to Existing 8-inch Sewer	EA	2	\$1,500.00	\$3,000.00	2	\$3,000.00	\$0.00
31.	Remove Existing Manhole @ WH1-934	EA	1	\$2,750.00	\$2,750.00	1	\$2,750.00	\$0.00

FINAL ADJUSTING CHANGE ORDER

Attachment No. 1 to CO#4-(FACO)

West Hickman Trunk Sewer -A
RMP ID 103-2014

Item No.	Item Description	Unit	Bid Q'ty	Unit Price	Item Price	Instal'd Q'ty	Installed Item Price	+/- from Bid
32.	Remove Existing Manhole @ WH1-936	EA	1	\$2,750.00	\$2,750.00	1	\$2,750.00	\$0.00
33.	Cut, Cap and Grout Existing 8-inch Sewer	EA	2	\$1,500.00	\$3,000.00	2	\$3,000.00	\$0.00
34.	Cut, Cap and Grout Existing 15-inch Sewer	EA	1	\$1,750.00	\$1,750.00	1	\$0.00	-\$1,750.00
35.	Cut, Cap and Grout Existing 48-inch Sewer	EA	1	\$3,500.00	\$3,500.00	1	\$7,000.00	\$3,500.00
36.	Creek Crossing and Bank/Bed Restoration @ Station 22+90	LS	1	\$60,000.00	\$60,000.00	1	\$60,000.00	\$0.00
37.	Creek Crossing and Bank/Bed Restoration @ Station 49+50	LS	1	\$30,000.00	\$30,000.00	1	\$30,000.00	\$0.00
38.	Asphalt Paving	LS	1	\$35,000.00	\$35,000.00	1	\$35,000.00	\$0.00
39.	Access Road From Ash Grove Road	LS	1	\$300,000.00	\$300,000.00	1	\$300,000.00	\$0.00
40.	Dense-Graded Aggregate (DGA), as directed by the Engineer	TN	55	\$15.00	\$825.00	55	\$0.00	-\$825.00
41.	Seeding, Temporary, extra, as directed by the Engineer	SY	1000	\$0.75	\$750.00	1000	\$0.00	-\$750.00
42.	Seeding, Permanent	LS	1	\$15,000.00	\$15,000.00	1	\$15,000.00	\$0.00
43.	No. 9 Crushed Stone, extra, as directed by the Engineer	TN	20	\$18.50	\$370.00	20	\$0.00	-\$370.00
44.	No. 57 Crushed Stone, extra, as directed by the Engineer	TN	15	\$17.00	\$255.00	15	\$0.00	-\$255.00
45.	No. 2 Crushed Stone, extra, as directed by the Engineer	TN	10	\$17.00	\$170.00	10	\$0.00	-\$170.00
46.	Flowable (Controlled Density) Fill	CY	20	\$100.00	\$2,000.00	20	\$0.00	-\$2,000.00
47.	Safety Fence	LF	1000	\$3.50	\$3,500.00	934	\$1,715.00	-\$1,785.00
48.	Bypass Pumping Set-Up, < 12-inch Sewer Line	EA	3	\$7,500.00	\$22,500.00	3	\$22,500.00	\$0.00
49.	Bypass Pumping Set-Up, ≥ 36-inch < 48-inch Sewer Line	EA	1	\$21,500.00	\$21,500.00	1	\$21,500.00	\$0.00
50.	Bypass Pumping Set-Up, ≥ 48-inch Sewer Line	EA	2	\$25,000.00	\$50,000.00	2	\$50,000.00	\$0.00
51.	Bypass Pumping, < 12-inch Sewer Line	HR	72	\$9.00	\$648.00	72	\$648.00	\$0.00
52.	Bypass Pumping, ≥ 36-inch < 48-inch Sewer Line	HR	336	\$65.00	\$21,840.00	336	\$4,940.00	-\$16,900.00
53.	Bypass Pumping, ≥ 48-inch Sewer Line	HR	840	\$65.00	\$54,600.00	840	\$17,615.00	-\$36,985.00
54.	Maintenance of Traffic	LS	1	\$1,000.00	\$1,000.00	1	\$1,000.00	\$0.00
B1-A	Rock Removal by Mechanical Methods	CY	12310	\$0.00	\$0.00	12310	\$0.00	\$0.00
B1-B	Rock Removal by Blasting Methods	CY	12310	\$1.00	\$12,310.00	12310	\$12,310.00	\$0.00
B2	Rock Removal for Marathon Oil Crossing	LS	1	\$60,000.00	\$60,000.00	1	\$60,000.00	\$0.00
TOTAL BASE BID					\$3,797,218.00		\$3,592,988.00	-\$204,230.00

FINAL ADJUSTING CHANGE ORDER

Attachment No. 1 to CO#4-(FACO)

West Hickman Trunk Sewer -A
RMP ID 103-2014

Item No.	Item Description	Unit	Bid Q'ty	Unit Price	Item Price	Instal'd Q'ty	Installed Item Price	+/- from Bid
CHANGE ORDER #1								
CO1-1	18-inch Sewer Main, Time and Materials	LS	1	\$12,565.64	\$12,565.64		\$12,565.64	
CO1-2	24-inch KAW Water Main, Time and Materials	LS	1	\$5,443.91	\$5,443.91		\$5,443.91	
	Item 15 Base Bid Quantity Decrease	LF	-40	\$750.00	-\$30,000.00			
CO1-3	Marathon Oil Line Crossing, Time and Materials	LS	1	\$154,408.09	\$154,408.09		\$154,408.09	
	Item 12 Base Bid Quantity Decrease	LF	-100	\$500.00	-\$50,000.00			
	Item 22 Base Bid Quantity Decrease	EA	-1	\$9,750.00	-\$9,750.00			
	Item 19 Base Bid Quantity Increase	EA	1	\$1,500.00	\$1,500.00		\$1,500.00	
CO1-4	Additional Survey for Access Road and Sewer Line A	LS	1	\$1,575.00	\$1,575.00		\$1,575.00	
CO1-4	Additional Clearing	LS	1	\$6,325.00	\$6,325.00		\$6,325.00	
CO1-5	Decrease in Diameter for MH-2A and MH-13A	LS	1	-\$2,558.32	-\$2,558.32			
CO1-6	Class II Rip-Rap Placement	TN	220	\$50.02	\$11,004.40		\$11,004.40	
CO1-8	Access Road Credit	LS	1	-\$27,167.68	-\$27,167.68			
TOTAL CHANGE ORDER #1							\$73,346.03	
CHANGE ORDER #3								
CO3-1	Stream Bed Cut-Off Walls	CY	171	\$205.00	\$35,055.00		\$35,055.00	
CO3-2	36-inch RCP Point Repair	LS	1	\$30,400.33	\$30,400.33		\$30,400.33	
CO3-3	Parking Lot Restoration	LS	1	\$10,843.00	\$10,843.00		\$10,843.00	
CO3-4	Asphalt Trail Restoration	LS	1	\$61,817.54	\$61,817.54		\$61,817.54	
CO3-5	Manhole Grade Adjustments	LS	1	\$2,205.90	\$2,205.90		\$2,205.90	
CO3-6	Elimination of Spoil Pile Hauling	LS	1	-\$8,544.71	-\$8,544.71			
CO3-7	Fall-Through Protection	LS	1	\$7,660.90	\$7,660.90		\$7,660.90	
TOTAL CHANGE ORDER #3							\$139,437.96	
BASE BID							\$3,797,218.00	
ADJUSTMENTS TO BASE BID FROM INSTALLED QUANTITIES (115,980 = 204,230 - 88,250)							-\$204,230.00 (includes -\$88,250.00 CO1 adj)	
CHANGE ORDER #1							\$161,596.03 (\$73,346.03 + \$88,250.00)	
CHANGE ORDER #3							\$139,437.96	
TOTAL WEST HICKMAN TRUNK SEWER - A, AS ADJUSTED							\$3,894,021.99	

Please note that CO#1 included, in its final, inclusive sum, adjustments to bid/original contract quantities. To properly show all adjustments, those adjustments (decreases to quantities) included in CO#1 had to be removed from the total of CO#1 and included in adjustments to the Base Bid/Contract quantities.

