



MEMORANDUM

October 6, 2010

TO: The Board of Mayor and Aldermen

FROM: Eric S. Stuckey, City Administrator
David Parker, P.E., City Engineer
Eric J. Gardner, P.E., Director of Engineering
Paul P. Holzen, P.E., Engineering Supervisor

SUBJECT: Carter Street Area Water and Sewer Upgrade

Purpose

The purpose of this memorandum is to present information to the Board of Mayor and Aldermen (BOMA) to consider the Final Change Order for the Carter Street Area Water and Sewer Upgrade Project.

Background

The Carter Street Area Water and Sewer Upgrade Project generally included the construction of 1,870'~6" water main, 580'~8" water main and 2,150'~8" gravity sewer. The existing water and sewer infrastructure in the Carter Street area did not effectively meet the needs of the Habitat for Humanity development and the existing development. BOMA awarded the construction contract on 1/26/2010 to L&C Contractors, Inc in the amount of \$434,185.90. At the time of Construction and Design approval, the estimated construction cost for the project was \$700,000.

At this time L&C Contractors, Inc. has substantially completed the project. The final completion of this project was delayed to coordinate our project with the Habitat for Humanity development allowing the streets to be built correctly. As part of this change order staff is requesting BOMA to adjust the contract completion date to September 30, 2010 and add an additional \$47,257.22 to cover quantity increases. The most substantial increase occurred on the asphalt paving portion of the project which was associated with roadway drainage problems and the construction of the Habitat for Humanity development.

Financial Impact

An INCREASE of \$47,257.22 to the construction contract with L&C Contractors. The final Construction contract amount will be \$481,443.12.

Total Original Contract Amount:	\$434,185.90
Amount of Previous Change Orders:	\$0.00
<u>Amount of this Change Order:</u>	<u>\$47,257.22</u>
Final Contract Amount:	\$481,443.12

Recommendation

Approval of the Final Change Order to the Carter Street Area Water and Sewer Upgrade Project is recommended.

CHANGE ORDER NO. 2 (Final Adjusting)

Owner: City of Franklin
Franklin, Tennessee

Project Name: Carter Street Area Water and Sewer Improvements
Contract No. STRE 2009-0086
GS&P Project No. 27080.00

Contractor: L & C Contractors, Inc.

Date: October 5, 2010

I. Description of Changes Involved

The following is the final adjustment of the contract price from the original contract amount of \$434,185.90 to the final contract amount of \$481,443.12 to reflect all over-runs and under-runs and any revisions to the Contract. This contract change order lists all items as follows:

Item	Description	Deduct/Add Quantity	Amount
1.	Water Lines		
	a. 8" DIP CL 350	Deduct 11 LF @ \$36.70 LF	-\$403.70
	b. 6" DIP CL 350	Add 21.4 LF @ \$34.15 LF	\$730.81
2.	Ductile Iron Fittings	Deduct 916 Lbs. @ \$6.00 Lbs.	-\$5,496.00
3.	Gate Valves		
	a. 8"	Add 3 EA @ \$1,387.00 EA	\$4,161.00
	b. 6"	Add 1 EA @ \$1,088.00 EA	\$1,088.00
4.	Fire Hydrant Assembly	Add 1 EA @ \$2,200.00 EA	\$2,200.00
5.	Reconnect/Relocate Water Service	Deduct 8 EA @ \$250.00 EA	-\$2,000.00
6.	Water Service Tap & Curb Stop	Add 6 EA @ \$571.00 EA	\$3,426.00
7.	Copper Service Line		
	a. 3/4"	Deduct 199 LF @ \$14.00 LF	-\$2,786.00
	b. 1"	Deduct 40 LF @ \$15.00 LF	-\$600.00
8.	Connect to Existing Water Line		
	a. 8"	No Change	\$0.00
	b. 6"	Add 1 EA @ \$1,100.00 EA	\$1,100.00
	c. 2"	Deduct 1 EA @ \$900.00 EA	-\$900.00
9.	12" x 8" Tapping Sleeve and Valve	No Change	\$0.00
10.	Cut & Cap / Plug Existing Line		
	a. 8"	Deduct 3 EA @ \$450.00 EA	-\$1,350.00
	b. 6"	Deduct 1 EA @ \$440.00 EA	-\$440.00
	c. 4"	Deduct 1 EA @ \$400.00 EA	-\$400.00

Item	Description	Deduct/Add Quantity	Amount
11.	Gravity Sewer Lines		
	a. 8" PVC SDR 35	Add 17.5 LF @ \$54.50 LF	\$953.75
	b. 6" PVC SDR 35 (Lateral)	Deduct 458 LF @ \$46.30 LF	-\$21,205.40
12.	4' Manhole with Frame and Cover	Add 1 EA @ \$1,937.00 EA	\$1,937.00
13.	Connect/Reconnect Sewer Service	Deduct 10 EA @ \$250.00 EA	-\$2,500.00
14.	Connect to Existing Manhole	Add 1 EA @ \$1,500.00 EA	\$1,500.00
15.	Final Video Inspection of New 8" Sewer Lines	Deduct 2,150 LF @ \$2.00 LF	-\$4,300.00
16.	Demo Existing Manhole	Add 2 EA @ \$400.00 EA	\$800.00
17.	Drop Manhole Assembly	No Change	\$0.00
18.	Concrete Replacement (2 places)	Add 4 LS @ \$300.00 LS	\$1,200.00
19.	Grout Existing Sewer Lines & Manhole	No Change	\$0.00
20.	Asphalt Paving and Trench Repair		
	a. E-Mix (TDOT Item #411-01.11)	Add 661 Ton @ \$126.00 Ton	\$83,286.00
	b. BM2 (TDOT Item #307-01.08)	Deduct 580 Ton @ \$0.01 Ton	-\$5.80
	c. Aggr. Base (TDOT Item #303-01)	Deduct 1,172 Ton @ \$0.01 Ton	-\$11.72
	d. Prime Coat (TDOT Item #402-01)	Deduct 4.6 Ton @ \$1.00 Ton	-\$4.60
	e. Tack Coat (TDOT Item #403-01)	Deduct 0.6 Ton @ \$100.00 Ton	-\$60.00
	f. Extruded Curb (TDOT Item #702-01)	Deduct 40 LF @ \$17.00 LF	-\$680.00
21.	Traffic Control	No Change	\$0.00
22.	Erosion and Sediment Control	No Change	\$0.00
23.	Project Contingency	Deduct 1 LS @ \$20,000.00 LS	-\$20,000.00
NEW ITEM			
24.	4" Insertion Type Gate Valve at Natchez St. and Carter St.	Add 1 LS @ \$8,017.88 LS	\$8,017.88

Change Order No. 2 (Final Adjusting) TOTAL = \$47,257.22

II. Supportive Information

This final adjustment is necessary due to over-runs and shortages in the original bid line items. The most substantial over-run occurred on the asphalt paving portion of the project which was associated with the construction of sidewalks and driveways by the Habitat for Humanity development. All paving work was overseen and approved by the City of

Franklin Streets Department. Also, an insertion valve was required to isolate an existing main which utilized project contingency funds. Additional time of 24 days past the adjusted contract completion date was used by the Contractor to complete the work.

III. Change Order Conditions

1. All work to be performed under this Change Order shall be carried out in compliance with the Contract Documents included in the preceding Description of Changes involved, and under the provisions of the Original Contract, including compliance with applicable specifications for the same type of work. Contract revisions associated with this change order include all overhead expenses.
2. This Change Order, unless otherwise provided herein, does not relieve the Contractor from strict compliance with the guarantee provisions of the Original Contract, particularly those pertaining to performance and operation of equipment.
3. Contractor expressly agrees that he will place under coverage of his Performance and Payment Bonds and Contractor's Insurance all work covered by this Change Order. Contractor will furnish to Owner evidence of increased coverage of his Performance and Payment Bonds for the accrued value of all Change Orders which exceeds the original Contract Price.
4. The costs established under this Change Order are acknowledged as including any and all costs associated with the work described herein and including any and all costs associated with any and all work performed or to be performed by the Contractor which may be affected in any manner by the work described herein.
5. The costs established under this Change Order are based on Contract Unit Prices. The Contractor shall be paid based on actual units performed.

IV. Adjustment to the Contract Amount

Total Original Contract Amount	\$434,185.90
Amount of Previous Change Orders	\$0.00
Total Contract Amount Including Previous Change Orders	\$434,185.90
Percent of Previous Change Orders to Original Amount	0%
Amount of this Change Order	\$47,257.22
Percent of this Change Order to Original Amount	10.9%
Contract Amount including this Change Order	\$481,443.12

V. Adjustment to the Contract Time

Original Contract Completion Date	July 8, 2010
Previous Extension of Time	60 Calendar Days
Current Contract Completion Date	September 6, 2010
Time Extension for this Change Order	24 Calendar Days
Adjusted Contract Completion Date	September 30, 2010

VI. Agreement

Submitted by:

L & C Contractors, Inc.
Contractor

By: 
Kenneth Lankford

Title: President

Date: 10-6-2010

Recommended by:

Gresham, Smith and Partners
Engineer

By: 
Jason Griffin

Title: Principal

Date: October 5, 2010

Approved by:

City of Franklin
Owner

By: _____

Title: _____

Date: _____