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**CITY ADMINISTRATOR**

**MEMORANDUM**

**To:** Mayor and City Council Members  
**From:** Gregg Mandsager, City Administrator  
**Date:** 2014-08-19  
**Re:** West Hill Sanitary and Storm Sewer Project

**INTRODUCTION:**

Presented for City Council's consideration is a request to approve Change Orders #1-7 for the West Hill Sewer Separation Project

**BACKGROUND:**

The West Hill Sanitary and Storm Sewer Separation Phase 2 contract was awarded for a base amount of \$3,686,599.27 plus a built-in change order. The amount of the change order was to be determined once the site for disposal of project material was determined. The contract had a place-holder amount for disposal of 200 cubic yards of material, but allowed for disposal of up to 40,000 cubic yards. The actual amount of material stands at 22,000 cubic yards. Related costs include, grading, changes in pipe material, clearing, grubbing and tree removal. Additional changes will be forth coming to address contract quantities.

**RECOMMENDATION/RATIONALE:**

It is staff's recommendation that change orders #1-7 in the amount of \$453,670.80 be approved.

**BACKUP INFORMATION:**

1. Project Manager Memorandum

**West Hill Sewer Separation Project**  
 Change Orders #1-7

Settlement of the cost of work to be made as follows:

ITEMS TO BE ADDED TO THE CONTRACT					
ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
CO 1	GRADING AND COMPACTION	22,000	CY	\$ 4.50	\$ 99,000.00
CO 2	8" SANITARY SEWER DIP 8'-14'	154	LF	\$ 183.00	\$ 28,182.00
DELETE	8" SAN SEWER COMPOSITE 8'-14'	154	LF	\$ 133.00	< \$ 20,482.00>
CO 3	10" SANITARY SEWER DIP 8'-14'	1310	LF	\$ 203.72	\$ 266,873.20
DELETE	10" SAN SEWER COMPOSITE 8'-14'	1310	LF	\$ 100.00	< \$ 131,000.00>
CO 4	10" SANITARY SEWER DIP 14'-20'	80	LF	\$ 253.72	\$ 20,297.60
DELETE	10" SAN SEWER COMPOSITE 8'-14'	80	LF	\$ 100.00	< \$ 8,000.00>
CO 5	54" STORM SEWER C-IV RCP 8'-14'	1317	LF	\$ 350.00	\$ 460,950.00
DELETE	54" STORM SEWER C-III RCP 8'-14'	1317	LF	\$ 200.00	< \$ 263,400.00>
CO 6	54" STORM SEWER RCP-C-IV 14'-20'	20	LF	\$ 393.00	\$ 7,860.00
DELETE	54" STORM SEWER RCP-C-III 14'-20'	20	LF	\$ 488.00	< \$ 9,760.00>
CO 7	SAFETY FENCE	700	LF	\$ 4.50	\$ 3,150.00
NET CHANGE TOTAL					\$ 453,670.80

City Engineer \_\_\_\_\_ Date \_\_\_\_\_

Public Works Director \_\_\_\_\_ Date \_\_\_\_\_

Contractor \_\_\_\_\_ Date \_\_\_\_\_

Receipt is acknowledged of this change and terms of settlement are hereby agreed to:



# City of Muscatine

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## West Hill Sewer Separation Project Change Order #1

**Project:** West Hill Sewer Separation Project **Account No.:** \_\_\_\_\_  
**Contractor:** Langman Construction, Inc. **Date Prepared:** August 18, 2014

### Descriptions and reasons for changes to be made:

#### Adds item to the Contract No. CO 1, FILL SITE: GRADING AND COMPACTION

- The Contract included a minimal amount of grading and compaction that was left over from Phase I, amounting to 200 CY due to uncertainty regarding easements. The projected actual quantity of 22,000 CY was negotiated at a lesser unit price.

#### Adds item to the Contract No. CO 2, SANITARY SEWERS: DIAMETER 8" DIP, DEPTH TO INVERT 8.1'-14.0'

- The use of the ravine as a fill/borrow site for future projects will involve deeper bury depths of sanitary sewer pipe than originally planned. As a result, heavier pipe needs to be used in place of what was on the original plans. Ductile iron replaces composite pipe.

#### Adds item to the Contract No. CO 3, SANITARY SEWERS: DIAMETER 10" DIP, DEPTH TO INVERT 8.1'-14.0'

- The use of the ravine as a fill/borrow site for future projects will involve deeper bury depths of sanitary sewer pipe than originally planned. This is a change in bury depth of the pipe as well as a change from composite to ductile iron.

#### Adds item to the Contract No. CO 4, SANITARY SEWERS: DIAMETER 10" DIP, DEPTH TO INVERT 14.1'-20.0'

- The use of the ravine as a fill/borrow site for future projects will involve deeper bury depths of sanitary sewer pipe than originally planned. This is a change in bury depth of the pipe as well as a change from composite to ductile iron.

#### Adds item to the Contract No. CO 5, STORM SEWER: DIAMETER 54" RCP (CLASS IV), DEPTH TO INVERT 8.1'-14.0'

- The use of the ravine as a fill/borrow site for future projects will involve deeper bury depths of sanitary sewer pipe than originally planned. As a result, heavier pipe needs to be used in place of what was on the original plans.

#### Adds item to the Contract No. CO 6, STORM SEWER: DIAMETER 54" RCP (CLASS IV), DEPTH TO INVERT 14.1'-20.0'

- The use of the ravine as a fill/borrow site for future projects will involve deeper bury depths of sanitary sewer pipe than originally planned. As a result, heavier pipe needs to be used in place of what was on the original plans.

#### Adds item to the Contract No. CO 7, SAFETY FENCE

- During construction it was determined that safety fence needed to be placed between a private residence in the ravine and the pipe trench. There was no contract item for this particular item.