



City of Muscatine

ITEM NUMBER 2023-0014

AGENDA ITEM SUMMARY

DATE: 1/5/2023

STAFF

Pat Lynch, City Engineer

SUBJECT

Request for approval of Change Order #1 in the amount of \$334,809.00, for the West Hill Sewer Separation Project Phase 5 (WHSSP PH5).

EXECUTIVE SUMMARY

Presented for City Council's consideration is a request to approve change order #1 to the West Hill Sewer Separation Project Phase 5 (WHSSP PH5). Change Order #1 includes additional work added to the contract as well as a change to the Substantial Completion dates for both Phase 5A and 5B.

STAFF RECOMMENDATION

Staff recommends City Council approve Change Order #1 adding the additional work to the scope of the contract and modifying the schedule as shown in the Background/Discussion section of this memo.

BACKGROUND/DISCUSSION

The addition of storm sewer installation and sanitary sewer installation not originally included in the project at the time the bid was submitted has increased the cost of this project as well as affected the schedule. It was anticipated that the existing combination sewer would be in a condition to reuse as storm sewer in an attempt to reduce cost of the project. However, when the pipe was excavated, it was determined to be in worse condition than expected and needed to be replaced. The table below shows the modified schedule:

<u>Date Description</u>	<u>Original Contract</u>	<u>Modified Date</u>
Phase 5A Substantial Completion Date:	10/29/2021	06/30/23
Phase 5A Final Completion Date:	11/30/2021	08/30/23
Phase 5B Substantial Completion Date:	10/28/2022	06/30/23
Phase 5B Final Completion Date:	11/30/2022	08/30/23

CITY FINANCIAL IMPACT

The budget is available to complete this project from identified sources. The cost for this project was estimated to be \$8,169,767.15. The awarded contract amount was \$6,029,957.45. Upon approval of Change Order #1, the revised Project Amount will be \$6,364,766.45. A portion of this project will be reimbursed by MP&W for water main work in this area.

ATTACHMENTS

1. CO 1 FINAL 12-8-22 SIGNED
2. 2022-12-08 Hagerty Ltr Time Ext

CONTRACT MODIFICATION

No: WH5A/B CO 1

	Non-Substantial	Part	Non-Part
	Substantial	☐	☐

Concurrence Date _____

Contract ID: WHAS&SSSP-5A/B

County: Muscatine

Accounting ID: _____

Project No: SCI 1766050

Kind of Work: Sanitary/Storm Sewer Separation Project

Date Prepared: 12-05-2022

Contractor: Hagerly Earthworks, LLC

You are hereby authorized to make the following changes to the contract documents.

Description of changes to be made or extra work to be done:

1. Replace approximately 268' of existing 8" sanitary sewer with 8" Truss Pipe between Climer Street and Broadway. See ITC #2 for specific details. See ITC #1, Para. 1.
2. Install approximately 171' of new 15" storm sewer Class IV RCP between Existing 3517 and ST6. Install 207' between ST 6 and ST 7. See ITC #2 for specific details.
3. Install new 128' of 15" storm between 3517 and new ST 16. Install new 213' of 15" storm between ST 16 and ST10. Install new 416' of 15" between ST 10 and New MH 3491. See ITC #1, Para. 4 for details.
4. The Contractor is to replace the manhole, tie-in two existing sanitary laterals, and connect back into the existing sanitary main running to the west from the manhole. See ITC #4.
5. The Contractor is to provide an intermediate manhole between the new ST 10 at Whicher and the new ST 3491, approximately at Station 256+79. See new Dwg. M.12 and ITC #5 for details.
6. Install 1348' new 15" RCP between MH ST 13, new MH ST 3737, MH ST 9, MH ST 3728, and MH ST 3723. See ITC #9 for details. [or 'proposal is to drain the sanitary flow toward the alley following the grade of the street']
7. The Contractor suggested replacement of the existing combined sewer on Logan from the alley to Climer.
8. The Contractor has located cast iron subdrain outlets designed to be installed permanently into the concrete curb when the new paving is poured after all of the underground sewer work is completed.
9. The Contractor suggested the replacement of the existing combined sewer on Logan with new storm sewer pipe between the Climer alley and Logan.
10. The estimated quantities for the number of lead/galvanized water services was lower than what was found on Climer Street, Phase 5A.
11. The estimated quantities for the number of lead/galvanized water services was lower than what was found on Lucas Street, Phase 5B.
12. The Contractor was asked to do extra grading of dirt in the ravine that was beyond the scope of the Contract provisions for Ravine Fill Site - Grading and Compaction, Pay Item #9.
13. Item #12, Modified Subbase availability was not anticipated during Phase 5b so the quantity was zero. Subsequently, it became available and is now being used on Phase 5B. Item #11 needs to be reduced to zero and Item #12 increased to 17,505 SY.
14. Change the Unit Price of Item #12 from \$3.25 per SY to \$3.75 per SY.

Reasons for change or extra work:

1. Due to condition of the existing sanitary sewer between Climer Street and Broadway the City of Muscatine is requesting that the existing sanitary be replaced. See ITC #1, Para. 1.
2. The existing combined sewer between Climer and existing MH 3517 is planned to be reused for storm sewer. The City has televised the pipe and would like to replace the pipe due to its condition and age. See ITC #2 for details.
3. The City has decided to replace the existing combined sewer between existing MH 3517 and MH ST 3491 at Lucas St. due to condition, age, pavement replacement, and proximity of sanitary stub to LWBS at MH 9152. See ITC #1, Para. 4 for details.

4. An existing sanitary manhole on Climer Street near the W. 8th Street intersection collapsed during the pavement removal process. It was a brick manhole, not originally identified in the plans for removal/replacement. See ITC #4 for details.
5. The Contractor recommended that a new storm manhole be installed on W. 8th Street near the intersection with Lucas Street. The intent was to provide an intermediate manhole prior to entering the Lucas/8th intersection with the new 15" RCP storm sewer approved in ITC 001-4.
6. Contractor suggested replacement of the existing combined with a new storm sewer at Climer and Logan locations that could be installed at a shallower elevation rather than replacing the existing combined with new storm at the same elevation as existing. See ITC #9 for details.
7. The proposal is to drain the sanitary flow toward the alley from new MH SS #37A on Logan near Climer following the grade of the street south to the alley intersection (to MH SS #54 and MH SS #45) then east down the alley to the new sanitary main toward High Street.
8. There are a limited number of residences where the roof drains must be routed to the street. The homes are on lots where rainwater drained into the yard ponds instead of running away from the houses. The City does not allow those roof drains to be tied into the municipal storm sewer system. The curb boxes drain the water into the street.
9. The Contractor recommended the abandonment of the existing combined through the alley at Logan and its replacement with new storm sewer from the alley to Lucas. Additional changes are made at High Street and the alley.
10. The contract quantity for Pay Item #47, Water Service Pipe, on Climer Street was based on a MPW estimate. The number of water services replace was more than anticipated.
11. The contract quantity for Pay Item #47, Water Service Pipe, on Lucas Street was based on a MPW estimate. The number of water services replace was more than anticipated.
12. The City has been using the ravine fill site for its own purposes but does not own the equipment necessary to grade and compact it. The Contractor for Phase 5 was asked and agreed to do the work on a time-and-materials basis.
13. Item #12, Modified Subbase availability was not anticipated during Phase 5B so the quantity was zero. Subsequently, it became available and is now being used on Phase 5B. Item #11 needs to be reduced to zero and Item #12 increased to 17,505 SY.
14. The Unit Price of Item #12, Modified Subbase was \$3.25 per SY. The price of diesel fuel for the trucks delivering the Modified Subbase has increase significantly. \$3.75 per SY was requested by the Contractor for Phase 5B.

Substantial Completion Phase 5A: June 30, 2023

Substantial Completion Phase 5B: June 30, 2023

Approved:  _____ 12/18/22 City Engineer Date	Approved:  _____ 12/18/22 Public Works Director Date
Federal Participation ☐ Approved ☒ Not Eligible	City of Muscatine  _____ Jan 6, 2023 Bradley Bark (Jan 6, 2023 16:15 CST) Mayor (if required) Date



Form 830240 (11-15)

Accounting ID: _____

C-1 – Settlement for cost of work to be made as follows:

Contract Modification No: WH 5A/B CO 3

The costs for items #1-7, #9-11, and #13 are for items included in the Phase 5 Contract.

Items #8 & 12 is a new item being added to the Contract.

Item #14 is for a change to the unit price of an item in the existing Contract.

C-2 – Justification for cost(s):

The costs for items #1-7, #9-11, and #13 will be paid at the current Unit Prices included in the Phase 5 Contract.

Items #8 & 12 is a new item being added to the Contract and will be paid at a Unit Price negotiated with the Contractor.

Item #14 is for a change to the Unit Price of an item in the existing Phase 5B Contract negotiated with the Contractor

D – ITEMS INCLUDED IN CONTRACT

Change No.	Line Item Number – Description	Unit Price .xxx	Quantity .xxx	Amount .xx
7001	Item #24 - Sanitary Sewer, 8" Composite truss pipe, Depth <14'	\$ 85.000	270.000	\$ 22,950.00
7002	Item #38 - Storm Sewer Mainline Pipe, 15" Class IV RCP	\$ 80.500	2,687.000	\$ 216,303.50
7003	Item #47 - Water Service Pipe	\$ 100.000	1,302.000	\$ 130,200.00
7004	Item #9 - Ravine Fill Site Grading and Compaction	\$ 2.000	15,937.500	\$ 31,875.00
7005	Item #11 - Modified Subbase - Contractor Provided	\$ 7.400	-17,505.000	-\$ 129,537.00
7006	Item #12 - Modified Subbase - City Provided	\$ 3.250	17,505.000	\$ 56,891.25
7007	Item #12 - Modified Subbase - Unit Price Increase	\$ 0.250	17,505.000	\$ 4,376.25
7008				
TOTAL				\$ 333,059.00

E – ITEMS NOT INCLUDED IN CONTRACT

Change No.	Item Description	Item Number	Function Code	Unit Price .xxx	Quantity .xxx	Amount .xx
8002	Cast Iron Subdrain Outlets			\$ 350.000	5.000	\$ 1,750.00
8						
8						
8						
8						
8						
8						
8						
TOTAL						\$ 1,750.00

