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**Public Works**

**City Transit**  
263-8152

MEMORANDUM

**Equipment Maintenance**  
**Roadway Maintenance**  
**Collection & Drainage**  
**Building & Grounds**  
**Engineering**

To: Brian Stineman Public Works Director  
FROM: Jim Edgmond, City Engineer  
DATE: August 15, 2016  
RE: Change Orders 1, 2 and 3 for Mulberry Reconstruction Project

INTRODUCTION:

The City of Muscatine is reconstructing Mulberry Street from Houser St. to Palms Drive. This project is approximately 30% complete. Several items have come up in construction that requires contract change orders. A draft of these change orders has been submitted to the IowaDOT and has been reviewed and resubmitted to the Iowa DOT for signature. Approval of these change orders is requested so the construction can be completed.

BACKGROUND:

During the course of the sanitary sewer construction it was discovered that the granular backfill for the trench was not specified correctly. Change Order #1 is to add this granular backfill into the project. The change order establishes three unit prices created for this item. One is where the city provides the material. The second is where the city provides and hauls the material to the project. The third is where the contractor buys and hauls the material to the project. The first two of these prices is to allow the city to save money using the recycled airport runway pavement. The estimate dollar value of this change order is \$81,510.15; however, every effort will be made to minimize this cost by using the recycled material and using the city trucks to haul the material.

Change order number two is to use the airport recycled pavement as the granular base for the pavement. The cost of this change is \$1,920.00. It is estimated that this will save \$20,000.00 on the contract.

Change order number three is to add three temporary construction signs on Mulberry and Houser at the request of the motoring public to make the closure and associated detours more obvious farther away from the closed intersection. The cost of this change is \$990.00. Copies of these three change orders are attached to this memo.

**"I remember Muscatine for its sunsets. I have never seen any  
on either side of the ocean that equaled them" — Mark Twain**

**RECOMMENDATION/RATIONALE:**

It is recommended that these three change orders be approved as listed below.

<u>CO</u>	<u>DESCRIPTION</u>	<u>ESTIMATED COST</u>
1	Three prices for gran. backfill for trenches under the paving	\$81,510.15
2	New price for gran. subbase under the new paving	\$ 1,910.00
3	Cost for three additional const. temporary signs	\$ 990.00

**BACKUP INFORMATION:**

1. Change Orders 1,2,3

**CONTRACT MODIFICATION**

		Part	Non-Part
Non-Substantial	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Substantial	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

No: 001

Concurrence Date \_\_\_\_\_

Contract ID: 70-5330-626

County: Muscatine

Accounting ID: 33509

Project No: STP-U-5330(626)-70-70

Kind of Work: GRADING AND PAVING

Date Prepared: \_\_\_\_\_

Contractor: LANGMAN CONSTRUCTION INC.

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

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

ADD THREE PAY ITEMS FOR GRANULAR BACKFILL TO THE CONTRACT FOR TRENCH BACKFILL OF ALL SANITARY AND STORM SEWER TRENCHES WITHIN 10' OF PAVEMENT EDGES. THESE ITEMS WILL BE NON PARTICIPATORY.

B – Reason for change or extra work:

CITY OF MUSCATINE IS TO FILL THESE TRENCHES W/ GRANULAR BACKFILL. THE INTENT OF THE PLANS WAS TO DO THIS BUT THE PLANS DID NOT MAKE IT CLEAR THAT THE BACKFILL REQUIRED WAS TO BE GRANULAR.

Contract Time Adjustment:  No Time Added  Time Added \_\_\_\_\_  To be determined later

When authorized, contractor agrees to perform the work outlined above in accordance with provisions of the contract documents.

Agreed: \_\_\_\_\_ Date \_\_\_\_\_ Recommended: \_\_\_\_\_ Date \_\_\_\_\_  
Contractor Project Engineer

Approved: \_\_\_\_\_ Date \_\_\_\_\_ Approved: \_\_\_\_\_ Date \_\_\_\_\_  
District Staff Central Office (when Applicable)

Federal Participation  Approved  Not Eligible FHWA Concurrence: \_\_\_\_\_ Date \_\_\_\_\_  
FHWA (if required)

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

Contract Modification No: 001

RECYCLED MODIFIED SUBBASE FROM THE AIRPORT PROJECT IS AVAILABLE AND WILL BE USED FOR THE GRANULAR BACKFILL. THE WORK WILL BE PAID FOR UNDER ONE OF THE FOLLOWING THREE ITEMS:

1. GRANULAR BACKFILL PLACE ONLY: Contractor will place this material delivered to the site at no cost to the contract. \$0.00/CY as a mutual benefit item.
2. GRANULAR BACKFILL, HAUL AND PLACE: Contractor haul and place city supplied material. \$8.00/CY
3. GRANULAR BACKFILL, PURCHASE, HAUL AND PLACE: \$25.47/cy

C-2 – Justification for cost(s):

THESE PAY ITEMS COMPARE FAVORABLY W/ PRICES FROM THE FOLLOWING RECENT LOCAL ROADS PROJECTS.  
 STP-U-5330(616)-70-70 = \$28.50/CY FOR PURCHASE, HAUL, AND PLACE  
 STP-U-5330(617)-70-70 = \$31.22/CY FOR PURCHASE, HAUL, AND PLACE

THE BID-X AVERAGE PRICE FOR MODIFIED SUBBASE, PLACE ONLY IS \$6.92/CY.

D – ITEMS INCLUDED IN CONTRACT

Change No.	Line Item Number – Description	Unit Price .xxx	Quantity .xxx	Amount .xx
7				
7				
7				
7				
7				
7				
7				
7				
7				
<b>TOTAL</b>				<b>\$ 0.00</b>

E – ITEMS NOT INCLUDED IN CONTRACT

Change No.	Item Description	Item Number	Function Code	Unit Price .xxx	Quantity .xxx	Amount .xx
8001	GRAN. BACK, PLACE ONLY	2-0100200		\$ 0.000	830.000	
8002	GRAN. BACK. HAUL AND PLACE	2-0100201		\$ 8.000	6,225.000	\$ 49,800.00
8003	GRAN BACK CONTR. PROVIDE	2-0100202		\$ 25.470	1,245.00	\$ 31,710.15
8						
8						
8						
8						
8						
<b>TOTAL</b>						<b>\$ 81,510.15</b>

**CONTRACT MODIFICATION**

		Part	Non-
Non-Substantial	<input type="checkbox"/>	Part	Part
Substantial	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

No: 002

\_\_\_\_\_  
 Concurrence Date

Contract ID: 70-5330-626  
 Accounting ID: 33509  
 Kind of Work: GRADING AND PAVING  
 Contractor: LANGMAN CONSTRUCTION INC.

County: Muscatine  
 Project No: STP-U-5330(626)-70-70  
 Date Prepared: \_\_\_\_\_

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

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

ADD PAY ITEM FOR, MODIFIED SUBBASE (PLACE ONLY). THIS ITEM WILL BE NON PARTICIPATORY.

B – Reason for change or extra work:

CITY OF MUSCATINE HAS RECYCLED CONCRETE FROM THE AIRPORT PROJECT THAT HAS BEEN CRUSHED AND GRADED TO MODIFIED SUBBASE. THE CITY WILL HAUL THIS MATERIAL TO THE SITE FOR THE CONTRACTOR TO USE. THIS MATERIAL IS REQUIRED BY CONTRACT TO BE REMOVED OFF OF THE AIRPORT SITE BY THE COMPLETION OF THE CONTRACT. THE CITY ENGINEER CERTIFIES THAT ADEQUATE QUANTITY IS AVAILABLE AND THAT THE QUALITY IS ACCEPTABLE TO THE CITY.

Contract Time Adjustment:  No Time Added  Time Added \_\_\_\_\_  To be determined later

When authorized, contractor agrees to perform the work outlined above in accordance with provisions of the contract documents.

Agreed: \_\_\_\_\_ Contractor \_\_\_\_\_ Date Recommended: \_\_\_\_\_ Project Engineer \_\_\_\_\_ Date

Approved: \_\_\_\_\_ District Staff \_\_\_\_\_ Date Approved: \_\_\_\_\_ Central Office (when Applicable) \_\_\_\_\_ Date

Federal Participation  Approved  Not Eligible FHWA Concurrence: \_\_\_\_\_ FHWA (if required) \_\_\_\_\_ Date

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

Contract Modification No: 002

RECYCLED MODIFIED SUBBASE FROM THE AIRPORT PROJECT IS AVAILABLE AND WILL BE USED FOR BASE OF THE PAVEMENT. THE WORK WILL BE PAID FOR UNDER THE FOLLOWING UNIT PRICE:

1. MODIFIED SUBBASE, PLACE ONLY: \$1.00/ CY

THE CONTRACT UNIT PRICE WILL BE LEFT IN THE CONTRACT IN CASE THE CITY CANNOT SUPPLY THE MATERIAL IN THE QUANTITY THE CONTRACTOR NEEDS WHEN HE NEEDS IT AND BECAUSE A SMALL AMOUNT OF THE PROJECT MODIFIED SUBBASE HAS ALREADY BEEN DELIVERED TO THE SITE.

C-2 – Justification for cost(s):

THE BID-X AVERAGE PRICE FOR MODIFIED SUBBASE, PLACE ONLY IS \$6.92/CY.

**D – ITEMS INCLUDED IN CONTRACT**

Change No.	Line Item Number – Description	Unit Price .xxx	Quantity .xxx	Amount .xx
7				
7				
7				
7				
7				
7				
7				
7				
7				
<b>TOTAL</b>				<b>\$ 0.00</b>

**E – ITEMS NOT INCLUDED IN CONTRACT**

Change No.	Item Description	Item Number	Function Code	Unit Price .xxx	Quantity .xxx	Amount .xx
8004	MOD. SUBBASE, PLACE ONLY	2115-0100200		\$ 1.000	1,920.000	\$ 1,920.00
8						
8						
8						
8						
8						
8						
8						
<b>TOTAL</b>						<b>\$ 1,920.00</b>

# CONTRACT MODIFICATION

		Non-Substantial	<input checked="" type="checkbox"/>	Part	<input type="checkbox"/>	Non-Part
		Substantial	<input type="checkbox"/>	Part	<input type="checkbox"/>	

No: 003

Concurrence Date \_\_\_\_\_

Contract ID: 70-5330-626

County: Muscatine

Accounting ID: 33509

Project No: STP-U-5330(626)-70-70

Kind of Work: GRADING AND PAVING

Date Prepared: \_\_\_\_\_

Contractor: LANGMAN CONSTRUCTION INC.

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

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

ADD PAY ITEM FOR, ADDITIONAL SIGNAGE REQUESTED BY THE CITY AT THE START OF STAGE 2.

B – Reason for change or extra work:

DUE TO CITIZEN COMPLAINTS ABOUT THE DETOUR FOR STAGE 2 3 ADDITIONAL SIGNS WERE ADDED TO DIRECT TRAFFIC TO THE DETOUR SOONER THAN WHEN THE TRAFFIC COMES UP TO THE TYPE III BARRICADES.

Contract Time Adjustment:  No Time Added  Time Added \_\_\_\_\_  To be determined later

When authorized, contractor agrees to perform the work outlined above in accordance with provisions of the contract documents.

Agreed: \_\_\_\_\_  
Contractor

\_\_\_\_\_ Date

Recommended: \_\_\_\_\_  
Project Engineer

\_\_\_\_\_ Date

Approved: \_\_\_\_\_  
District Staff

\_\_\_\_\_ Date

Approved: \_\_\_\_\_  
Central Office (when Applicable)

\_\_\_\_\_ Date

Federal Participation  Approved  Not Eligible

FHWA Concurrence: \_\_\_\_\_  
FHWA (if required)

\_\_\_\_\_ Date



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

Contract Modification No: 003

COST OF ADDITIONAL SIGNS IS COVERED IN THE ATTACHED LETTER. GENERAL CONTRACTOR'S MARKUP IS 10%. COST INCLUDES ALL COSTS FOR MATERIALS, LABOR, FABRICATION, DELIVERY AND INSTALLATION AND MAINTENANCE AND REMOVALS.

C-2 – Justification for cost(s):

SEE ATTACHED LETTER: LUMP SUM PRICE IS \$990.00 FOR THE THREE SIGNS. ON STP-U-5330(617)-70-70(CEDAR ST.) 15 ADDITIONAL TRAFFIC CONTROL SIGNS WERE INSTALLED FOR A LS PRICE OF \$3,547.00. EQUALS \$236.47/ SIGN. ALSO IN BID-X PAY ITEM 24524-6765010 THE COST OF SIGN EACH IS \$252.15. THE SLIGHTLY HIGHER SIGN COST IS DUE TO THE SIZE OF THE SIGNS IS LARGER THAN THOSE INSTALLED ON CEDAR STREET.

D – ITEMS INCLUDED IN CONTRACT

Change No.	Line Item Number – Description	Unit Price .xxx	Quantity .xxx	Amount .xx
7				
7				
7				
7				
7				
7				
7				
7				
7				
<b>TOTAL</b>				<b>\$ 0.00</b>

E – ITEMS NOT INCLUDED IN CONTRACT

Change No.	Item Description	Item Number	Function Code	Unit Price .xxx	Quantity .xxx	Amount .xx
8005	ADD. DETOUR SIGNS ST. 2			\$ 1.000	990.000	\$ 990.00
8						
8						
8						
8						
8						
8						
8						
<b>TOTAL</b>						<b>\$ 990.00</b>