



1459 Washington St.  
Muscatine, IA 52761-5040  
(563) 263-8933  
Fax (563) 263-2127

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**Public Works**

**City Transit**  
**263-8152**

**MEMORANDUM**

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

To: Randy Hill, Public Works Director  
FROM: Jon Lutz, City Engineer  
DATE: March 18, 2014  
RE: Change Order 1 – Colorado Street Project

**INTRODUCTION:**

The City of Muscatine is reconstructing Colorado Street from Park Ave. to University Drive under contract with Heuer Construction. Water main improvements are included in the project and funded by Muscatine Power & Water.

**BACKGROUND:**

A 245' length of 8" water main along Park Avenue from Colorado to the south entrance of Kum & Go is to be installed, replacing an existing main with history of failures. Installation is necessary at this time to avoid removal and replacement of the northbound right turn lane from Park Ave to Colorado. Additional items include a 10"x10" tapping sleeve and valve and a 1 ½" water service. Although the cost increase for the items total \$12,100.00, all of this amount is funded by MPW.

**RECOMMENDATION/RATIONALE:**

It is recommended to approve Change order #1 in the amount of 12,100.00.

**BACKUP INFORMATION:**

1. Change Order 1
2. ITC #7



Iowa Department of Transportation

Change Order

Non-Substantial:

Part  
☐

Non-  
Part  
☒

No. 001

Substantial:  
☐

☐

Concurrence Date

Contract

Accounting ID No.: 70-5330-616

County Muscatine

Project No: STP-U-5330(616)--70-70

Kind of Work: PCC PVMT-GRADE AND REPLACE

Date Prepared: 3/10/2014

Contractor: HEUER CONSTRUCTION

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

A - Description of change to be made or extra work to be done:

WORK IS COVERED BY ITC #7 ATTACHED. REVISION TO HOW 12' WATERMAIN IS TO TIE INTO THE EXISTING WATERMAIN AND ADDITIONAL 8" WATERMAIN TO REPLACE 6" THAT WOULD BE UNDER THE NEW PARK AVE. TURN LANE. ALL THESE ADDITIONAL COSTS ARE WATER SYSTEM RELATED IMPROVEMENTS THAT ARE NON-PARTICIPATING COST AND WILL BE REIMBURSABLE COSTS TO THE CITY OF MUSCATINE FROM MUSCATINE POWER AND WATER.

THIS PROJECT WILL INCREASE THE CONTRACT DAYS NEEDED. BECAUSE THE WORKING DAYS CANNOT BE AGREED UPON CONTRACT DAYS WILL BE EVALUATED DURING AND AFTER COMPLETION OF THE WORK.

B - Reason for change or extra work:

AN EXISTING CONCRETE COMMUNICATION VAULT IS IN DIRECT CONFLICT WITH THE TIE-IN OF THE WATER MAIN ON PARK AVE. A REDESIGN WAS DONE BY THE DESIGN ENGINEER AND IS CONTAINED IN ITC # 7. THIS REDESIGN CONTAINED ITEMS THAT WERE NOT ANTICIPATED IN THE ORIGINAL CONTRACT AND MORE QUANTITY OF ITEMS IN THE CONTRACT. THIS CHANGE ORDER COVERS PROVIDING PRICES FOR THE ADDITIONAL ITEMS AND PRICES INCREASES FOR DOCUMENTED MATERIAL COSTS FOR SEVERAL ITEMS. THESE MAT. PRICE INCREASES WILL BE COVERED BY A CHANGE ORDER ONCE THE PRICE INCREASE IS DOCUMENTED. SH

(Continued on reverse side)

Approved

[Signature]  
District Construction Engineer  
Local Systems

3/17/2014

Date

[Signature]  
Project Engineer

3/14/14  
Date

Receipt is acknowledged of this change or extra work and terms of settlement are hereby agreed to.

Approved contingent upon funds being available under the existing project agreement or upon additional Federal-aid funds being made available by a modified project agreement.

Heuer Const Inc.  
Contractor

By

[Signature]

3/14/14  
Date

Date

For the Division Administrator  
Federal Highway Administration

Approved

Assistant Construction Engineer

Date

DISTRIBUTION: Project Engineer - Forward original to District.  
District - Nonsubstantial - Forward original and one copy to the Office of Construction and two copies back to the Project Engineer.  
- Substantial - Forward original and two copies to the Office of Construction.

[Signature]  
3/17/14

1 2 3 4 5 6

Change Order No. 001

OUTLINED IN ATTACHED HEUER CONST. ITC #7 DOCUMENT DATED 3/6/14 AS MARKED UP AND REVISED BY THE CITY OF MUSCATINE.

C-2 – Justification for cost(s) Item 8001 has comparables in a current water main contract in Muscatine, bid by the same contractor where the average unit price was \$5,000.00. This installation is in a busy street, with communication cables, storm sewer and sanitary sewer to be constructed around. The san. sewer will need to be removed, bypassed pumped and once the tapping equipment is out of the way hooked back up. A significant amount of other conflicts are driving the price higher. Item 8002 has a comparable price in a Muscatine project for the 1.5 inch service is to be reconnected, this price is \$2300.00. This price is lower but does not have Davis-Bacon wage requirements.

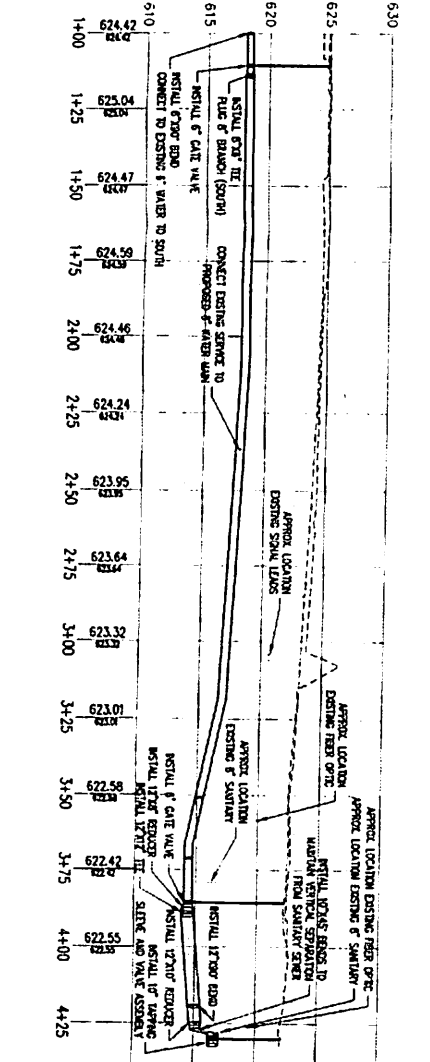
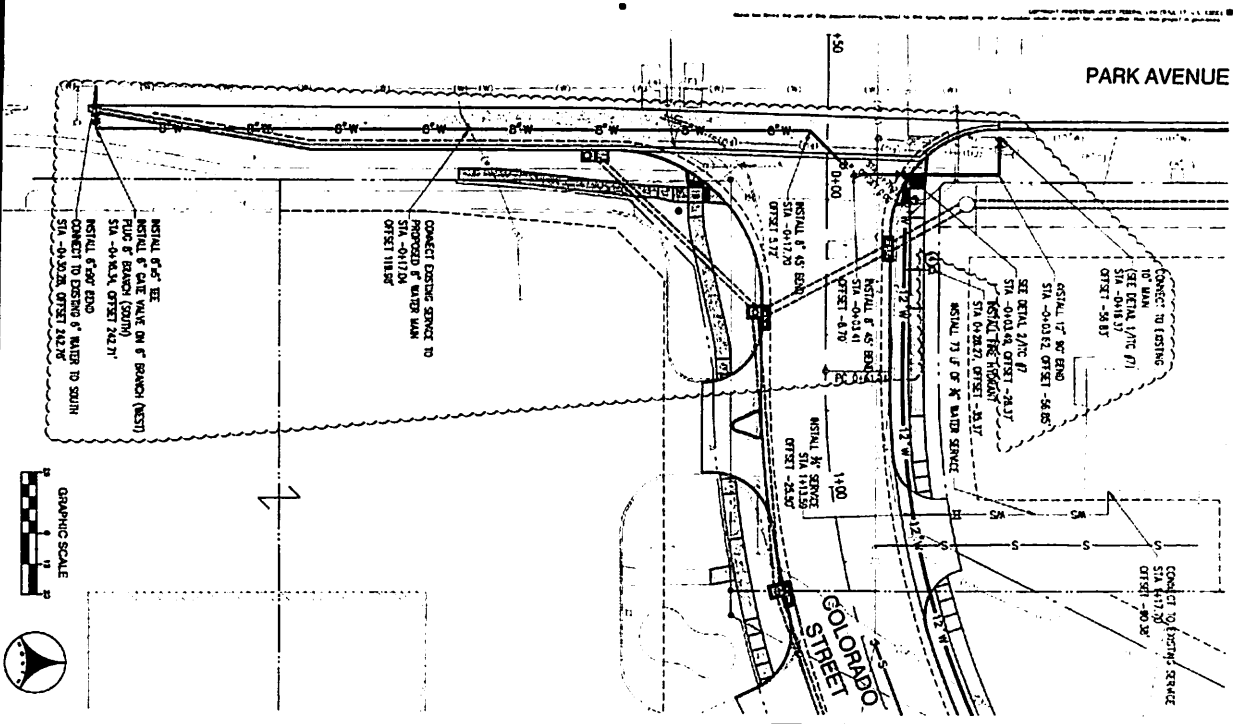
### **D - ITEMS INCLUDED IN CONTRACT**

D – ITEMS INCLUDED IN CONTRACT			If Credit Add "CR"	
Change No.	Line Item Number	Unit Price .xxx	Quantity .xxx	Amount .xx
7 t001				
7				
7				
7				
7				
7				
7				
TOTAL				

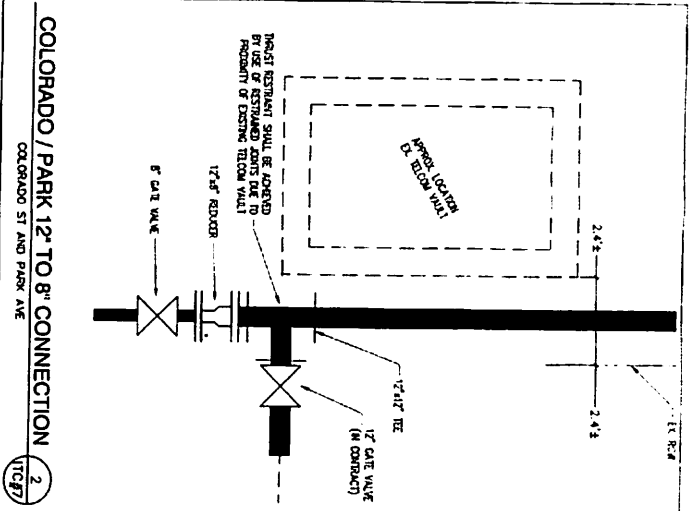
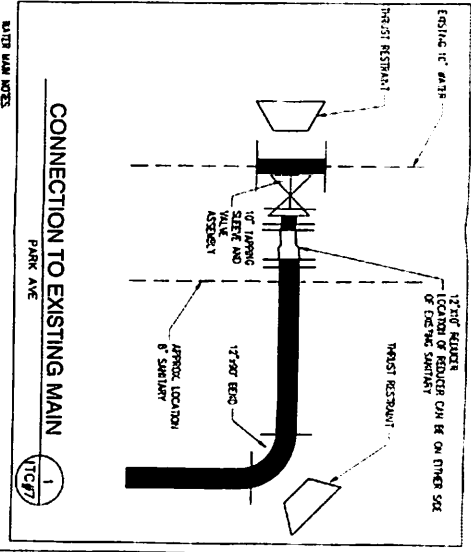
### E – ITEMS NOT INCLUDED IN CONTRACT

E - ITEMS NOT INCLUDED IN CONTRACT					If Credit, Add "CR"	
Change No.	Item Description	Item Number	Function Code	Unit Price .xxx	Quantity .xxx	Amount .xx
8001	Add item for "10" X 10" Tapping Sleeve & Valve". Done per SP-125002, SP Water Main	2554-0208010		9350.00	1	9350.00
8002	Add item for "Connect 1 1/2 inch water ser. to New 8 IN. water main, Done per SP-125002	2554-0204115		2750.00	1	2750.00
8						
8						
8						
8						
8						
TOTAL						12100.00





- WATER MAIN NOTES**
1. WATER MAIN INSTALLATION SHALL BE IN ACCORDANCE WITH THE IOWA DEPARTMENT OF TRANSPORTATION (IDOT) STANDARD SPECIFICATIONS FOR HIGHWAYS.
  2. BOTH MATERIALS AND INSTALLATION SHALL BE USED WHERE INDICATED ON THE PROJECT FOR THE WATER MAIN.
  3. CONTRACTOR SHALL PROVIDE INSTALLATION, CONNECTION AND SERVICE INTERRUPTION PLAN AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES.
  4. CONTRACTOR SHALL COORDINATE WITH ALL AFFECTED UTILITIES AND AFFECTED PROPERTIES.
  5. ALL CONNECTIONS TO EXISTING WATER MAINS SHALL BE CONFORMED WITH IOWA DEPARTMENT OF TRANSPORTATION (IDOT) STANDARD SPECIFICATIONS FOR HIGHWAYS.
  6. THE PROPOSED WATER MAIN SHALL BE CONFORMED WITH IOWA DEPARTMENT OF TRANSPORTATION (IDOT) STANDARD SPECIFICATIONS FOR HIGHWAYS.
  7. WATER MAIN SHALL BE 12\"/>



SHEET NUMBER  
**ITC#7**  
 PROJECT  
**COLORADO STREET**  
**MUSCATINE, IOWA**  
**STP-U-5330(616)--70-70**

PROJECT STATUS  
 OWNER  
**CITY OF MUSCATINE**  
**Shoemaker Haaland**  
 www.shoemakerhaaland.com





Change Order

Non-Substantial:

Part

Non-

Part

No. 001

Substantial:

Concurrence Date

Contract

Accounting ID No.: 70-5330-616

County Muscatine

Project No: STP-U-5330(616)--70-70

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(Continued on reverse side)

Approved \_\_\_\_\_  
District Construction Engineer Date

Project Engineer

3/14/14  
Date

Receipt is acknowledged of this change or extra work and terms of settlement are hereby agreed to.

Approved contingent upon funds being available under the existing project agreement or upon additional Federal-aid funds being made available by a modified project agreement.

*Heuer Const Inc.*  
Contractor

By

3/14/14  
Date

Date

For the Division Administrator  
Federal Highway Administration

Approved

Assistant Construction Engineer

Date

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Change Order No. 001

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**If Credit  
Add "CR"**

TOTAL

**If Credit,  
Add "CR"**

TOTAL

12100.00



DATE: 3/6/14

Construction

2360 BYPASS 61  
MUSCATINE, IA 52761  
PHONE: 563-264-8533  
FAX: 563-263-4331  
CELL: 563-506-0272

## ITC #7

JOB NAME: Colorado Street

IDOT Project No.

STP-U-5330(616)-70-70

### Description of Instruction:

Revise water connections at Park Avenue as shown on ITC #7.

Connect to existing 10" water main in Park Avenue approximately 57 - feet north of Colorado Street centerline with tapping sleeve and valve. Rotate 90 - degrees bend and install additional 45 - degree bends as needed to route proposed 12 - main beneath existing sanitary sewer.

Connect to existing 6" water main in Park Avenue approximately 245 - feet south of Colorado Street centerline. Connect existing 1.5 - inch service to proposed 8 - inch main.

Abandon existing 6" water main north of proposed 8" connection per Owner's standards abandonment of existing utility procedures.

### ADD

Construction Survey

~~\$632.50~~ *No*

Connect existing 10" WM at Park Ave tapping sleeve & valve. "Fiber optic in ditch and existing sanitary sewer may result in difficulty to install tapping machine. Sewer may need taken out and bypassed. Many unforeseen conditions that will result in potholing to be performed prior to installation. Material price increases from supplier."

*New UNIT PRICE 8001*

\$9,350.00

Connect to existing 6" watermain in Park Ave. "Concrete Kicker needed"

\$2,750.00

*IN W.M. L.F. PRICE*

Item #0880, 6" Gate Valve, "Material price increase"

\$1,529.00?

*CONT. IS GATHERING DOC. TO JUSTIFY MAT. INCREASE*

Item #0890, 8" Gate Valve, "Material price increase"

\$1,947.00?

*ditto*  
Connect existing 1.5" service to proposed 8" watermain

\$2,750.00

*NEW UNIT PRICE 8002*

Abandon existing 6" watermain

~~\$550.00~~

*COVER w/ CONTRACT UNIT PRICE*

TOTAL THIS PAGE

\$19,508.50





DATE: 3/6/14

Construction

2360 BYPASS 61  
MUSCATINE, IA 52761  
PHONE: 563-264-8533  
FAX: 563-263-4331  
CELL: 563-506-0272

ITC #7

JOB NAME: Colorado Street

IDOT Project No.

STP-U-5330(616)-70-70

ADD

Item #0840, Watermain 8" DIP, "Reduction in production due to utility conflict of fiber optic in ditch line and crossing of fiber optic. Potholing needed for crossing of existing WM service line, electric, fiber optic and sanitary sewer. Increase in materials of three concrete kickers needed, restrained joints, and routing of new main under existing sanitary sewer line as needed. Material price increase from supplier."

Item #0840 - Add \$47.25 per LF to unit price \$35.25 per LF = \$82.50  
288 LF ADD ON @ \$82.50 = \$23,760.00

\$23,760.00

Cont. evaluating  
MATERIAL COST ONLY  
INCREASE.

Item #0850, Watermain 12" DIP "Reduction in production due to utility conflict crossing fiber optic, increase in materials of two concrete kickers needed, potholing needed for crossing of sanitary and fiber optic lines and material price increases from supplier."

Item #0850 - Add \$60.25 per LF to unit price \$44.25 per LF = \$104.50  
35 LF ADD ON @ \$104.50 = \$3,657.50

\$3,657.50

Cont. evaluating  
MAT. COST ONLY  
INCREASE

Item #0860, Fittings by weight. 12"x10" REDUCER, 12" 90 Bend, 12"x8" MJ Reducer, 8" MJ 45 Bend 2 Ea., 8"x6" tee, 12" MJ tee, 8" MJ plug, and 6" MJ 90 bend. "Material price increase from supplier"

Item # 0860 - Add 631 Lbs. @ \$8.14 per lb. = \$5,136.34

\$5,136.34

TOTAL THIS PAGE  
TOTAL PRIOR PAGE

GRAND TOTAL

Cont. EVALUATING  
MAT. COST ONLY  
INCREASE

\$32,553.84  
\$19,508.50

\$52,062.34

N.A.

# INSTRUCTION TO CONTRACTOR

ITC #7



Colorado Street Re-Construction  
Park Avenue to University Drive  
IDOT Project No: STP-U-5330(616)—70-70  
SHPE No. 13381/10015

Title: Revised Water Connections at Park Ave.  
Date: February 21, 2014

The following instruction is issued to:

- ☐ Clarify contract documents and/or procedures
- ☒ Request a Change Authorization Request for Owner's further consideration
- ☒ Transmit documents for incorporation into the contract, subject to the last paragraph below.
- ☐ Respond to Contractor's RFI No. \_\_\_\_.

Description of Instruction:

Revise water connections at Park Avenue as shown on ITC #7.

Connect to existing 10" water main in Park Avenue approximately 57-feet north of Colorado Street centerline with tapping sleeve and valve. Rotate 90-degree bend and install additional 45-degree bends as needed to route proposed 12-inch main beneath existing sanitary sewer.

Connect to existing 6" water main in Park Avenue approximately 245-feet south of Colorado Street centerline. Connect existing 1.5-inch service to proposed 8-inch main.

Abandon existing 6" water main north of proposed 8" connection per Owner's standard abandonment of existing utility procedures.

Robert W. Tobin  
Name: Robert W. Tobin  
Title: Civil Engineer

2/24/14  
Date

If, in your opinion, this instruction involves work which either increases or decreases the Contract sum or Contract time you shall not proceed until you submit a Change Authorization Request and receive Owner's approval to proceed with the work.



Welcome jheuer@machlink.com!  
Logout



Iowa Department of Transportation  
Bid Tab Analysis Search

[Contact Bid Express](#)

## Bid Tab Analysis Search

Item:	
<input type="text" value="2554-0112008"/>	
Description:	
<input type="text" value="Any"/>	
Proposal Items:	
<input type="text" value="Any"/>	
County:	
<input type="text" value="Any"/>	
Unit:	
<input type="text" value="Any"/>	
Low Bidders:	
<input type="text" value="Any"/>	

*ITC*

Date Range:

From:	To:
<input type="text" value="01/01/13"/>	<input type="text" value="03/07/2014"/>

Quantity Range:

From:	To:
<input type="text" value="Any"/>	<input type="text" value="Any"/>

Price Range:

From:	To:
<input type="text" value="Any"/>	<input type="text" value="Any"/>

<input type="button" value="Search"/>	<input type="button" value="Clear"/>
---------------------------------------	--------------------------------------

Item ▲	Description	Average	High	Low	Unit	Bid Count
2554-0112008	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 8 IN.	\$72.68	\$148.00	\$35.25	LF	29 Bids



Welcome jheuer@machlink.com!  
Logout



Iowa Department of Transportation  
Bid Tab Analysis Search

[Contact Bid Express](#)

ITC 2

## Bid Tab Analysis Search

Item:	<input type="text" value="2414-6460000"/>
Description:	<input type="text" value="Any"/>
Proposal Items:	<input type="text" value="Any"/>
County:	<input type="text" value="Any"/>
Unit:	<input type="text" value="Any"/>
Low Bidders:	<input type="text" value="Any"/>

### Date Range:

From:	To:
<input type="text" value="01/01/13"/>	<input type="text" value="03/07/2014"/>

### Quantity Range:

From:	To:
<input type="text" value="Any"/>	<input type="text" value="Any"/>

### Price Range:

From:	To:
<input type="text" value="Any"/>	<input type="text" value="Any"/>

Search

Clear

Item ▲	Description	Average	High	Low	Unit	Bid Count
2414-6460000	ORNAMENTAL METAL RAILING	\$168.94	\$300.00	\$50.00	LF	13 Bids