

# Memorandum

**To:** Mike Beimer, City Administrator  
**From:** Daniel J. Boggs, P.E., City Engineer  
**Date:** December 11, 2013  
**RE:** 2013 U.S. HIGHWAY 30 CORRIDOR IMPROVEMENTS

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Following is a summary of Change Orders 9 through 13:

## **CHANGE ORDER 9:**

The existing 5'x4' reinforced concrete box culvert structure located just east of the intersection of U.S. Highway 30 and Tenth Avenue was extended to the North as a contract bid item. In order to maintain an acceptable 4:1 backslope at the outfall of the existing 5'x4' box culvert, the Contractor was directed to extend the drainage structure South with a 48" Reinforced Concrete Pipe (RCP) extension. The cost for this item will be fully reimbursed by the Iowa Department of Transportation.

## **CHANGE ORDER 10:**

The 15" corrugated metal culvert (CMP) underneath the BP Amoco access of U.S. Highway 30 needed to be replaced due to drainage issues caused by construction. The cost for this item will be fully reimbursed by Shive Hattery Engineers.

## **CHANGE ORDER 11:**

As requested and approved by the Mount Vernon City Council, the pedestrian crosswalks were revised from the original contract:

A running bond stamped brick pattern was added to the Crosswalk East of the intersection of U.S. Highway 30 with Iowa Highway 1.

An additional stamped brick colored concrete pedestrian crosswalk was installed east of the intersection of U.S. Highway 30 with Iowa Highway 1.

The cost for this item will be the responsibility of the City of Mount Vernon.

## **CHANGE ORDER 12:**

Acceptable subgrade stabilization could not be accomplished using the moisture density control methods specified in the Iowa Department of Transportation Standard Specifications for Bridge and Roadway Construction at various locations. To accomplish an acceptably stabilized subgrade in these locations, a polymer mesh reinforcing mat was placed between the subgrade and granular subbase.

*December 10, 2013*

**CHANGE ORDER 13:**

In an effort to increase driver awareness that the traffic entering the roundabouts must yield to traffic within the roundabouts, it was requested by the City of Mount Vernon staff to attach metal warning flags to the yield signs. The unit price for the metal warning flags are compensated for under the contract bid items. The contractor has asked for reimbursement for the brackets needed to attach the metal flags.



Change Order

Non-Substantial:

Part

Non-Part

As Noted by Division

No. 8

Substantial:

Concurrence Date

Contract  
Accounting ID No.: 30662

County Linn

Project No: STP-A-030-7(159)-86-57

Kind of Work: PCC Pavement-Grade/Replace

Date Prepared: 11-22-13

Contractor: Streb Construction Co., Inc.

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:

- 7009 Increase item for "Modified Subbase" (Division 1: +267.50 CY, Division 3: +38.00 CY, Division 4: +267.50 CY)
- 7010 Increase item for "Standard or Slip Form Portland Cement Concrete Pavement, Class C, Class 3 Durability, 10 In." (Division 1: +1422.50 SY, Division 3: -47.0 SY, Division 4: +1422.50 SY)

Ten working days will be added to the contract

B - Reason for change or extra work:

7009 -7010 A calculation error was identified in the estimated contract quantities for modified subbase and 10" PCC Pavement within the Highway 30 and 10<sup>th</sup> Avenue roundabout. The calculation error causes an increase to both items in Division 1. The contract quantity for modified subbase in Division 3 is being increased due to a calculation error in the estimated contract quantity. The contract quantity for 10" PCC Pavement in Division 3 is being reduced due to a change in the location of the red colored PCC crosswalk and changing the Hardee's driveway from 10" PCC Pavement to 6" PCC Pavement. The revised quantities for these items represent the recalculated quantities for the entire project.

Approved \_\_\_\_\_  
District Local Systems Engineer Date

Project Engineer 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.

By [Signature] Streb Construction Co., Inc.  
Contractor  
Date 11-22-13

12/02/2013  
Date  
[Signature]  
City of Mount Vernon

Approved \_\_\_\_\_  
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.

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

Change Order No. 8

7009 thru 7010 Contract Unit Price

C-2 – Justification for cost(s)

**D – ITEMS INCLUDED IN CONTRACT**

Change No.	Line Item Number	Unit Price .xxx	If Credit Add "CR"	
			Quantity .xxx	Amount .xx
7009	0040 - Modified Subbase	27.500	573.000	\$15,757.50
7010	0140 - Standard or Slip Form Portland Cement Concrete Pavement, Class C, Class 3 Durability, 10 in"	55.250	2798.000	\$154,589.50
<b>TOTAL</b>				<b>\$170,347.00</b>

**E – ITEMS NOT INCLUDED IN CONTRACT**

Change No.	Item Description	Item Number	Function Code	Unit Price .xxx	If Credit, Add "CR"	
					Quantity .xxx	Amount .xx
<b>TOTAL</b>						



Change Order

Non-Substantial:

Part

Non-Part  
 As Noted by Division

No. 09

Substantial:

Concurrence Date

Contract  
Accounting ID No.: 30662

County Linn

Project No: STP-A-030-7(159)--86-57

Kind of Work: PCC Pavement-Grade/Replace

Date Prepared: 11/18/13

Contractor: Streb Construction Co., Inc.

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:

8014 - Add Item for "Reinforced Concrete Box (RCB) Extension" (Division 2)  
The Contractor shall attach a 48" Reinforced Concrete Pipe (RCP) to the existing RCB using a concrete collar. A total of 16' of RCP shall be placed. Pipe bedding shall be 1" Clean Stone- use as approved by the Engineer. The contractor shall install one 48" Concrete Apron at the end of the pipe extension. Minor Class 10 Excavation, Roadway and Borrow, and Topsoil, Strip, Salvage and Spread work shall be performed to backfill the pipe extension and blend the new foreslope and ditch areas into the surrounding slopes/ditch. The work shall be performed per the applicable Description, Materials, and Construction sections of Standard Specifications 2102, 2105, and 2416. The concrete collar shall be constructed per Standard Road Plan RF-2, Revision Date 10-18-11. Pipe joints are to be tied (Type 3 Connection) and wrapped with engineering fabric per Standard Road Plan RF-14, Revision Date 04-16-13. Method of Measurement: This item will not be measured separately for payment. Basis of Payment: Lump Sum. This payment is full compensation for all materials, labor and equipment needed to perform the pipe extension and associated work.

The above change does not have an effect on contract time.

B - Reason for change or extra work:

8014 - To provide adequate foreslope adjacent to Highway 30. An existing 5'x4' RCB on the south side of Highway 30 (approx. Station 683+40 Right) had a foreslope steeper than 4:1 and to remove the safety hazard from the corridor an extension of the culvert was needed.

Approved \_\_\_\_\_  
District Local Systems Engineer Date Project Engineer 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.

Streb Construction Co., Inc.  
Contractor  
By [Signature] 11.22.13  
Date

Date \_\_\_\_\_  
City of Mount Vernon

Approved \_\_\_\_\_  
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.

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

8014 – Force Account

Change Order No. 09

C-2 – Justification for cost(s)

8014 Labor costs are based upon certified payrolls, material costs are based upon actual material invoices and equipment rates are calculated based upon Blue Book Rental Rates in accordance with Standard Specification 1109.03, B., 2. The lump sum includes the Prime Contractor’s 10% markup in accordance with Standard Specification 1109.03, B., 3.

**D – ITEMS INCLUDED IN CONTRACT**

Change No.	Line Item Number	Unit Price .xxx	If Credit Add "CR"		Amount .xx
			Quantity .xxx		
<b>TOTAL</b>					\$

**E – ITEMS NOT INCLUDED IN CONTRACT**

Change No.	Item Description	Item Number	Function Code	Unit Price .xxx	If Credit, Add "CR"	
					Quantity .xxx	Amount .xx
8014	Reinforced Concrete Box (RCB) Extension	2599-9999010		\$17,364.460	1.000	\$17,364.46
<b>TOTAL</b>						<b>\$17,364.46</b>



Change Order

Non-Substantial:

Part  Non-Part  As Noted by Division

No. 10

Substantial:

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

Contract Accounting ID No.: 30662

County Linn

Project No: STP-A-030-7(159)-86-57

Kind of Work: PCC Pavement-Grade/Replace Date Prepared: 11/18/13

Contractor: Streb Construction Co., Inc.

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:

8015 – Add Item to Install 15” CMP Culvert (Division 4)  
The Contractor shall place a 15” CMP under the BP gas station driveway located as approximate Station 693+00 RT. The work includes the removal of a portion of the existing driveway, excavating for the placement of the pipe, placing the 15” CMP and flared end sections (FES), backfilling the trench, placing 6” of modified subbase to serve as driveway subbase and placing 6” of HMA for the driveway surface. Class D Revetment will also be placed around the outlet of the pipe/FES. The work shall be performed per the applicable sections of the Description, Materials and Construction requirements noted in Standard Specifications 2515 (Removal of Paved Driveway), 2417 (15” CMP and FES), 2402 (Pipe Backfill), 2115 (Modified Subbase), 2303 (HMA Driveway) and 2507 (Class D Revetment). Method of Measurement: The item will not be measured separately for payment. Basis of payment: Lump Sum. This payment is full compensation for all materials, equipment and labor necessary to place the 15” CMP Culvert as described.

The above change does not have an effect on contract time.

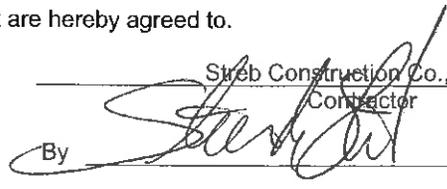
B – Reason for change or extra work:

8015 – Culvert pipe was needed to drain the surface runoff from the BP gas station. Ditch grade did not provide adequate slope to convey storm water.

Approved \_\_\_\_\_ Date \_\_\_\_\_ Project Engineer \_\_\_\_\_ Date \_\_\_\_\_  
District Local Systems Engineer

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.

By  \_\_\_\_\_  
Streb Construction Co., Inc.  
Contractor  
Date 11-22-13

Date \_\_\_\_\_ City of Mount Vernon \_\_\_\_\_ Approved \_\_\_\_\_ 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.

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

Change Order No. 10

8015 - Agreed Lump Sum - \$11,921.00

C-2 – Justification for cost(s)

8015 Price was approved by the City Engineer, therefore the installation of the culvert pipe will be in the non-participating Division 4. The lump sum price includes the prime contractor's 10% markup per Standard Specification 1109.03, B., 3.

**D – ITEMS INCLUDED IN CONTRACT**

Change No.	Line Item Number	Unit Price .xxx	If Credit Add "CR"		Amount .xx
			Quantity .xxx		
<b>TOTAL</b>					\$

**E – ITEMS NOT INCLUDED IN CONTRACT**

Change No.	Item Description	Item Number	Function Code	Unit Price .xxx	If Credit, Add "CR"	
					Quantity .xxx	Amount .xx
8015	Install 15" CMP Culvert	2599-9999010		\$11,921.00	1.000	\$11,921.00
<b>TOTAL</b>						\$11,921.00



Change Order

Non-Substantial:

Part  Non-Part  As Noted by Division

No. 11

Substantial:

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

Contract Accounting ID No.: 30662

County Linn

Project No: STP-A-030-7(159)-86-57

Kind of Work: PCC Pavement-Grade/Replace Date Prepared: 11-18-13

Contractor: Streb Construction Co., Inc.

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:

8016 - Add and item for "BRICK STAMP and COLOR" (Division #4). All work is to be performed per Standard Specification 2301. Color will be red per estimate reference notes on Plan Sheet C.03 (Item 14). Brick Stamp to be a running bond pattern. Method of Measurement: Square yards. Basis of Payment: Contract unit price per square yard. This payment is full compensation for furnishing all labor, equipment, and materials to add color to the 10" PCC Pavement as directed by the Engineer and place the brick stamp.

8017 - Add and item for "STAMPED PATTERN." (Division #4). All work is to be performed per Standard Specification 2301. Stamp pattern to be a running bond pattern. Method of Measurement: Square yards. Basis of Payment: Contract unit price per square yard. This payment is full compensation to supply the labor and equipment necessary to place the stamped pattern as directed by the Engineer.

The above change does not have an effect on contract time.

B - Reason for change or extra work:

8016 - City requested that colored stamped crosswalks be added to the 10<sup>th</sup> Avenue intersection to plan for a future trail connection.

8017 - City requested that a stamped pattern be added to the colored crosswalk at the Highway 1 intersection. The color for the crosswalk was included in the original contract documents.

Approved \_\_\_\_\_  
District Local Systems Engineer Date Project Engineer 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.

By Streb Construction Co., Inc.  
Streb Construction Co., Inc.  
Contractor  
11-22-13  
Date

Date \_\_\_\_\_  
City of Mount Vernon

Approved \_\_\_\_\_  
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.

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

Change Order No. 11

- 8016 – Agreed Unit Price
- 8017 – Agreed Unit Price

C-2 – Justification for cost(s)

8016 and 8017 - Price was approved by the City Engineer; therefore the addition of crosswalks to be stamped and colored will be in the non-participating Division 4. Price also includes the delivery of the brick stamp used to make the pattern to the City of Mount Vernon.

**D – ITEMS INCLUDED IN CONTRACT**

Change No.	Line Item Number	Unit Price .xxx	If Credit Add "CR"	Quantity .xxx	Amount .xx
<b>TOTAL</b>					\$

**E – ITEMS NOT INCLUDED IN CONTRACT**

Change No.	Item Description	Item Number	Function Code	Unit Price .xxx	If Credit, Add "CR"	Quantity .xxx	Amount .xx
8016	BRICK STAMP and COLOR	2599-9999018		\$92.750		46.400	\$4,303.60
8017	STAMPED PATTERN	2599-9999018		\$53.000		39.400	\$2,088.20
<b>TOTAL</b>							\$6,391.80



Change Order

Non-Substantial:

Part  Non-Part  As Noted by Division

No. 12

Substantial:

Concurrence Date

Contract Accounting ID No.: 30662

County Linn

Project No: STP-A-030-7(159)-86-57

Kind of Work: PCC Pavement-Grade/Replace Date Prepared: 11-18-13

Contractor: Streb Construction Co., Inc.

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:

8018 Add an item for "Subgrade Stabilization Material, Polymer Grid". (Division 3)

The above change does not have an effect on contract time.

B - Reason for change or extra work:

8018 - Subgrade stabilization material, polymer grid was needed to stabilize the subgrade where unsuitable soil was encountered under paving areas.

Approved \_\_\_\_\_ Date \_\_\_\_\_  
District Local Systems Engineer Project Engineer

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.

Streb Construction Co., Inc.  
Contractor  
By [Signature] Date 11-22-13

\_\_\_\_\_  
Date City of Mount Vernon

Approved \_\_\_\_\_ 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.

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

Change Order No. 12

8018 - Agreed Unit Price - \$3.63/ SY

C-2 – Justification for cost(s)

8018 The average and high prices shown in the June 2012 thru May 2013 IDOT Summary of Awarded Contract Prices for Subgrade Stabilization Material, polymer Grid are \$1.72/SY and \$10.25/SY. The \$3.63/SY is within those ranges, near the average, the unit price includes mobilization and the prime contractor’s 10% markup per Standard Specification 1109.03, B., 3

**D – ITEMS INCLUDED IN CONTRACT**

Change No.	Line Item Number	Unit Price .xxx	If Credit Add "CR"		Amount .xx
			Quantity .xxx	Amount	
<b>TOTAL</b>					\$

**E – ITEMS NOT INCLUDED IN CONTRACT**

Change No.	Item Description	Item Number	Function Code	Unit Price .xxx	If Credit, Add "CR"	
					Quantity .xxx	Amount .xx
8018	Subgrade Stabilization Material, Polymer Grid	2113-0001100		\$3.630	261.300	\$948.52
<b>TOTAL</b>						\$948.52



Change Order

Non-Substantial:

Part

Non-Part

As Noted by Division

No. 13

Substantial:

Concurrence Date

Contract Accounting ID No.: 30662

County Linn

Project No: STP-A-030-7(159)--86-57

Kind of Work: PCC Pavement-Grade/Replace Date Prepared: 12-2-2013

Contractor: Streb Construction Co., Inc.

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:

8019 Add an item for "Flag Assembly". (Division 4) Installation shall be per Standard Road Plan SI-131. Method of Measurement: Each. Basis of Payment: Contract unit price per each. This payment is full compensation for all equipment, labor and materials necessary to install the flag assemblies. The installation of extra hardware and brackets are incidental to this item.

The above change does not have an effect on contract time.

B - Reason for change or extra work:

8019 - Flag Assemblies (Multiple) were added to provide supplemental caution of yield signs at the roundabout approaches and the 35 mph sign on the west end of the project.

Approved \_\_\_\_\_  
District Local Systems Engineer Date Project Engineer 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.

\_\_\_\_\_  
Streb Construction Co., Inc.  
Contractor

By \_\_\_\_\_  
Date

\_\_\_\_\_  
Date City of Mount Vernon

Approved \_\_\_\_\_  
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.

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

Change Order No. 13

8019 - Agreed Unit Price - \$137.50/EA

C-2 – Justification for cost(s)

8019 - Price was approved by the City Engineer, therefore the flags will be in the non-participating Division 4. The unit price includes the prime contractor's 10% markup per Standard Specification 1109.03, B., 3.

**D – ITEMS INCLUDED IN CONTRACT**

Change No.	Line Item Number	Unit Price .xxx	If Credit Add "CR"	
			Quantity .xxx	Amount .xx
<b>TOTAL</b>				

**E – ITEMS NOT INCLUDED IN CONTRACT**

Change No.	Item Description	Item Number	Function Code	Unit Price .xxx	If Credit, Add "CR"	
					Quantity .xxx	Amount .xx
8019	Flag Assembly	2599-9999005		\$137.500	8.000	\$1,100.00
<b>TOTAL</b>						\$1,100.00