



## **Agenda Commentary**

**Item Title/ Subject:** Change Order #1 – Clinton Regional Airport

**Staff Source:** City Clerk Lisa Anders

**History/Background Information:** Circle S Paving was awarded the bid for the reconstruction of the Hangar Aprons at Clinton Regional Airport. The project consists of installing storm sewer and new asphalt aprons adjacent to the T-hangars.

**Item/Subject Summary:** Due to unforeseen soil conditions, a change order is required for additional work as approved by Hinderliter Geotechnical Engineers. The change order increases the contract amount by \$25,210.50.

**Price/Cost:** The City's portion of the project is 10%.

**Recommendation:** Approval of Change Order #1 with Circle S Paving Company

**CHANGE ORDER**

Project: Reconstruct Hangar Aprons AIP 3-40-0021-011-2012	Change Order No. 1
Project Description: Install Storm Sewer, Construct New Asphalt Aprons adjacent to T-Hangars	
Requested Changes & Reasons: Partial Recapitulation of Quantities and Addition of Stabilization Efforts for Unsuitable Soil.	
LOCATION: Clinton Regional Airport	

The above will necessitate the following changes in quantities and estimates, which will be shown as overruns and underruns on future progressive estimates and vouchers.

Item	Description	Quantity	Unit Price \$	Amount \$	Days Req'd
17	Undercut subgrade 3' to 4' deep as required, mix in limestone screenings to achieve drying, replace and compact material in 8" lifts, all per geotechnical recommendation letter.	5507 CY	8.50	46,809.50	10 W
	Partial Recapitulation of Quantities (see attached)			-21,599.00	
	<b>Total this Change Order</b>			<b>+\$25,210.50</b>	<b>10 W</b>
	<b>Existing Contract</b>			<b>\$353,881.30</b>	<b>35 W</b>
	<b>New Contract</b>			<b>\$379,091.80</b>	<b>45 W</b>

The prices for additional items have been compared with other contract prices and are fair for the amount of work involved.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Cobb Engineering Company

Approved by the City of Clinton this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Allen Bryson, Mayor

We, Circle S Paving Co., Inc. contractor on the above project, do hereby agree to a net increase in the contract of \$ 25,210.50 and 10 working days as full compensation for making the above changes in accordance with the governing specifications.

Circle S Paving Co., Inc.  
\_\_\_\_\_  
Gary Perkins, General Manager

Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

My Commission Expires: \_\_\_\_\_  
\_\_\_\_\_  
Notary Public

## Change Order No. 1

**Circle S Paving Company, Inc.**

Reconstruct Hangar Aprons  
 AIP Project 3-40-0021-011-2012  
 Clinton Regional Airport

Item		Description		Original Contract			Change Order No. 1		Revised Contract	
				Quantity	Unit Price \$	Amount \$	Quantity	Amount \$	Quantity	Amount \$
<b>Base Bid</b>										
1		Mobilization	1	LS	3,000.00	3,000.00	-	0.00	1	3,000.00
2		Low-Profile Flag and Flasher Barricades	1	LS	1,200.00	1,200.00	-	0.00	1	1,200.00
3		Construction Staking	1	LS	4,000.00	4,000.00	-	0.00	1	4,000.00
4		Temporary Erosion Control	1	LS	3,500.00	3,500.00	-	0.00	1	3,500.00
5		Asphalt Pavement Removal	8600	SY	2.00	17,200.00	(1,028)	-2,056.00	7,572	15,144.00
6		Remove and Replace Topsoil	1	LS	2,500.00	2,500.00	-	0.00	1	2,500.00
7		Unclassified Excavation	1	LS	2,000.00	2,000.00	-	0.00	1	2,000.00
8		Install 18" RCP	271	LF	44.90	12,167.90	-	0.00	271	12,167.90
9		Install Single Grate Inlet	2	EA	1,200.00	2,400.00	-	0.00	2	2,400.00
10		Triaxial Geogrid	9100	SY	5.00	45,500.00	(560)	-2,800.00	8,540	42,700.00
11		6" Crushed Aggregate	9100	SY	10.00	91,000.00	(560)	-5,600.00	8,540	85,400.00
12		Prime Coat	4548	Gal	3.80	17,282.40	(1,148)	-4,362.40	3,400	12,920.00
13		3" P-403 Asphalt	1550	TON	90.00	139,500.00	(75.34)	-6,780.60	1,475	132,719.40
14		Reflective Marking	550	SF	2.50	1,375.00	-	0.00	550	1,375.00
15		Solid Slab Sodding & Watering Until Established	4,020	SY	2.80	11,256.00	-	0.00	4,020	11,256.00
16		Third Party Insurance	1	LS	-	0.00	-	0.00	1.00	0.00
17		Soil Stabilization	0	CY	8.50	0.00	5,507.00	46,809.50	5,507.00	46,809.50
<b>TOTAL BASE BID</b>						<b>\$353,881.30</b>		<b>\$25,210.50</b>		<b>\$379,091.80</b>

Original Contract	\$353,881.30
Revised Contract	<u>\$379,091.80</u>
Increase	\$25,210.50

# HINDERLITER

GEOTECHNICAL ENGINEERING

October 23, 2012

Cobb Engineering Company  
Mr. Toby Baker, P.E.  
4516 NW 36<sup>th</sup> Street  
Oklahoma City, OK 73122

Re: Test Pit Excavation  
Regional Airport  
Clinton, Oklahoma  
HGE Project No: CB-11-02

Dear Mr. Baker:

As requested, an HGE engineer made a visit to the site referenced above on October 19, 2012 to evaluate soft subgrade conditions surrounding the existing south hangar. The City of Clinton provided a backhoe and operator and Circle S Paving provided a loaded, tandem-axle dump truck.

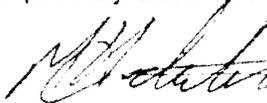
The area between the two south hangars was proofrolled using the dump truck. Two large areas of pumping subgrade were observed during the proofroll operations. Test pits were excavated into the areas where the pumping subgrade was observed. This procedure was repeated on both the southeast and southwest sides of the south hangar.

The HGE engineer evaluated the exposed subgrade conditions visually and with a t-probe. A soft zone of dark brown clay soils with an organic odor was observed within the test pits. The soft zone appeared to be very moist. Immediately below the dark brown soil was a dark red clay soil that appeared to be very firm. It appears that the dark red clay soil is the native soil and this soil appears to have very low permeability characteristics. The soft dark brown soils above appear to be fill materials with much higher permeability characteristics. It appears subgrade moisture is being trapped within the soft dark brown soils resulting in pumping subgrade conditions during construction.

The bottom of the soft dark brown clays appear to extend to depths varying from approximately 30 inches to 46 inches. These soils should be excavated and allowed to dry. To facilitate drying of these soils, locally available limestone screenings could be mixed with the excavated soils. The soils can then be replaced in loose lifts not exceeding 9 inches in thickness and compacted to at least 95 percent of the mixtures maximum dry density per test method ASTM D 698. Each lift should be tested and approved prior to the addition of subsequent lifts.

Mr. Baker, we appreciate the opportunity to remain involved with this project. Please do not hesitate to call us if you have other questions or comments concerning this project.

Respectfully Submitted:



Mark H. Hinderliter, P.E.  
Geotechnical Engineer



PHONE 580/323-0514  
FAX 580/323-5681

PO BOX 81

## CIRCLE S PAVING COMPANY, INC.

ASPHALT MATERIAL • ASPHALT PAVING  
CLINTON, OKLAHOMA 73601

*AN EQUAL OPPORTUNITY EMPLOYER*

November 12, 2012

Cobb Engineering  
Toby Baker  
4516 NW 36<sup>th</sup> St.  
Okla. City, OK 73122-2426

RE: Clinton Airport additional work to stabilize sub grade

Sir:

Undercut, dry, replace and compact existing material

5507 Cu Yds.            @ \$8.50 per yd            \$46,809.50

Thank you,

Gary Perkins