



PUBLIC DOCUMENT  
INDEX No.  
**# 9 3 4 7 7**  
CITY CLERK'S OFFICE  
MUSCATINE, IOWA

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**COMMUNITY DEVELOPMENT**

**MEMORANDUM**

Planning,  
Zoning,  
Building Safety,  
Construction Inspection Services,  
Public Health,  
Housing Inspections,  
Code Enforcement

**To:** Mayor and City Council Members  
**Cc:** Gregg Mandsager, City Administrator  
Dave Gobin, Community Development Director  
**From:** Adam Thompson, Community Development Coordinator  
**Date:** May 18, 2016  
**Re:** Airport Runway 6/24 Reconstruction Project – Change Order #1

**Introduction & Background:** This Change Order is written to cover the costs of additional work to be performed by the Manatts to crush and process asphalt millings and broken concrete into special backfill and P-219 modified subbase respectively. The pavement thicknesses are thicker than anticipated resulting in more material being removed and a lower subbase. In order to achieve proper runway grade more material is needed. The additional P-219 modified subbase will be used to fill where needed to achieve the grade necessary. The special backfill material will be used to rehabilitate airport access roads.

The costs the contractor anticipates to incur based on the estimate of material for the execution of the Change Order are as follows:

- Special Backfill Material: \$ 114,000.00
- P-219 Modified Subbase: \$ 26,775.00
- Total \$ 140,775.00

Change No.	Item Description	Unit Price	Quantity	Amount
8000-001A	Crushing broken PCC to create P-219 modified subbase material	\$4.75	24,000 ton	\$114,000.00
8000-001B	Crushing asphalt millings to create special backfill	\$5.95	4,500 ton	\$26,775.00

The FAA will fund 90% (126,697.50) of the change order with the local match of 10% (\$14,075.50) funded by the City of Muscatine.

Design engineer first prepared a cost opinion of the additional work and with that a rate was negotiated with Manatts. The memo from Anderson Bogert is attached. This is no change in contract working days for this change order. No additional mobilization cost.

**RECOMMENDATION/RATIONALE:** It is recommended that City Council approve change order

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

**#1 related to the Runway 6/24 Reconstruction project, contingent upon FAA approval.**

- 1. Change Order #1**



4001 River Ridge Drive NE  
Cedar Rapids, IA 52402  
Office: (319) 377-4629  
Fax: (319) 377-8498

May 12, 2016

Adam Thompson, Community Development Coordinator  
City of Muscatine  
215 Sycamore St.  
Muscatine, IA 52761

**RE: MUSCATINE MUNICIPAL AIRPORT  
RECONSTRUCT RUNWAY 6/24 AND ASSOCIATED TAXIWAYS  
FAA AIP PROJECT NUMBER: 3-19-0063-020  
ENGINEER'S INDEPENDENT COST OPINION - CHANGE ORDER #1**

Dear Mr. Thompson:

Per the City's request, Anderson Bogert has prepared the following independent cost opinion for the work involved with Change Order #1.

According to your May 12, 2016 e-mail, the City is estimating 24,000 tons of asphalt millings and 4,500 tons of additional concrete crushing.

In determining an estimated unit price for the processing of the removed pavement, we first looked to the Iowa DOT BidExpress Bid Tab Analysis. However, the Iowa DOT does not have standard bid items that exactly match these two items of work.

Therefore, we requested independent cost estimates from the following two contractors not working on the project: C.J. Moyna & Sons, Inc. and Reilly Construction Co., Inc. The following two tables summarize the unit prices received from these two companies, along with unit prices provided by the City.

Source	ACC Unit Price
City	\$4.95
CJ Moyna	\$5.39
Reilly Construction	\$3.30
<b>Average</b>	<b>\$4.54</b>

Mr. Adam Thompson  
May 12, 2016  
Page 2

<b>Source</b>	<b>PCC Unit Price</b>
City	\$6.04
CJ Moyna	\$12.86
Reilly Construction	\$4.40
<b>Average</b>	<b>\$7.77</b>

We used the above two unit price averages in our overall independent cost opinion, which can be see below.

<b>Item</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Total</b>
Crush runway ACC millings to IDOT special backfill gradation	24,000	Tons	\$4.54	\$108,960.00
Crush broken PCC to IDOT modified subbase gradation	4,500	Tons	\$7.77	\$34,965.00
<b>TOTAL</b>				<b>\$143,925.00</b>

Please let us know if you have any questions or need any additional information.

Sincerely,

Jayne C. DeCoste, P.E.  
Project Manager





Iowa Department of Transportation

Change Order

Non-Substantial:

Part

Non-Part

No. 001

Substantial:

Concurrence Date

Contract Accounting ID No.: \_\_\_\_\_

County Muscatine

Project No: 3-19-0063-020

Kind of Work: Crushing ACC Millings and Broken PCC

Date Prepared: May 18, 2016

Contractor: Manatts, 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:

This Change Order is written to cover the costs of additional work to be performed by the Manatts to crush and process asphalt millings into Iowa DOT special backfill material and broken concrete into FAA P-219 recycled concrete aggregate base course material.

B - Reason for change or extra work:

The existing pavement thicknesses are thicker than anticipated, resulting in more material being removed and a lower subbase elevation. In order to achieve proper runway grade, more fill material is needed. The additional FAA P-219 recycled concrete aggregate base course material will be used to fill where needed to achieve the grade necessary. The special backfill material will be used to rehabilitate airport access roads.

(Continued on reverse side)

Approved \_\_\_\_\_  
Design Engineer Date

City Engineer

5-23-2016  
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.

\_\_\_\_\_  
Contractor

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

Approved   
Airport Administrator Date

\_\_\_\_\_  
Date FAA - Project Manager

City

Accounting ID No. 

1	2	3	4	5	6

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

Change Order No. 001

The costs the contractor anticipates to incur for the execution of this Change Order are as follows:

- Special Backfill Material: \$ 114,000.00
- P-219 Modified Subbase \$ 26,775.00

The Contractor expects NO CHANGE in Contract working days for this change order. No additional mobilization cost.

C-2 – Justification for cost(s) Design engineer first prepared an independent cost opinion of the additional work and with that rates were negotiated with Manatts. The letter from Anderson Bogert is attached.

**D – ITEMS INCLUDED IN CONTRACT**

Change No.	Line Item Number	Unit Price .xxx	If Credit Add "CR"	
			Quantity .xxx	Amount .xx
7	NONE			
7				
7				
7				
7				
7				
7				
7				
<b>TOTAL</b>				\$0.00

**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
8000-001A	Crushing broken PCC to create FAA P-219 recycled concrete base course material			\$4.75	24,000 ton	\$114,000.00
8000-001B	Crushing asphalt millings to create Iowa DOT special backfill material			\$5.95	4,500 ton	\$26,775.00
8						
8						
8						
8						
8						
<b>TOTAL</b>						\$140,775.00