

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: January 1, 2016

Re: Airport Electrical Upgrade Project - IDOT Project No. 9I160MUT100 –
Request to approve change order #1.

Introduction & Background: The City of Muscatine received funding from the Iowa DOT to upgrade airport runway electrical. The City of Muscatine continues to utilize Anderson-Bogert Engineers & Surveyors, Inc, for design and consultant services at the Muscatine Municipal Airport. On November 19, 2015, City Council approved plans, specifications, form of contract, cost estimate and established December 10, 2015 as the bid opening date. One bid was received from Voltmer, Inc.

The grant award allocated \$60,000 for construction. The bid from Voltmer was for \$39,269, below the engineers estimate by \$20,731. City staff has worked with the Engineer and Voltmer to identify additional work items to be completed in an attempt to use the full grant award. A change order has been submitted by Voltmer Inc. in the amount of \$11,715 to complete addition improvements. This leaves \$9,016 as a buffer for any cost overruns or additional change orders.

Please see the attached charge order to review the additional work items and the justification for the additional improvements

The improvements will all be completed before the start of the Runway Reconstruction project on April 18th.

RECOMMENDATION/RATIONALE: It is recommended that City Council approve change order #1 related to the airport electrical upgrade project.

1. Change Order

CHANGE OR EXTRA WORK ORDER

No. 1

Project No. 91160MUT100 **County** Muscatine
Project Name Muscatine Municipal Airport – Upgrade Airport Electrical System
Kind of Work Electrical **Date Prepared** 2-19-2016
Contractor Voltmer Inc.

You are hereby ordered to make the following changes from the plans or do the following extra work on your contract dated December 17, 2015.

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

1. Testing of Runway 12/30 Circuit
2. Testing of Taxiway B Circuit
3. Install Buck Boost Transformer
4. Replace Contactor
5. Install Series Cut Outs
6. Mobilization
7. Replace Transformers
8. Replace Connectors

B. - Reason for ordering change or extra work:

- 1 & 2. Testing of Runway 12/30 and Taxiway B circuits to identify additional electrical issues that are in need of long term solutions, in order to achieve a more reliable electrical system with fewer shut downs, which will increase safety at the airport.
3. Install Buck Boost Transformer to make adjustments in voltage applied to the Runway 12/30 electrical equipment, if a voltage drop is identified during testing.
4. Replace Contactor - This contactor has been continually burning-out and has been subsequently replaced by the airport manager several times over the last several years. The contactor will be replaced with a higher quality, longer lasting contactor.
5. Install Series Cut Outs externally to the four regulators in the vault building. These cutouts will be mounted to the vault building walls and will safely isolate each series circuit from its constant current regulator during all future maintenance and testing operations, which will simplify future troubleshooting of circuit issues. The cutouts will also allow periodic insulation resistance measurement of each series circuit to ground, without disconnecting the series cable.
6. Mobilization - This item will only be needed if there is a gap in time between when the original bid items are completed and when the parts arrive that were identified for replacement during the testing phase.
- 7 & 8. Replace Transformers and Connectors - each Runway 12/30 sign and edge light assembly contain a transformer and connector kit. Defective transformers and connectors identified during the testing phase will be replaced, as the budget allows.

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

Items 1-6 Addition of \$8,215.00

Items 7-8 Not-to-Exceed \$3,500.00

Total Not-to-Exceed \$11,715.00

D - Add To Items Included In Contract

ITEM NO.	ITEM DESCRIPTION	UNIT PRICE	ADD QUANTITY	ADD AMOUNT
	NONE			\$0.00
SUBTOTAL				\$0.00

E - Deduct From Items Included In Contract

ITEM NO.	ITEM DESCRIPTION	UNIT PRICE	DEDUCT QUANTITY	DEDUCT AMOUNT
	NONE			\$0.00
DEDUCT SUBTOTAL				\$0.00

F - Additional Items To Contract

ITEM NO.	ITEM DESCRIPTION	UNIT PRICE	ADD QUANTITY	ADD AMOUNT
1.	TEST RUNWAY 12/30 CIRCUIT	\$2,000.00	1 LS	\$2,000.00
2.	TEST TAXIWAY B	\$2,000.00	1 LS	\$2,000.00
3.	PROVIDE/INSTALL BUCK BOOST TRANSFORMER	\$600.00	1 LS	\$600.00
4.	REMOVE AND REPLACE CONTACTOR	\$635.00	1 LS	\$635.00
5.	PROVIDE/INSTALL SERIES CUTOUPS	\$620.00	4 EA	\$2,480.00
6.	MOBILIZATION	\$500.00	1 LS	\$500.00
ADD SUBTOTAL				\$8,215.00

ITEM NO.	ITEM DESCRIPTION	UNIT PRICE	ADD QUANTITY	ADD AMOUNT
7.	REMOVE AND REPLACE TRANSFORMER	\$300.00/EACH	TBD*	TBD*
8.	REMOVE AND REPLACE CONNECTOR	\$150.00/EACH	TBD*	TBD*
NOT-TO EXCEED SUBTOTAL				\$3,500.00

TOTAL NOT-TO-EXCEED = \$11,715.00

*TBD = TO BE DETERMINED AFTER TESTING IS COMPLETE.

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 Contractor additional funds being made available by a modified project agreement.

2/23/16

Date

Jayne C DeCato

Engineer

Voltmer, Inc.

[Signature]

Contractor

By Gerard Voltmer

Date 2/22/16

Approved Date _____

By _____

Resolution # _____