

**BIDDING AND CONTRACT DOCUMENTS**  
**ADDENDUM NUMBER ONE**  
**MoDOT PROJECT NO. 14-017A-1**

DATE: JULY 9, 2016

HIGGINSVILLE INDUSTRIAL MUNICIPAL AIRPORT

CRAWFORD, MURPHY, TILLY, INC.  
ONE MEMORIAL DRIVE, SUITE 500  
SAINT LOUIS, MISSOURI 63102



TO: ALL PLANHOLDERS AND POTENTIAL BIDDERS

SUBJECT: ADDENDUM NUMBER ONE TO THE BIDDING DOCUMENTS FOR:  
CONSTRUCT HANGAR TAXILANE;  
CRACK SEAL, SEAL COAT & REMARK PAVEMENTS

This addendum forms a part of the bidding and contract documents, and modifies the original bidding documents dated June 21, 2016. This addendum must be signed on the last page and included with the submitted Bid Package. An acknowledgement sheet is also attached. This must be signed and returned to Crawford, Murphy, & Tilly, Inc via fax or mail by July 12, 2016. FAILURE TO NOT RECOGNIZE THE ADDENDUM ON THE BID FORM MAY SUBJECT THE BIDDER TO DISQUALIFICATION.

The Contract Documents are revised as follows:

**CONTRACT PROPOSAL:**

**Page 213, PROPOSAL FORM**

REPLACE this page with page 213A.

**Appendix C – Soil Boring Logs**

ADD to the end of Appendix C the attached Test Boring Location Plan exhibit dated August 17, 2011 and Page 4 from the Geotechnical Report prepared by Allstate Consultants (Project No. 11178.01).

**PLANS**

**Sheet 2 of 22**

REPLACE this sheet with Sheet 2, Revision 1.

**Sheet 10 of 22**

For Typical Section- Additive Alternate 2 detail, DELETE the words "(2 LIFTS)" from the 6" CRUSHED AGGREGATE BASE COURSE (MO-209) callout.

**CLARIFICATION:**

The pavement thickness from a 2011 apron reconstruction project located adjacent to the pavement to be removed is being included for informational purposes. Based on the surface of the pavement to be removed and the surface of the old apron pavement, it is anticipated that the pavement to be removed has a different structure than the old apron pavement.

The revised Proposal Form page can be inserted into the contract book binding or stapled over the top of the existing Page 213.

CRAWFORD, MURPHY & TILLY, INC.

**This Addendum consists of 2 pages plus a fax transmittal sheet, a revised Proposal Form, a revised Plan Sheet 2 of 22, page 4 from an old geotechnical report, and a boring location plan from an old geotechnical report.**

\_\_\_\_\_  
Signed  
(Contractor)

\_\_\_\_\_  
Date

Contractor to sign and date this Addendum #2 to acknowledge receipt. This signed Addendum must be included with the submitted Bid Package.

# **FAX TRANSMITTAL**

To: Crawford, Murphy & Tilly, Inc

Attention: **Brian Garkie**

Re: Addendum #2

Fax 314.436.0723

From:

(name)

---

(company)

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Date:

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To verify that all contractors are in receipt of this addendum, Contractors are asked to sign and date this acknowledgement sheet. The Contractor should fax, mail or e-mail to Crawford, Murphy, & Tilly, Inc. at the number listed below by **July 12, 2016**.

Crawford, Murphy, & Tilly, Inc.  
One Memorial Drive, Suite 500  
Saint Louis, Missouri 63102

Fax: (314) 436-0723  
Phone: (314) 436-5500  
E-Mail: bgarkie@cmtengr.com

BY: CRAWFORD, MURPHY, & TILLY, INC.

**PROPOSAL FORM**  
**CITY OF HIGGINSVILLE, MISSOURI**  
 State Block Grant Project No. 14-017A-1

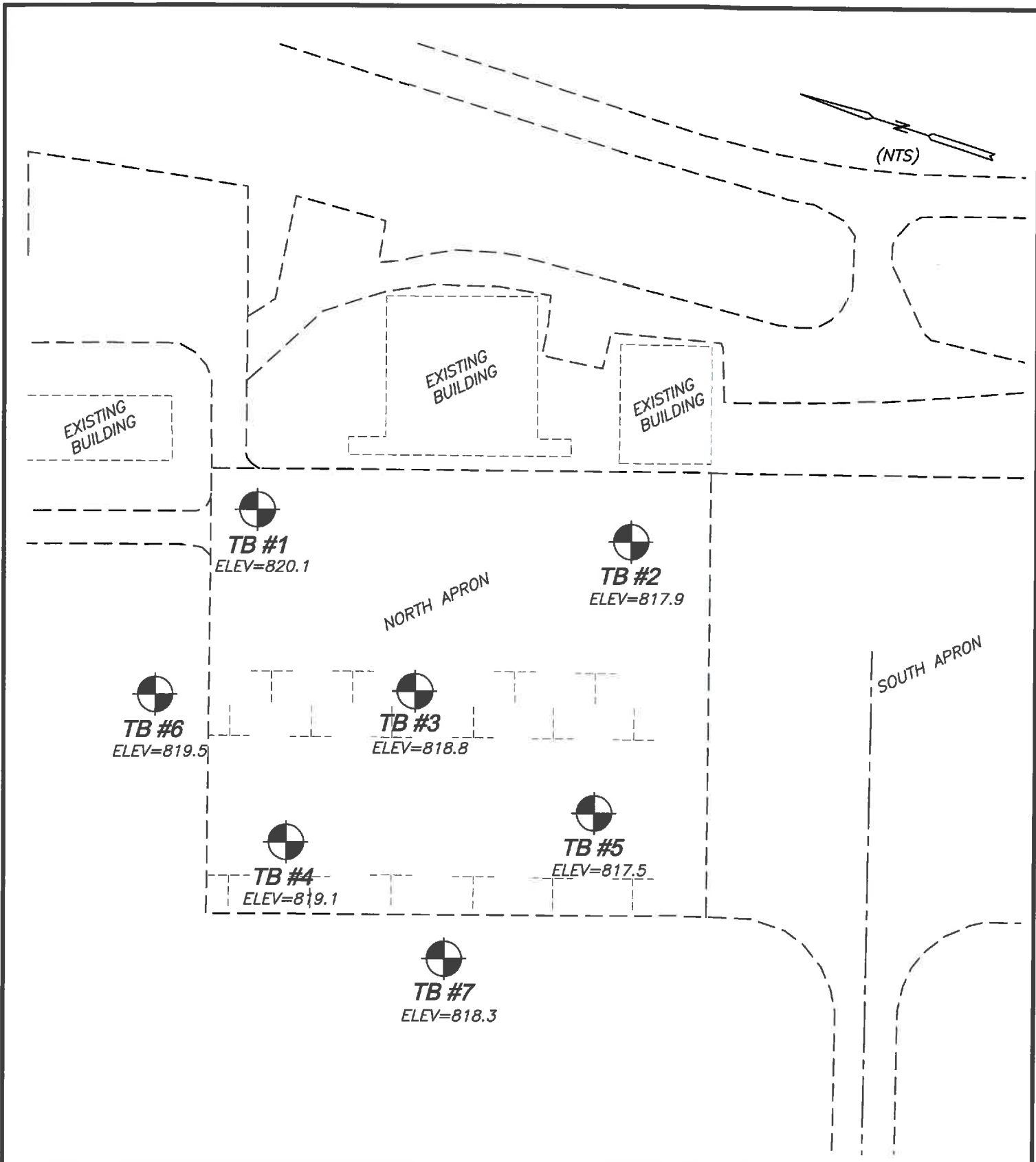
TO: Economic Development Director

The undersigned, in compliance with the request for bids for construction of the following Project:

**BASE BID: CONSTRUCT HANGAR TAXILANE; CRACK SEAL, SEAL COAT & REMARK PAVEMENTS;**  
**ADDITIVE ALTERNATE #1: BITUMINOUS PAVING; ADDITIVE ALTERNATE #2: PCC PAVING;**

hereby proposes to furnish all labor, permits, material, machinery, tools, supplies and equipment to faithfully perform all work required for construction of the Project in accordance with the project manual, project drawings and issued Addenda within the specified time of performance for the following prices:

BASE BID								
BID ITEM	FAA or MoDOT SPEC.	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		EXTENSION		
				DOLLARS	CTS	DOLLARS	CTS	
1	MO-100-4.1	Mobilization	1 Lump Sum					
2	MO-152-4.1	Class A Excavation	1 Lump Sum					
3	MO-156-4.5.1	Silt Dike Ditch Checks	3 Each					
4	MO-156-9.5.1	Erosion Control Blanket	374 S.Y.					
5	MO-209-5.1	6" Crushed Aggregate Base Course	2,491 S.Y.					
6	MO-601-5.1	Pavement Removal	408 S.Y.					
7	MO-620-5.1	Airport Runway Pavement Marking (White)	25,200 S.F.					
8	MO-620-5.2	Airport Taxiway Pavement Marking (Yellow)	3,560 S.F.					
9	MO-620-5.3	Airport Pavement Marking Removal	28,760 S.F.					
10	MO-622-5.1	Crack and Joint Sealing (MO-622)	16,285 L.F.					
11	MO-623-5.1	Pavement Friction Sealcoat Surface Treatment	65,800 S.Y.					
12	D-705-5.1	6" Perforated Pipe for Underdrain	134 L.F.					
13	MO-901-5.1	Airport Seeding	0.5 Acre					
14	T-904-5.1	Sodding	506 S.Y.					
15	MO-908-5.1	Airport Mulching	0.5 Acre					
<b>TOTAL BID (Base Bid)</b>								



PREPARED BY:



**ALLSTATE  
CONSULTANTS**

3312 LEMONE INDUSTRIAL BLVD.  
COLUMBIA, MISSOURI 65201  
phone (573) 875-8799  
fax (573) 875-8850

DATE: AUGUST 17, 2011

NO SCALE

**TEST BORING LOCATION PLAN  
HIGGINSVILLE INDUSTRIAL  
MUNICIPAL AIRPORT  
HIGGINSVILLE, MISSOURI**

DRAWN BY:  
C.C.M.

PROJECT MGR:  
W.A.B.

PROJECT NUMBER:  
11178.01

## SUBSURFACE CONDITIONS

Subsurface conditions encountered at the individual boring locations are indicated on the Test Boring Logs. Stratification lines shown on these logs represent approximate boundaries between soil and rock types. In-situ, the change between material types may be more gradual. Based on a review of the Test Boring Logs, subsurface conditions at the project site can be characterized as follows:

### Existing Pavement Conditions

The following table illustrates the thickness of asphalt cores obtained from each of the pavement borings.

Table 1: Asphalt core thickness measured at the north apron test boring locations.

Test Boring #	Pavement Thickness (in)
TB-1.....	1.91
TB-2.....	1.91
TB-3.....	2.09
TB-4.....	2.16
TB-5.....	2.44

**Overall Average Pavement Thickness.... 2.10 inches**

The asphalt surfacing was underlain by 12 to 17 inches of crushed limestone that appeared to contain silt and clay fines.

### Soil and Rock Conditions

The project site lies within the Deep Loess Hills Region of the Central Dissected Till Plains in Missouri. Generalized geologic maps of the area indicate the surficial soils in this physiographic region typically consist of relatively thick, glacial and post glacial deposits overlying Pennsylvanian aged limestone and shale.

Borings TB-1 through TB-5 penetrated the pavement section and encountered post glacial soils and Pennsylvanian rock extending to depths of 15 feet beneath the existing pavement surface where exploration was terminated as requested. TB-1 through TB-5 generally penetrated medium to stiff, lean clay, lean to fat clay, and fat clay soils to depths of 5.5 to 13 feet. Beneath these post glacial surficial soils, the borings encountered weathered shale that extended to boring completion. Shallow borings, TB-

REVISIONS		
NUMBER	BY	DATE
△	BWG	7/9/2016

0 1 2  
THIS BAR IS EQUAL TO 2'  
AT FULL SCALE (34X22).  
PLOT 1

## SUMMARY OF QUANTITIES

### BASE BID

ITEM #	DESCRIPTION	UNIT	QUANTITY
MO-100-4.1	MOBILIZATION	LS	1
MO-152-4.1	CLASS A EXCAVATION	LS	1
MO-156-4.5.1	SILT DIKE DITCH CHECK	EA	3
MO-156-9.5.1	EROSION CONTROL BLANKET	SY	374
MO-209-5.1	6" CRUSHED AGGREGATE BASE COURSE	SY	2,491
MO-601-5.1	PAVEMENT REMOVAL	SY	408
MO-620-5.1	AIRPORT RUNWAY PAVEMENT MARKING (WHITE)	SF	25,200
MO-620-5.2	AIRPORT TAXIWAY PAVEMENT MARKING (YELLOW)	SF	3,560
MO-620-5.3	PAVEMENT MARKING REMOVAL	SF	28,760
MO-622-5.1	CRACK AND JOINT SEALING (MO-622)	LF	16,285
MO-623-5.1	PAVEMENT FRICTION SEALCOAT SURFACE TREATMENT	SY	65,800
D-705-5.1	6" PERFORATED PIPE FOR UNDERDRAIN	LF	134
MO-901-5.1	AIRPORT SEEDING	AC	0.5
T-904-5.1	SODDING	SY	506
MO-908-5.1	AIRPORT MULCHING	AC	0.5

### ADDITIVE ALTERNATE #1

ITEM #	DESCRIPTION	UNIT	QUANTITY
MO-209-5.2	2" ADDITIONAL CRUSHED AGGREGATE BASE COURSE	SY	2,491
MO-401F-8.1	MINERAL AGGREGATE (BP-1 MIX)	TON	511
MO-401F-8.2	ASPHALT CEMENT (BP-1 MIX)	TON	27.0

### ADDITIVE ALTERNATE #2

ITEM #	DESCRIPTION	UNIT	QUANTITY
MO-502-15.1	6" PORTLAND CEMENT CONCRETE PAVEMENT	SY	2,338

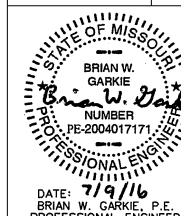
### EARTHWORK SUMMARY

CUT = 327 CY  
FILL = 413 CY

- EARTHWORK AMOUNT IS TAKEN FROM THE DIFFERENCE BETWEEN THE EXISTING AND PROPOSED SURFACE AND DOES NOT FACTOR IN PAVEMENT REMOVAL OR THE VOLUME OF NEW PAVEMENT.
- THE EXISTING GROUND IS CONSTANTLY CHANGING DUE TO EXISTING CONSTRUCTION FOR THE HANGAR BUILDING AND MAY BE DIFFERENT THAN WHAT IS SHOWN ON THE PLANS. THERE SHALL BE NO ADDITIONAL COMPENSATION ALLOWED FOR DIFFERENCES BETWEEN THE EXISTING GROUND SHOWN ON THE PLANS AND THE EXISTING GROUND ENCOUNTERED IN THE FIELD.

**HIGGINSVILLE MUNICIPAL AIRPORT  
HIGGINSVILLE, MISSOURI  
LAFAYETTE COUNTY**

**CONSTRUCT HANGAR TAXILANE;  
CRACK SEAL, SEAL COAT &  
REMARK PAVEMENTS**



DATE: 7/9/16  
BRIAN W. GARKIE, P.E.  
PROFESSIONAL ENGINEER

**CMT**  
211 NW EXECUTIVE WAY  
SUITE H  
LEE'S SUMMIT, MO 64063  
(314) 436-5500  
**CRAWFORD MURPHY & TILLY, INC.**  
ENGINEERS & CONSULTANTS  
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PROFESSIONAL ENGINEERING - 000631

THE PROFESSIONAL ENGINEER'S SEAL AND SIGNATURE SHALL BE AFFIXED TO ALL CONTRACT DOCUMENTS AND SHALL BE VALID ONLY IF THE PROFESSIONAL ENGINEER HAS ASSUMED RESPONSIBILITY TO ONLY A WORK CAPABLE CONTRACTOR. THIS SEAL AND SIGNATURE SHALL NOT BE USED FOR ANY OTHER PURPOSES OR IN ANY OTHER MANNER WITHOUT THE WRITTEN CONSENT OF THE PROFESSIONAL ENGINEER. THIS SEAL AND SIGNATURE SHALL BE VALID ONLY IF THE PROFESSIONAL ENGINEER HAS ASSUMED RESPONSIBILITY TO ONLY A WORK CAPABLE CONTRACTOR.

**MoDOT PROJECT NO. 14-017A-1**

FILE: 02\_QUANTITIES.dwg

DESIGN BY: BWG

DRAWN BY: TJK

CHECKED BY: TCS

APPROVED BY: BWG

DATE: JUNE 21, 2016

JOB No: 14452-01

**SUMMARY OF  
QUANTITIES**