Airport Name: Joplin Regional Airport

Project No.:

County: Jasper

AVIATION PROJECT CONSULTANT SUPPLEMENTAL AGREEMENT NO. 1
CONSTRUCTION SERVICES

THIS SUPPLEMENTAL AGREEMENT NO. 1 for Construction Services is entered into by the City of **Joplin, Missouri** (hereinafter, "Sponsor") and **Crawford, Murphy & Tilly, Inc.** (hereinafter, "Consultant").

WITNESSETH:

WHEREAS, the Sponsor and the Consultant entered into an Agreement on , to accomplish a project at the **Joplin Regional** Airport, (hereinafter, "Original Agreement"); and

WHEREAS, the Sponsor and the Consultant now desire to enter into Supplemental Agreement No. 1 to otherwise complete, extend or continue the Original Agreement as provided herein.

NOW, THEREFORE, in consideration of the mutual promises, covenants, and representations contained herein the parties agree as follows:

(1) SCOPE OF SERVICES:

(A) The Services to be provided by the Consultant under Supplemental Agreement No. 1 are additional services which are beyond the scope of services provided in the Original Agreement. These additional professional services are generally described and defined in Section (16)(State) or (17)(Federal) of the Original Agreement and Exhibit II - SA1, which is attached hereto and incorporated herein by reference.

(2) FEES AND PAYMENTS:

(A) The Consultant shall be reimbursed in accordance with Section (8)(State) or (9)(Federal) of the Original Agreement.

(B) The costs of Supplemental Agreement No. 1 shall be in addition to the cost of the Original Agreement.

(C) The lump sum fee and maximum amount payable included in Section (9) of the Original Agreement shall remain the same as follows:

Design & Bidding Phase Services			
	ORIGINAL AMOUNT	SUPPLEMENTAL AGREEMENT NO. 1	TOTAL
Lump Sum	$78,771.60	$0.00	$78,771.60
Max. Fee Payable	$89,842.40	$0.00	$89,842.40

(D) For and in consideration of the Construction Phase Administration Services rendered by Consultant, Owner shall pay Consultant direct salaries, overhead, direct expenses, and subconsultant fees as specified in Section (9) of the Original Agreement plus a fixed fee of **$4,629.24** for a total not to exceed amount of **$89,835.32**

Construction Phase Services			
	ORIGINAL AMOUNT	SUPPLEMENTAL AGREEMENT NO. 1	TOTAL
Fixed Fee	$0.00	$4,629.24	$4,629.24
Max. Fee Payable	$0.00	$89,835.32	$89,835.32

(E) Estimated costs for the services in Supplemental Agreement No. 1 are defined in Exhibit IV - SA1 and Exhibit V - SA1, which are attached hereto and incorporated herein by reference.

(3) PERIOD OF SERVICE: Exhibit VI, Performance Schedule, of the Original Agreement is hereby revised to include time for the performance of these additional services. The total time to be added to Exhibit VI for completion of these additional services shall be 45 calendar days after final acceptance. The projected completion date shown on Exhibit VI is now revised to 45 days after final acceptance, which includes time for performance of all remaining services in the Original Agreement and the services in Supplemental Agreement No. 1 and submittal of all deliverables.

(4) DISADVANTAGED BUSINESS ENTERPRISE (DBE) REQUIREMENTS:

(A) DBE Goal: The following DBE goal has been established for this Supplemental Agreement No. 1. The dollar value of services and related equipment, supplies, and materials used in furtherance thereof which is credited toward this goal will be based on the amount actually paid to DBE firms. The goal for the percentage of services to be awarded to DBE firms is 0% of the total Supplemental Agreement No. 1 dollar value.

(B) DBE Participation Obtained by Consultant: The Consultant has obtained DBE participation, and agrees to use DBE firms to complete 0% of the total services to be performed under this Supplemental Agreement No. 1 by dollar value. The DBE firms which the Consultant shall use, and the type and dollar value of the services each DBE will perform, is as follows:

DBE FIRM NAME, STREET AND COMPLETE MAILING ADDDRESS	TYPE OF DBE SERVICE	TOTAL $ VALUE OF THE DBE SUBCONTRACT	CONTRACT $ AMOUNT TO APPLY TO TOTAL DBE GOAL	% OF SUBCONTRACT $ VALUE APPLICABLE TO TOTAL GOAL

(5) SUBCONSULTANTS:

(A) The Consultant agrees that except for those firms and for those services listed below, there shall be no transfer of engineering services performed under this Supplemental Agreement No. 1 without the written consent of the Sponsor. Subletting, assignment, or transfer of the services or any part thereof to any other corporation, partnership, or individual is expressly prohibited. Any violation of this clause will be deemed cause for termination of this Supplemental Agreement No. 1.

Exceptions (Subconsultant Information):

FIRM NAME	COMPLETE ADDRESS	NATURE OF SERVICES
Algier Martin and Associates	P.O. Box 2627 Joplin, MO 64803-2627	Resident Engineer
Palmerton and Parrish	3500 East 13th Street Joplin, MO 64801	Material Testing

(6) ORIGINAL AGREEMENT: Except as otherwise modified, amended, or supplemented by this Supplemental Agreement No. 1, the Original Agreement between the parties shall remain in full force and effect and the terms of the Original Agreement shall extend and apply to this Supplemental Agreement No. 1.

IN WITNESS WHEREOF, the parties have entered into this Supplemental Agreement No. 1 on the date last written below.

Executed by the Consultant this _____ day of _____, 20 ____.

Executed by the Sponsor this _____ day of _____, 20 ____.

CONSULTANT SPONSOR

By_____

Title_____

ATTEST:

By_____

Title_____

Approved as to Form:

By_____

Title_____

By_____

Title_____

ATTEST:

By_____

Title_____

Approved as to Form:

By_____

Title_____

EXHIBIT II - SA1

SCOPE OF SERVICES

1. Preliminary

   a. Prepare copies of the Construction Plans and Project Manual for use by the Contractor during construction.

   b. Develop a **Construction Observation Program (Paving)** in accordance with MoDOT requirements.

   c. Provide a sealed, signed and dated copy of the Construction Observation Program (COP) prior to the pre-construction conference.

   d. Attend and conduct a pre-construction conference. Minutes of the conference will be prepared and distributed to all attendees.

2. Provide construction administration, on-site construction observation, and material(s) testing per the COP:

   a. Provide construction observation services, including preparation of weekly reports and other reports as required by the COP to document the prosecution and progress of the Project.

   b. Review shop drawings and material certification submittals as provided by the Contractor.

   c. Perform material(s) testing (field and laboratory) as required by the COP.

   d. Respond to field issues throughout the duration of the project.

   e. Prepare Contractor's progress estimates and Sponsor's request for reimbursement of funds.

   f. Prepare change orders and supplemental agreements necessary for construction of the project.

   g. Attend and conduct a final review of the Project with the Sponsor, MoDOT, and the Contractor

3. Project Closeout Phase

   a. Prepare and submit to the Sponsor and MoDOT one (1) electronic set of record drawings on a compact disc (CD) in .pdf format copied to a single file.

   b. Prepare and submit to the Sponsor and MoDOT a Final Testing Report as required by the COP.

   d. Provide MoDOT with all closeout documents as required for project final acceptance.

EXHIBIT IV - SA1

DERIVATION OF CONSULTANT PROJECT COSTS (CONSTRUCTION)

EXHIBIT V - SA1

ENGINEERING CONSTRUCTION SERVICES-COST BREAKDOWN

EXHIBIT IV - SA1

DERIVATION OF CONSULTANT PROJECT COSTS

JOPLIN REGIONAL AIRPORT
JOPLIN, MISSOURI
General Aviation Ramp Rehabiltiation and Lighting
CONSTRUCTION OBSERVATION SERVICES
August 27, 2015

1 DIRECT SALARY COSTS:

TITLE	HOURS	RATE/HOUR	COST ($)
Principal	0	$73.59	$0.00
Senior Project Engineer	124	58.29	$7,227.96
Project Manager	0	45.33	$0.00
Senior Engineer	112	35.34	$3,958.08
Engineer	0	27.96	$0.00
Senior Planner	0	35.08	$0.00
Planner	0	22.21	$0.00
Registered Land Surveyor	0	40.50	$0.00
Senior Technician	20	34.51	$690.20
Technician	0	26.08	$0.00
Clerk/Secretary	0	20.51	$0.00
	256		

Total Direct Salary Costs = $11,876.24

2 LABOR AND GENERAL ADMINISTRATIVE OVERHEAD:

Percentage of Direct Salary Costs @ 159.86 % = $18,985.36

3 SUBTOTAL:

Items 1 and 2 = $30,861.60

4 PROFIT:

15 % of Item 3 Subtotal = $4,629.24

Subtotal $35,490.84

5 OUT-OF-POCKET EXPENSES:

a. Mileage	3480 Miles @	$0.57 / Mile =	$1,983.60	
b. Meals	2 Days @	$32.00 / Day =	$64.00	
c. Motel	2 Nights @	$95.00 / Night=	$190.00	
d. Printing and Shipping		=	$1,000.00	

Total Out-of-Pocket Expenses = $3,237.60

6 SUBCONTRACT COSTS:

a. Allgeier, Martin and Associates, Inc. = $35,585.88
b. Palmerton and Parrish = $15,521.00

= $51,106.88

7 MAXIMUM TOTAL FEE:

Items 1, 2, 3, 4, 5 and 6 = $89,835.32

Exhibit V - SA1

JOPLIN REGOINAL AIRPORT
JOPLIN, MISSOURI

BASIC AND SPECIAL SERVICES
General Aviation Ramp Rehabilitation and Lighting
August 27, 2015

Classification: Gross Hourly Rate:		Principal $219.92	Senior Project Engineer $174.19	Project Manager $135.46	Senior Engineer $105.61	Engineer $83.56	Senior Planner $104.83	Planner $66.37	Registered Land Surveyor $121.03	Senior Technician $103.13	Technician $77.94	Clerk/ Secretary $61.29	Other Costs
A. DESIGN SERVICES													
1. Relocation of Taxiway B:													
Project Management (status reports, project coordination, invoicing)			12										
Develop Construction Observation Plan					8								
Attend and Conduct Pre-Construction Meeting			12										
Shop Drawing Review			4		24					16			
Answer Questions from Field			20										
Change Orders/Field Changes			12		12								
Pay Requests			4		12								
Field Visits/Site Inspections, including pre & post winter shutdown			48										
Attend Final Inspection			12										
Project Closeout Documentation					40								
Record Drawings					16					4			
Total hours =	256	0	124	0	112	0	0	0	0	20	0	0	(1,2,3,4,5)
Total =	$89,835.32	$0.00	$21,599.96	$0.00	$11,828.29	$0.00	$0.00	$0.00	$0.00	$2,062.59	$0.00	$0.00	$54,344.48
TOTAL =		**$89,835.32**											

(1) Mileage, Motel and Meals
(2) Equipment, Materials and Supplies
(3) Computer Services
(4) Vendor Services
(5) Printing and Shipping

Ty Sander

From: Michael Atkinson <Michael.Atkinson@amce.com>
Sent: Monday, August 24, 2015 4:49 PM
To: Ty Sander
Subject: ESC Attachment B, GA Apron.xlsx
Attachments: ESC Attachment B, GA Apron.xlsx

Ty,

Attached is breakdown of our proposed costs for GA Inspection.

Let me know if this works for your budget.

Also, how do you want to address the materials testing?

Thanks,

Michael Atkinson, P.E.
Vice President
Michael.Atkinson@amce.com | www.amce.com
Main: 417.680.7200 | **Direct**: 417.680.7352 | **Cell**: 417.499.9381

ALLGEIER, MARTIN and ASSOCIATES, INC.
Consulting Engineers

ATTACHMENT B
GENERAL AVIATION APRON REHABILITATION
ESTIMATE OF COST

CONSTRUCTION PHASE	HOURS	RATE	EXTENDED COST
Construction Phase			
Inspector II	474	$29.02	$13,755.48
Subtotals	**474**		**$13,755.48**
Labor Overhead, Est. @		95.08%	**$13,078.71**
Gen. & Admin. Overhead, Est. @		24.32%	**$3,345.33**
Total Labor and Overhead			**$30,179.52**
Fixed Fee			**$4,526.93**
Total Labor, Overhead & Fixed Fee			**$34,706.45**
Other Direct Costs			
Travel @ $0.57/Mi.	1543	$ 0.57 per mile	$879.43
Subtotal Direct Costs			**$879.43**
CONTRACT CEILING FOR CONSTRUCTION PHASE			**$35,585.88**

Contract Time	60	Calendar Days
	9	Weeks
Concrete	7	Weeks
Asphalt	2	Weeks
	51	Working Days (incl Sat.)

WorkSheet	Material	Hours/Wk	Total Hours
Inspector II	Concrete	50	350
Inspector II	Asphalt	60	120
Inspector II	Precon		4

30 Miles/Trip

		Trips	Miles
Miles		51	1543

PALMERTON & PARRISH, INC.
Projected Costs for QA Testing

CLIENT : Crawford Murphy & Tilly, Inc.
PROJECT : Rehabilitate & Relight General Aviation Apron
LOCATION: Joplin Regional Airport - Joplin, Missouri
DATE : August 26, 2015

NO.	ITEM DESCRIPTION	UNIT COST		UNITS	EXTENSION
	Clerical & Management / Review				
1	Engineer Review & Attend Pre-Con Meeting	$135.00	/hr.	10.00	$1,350.00
2	Clerical	$54.00	/hr.	12.00	$648.00
	Subtotal; Clerical & Management / Review				**$1,998.00**
	Item MO-152 Excavation & Embankment (464 cy Class A Exc. & 232 cy 12" Undercut)				
1	Field Tech w/ Travel for Density Testing 10 trips x 2 hrs/trip	$75.00	/hr.	20.00	$1,500.00
2	Field Density Tests	$10.50	/ea.	20.00	$210.00
3	Atterberg Limits & Gradation	$174.50	/ea.	1.00	$174.50
4	Standard Proctor	$205.00	/ea.	1.00	$205.00
5	Mileage	$0.67	/mi.	200.00	$134.00
	Subtotal; Excavation & Embankment				**$2,223.50**
	Section MO-209 Crushed Aggregate Base Course (10,600 sq. yds.) **(6" Base Course 2782 sy & 12" Base Course 696 sy)**				
1	Field Tech w/ Travel for Density Testing 10 trips x 2 hrs/trip	$75.00	/hr.	20.00	$1,500.00
2	Field Density Tests	$10.50	/ea.	30.00	$315.00
3	Field Tech to Perform Thickness Testing	$75.00	/hr.	0.00	$0.00
4	Pull Behind Drill Rig for Thickness Testing	$200.00	/day	0.00	$0.00
5	Atterberg Limits & Gradation	$174.50	/ea.	1.00	$174.50
6	Standard Proctor	$205.00	/ea.	1.00	$205.00
7	Mileage	$0.67	/mi.	200.00	$134.00
	Subtotal; Crushed Aggregate Base Course				**$2,328.50**
	Item MO-401F Plant Mix Bituminous Pavement **(Mineral Agg. 1470 tons, Asphalt Cement 128 tons, Crack Repair 300 sf)**				
1	Core Cutting (By Contractor)	$0.00	/hr.	0.00	$0.00
2	Field Tech to Obtain Cores from Contractor 5 lots x 1 hr/lot	$62.00	/hr.	5.00	$310.00
3	Mat Core Density 5 lots x 4 sublots	$37.00	/ea.	20.00	$740.00
4	Joint Core Density 5 lots x 4 sublots	$37.00	/ea.	20.00	$740.00
5	Mileage	$0.67	/mi.	100.00	$67.00
	Subtotal; Plant Mix Bituminous Pavement				**$1,857.00**
	Item P-501 PCC Pavement (6" Thick 1430 sy, 10" Thick 1352 sy)				
1	Field Tech to Perform Concrete Testing/Sampling 5 lots x 4 sublots/lot x 1.5 hrs/sublot	$75.00	/hr.	30.00	$2,250.00
2	Field Tech to Pickup Beams at Site	$75.00	/hr.	5.00	$375.00
3	Beam Flexural Strength	$44.50	/ea.	40.00	$1,780.00
4	Mileage	$0.67	/mi.	200.00	$134.00
	Subtotal; PCC Pavement				**$4,539.00**
	Item MO-610 Structural Portland Cement Concrete (Light Pole Bases) & Spall Repair				
1	Field Tech to Perform Concrete Testing/Sampling 10 trips x 2 hrs/trip	$75.00	/hr.	20.00	$1,500.00
2	Concrete Cylinder Compressive Strength w/ Molc	$14.15	/ea.	40.00	$566.00
3	Field Tech to Pickup Cylinders at Site	$75.00	/hr.	5.00	$375.00
4	Mileage	$0.67	/mi.	200.00	$134.00
	Subtotal; Structural Concrete				**$2,575.00**
	TOTAL ESTIMATED COST				**$15,521.00**