

**ORDINANCE NO. 51-16**

**AN ORDINANCE AUTHORIZING THE MAYOR TO ENTER INTO AMENDMENT NO. 6 TO THE AGREEMENT WITH DELTA AIRPORT CONSULTANTS, INC. FOR THE DESIGN AND BIDDING SERVICES FOR THE RESCONSTRUCTION OF THE NORTH-SOUTH TAXIWAY AT THE MEDINA MUNICIPAL AIRPORT, AND DECLARING AN EMERGENCY.**

**BE IT ORDAINED BY THE COUNCIL OF THE CITY OF MEDINA, OHIO:**

- SEC. 1:** That the Mayor is hereby authorized and directed to enter into Amendment No. 6 to the Agreement with Delta Airport Consultants, Inc. for the design and bidding services for the Reconstruction of the North-South Taxiway at the Medina Municipal Airport.
- SEC. 2:** That that a copy of Amendment No. 6 is marked Exhibit A, attached hereto and incorporated herein.
- SEC. 3:** That the funds to cover this amendment, in the estimated amount of \$70,000.00 are available as follows: \$63,000.00 in Account No. 147-0670-54411, \$3,500.00 in Account No. 109-0670-54411, and \$3,500.00 in Account No. 547-0670-54411.
- SEC. 4:** That it is found and determined that all formal actions of this Council concerning and relating to the passage of this Ordinance were adopted in an open meeting of this Council, and that all deliberations of this Council and any of its committees that resulted in such formal action, were in meetings open to the public, in compliance with the law.
- SEC. 5:** That this Ordinance shall be considered an emergency measure necessary for the immediate preservation of the public peace, health and safety, and for the further reason to complete the project as soon as possible; wherefore, this Ordinance shall be in full force and effect immediately upon its passage and signature by the Mayor.

**PASSED:** April 25, 2016

**SIGNED:** John M. Coyne, III  
President of Council

**ATTEST:** Kathy Patton  
Clerk of Council

**APPROVED:** April 26, 2016

**SIGNED:** Dennis Hanwell  
Mayor

ORD. 51-16  
EXH. A

**AMENDMENT NO. SIX (6)**

**PROFESSIONAL SERVICES AGREEMENT**

PROJECT: North-South Taxiway Reconstruction (DD/BD)

DELTA PROJECT NO: 15108

DATE OF ISSUANCE: April 1, 2016

ATTACHMENTS: "6-1" Task Narrative  
 "6-2" Fee Summary  
 "6-3" Subconsultant Proposals and RFPs

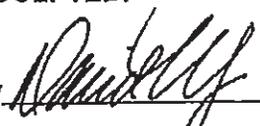
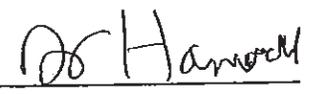
METHOD OF PAYMENT: Lump Sum

AMOUNT: \$70,000.00 (Article 7.11)

CONTRACT TIME: Design Phase Services – 60 Calendar Days (Article 6.6)  
 Bidding Phase Services – 30 Calendar Days (Article 6.7)

PROJECT DESCRIPTION: See Attachment "6-1"

*The original Agreement for Professional Engineering Services between the City of Medina (SPONSOR) and Delta Airport Consultants, Inc., (CONSULTANT) for Professional Services at the Medina Municipal Airport dated July 15, 2008, shall govern all AMENDMENTS executed under this Agreement unless modified in writing and agreed to by CONSULTANT and SPONSOR.*

<p><b>ACCEPTED:</b></p> <p>by <u></u> 4-1-16</p> <p>David W. Jones, P.E., C.M.        Vice President</p> <p><b>CONSULTANT</b>        Delta Airport Consultants, Inc.        20545 Center Ridge Road #450        Cleveland, OH 44116</p>	<p><b>APPROVED:</b></p> <p>by <u></u> 4-26-16</p> <p>Dennis Hanwell        Mayor</p> <p><b>SPONSOR</b>        City of Medina        132 N. Elmwood Ave.        Medina, OH 44256</p>
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## ATTACHMENT "6-1"

### TASK NARRATIVE

This project at the Medina Municipal Airport, Medina, Ohio is to provide design and bidding phase services for the North-South Taxiway Reconstruction project. The project is to include the following project elements:

- Rehabilitate a portion of the existing North-South Taxiway with an overlay (approximately 1,336 feet)
- Extend the North-South Taxiway to the Runway 01 approach end (approximately 648 feet)
- Remove the existing aircraft hold apron
- Remove the two (2) existing connector taxiways

Design and Bidding Phase Services are to include:

1. Prepare FAA Form 7460-1 "Notice of Proposed Construction" for coordination, review and approval by the FAA. The submittal is to be for the project improvements related to the construction of this project.
2. Prepare a Construction Safety Phasing Plan (CSPP) and report document per FAA guidelines for coordination, review and approval by the FAA. The submittal is to be for the project improvements related to the construction of this project.
3. Attend a preliminary design meeting/teleconference with the Airport personnel, Sponsor, FAA, ODOT, Office of Aviation, County, and local review agencies to review design criteria, funding and local construction requirements.
4. Assist Sponsor with the preparation of the FAA Airport Capital Improvement Plan (ACIP), programming and final grant application documents for review, approval and forwarding to the FAA and/or ODOT, Office of Aviation and/or other funding agencies.
5. Analyze existing design and as-constructed plans, specifications, survey data, geotechnical data and existing utility data available within the project area.
6. Provide five (5) copies of a Design Engineering Report to the Sponsor for review and distribution to FAA, ODOT, Office of Aviation and other agencies. The Design Engineering Report (DER) is to be prepared in accordance with State of Ohio Department of Transportation and FAA criteria, and County storm water design criteria. The DER includes, but is not limited to: analysis and reasons for particular design choices, and analysis of the manner in which work on the Project is to be accomplished. The DER is to be accompanied by an Engineer's opinion of probable cost for the Project.

7. Prepare design as-bid drawings and specifications for the project.
8. Develop one (1) bid additive or two (2) bid schedules for funding and construction flexibility.
9. Provide up to ten (10) hard copies of sealed plans, specifications, and bid proposal documents for bidding and construction of the project.
10. Make available to prospective bidders, PDF files of sealed plans, specifications, and bid proposal documents for bidding and construction of the project through Delta Airport Consultants, Inc. website project bidding portal.
11. Provide limited bidding phase services; limited to, bid document preparation, advertisement preparation, attend a single pre-bid meeting, distribute bidder questions and answers, prepare bid tabulation and coordinate award of the project.
12. Review Agency Coordination: Assist the Owner and provide technical information for project award coordination with the FAA, ODOT, Office of Aviation and other governmental review and funding agencies.

Items excluded from the scope of work include:

13. Construction Administration Services are not included in this scope of work but are included under a separate Amendment.
14. Publishing of bid advertisement in media other than the Delta Airport Consultant, Inc. website project bidding portal. Bid advertisement costs are not included and shall be incurred by the Sponsor. (Bid advertisement costs may be eligible for up to 90% reimbursement from the FAA.)
15. Attend bid opening.
16. Update of the Exhibit "A" Airport Property map is not included in this scope of work but may be added by a separate Amendment.
17. AGIS and/or as-constructed survey for the project is not included in this scope of work but may be added by a separate Amendment.
18. Project approval and/or permitting costs, if any, are not included and shall be incurred by the Sponsor.

**END TASK NARRATIVE**

**ATTACHMENT 6-2  
FEE SUMMARY**

**Design and Bidding Phase Services**

Project Title: North-South Taxiway Reconstruction  
 Airport Name: Medina Municipal Airport (1G5)  
 Airport Location: Medina, Ohio

Delta Airport Consultants, Inc.

AIP Project No. 3-39-0053-Pending  
 State Project No. FY2016-Pending  
 Delta Project No. 15108

Date: March 29, 2016

<b>Delta Costs: Design &amp; Bidding</b>	
<b>Basic Services</b>	
Schematic Design Phase (SD)	\$2,510
Design Development Phase (DD)	\$4,020
Construction Document Phase (CD)	\$50,090
Bidding Phase Services (BD)	\$6,140
Subtotal:	\$62,760
<b>Special Services</b>	
Project Administration	\$7,240
Subtotal:	\$7,240
<b>Design Lump Sum:</b>	<b>\$70,000</b>

<b>TOTAL:</b>	<b>\$70,000</b>
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**ATTACHMENT "6-3"**  
**SUBCONSULTANT PROPOSALS AND RFPS**



# Cunningham & Associates, Inc.

Civil Engineering & Surveying  
203 W. Liberty St., Medina, Oh 44256  
Phone: (330) 725-5980 \* Fax (330) 725-8019

February 29, 2016

Delta Airport Consultants, Inc.  
20545 Center Ridge Road, Suite 450  
Cleveland, OH 44116

Attention: Steven Potoczak

Re: Medina Municipal Airport  
Reconstruct North - South Taxiway  
Topographic Survey

Dear Mr. Potoczak:

We are pleased to submit this proposal covering the surveying services requested at the Medina Municipal Airport.

These services are to include the items outlined on your "Request for Proposal for Topographic Survey", dated February 23, 2016. We propose to furnish said work for the following fee:

Item 1:  
Lump Sum Fee: \$6,200.00

Item 2:  
Lump Sum Fee: \$1,720.00

This proposal is based upon the understanding that we will be provided, without expense to us, all information, reports, utility plans, easement documents and other data that is pertinent to the work herein proposed.

Delta Airport Consultants, Inc. -2- February 29, 2016

If extra work is required due to revisions ordered by the engineer, we shall be equitably paid for such services in accordance with the schedule of hourly rates below:

Office/Clerical	\$ 45.00 /hour
Drafting Technician I	\$ 60.00 /hour
Drafting Technician II	\$ 75.00 /hour
Surveying Technician	\$ 75.00 /hour
Design Engineer	\$ 85.00 /hour
Professional Surveyor	\$100.00 /hour
Professional Engineer	\$120.00 /hour
2-Man Survey Crew	\$140.00 /hour

We appreciate your invitation to submit this proposal and would be will to discuss any aspect of the proposal with you at your convenience.

Very truly yours,



Daniel T. Cunningham, P.E.

DTC: cac



**DELTA AIRPORT  
CONSULTANTS, INC.**

February 23, 2016

**EMAIL ONLY**

Mr. Dan Cunningham, P.S.  
[danc@cunninghamengineering.com](mailto:danc@cunninghamengineering.com)  
Cunningham & Associates  
203 W. Liberty Street  
Medina, OH 44256

**Subject: Request for Proposal**  
Design Ground Surveys  
Reconstruct North-South Taxiway  
Medina Municipal Airport  
Medina, OH  
AIP Project No. Pending  
Delta Project No. 15108

Dear Mr. Cunningham:

Delta Airport Consultants is preparing a contract for the design to reconstruct the North-South Taxiway, south of Runway 9-27 at the Medina Municipal Airport. The proposed project is shown on the enclosed Exhibit 1. Please provide a cost proposal for the following design ground surveys.

**SCOPE OF WORK**

**Item 1**

1. Baseline "A" shall be set as indicated on Exhibit 1. Baseline "A" shall be set based on the established Runway End Coordinates and NGS monumentation set on the airfield and shown on Exhibit 1. Topographical information, including spot elevations, shall be provided on a 50 foot grid within the project area and shall include edges of pavement, breaks in grade, ditches, tops and bottoms of slopes, airport lighting and navigational aids, and all features to accurately represent the area.
2. Locations of all utilities within the marked survey area (underground and above) shall be marked and identified. Utility structures shall be given with top elevations. Utilities identified shall include a photo journal record of the utility structure (pole, aerial lines, transformers, boxes, buried line markers, etc.), owner of the utility, type of service (electric, gas, telecommunications, etc.), and capacity of the utility service (volts, amperage, size and number of pairs of telecommunications lines, etc.).
3. Drainage structure (information and description) within the marked survey area shall be given with top elevations, inverts (in and out for all connections) inside pipe diameters, pipe and manhole construction materials, etc. Drainage outfall lines existing within the project limits shall be traced to

20545 CENTER RIDGE ROAD, SUITE 450, CLEVELAND, OH 44116

F (440) 895-0465 F (440) 895-0466 WWW.DELTAAIRPORT.COM

the next junction point outside the project limits. A photo journal record of the structure with notes indicating size and flow direction of drainage paths shall also be included.

4. Borings B-1 through B-4 and core samples C-1 through C-7 as shown on Exhibit 1 and as shown below shall be staked out with wooden stakes and flags with the boring number labeled on the stake and flag and an elevation provided to the nearest foot. Core locations shall be painted on the surface of the pavement with the same information.

<u>Boring</u>	<u>Station</u>	<u>Offset</u>	<u>Proposed Depth</u>
B-1	228+54	78' RT	15 feet
B-2	228+32	196' RT	15 feet
B-3	226+12	218' RT	15 feet
B-4	224+54	218' RT	15 feet
C-1	228+54	28' RT	15 feet
C-2	225+07	127' RT	15 feet
C-3	224+12	218' RT	15 feet
C-4	219+12	197' RT	15 feet
C-5	215+64	36' RT	15 feet
C-6	214+12	172' RT	15 feet
C-7	210+87	156' RT	15 feet

## Item 2

5. A cost for one (1) day of additional design survey shall be included separately. This shall include both field and office time. These services will be required on short notice to verify critical elevations or additional information that may be needed during project design.

## FORMAT

6. All survey and data collection elements shall be produced on the Ohio State Plane, North American Horizontal Datum (NAD83) and North American Vertical Datum (NAVD88). All control shall be tied into the National Spatial Reference System (NSRS) and any local coordinate system associated to the Medina Municipal Airport (referenced to Runway ends and on-airport USGS/NGS monuments). Spot elevations shall be given to 0.01 feet accuracy for paved sections and 0.1 feet accuracy for turfed sections. Locations of permanent items within the project limits shall be shown relative to Baseline "A" (horizontal control 0.05 feet accuracy).
7. It is requested that three (3) files (AutoCAD 2000 Format or newer) containing the following information be submitted for our use:

File 1 – [15108plan.dwg] - Planimetrics files (All objects in this file shall have zero elevation.)

File 2 – [15108cont.dwg] - Contours file. This file should include contours, contour labels and spot information.  
File 3 – [15108bkln.dwg] - Breaklines used to generate the contours.

- The drawing world shall be oriented with the State Plane Coordinate System NAD 83.
- The grid pattern on the drawings shall be based on the State Plane Grid Coordinate System
- No elevations shall be assigned to any lines or objects in the planimetrics file. Only contours, breaklines and spot elevations shall have elevations assigned to them.
- All spots shall be on the appropriate layer and contain an attribute for elevation and point description.
- All contours shall be continuous polylines with intermediate and index layers. (Break contours for annotation only.)
- All existing features shall be placed in the drawing files using the appropriate layers and linetypes, as specified in the attached "Standard Request for Proposal Layers" list. A digital copy of Delta's standard drawing template file (delta.dwt) and standard linetype definition file (delta.lin) is enclosed.
- All text in the drawing file shall be standard (Arial font), sized to match ALeroy@ standard templates (80, 100, 120, etc.) scaled for a 1"= 30' plot scale.
- Drawing entities shall have color and linetype set to BYLAYER.
- If any non-standard symbols are used in the drawing, provide a copy of the necessary code required to load and edit the drawing as submitted.
- No linework shall be broken in order to add specific "patterns" to create the look of a custom linetype. (An example of this would be breaking a line at specific intervals to add an "X" text object to distinguish a fence line.) As stated, a copy of Delta's standard linetype definition file is included. If the surveyor is unable to use this linetype definition file, the "continuous" linetype should be used in place of Delta's custom linetypes. No additional text items or symbols should be placed along the line to "approximate" a custom linetype.

8. It is requested that one (1) LandXML file be provided of the existing ground surface model, as used to generate the contours file provided in the previous section. The file should be compliant with LandXML Version 1.0 for Civil 3D software compatibility.

File 4: [15108EG.xml] - Existing Ground Surface in the State Plane Grid Coordinate System.

9. It is also requested that two (2) ASCII text point files be included, both should be in the format: point number, northing, easting, elevation, description (P,N,E,Z,D)

File 5: [15108SPC.asc] - All points given in the State Plane Grid Coordinate System.

File 6: [15108BLC.asc] - Same points as given in "File 5" translated to Baseline "A" station and offset coordinates.

10. All computer files (drawing files, LandXML file, and ASCII points files) shall be submitted on CD or DVD (+R/+RW formats preferred).
11. Please prepare proposal showing separate line item cost each for Items 1 and 2.

#### GENERAL

12. If accepted, your proposal shall serve as the basis for a unit price not-to-exceed contract directly with Delta Airport Consultants, Inc. The proposal shall include a fee schedule, estimated workhours, anticipated non-salary cost and a "not-to-exceed" ceiling figure. A copy of Delta's subconsultant contract has been attached for your review.
13. As soon as your services are complete, your firm should invoice Delta Airport Consultants, inc. Your invoice will then be included with the next Delta invoice. Payment for your services will be forwarded within fourteen (14) days upon receipt of payment from the Owner. In order to be included with the next Delta invoice, your invoice should be received no later than the 25<sup>th</sup> of the month.

The invoice shall, at a minimum, include the following:

- a. Project name: Rehabilitate North-South Taxiway
  - b. Airport name: Medina Municipal Airport
  - c. Delta project number: 15108
  - d. Invoice number
  - e. Workhour cost, with breakdown of hours and fees
  - f. Non-salary costs
14. All activities on the airfield shall be coordinated a minimum of a week in advance, first with the Engineer and then immediately prior to the start of work with the Airport Operator. The Delta and Airport Operator contacts are as follows:

Engineer  
Steve Potoczak  
Project Manager  
Delta Airport Consultants, Inc.  
(440) 895-0465

Airport Operator  
Eric Olson  
Facility Manager, Flight Services of Medina  
Medina Municipal Airport  
(330) 239-1606

Mr. Dan Cunningham, P.S.  
February 23, 2016  
Page 5

15. If your firm is a disadvantaged business enterprise (DBE), provide a copy(s) of current certification by a State or Federal agency(s), preferably where the project is located.

Delta is requesting your proposal on or before March 1, 2016. It is anticipated that a notice-to-proceed for your work will be given during late March 2016. Upon receipt of the written notice-to-proceed, it is requested that a copy of the electronic files for the requested surveys be forwarded to our office within 30 days.

If you should have any questions concerning this matter, please do not hesitate to contact our office.

Sincerely,

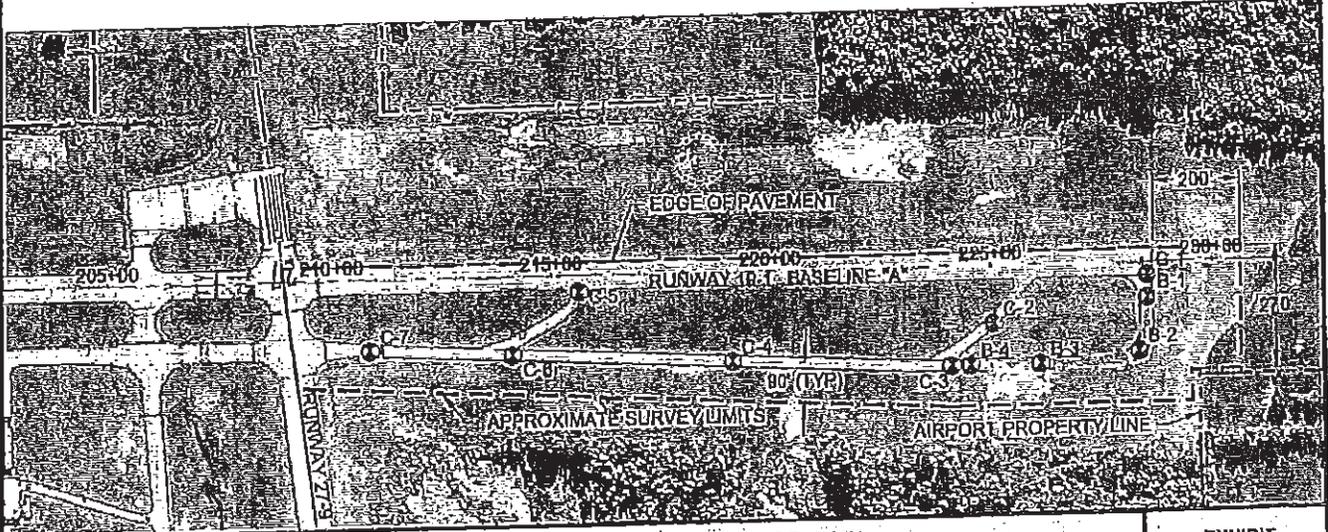
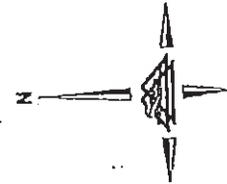
  
Steven A. Potoczak  
Project Manager

for:

Enclosures: Exhibit 1  
Subconsultant Agreement  
Reference: Delta Project No. 15108

COORDINATES		
DESC	LATITUDE	LONGITUDE
RW 1 END	41° 07' 37.0043"	81° 45' 43.10000"
RW 19 END	41° 08' 05.3378"	81° 45' 42.4404"
RW 9 END	41° 07' 52.8971"	81° 46' 25.5037"
RW 27 END	41° 07' 56.7880"	81° 45' 39.3230"
MEDPORT	41° 08' 05.63921"	81° 46' 42.84401"
MEDPORT AZ MK	41° 07' 50.93114"	81° 45' 43.44553"

BORING LOCATIONS	
BORING #	STATION & OFFSET
B-1	STA 228+54, 78' RT
B-2	STA 228+32, 196' RT
B-3	STA 226+12, 216' RT
B-4	STA 224+54, 218' RT
C-1	STA 228+54, 28' RT
C-2	STA 225+07, 127' RT
C-3	STA 224+12, 218' RT
C-4	STA 218+12, 197' RT
C-5	STA 216+64, 35' RT
C-6	STA 214+12, 172' RT
C-7	STA 210+87, 156' RT



**SURVEY & SOIL BORING RFP  
MEDINA MUNICIPAL AIRPORT**

**EXHIBIT  
1**



DRAWN BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_ SCALE: 1" = 300'

N:\15108\04 CAD\exhibit15108 exh - soil & survey RFP.dwg, LI, 2/12/2016 8:14:35 AM, mjb



# **SOLAR TESTING LABORATORIES, INC.**

Geotechnical and Environmental Engineering, Materials Testing, and Construction Inspection

1125 Valley Belt Road, Brooklyn Heights, Ohio 44131

Phone: 216-741-7007 • Fax: 216-741-7011

www.stloho.com



March 1, 2016

Mr. Steven A. Potoczak  
Project Manager  
Delta Airport Consultants, Inc.  
20545 Center Ridge Road, Suite 450  
Cleveland, OH 44116

**Re: Proposal for Geotechnical Exploration  
Reconstruct North-South Taxiway  
Medina Municipal Airport  
2050 Medina Rd, Medina, Ohio  
STL Proposal No. P16-03-002D28**

Dear Mr. Potoczak:

Solar Testing Laboratories, Inc. (STL) is pleased to submit the following proposal for the geotechnical exploration for the above referenced project.

The scope of the field drilling and sampling will include:

- (1) Performing 11 subsurface borings, each to a nominal depth of 15 feet. Seven of these borings will be located within existing runway or taxiway pavement and will begin with coring of the existing pavement and sampling of the existing base and subbase layers. Boring and sampling will include Standard Penetration Resistance testing and Split-Spoon Sampling in accordance with ASTM D-1586. In addition, water levels at encounter and on completion will be measured and recorded.
- (2) Obtaining bulk (bag) soil samples of existing base, subbase, topsoil, subsoil, and subgrade soil materials.
- (3) Performing visual-manual soil classification of all soil samples in accordance with ASTM D-2488.

The laboratory testing to be performed on the soil samples will include, but will not be limited to:

- (1) Classification of all soil samples in accordance with ASTM D-2487 and ASTM D-2488.
- (2) Moisture Content test, ASTM D-2216.
- (3) Liquid Limit and Plastic Limit test, ASTM D-4318.
- (4) Particle Size Analysis test, ASTM D-422.
- (5) Modified Proctor test, ASTM D-1557.

- (6) California Bearing Ratio (CBR) test, ASTM D-1883.
- (7) Soil Nutrient Testing (organic matter, pH, N-P-K, micro-nutrients, etc.).

Engineering analysis and recommendations will include:

- (1) Discussion of the surface and subsurface conditions (including pavements and subbase layers) encountered including detailed logs and results of field and laboratory data.
- (2) Recommendations for site earthwork operations including excavation, fill construction, water management, etc.
- (3) Recommendations for pavement design criteria, pavement equivalency factors, and pavement construction recommendations.

Our prices are subject to the following conditions:

- (1) The scope of services does not include any environmental assessment for the presence or absence of wetlands, or hazardous and toxic materials in the soil, surface water, ground water, and air.
- (2) The client shall mark or otherwise inform STL of the location of all known underground utilities prior to or upon our arrival. Although we will proceed with care, STL cannot be responsible for damage to un-marked or unknown utilities. STL will make notification to "OUPS" for the location of public utilities as required by State law.
- (3) The client shall stake, or mark with paint, the test boring locations prior to or upon our arrival.
- (4) If additional borings or depth is required, it will be charged at the quoted unit prices with the client's approval.
- (5) Drilling normally causes tire ruts and damage to unpaved areas. STL will not be responsible for this type of non-negligent damage.
- (6) This proposal is valid for a period of 90 days from date of issuance.
- (7) Any contract cancellation will be subject to reasonable time and expenses accrued at the time of cancellation.
- (8) If authorized to proceed, we will not exceed the quoted amount without prior approval of our client.

**FEE SCHEDULE**

ITEM NO.	DESCRIPTION	EST. QUAN.	UNIT	UNIT PRICE	TOTAL
<b>DRILLING &amp; SAMPLING</b>					
1001	Mobilization-Demobilization of ATV Rig	1	L.S.	\$ 450.00	\$ 450.00
1004	Soil Borings with Split-Spoon Sampling using ATV Rig	165	L.F.	\$ 15.50	\$ 2,557.50
1005	Soil Borings with Split-Spoon Sampling using ATV Rig (Subject to a Minimum Daily Rate of \$1,550.00)		DAY	\$ 1,550.00	\$ -
1022	Bulk Samples	8	EACH	\$ 25.00	\$ 200.00
620	Pavement Coring Crew	1	DAY	\$ 575.00	\$ 575.00
638	Diamond Bit Expense, 8" Diameter	168	INCH	\$ 13.25	\$ 2,226.00
645	Patching Core Holes	7	EACH	\$ 50.00	\$ 350.00
1033	Standby Time		HOUR	\$ 200.00	\$ -
1052	Grout Boring	91	L.F.	\$ 10.00	\$ 910.00
1664	Field Engineer	16	HOUR	\$ 85.00	\$ 1,360.00
<b>LABORATORY TESTING</b>					
161	Soil Classification	165	L.F.	\$ 1.50	\$ 247.50
1232	Moisture Content	55	EACH	\$ 8.00	\$ 440.00
1288	Atterberg Limits	8	EACH	\$ 75.00	\$ 600.00
134	Grain Size Analysis w/Hydrometer	8	EACH	\$ 85.00	\$ 680.00
135	Grain Size Analysis	2	EACH	\$ 50.00	\$ 100.00
121	Modified Proctor Test	4	EACH	\$ 145.00	\$ 580.00
1252	California Bearing Ratio (CBR)	4	EACH	\$ 165.00	\$ 660.00
1298	Soil Nutrient Test	2	EACH	\$ 150.00	\$ 300.00
<b>ENGINEERING ANALYSIS &amp; RECOMMENDATIONS</b>					
1687	Project Coordination	6	HOUR	\$ 95.00	\$ 570.00
1677	Drafting & Data Reduction	6	HOUR	\$ 55.00	\$ 330.00
1674	Analysis & Recommendations	8	HOUR	\$ 95.00	\$ 760.00
1673	Report Preparation	6	HOUR	\$ 95.00	\$ 570.00
<b>ESTIMATED TOTAL</b>					<b>\$ 14,466.00</b>

It is anticipated that we can commence boring and sampling within seven working days after notice to proceed. The field exploration is expected to be completed within three working days, and an additional approximate 15 working days are required for completing laboratory soils testing, engineering analysis, evaluation, recommendations, and report preparation.

Mr. Steven A. Potoczak  
Delta Airport Consultants, Inc.  
STL Proposal No. P16-03-002D28  
Page 4

STL maintains the following insurance coverage:

Type of Coverage	Insurer	Limit of Liability	Expiration Date
Workers' Compensation	Ohio Bureau of Workers' Compensation	-	06/30/16
Professional Liability	Continental Casualty Company	\$2 million	04/02/16
General Liability	Cincinnati Insurance Company	\$9 million	01/11/17

Certificates of insurance will be filed with the client prior to the commencement of services for this project and after each renewal date of the policies listed on the certificates.

Our services will be billed shortly after the submittal of the report. The complete balance is due and is to be paid within 30 days after the billing date.

We trust that you will find this proposal in accordance with all your requirements and expectations. Please inform us of your intentions so that we may plan our time accordingly.

We appreciate the opportunity of helping to implement your plans and look forward to working with you.

Sincerely yours,

SOLAR TESTING LABORATORIES, INC.



Mark R. Recktenwald, P.E.  
Vice President



February 23, 2016

EMAIL ONLY

Mr. Mark Recktenwald, P.E.  
Vice President  
Solar Testing Laboratories, Inc.  
1125 Valley Belt Road  
Brooklyn Heights, OH 44131

Subject: Request for Proposal  
Geotechnical Subsurface Investigation Services  
Reconstruct North-South Taxiway  
Medina Municipal Airport  
Medina, OH  
AIP Project No. Pending  
Delta Project No. 15108

Dear Mr. Recktenwald:

Delta Airport Consultants is preparing a contract for the design to reconstruct the North-South Taxiway, south of Runway 9-27 at the Medina Municipal Airport. The proposed project is shown on the enclosed Exhibit 1. Please provide a cost proposal for the following subsurface geotechnical investigations.

**SCOPE OF WORK**

- Four (4) soil borings and seven (7) pavement core and soil boring samples will be required in the project area approximately as shown on Exhibit 1 and which will be staked by our surveyor in advance. The boring locations may be adjusted in the field as required to avoid existing utilities, structures, etc., and as recommended by your on-site geotechnical engineer. The approximate boring locations referenced to Baseline "A" and requested depths are as follows:

<u>Boring</u>	<u>Station</u>	<u>Offset</u>	<u>Proposed Depth</u>
B-1	228+54	78' RT	15 feet
B-2	228+32	196' RT	15 feet
B-3	226+12	218' RT	15 feet
B-4	224+54	218' RT	15 feet
C-1	228+54	28' RT	15 feet
C-2	225+07	127' RT	15 feet
C-3	224+12	218' RT	15 feet
C-4	219+12	197' RT	15 feet
C-5	215+64	36' RT	15 feet
C-6	214+12	172' RT	15 feet
C-7	210+87	156' RT	15 feet

2. For all borings, classification and depth of each soil group by the Unified Classification System (visual method) shall be recorded. The approximate depth of water table shall be reported. Liquid limit, plastic limit, in-place moisture content, and sieve analysis of the existing soil materials shall be obtained in accordance with normal procedure as necessary to determine suitability for structural fill.
3. Pavement core boring C-1 shall be located in the Runway pavement approximately two feet into the Runway from the edge of the pavement and the Runway pavement section composition shall be recorded.
4. Pavement core borings C-2, C-3, C-4, C-5, C-6 and C-7 shall be located in the Taxiway pavement approximately along the centerline of the pavement and the Taxiway pavement section composition shall be recorded.
5. The bearing capacity or correlation between blow count and bearing capacity shall be reported for Borings B-1, B-2, B-3, B-4, C-3, C-4, C-6 and C-7. Bag samples shall be obtained from Borings B-2, B-4, C-4 and C-6 as necessary to run laboratory CBR's at optimum moisture and a modified proctor for the soil at a depth of 12 inches below the surface of the ground. The material shall be analyzed for suitability as borrow and for ease of excavation.
6. The depth of existing topsoil shall be reported where encountered for borings B-1 thru B-4. Samples of the existing topsoil and subsoil shall be obtained and a basic soil fertility test completed on each. One (1) composite sample for the site shall be used. The composite sample shall include a small sample from several locations.
7. The geotechnical report shall include all test data, recommendations concerning the quantity and quality of rock, if any, the suitability of the soil material for the embankment, description of the condition of the existing pavement structure, design CBR recommendations, equivalency factors for existing pavements versus new pavements, as well as any other pertinent recommendations pertaining to the construction of a pavement section within the project area that is capable of supporting the weight of a 15 ton loaded single-axle dump truck.

Additionally, the recommendations shall include a soil bearing strength and subgrade suitability for the construction of a bituminous asphalt taxiway pavement capable of supporting aircraft weighing 12,500 pounds or less.

The geotechnical report delivered shall be sealed by a registered professional engineer in the state of Ohio.

8. Split spoon borings to a depth of fifteen (15) feet below the surface for all of the borings will be required. The depth of each pavement layer for all pavement core soil borings shall be clearly noted.
9. Bag samples of existing base and/or subbase course material encountered shall be saved and utilized for sieve analysis. Standard sieve analysis with the FAA's normal screens shall be run on the bag samples of the existing base and/or subbase stone material encountered.

10. All borings shall be refilled and firmly compacted at the completion of the field work each day. The field crew shall not leave the site until all borings have been checked by Airport staff to assure satisfactory backfill and no settlement.
11. All pavement cores shall be filled with a Delta Engineer approved non-shrink grout material. Non-shrink grout material depth shall be equal to the pavement thickness of the core sample taken from each location.
12. All boring locations shall be reported with station and offset from Baseline "A". The stationing on the enclosed plan shall be used. Necessary field adjustments to as-bored locations shall be recorded.

#### GENERAL

13. If accepted, your proposal shall serve as the basis for a unit price not-to-exceed contract directly with Delta Airport Consultants, Inc. The proposal shall include a fee schedule, estimated workhours, anticipated non-salary cost and a "not-to-exceed" ceiling figure. A copy of Delta's subconsultant contract has been attached for your review.
14. As soon as your services are complete, your firm should invoice Delta Airport Consultants, Inc. Your invoice will then be included with the next Delta invoice. Payment for your services will be forwarded within fourteen (14) days upon receipt of payment from the Owner. In order to be included with the next Delta invoice, your invoice should be received no later than the 25<sup>th</sup> of the month.

The invoice shall, at a minimum, include the following:

- a. Project name: Rehabilitate North-South Taxiway
  - b. Airport name: Medina Municipal Airport
  - c. Delta project number: 15108
  - d. Invoice number
  - e. Workhour cost, with breakdown of hours and fees
  - f. Non-salary costs
15. All activities on the airfield shall be coordinated a minimum of a week in advance, first with the Engineer and then immediately prior to the start of work with the Airport Operator. The Delta and Airport Operator contacts are as follows:

Engineer  
Steve Potoczak  
Project Manager  
Delta Airport Consultants, Inc.  
(440) 895-0465

Airport Operator  
Eric Olson  
Facility Manager, Flight Services of Medina  
Medina Municipal Airport  
(330) 239-1606

Mr. Mark Recktenwald, P.E.  
February 23, 2016  
Page 4

16. If your firm is a disadvantaged business enterprise (DBE), provide a copy(s) of current certification by a State or Federal agency(s), preferably where the project is located.

Delta is requesting your proposal on or before March 1, 2016. It is anticipated that a notice-to-proceed for your work will be given during late March 2016. Upon receipt of the written notice-to-proceed, it is requested that a copy of the electronic files for the requested work be forwarded to our office within 30 days.

If you should have any questions concerning this matter, please do not hesitate to contact our office.

Sincerely,

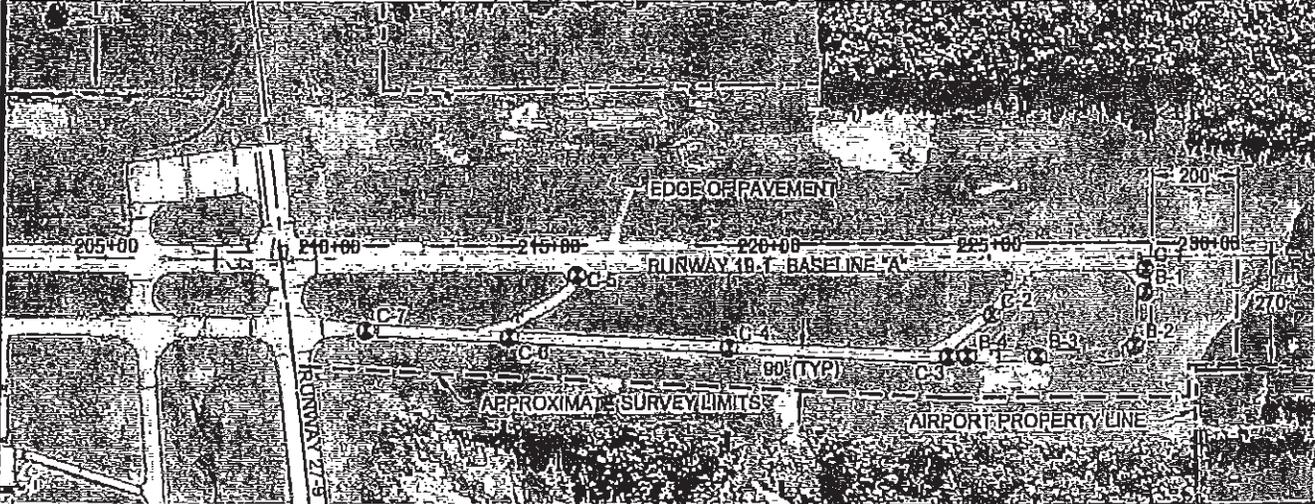
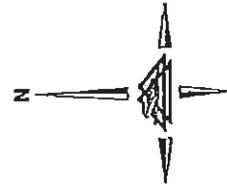
  
Steven A. Potoczak  
Project Manager

for:

Enclosures: Exhibit 1  
Subconsultant Agreement  
Reference: Delta Project No. 15108

COORDINATES		
DESC	LATITUDE	LONGITUDE
RW 1 END	41° 07' 37.0043"	81° 45' 43.10000"
RW 19 END	41° 08' 05.3378"	81° 45' 42.4404"
RW 9 END	41° 07' 52.8971"	81° 46' 25.6037"
RW 27 END	41° 07' 56.7880"	81° 45' 39.3230"
MEDPORT	41° 08' 05.63921"	81° 45' 42.84401"
MEDPORT AZ MK	41° 07' 50.93114"	81° 45' 43.44553"

BORING LOCATIONS	
BORING #	STATION & OFFSET
B-1	STA 228+54, 78' RT
B-2	STA 228+32, 195' RT
B-3	STA 226+12, 218' RT
B-4	STA 224+54, 218' RT
C-1	STA 228+54, 28' RT
C-2	STA 225+07, 127' RT
C-3	STA 224+12, 218' RT
C-4	STA 219+12, 197' RT
C-5	STA 215+64, 36' RT
C-6	STA 214+12, 172' RT
C-7	STA 210+87, 156' RT



**SURVEY & SOIL BORING RFP  
MEDINA MUNICIPAL AIRPORT**

EXHIBIT  
1

DRAWN BY: MPT CHECKED BY: SVP SCALE: 1" = 300' DATE: 11/10/2016

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