

July 14, 2014

To: Plan Holders for Improvements to the  
St. Charles County Airport Smartt Field  
St. Charles County, Missouri  
MoDOT Project No. 13-111A-2  
St. Charles County Bid No. 14-158

Transmitted herewith is Addendum **No. 1** to the Contract Documents, Plans and Specifications dated June 25, 2014 for Improvements to the St. Charles County Airport Smartt Field, St. Charles County, Missouri, MoDOT Project No. 13-111A-2 and St. Charles County Bid No. 14-158.

## Main Terminal Repair and Renovation

Sincerely,

Jviation, Inc.



Ryan B. Lorton, P.E.



**ADDENDUM NO. 1  
TO  
CONTRACT DOCUMENTS, PLANS AND SPECIFICATIONS  
FOR IMPROVEMENTS TO THE  
ST. CHARLES COUNTY AIRPORT SMARTT FIELD  
ST. CHARLES COUNTY, MISSOURI  
MODOT PROJECT NO. 13-111A-2  
ST. CHARLES COUNTY BID NO. 14-158**

To All Bidders: You are requested to make all changes and/or additions contained in this addendum to the Bidding Documents. Failure to acknowledge this Addendum in Proposal shall result in rejection of bid. Bidders are informed that the above referenced Contract Documents, Plans and Specifications are modified as follows as of July 14, 2014:

**1. CONTRACT DOCUMENTS**

Section: Section 30 Award and Execution of Contract  
Subsection: 30-01 Evaluation of Proposals.  
Revision: Replace the words "NUMBER OF DAYS" with the words  
"90 calendar days".

Section: Section 80 Prosecution and Progress  
Subsection: 80-08 Failure to Complete on Time.  
Revision: Revision: Delete the Liquidated Damages Table in its  
entirety and replace with the following:

	<b>LIQUIDATED DAMAGES COST</b>	<b>ALLOWED CONSTRUCTION TIME</b>
BASE BID	\$750 per calendar day(s)	90 calendar day(s)*

\*No additional calendar days will be added for the award of any Project Alternate(s).

Section: Bid Proposal Form  
Revision: Delete the Bid Proposal Form and replace with the attached revised Bid Proposal Form.  
(Bid Item No. 12 "Install 2" Copper Water Line at 42" Minimum Cover" has been revised to "Install 3" Copper Water Line at 42" Minimum Cover".)

## **2. TECHNICAL SPECIFICATIONS**

Specification: SETION 08800 - GLAZING (Addendum)  
Revision: Insert attached Specification for Glazing Requirements.

Specifications: ALL  
Revision: All references to specific Brand Names or Manufacturers should include the words "or Equal" after the Brand Name or Manufacturer listed.

## **3. PLANS**

Sheet: A-1  
Name: Crawl Space Plan & Details & Site Plan  
Subsection: Architectural Site Plan  
Revision: All references to "2" copper waterline" shall be changed to "3" copper waterline".

Sheet: A-1  
Name: Crawl Space Plan & Details & Site Plan  
Subsection: Architectural Site Plan  
Revision: One (1) 90 degree elbow with thrust block shall be added to the Contract incidental to the waterline. The addition of this elbow will allow for the routing of the waterline to be routed directly south of the proposed well location for approximately 50' and then be routed west to the point where the waterline meets the existing routing as shown on Sheet A-1. No additional length of waterline is required for this revision. The two (2) tees with caps and thrust blocks shall

remain part of the contract, incidental to the installation of the waterline.

Sheet: A-4  
Name: Exterior Elevations and Wall Section.  
Revision: Elevation - Keyed Note 20, add the words "or equal" after "Pre-Finished Aluminum Awning -LFSTR Metal by Lawrence Fabric Structures, Inc."

Sheet: MP-0  
Name: Specifications & Symbols  
Subsection: Products  
Revision: Delete Note 3 in its entirety.

Sheet: MP-0  
Name: Specifications & Symbols  
Subsection: Vibration Isolation  
Revision: Note 4. Add the words "or equal" at the end of the note.

Sheet: MP-0  
Name: Specifications & Symbols  
Subsection: Piping Insulation  
Revision: Note 2. Add the words "or equal" at the end of the note.

Sheet: MP-0  
Name: Specifications & Symbols  
Subsection: Plumbing Fixtures  
Revision: Notes 3 and 4. Add the words "or equal" at the end of each note.

Sheet: MP-0  
Name: Specifications & Symbols  
Subsection: Furnaces

Revision: Note 5. Add the words "or equal" at the end of the note.

Sheet: MP-0  
Name: Specifications & Symbols  
Subsection: Well System  
Revision: Note 1. Replace the words "1-1/2" supply" with "3" supply and Pressure Regulator Valve".

Sheet: MP-0  
Name: Specifications & Symbols  
Subsection: Condensing Units  
Revision: Note 2. Add the word "or equal" at the end of the note.

Sheet: MP-1  
Name: Mechanical & Plumbing Plan & Notes  
Subsection: Smart Field Well System  
Revision: Revise Note 1 by replacing the words "or approved equal" with "or equal".

Sheet: MP-1  
Name: Mechanical & Plumbing Plan & Notes  
Subsection: Smart Field Well System  
Revision: Delete Note 2 in its entirety and replace with the following: "System shall include a MAGM4-24-9-24 MAGNUM 270,000 Grain 2" Water Conditioner or equal. System shall include controller, well tank(s), brine system and filter sand and gravel equipment. All necessary controls and equipment for a complete and operating system shall be provided. See specifications sheet for equipment sizes. The water tank shall be Amtrol Well-X-Trol Model WX-350, bladder tank 119 gallons, 40 gallon drawdown or equal."

Sheet: MP-1  
Name: Mechanical & Plumbing Plan & Notes  
Subsection: Smart Field Well System  
Revision: Delete Note 3 in its entirety and replace with the following: "Well, well pump and 3" water supply line shall be

furnished and installed by the well driller. Water line with a 3" shut-off valve shall be installed from the well to 2' - 0" inside the equipment room."

Sheet: MP-1  
Name: Mechanical & Plumbing Plan & Notes  
Subsection: Plumbing Fixture Schedule  
Revision: Under the table delete the note "All Equipment - or Approved Equal" and replace with "All Equipment - or Equal".

Sheet: E-1  
Name: Electrical Plans, Notes and Details  
Subsection: Lighting Fixture Schedule  
Revision: Under the table add the following note: "All Equipment - or Equal".

#### **4. PRE-BID MEETING AGENDA**

July 1, 2014 Pre-Bid Meeting Agenda and Pre-Bid Meeting Attendees are attached from meeting.

#### **5. QUESTIONS DURING AND FOLLOWING PRE-BID MEETING:**

1. Where is the proposed location of the check valve for the well?

*Response: Assume check valve is on the pump.*

2. What is either the point-of-service pressure required, or the top of the wellhead pressure required?

*Response: The required water pressure inside the terminal building is 60 PSI.*

3. Specifications indicated 25 to 100 GPM required. Can this range be narrowed?

*Response: Assume a maximum flow of 50 gpm.*

4. Electric connection/box: Will the electric be terminated at the wellhead or the building and will a control box be required?

*Response: The electric will be terminated at the well house in a control box.*

5. Please provide clarification regarding the terminology "Drive Shoe".

*Response: The drive shoe refers to a section of pipe at the bottom of the drill casing used to drive the casing during borehole drilling.*

6. How should the pump and water line be sized?

*Response: Assume a pump capable of delivering up to 50 gpm at 60 PSI for the point of service pressure. The proposed water line from the well has been increased from a 2" to a 3" water line as is reflected on the revised Bid Proposal Form.*

7. Is there water available at the Airport for drilling?

*Response: The Airport has indicated that they would work with the Contractor to allow the drillers to pull the pump out of the existing well and use the driller's own submersible pump to supply the water for drilling. However, the volume of water available from the existing well is unknown.*

8. Are there provisions in the plans and specifications for a test boring to be completed prior to well installation for well depth, gravel pack and screen size determination?

*Response: A test boring is not included in the Contract Documents. If the Contractor elects to use a test boring it will be at no additional cost to the Contract.*

9. What kind of glazing is required for the exterior windows?

*Response: See attached Specification Section 08800 - GLAZING for glazing requirements.*

10. Were the steel beams painted before 1979 (ones called out to be sandblasted) in regard to possible lead paint issues?

*Response: See the Project Manual Appendix for the MoDOT Construction and Materials Central Laboratory Asbestos Inspection & Heavy Metal Paint Survey report.*

July 14, 2014

To: Contract Documents, Plans and Specifications

MoDOT Project No. 13-111A-2

St. Charles County Bid No. 14-158

Dated: June 25, 2014

**5. ACKNOWLEDGEMENT OF ADDENDUM**

Contractor shall acknowledge receipt of the addendum(s) on the Bid Proposal Form in the designated location under the "ACKNOWLEDGEMENTS BY BIDDER" section.

**\*\* END OF ADDENDUM NO. 1\*\***



# PROPOSAL FORM

## St. Charles County Government

### Sealed Bid 14-158 Smartt Field Main Terminal Repair and Renovation

### State Block Grant Project No. 13-111A-2

TO: Dennis Wiss, Airport Manager

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

#### Repair and renovation for updating the existing main Terminal facility.

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:

<b>Bidder Name:</b>	
<b>BASE BID TOTAL</b>	\$
ADD ALTERNATE NO. 1 TOTAL	\$
ADD ALTERNATE NO. 2 TOTAL	\$
ADD ALTERNATE NO. 3 TOTAL	\$
ADD ALTERNATE NO. 4 TOTAL	\$
<b>TOTAL BASE BID + ADD ALTERNATES No. 1, No. 2, No. 3 AND No. 4</b>	\$

#### BASE BID PROPOSAL

Item No.	Description	Units	Estimated Quantity	Unit Price	Total
1	TERMINAL BUILDING REPAIR & RENOVATION	at the unit price of: dollars and _____ cents.	LS	1	\$
2	WELL MOBILIZATION/ DEMOBILIZATION	at the unit price of: dollars and _____ cents.	LS	1	\$
3	SURFACE SEAL	at the unit price of: dollars and _____ cents.	LS	1	\$
4	8-INCH DRILL AND CASE	at the unit price of: dollars and _____ cents.	LF	100	\$
5	8-INCH DRIVE SHOE	at the unit price of: dollars and _____ cents.	EA	1	\$
6	8-INCH WIRE-WRAPPED S.S. TELESCOPIC WELL SCREEN	at the unit price of: dollars and _____ cents.	LF	20	\$

7	HOURLY INSTALL/DEVELOP	at the unit price of: _____ dollars and _____cents.	HOURL	16	\$		\$	
8	INSTALL/REMOVE TEST PUMP	at the unit price of: _____ dollars and _____cents.	LS	1	\$		\$	
9	HOURLY PUMPING	at the unit price of: _____ dollars and _____cents.	HOURL	30	\$		\$	
10	PRODUCTION PUMP & COMPONENTS	at the unit price of: _____ dollars and _____cents.	LS	1	\$		\$	
11	INSALL & TEST PRODUCTION PUMP	at the unit price of: _____ dollars and _____cents.	HOURL	20	\$		\$	
12	INSTALL 3" COPPER WATER LINE AT 42" MINIMUM COVER	at the unit price of: _____ dollars and _____cents.	LF	400	\$		\$	
13	WATER QUALITY TESTING	at the unit price of: _____ dollars and _____cents.	LS	1	\$		\$	
						<b>BASE BID TOTAL</b>	\$	

#### ALTERNATE BID PROPOSAL

Alt. No.	Description	Units	Estimated Quantity	Unit Price	Total
1	PROVIDE AND INSTALL CERAMIC WALL & FLOOR TILE IN THE RESTROOMS IN LIEU OF PAINTED WALLS & VCT FLOORING AS SHOWN ON THE DRAWINGS AND IDENTIFIED IN THE SPECIFICATIONS.	LS	1	\$	\$
2	PROVIDE AND INSTALL LVT FLOORING IN THE HALL IN LIEU OF VCT FLOORING AS SHOWN ON THE DRAWINGS AND IDENTIFIED IN THE SPECIFICATIONS.	LS	1	\$	\$
3	PROVIDE AND INSTALL COMPOSITE DECKING IN LIEU OF WOOD DECKING AS SHOWN ON THE DRAWINGS AND IDENTIFIED IN THE SPECIFICATIONS.	LS	1	\$	\$
4	PROVIDE AND INSTALL A METAL CANOPY AT THE REAR DOOR AS SHOWN ON THE DRAWINGS AND IDENTIFIED IN THE SPECIFICATIONS.	LS	1	\$	\$

## SECTION 08800 – GLAZING (Addendum)

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. This Section includes glazing for the following products and applications, including those specified in other Sections where glazing requirements are specified by reference to this Section:
  - 1. Windows.
  - 2. Doors.

#### 1.2 DEFINITIONS

- A. Interspace: Space between lites of an insulating-glass unit that contains dehydrated air or a specified gas.
- B. Deterioration of Coated Glass: Defects developed from normal use that are attributed to the manufacturing process and not to causes other than glass breakage and practices for maintaining and cleaning coated glass contrary to manufacturer's written instructions. Defects include peeling, cracking, and other indications of deterioration in metallic coating.
- C. Deterioration of Insulating Glass: Failure of hermetic seal under normal use that is attributed to the manufacturing process and not to causes other than glass breakage and practices for maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.
- D. Deterioration of Laminated Glass: Defects developed from normal use that are attributed to the manufacturing process and not to causes other than glass breakage and practices for maintaining and cleaning laminated glass contrary to manufacturer's written instructions. Defects include edge separation, delamination materially obstructing vision through glass, and blemishes exceeding those allowed by referenced laminated-glass standard.

#### 1.3 PERFORMANCE REQUIREMENTS

- A. General: Provide glazing systems capable of withstanding normal thermal movement and wind and impact loads (where applicable) without failure, including loss or glass breakage attributable to the following: defective manufacture, fabrication, and installation; failure of sealants or gaskets to remain watertight and airtight; deterioration of glazing materials; or other defects in construction.
- B. Glass Design: Glass thickness designations indicated are minimums and are for detailing only. Confirm glass thicknesses by analyzing Project loads and in-service conditions. Provide glass lites in the thickness designations indicated for various size openings, but not less than thicknesses and in strengths (annealed or heat treated) required to meet or exceed the following criteria:

1. Glass Thicknesses: Select minimum glass thicknesses to comply with ASTM E 1300, according to the following requirements:
  - a. Specified Design Wind Loads: 30 Lbs PSF
  - b. Specified Design Wind Loads: 30 Lbs PSF], but not less than wind loads applicable to Project as required by ASCE 7 "Minimum Design Loads for Buildings and Other Structures": Section 6.0 "Wind Loads."
  - c. Design Wind Loads: Determine design wind loads applicable to Project from basic wind speed indicated in miles per hour at 33 feet above grade, according to ASCE 7, "Minimum Design Loads for Buildings and Other Structures": Section 6.5, "Method 2-Analytical Procedure," based on mean roof heights above grade indicated on Drawings.
    - 1) Basic Wind Speed: 90 MLP.
    - 2) Importance Factor: II.
    - 3) Exposure Category: C.
  - d. Specified Design Snow Loads: 30 Lbs PSF, but not less than snow loads applicable to Project as required by ASCE 7, "Minimum Design Loads for Buildings and Other Structures": Section 7.0, "Snow Loads."
  - e. Probability of Breakage for Vertical Glazing: 8 lites per 1000 for lites set vertically or not more than 15 degrees off vertical and under wind action.
    - 1) Load Duration: 60 seconds or less.
  - f. Probability of Breakage for Sloped Glazing: 1 lite per 1000 for lites set more than 15 degrees off vertical and under wind and snow action.
    - 1) Load Duration: 30 days.
  - g. Minimum Glass Thickness for Exterior Lites: Not less than 6.0 mm.
  - h. Thickness of Tinted and Heat-Absorbing Glass: Provide the same thickness for each tint color indicated throughout Project.
- C. Thermal Movements: Provide glazing that allows for thermal movements resulting from the following maximum change (range) in ambient and surface temperatures acting on glass framing members and glazing components. Base engineering calculation on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.
  1. Temperature Change (Range): 120 deg F, ambient; 180 deg F, material surfaces.
- D. Thermal and Optical Performance Properties: Provide glass with performance properties specified based on manufacturer's published test data, as determined according to procedures indicated below:
  1. For monolithic-glass lites, properties are based on units with lites 6.0 mm thick.
  2. For laminated-glass lites, properties are based on products of construction indicated.
  3. For insulating-glass units, properties are based on units of thickness indicated for overall unit and for each lite 6.0 mm thick and a nominal 1/2-inch wide interspace.
  4. Center-of-Glass Values: Based on using LBL-44789 WINDOW 5.0 computer program for the following methodologies:

- a. U-Factors: NFRC 100 expressed as Btu/ sq. ft. x h x deg F.
- b. Solar Heat Gain Coefficient: NFRC 200.
- c. Solar Optical Properties: NFRC 300.

#### 1.4 SUBMITTALS

- A. Product Data: For each glass product and glazing material indicated.
- B. Samples: 12-inch square, for each type of glass product indicated, other than monolithic clear float glass.
- C. Glazing Schedule: Use same designations indicated on Drawings.

#### 1.5 QUALITY ASSURANCE

- A. Preconstruction Adhesion and Compatibility Testing: Submit to elastomeric glazing sealant manufacturers, for testing according to ASTM C 1087, samples of each glazing material type, tape sealant, gasket, glazing accessory, and glass-framing member that will contact or affect elastomeric glazing sealants:
- B. Glazing for Fire-Rated Door Assemblies: Glazing for assemblies that comply with NFPA 80 and that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to NFPA 257.
- C. Safety Glazing Products: Comply with testing requirements in 16 CFR 1201 and, for wired glass, ANSI Z97.1.
- D. Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below, unless more stringent requirements are indicated. Refer to these publications for glazing terms not otherwise defined in this Section or in referenced standards.
  - 1. GANA Publications: GANA Laminated Division's "Laminated Glass Design Guide" and GANA's "Glazing Manual."
  - 2. AAMA Publications: AAMA GDSG-1, "Glass Design for Sloped Glazing," and AAMA TIR-A7, "Sloped Glazing Guidelines."
  - 3. IGMA Publication for Sloped Glazing: IGMA TB-3001, "Sloped Glazing Guidelines."
  - 4. IGMA Publication for Insulating Glass: SIGMA TM-3000, "Glazing Guidelines for Sealed Insulating Glass Units."
- E. Insulating-Glass Certification Program: Permanently marked either on spacers or on at least one component lite of units with appropriate certification label of the Insulating Glass Certification Council, Associated Laboratories, Inc.

#### 1.6 WARRANTY

- A. Manufacturer's Special Warranty for Coated-Glass Products: Manufacturer's standard form, made out to Owner and signed by coated-glass manufacturer agreeing to replace coated-glass units that deteriorate as defined in "Definitions" Article, f.o.b. the nearest shipping point to Project site, within specified warranty period indicated below.

1. Warranty Period: 10 years from date of Substantial Completion.
- B. Manufacturer's Special Warranty on Laminated Glass: Manufacturer's standard form, made out to Owner and signed by laminated-glass manufacturer agreeing to replace laminated-glass units that deteriorate as defined in "Definitions" Article, f.o.b. the nearest shipping point to Project site, within specified warranty period indicated below.
  1. Warranty Period: Five years from date of Substantial Completion.
- C. Manufacturer's Special Warranty on Insulating Glass: Manufacturer's standard form, made out to Owner and signed by insulating-glass manufacturer agreeing to replace insulating-glass units that deteriorate as defined in "Definitions" Article, f.o.b. the nearest shipping point to Project site, within specified warranty period indicated below.
  1. Warranty Period: 10 years from date of Substantial Completion.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:
  1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, products specified.
  2. Products: Subject to compliance with requirements, provide one of the products specified.
  3. Product: Subject to compliance with requirements, provide product specified.
  4. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, manufacturers specified.
  5. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.

### 2.2 GLASS PRODUCTS

- A. Heat-Treated Float Glass: ASTM C 1036, Type I (transparent flat glass), Quality-Q3; of class indicated.
  1. Ultra-Clear (Low-Iron) Float Glass: Class I (clear); with a minimum 91 percent visible light transmission and a minimum solar heat gain coefficient of 0.87.
    - a. Available Products:
      - 1) Pilkington Building Products North America; Optiwhite.
      - 2) PPG Industries, Inc.; Starphire.
  2. Fabrication Process: By horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as installed, unless otherwise indicated.

3. Provide Kind HS (heat-strengthened) float glass in place of annealed float glass where needed to resist thermal stresses induced by differential shading of individual glass lites and to comply with glass design requirements specified in Part 1 "Performance Requirements" Article.
  4. For uncoated glass, comply with requirements for Condition A.
  5. For coated vision glass, comply with requirements for Condition C (other uncoated glass).
  6. Provide Kind FT (fully tempered) float glass in place of annealed or Kind HS (heat-strengthened) float glass where safety glass is indicated.
- B. Insulating-Glass Units, General: Factory-assembled units consisting of sealed lites of glass separated by a dehydrated inter space, and complying with ASTM E 774 for Class CBA units and with requirements specified in this Article and in Part 2 "Insulating-Glass Units" Article.
1. Provide Kind HS (heat-strengthened) float glass in place of annealed glass where needed to resist thermal stresses induced by differential shading of individual glass lites and to comply with glass design requirements specified in Part 1 "Performance Requirements" Article.
  2. Overall Unit Thickness and Thickness of Each Lite: Dimensions indicated for insulating-glass units are nominal and the overall thicknesses of units are measured perpendicularly from outer surfaces of glass lites at unit's edge.
  3. Sealing System: Dual seal.
  4. Spacer Specifications: Manufacturer's standard spacer material and construction.
  5. Spacer Specifications: Manufacturer's standard spacer material and construction complying with the following requirements:
    - a. Spacer Material: Aluminum with black, color anodic finish.
    - b. Corner Construction: Manufacturer's standard corner construction.

## 2.3 GLAZING GASKETS

- A. Dense Compression Gaskets: Molded or extruded gaskets of material indicated below, complying with standards referenced with name of elastomer indicated below, and of profile and hardness required to maintain watertight seal:
1. Neoprene, ASTM C 864.
  2. EPDM, ASTM C 864.
  3. Silicone, ASTM C 1115.
  4. Thermoplastic polyolefin rubber, ASTM C 1115.
  5. Any material indicated above.
- B. Soft Compression Gaskets: Extruded or molded, closed-cell, integral-skinned gaskets of material indicated below; complying with ASTM C 509, Type II, black; and of profile and hardness required to maintain watertight seal:
1. Neoprene.
  2. EPDM.
  3. Silicone.
  4. Thermoplastic polyolefin rubber.
  5. Any material indicated above.

## 2.4 GLAZING SEALANTS

- A. General: Provide products of type indicated, complying with the following requirements:
1. Compatibility: Select glazing sealants that are compatible with one another and with other materials they will contact, including glass products, seals of insulating-glass units, and glazing channel substrates, under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience.
  2. Suitability: Comply with sealant and glass manufacturers' written instructions for selecting glazing sealants suitable for applications indicated and for conditions existing at time of installation.
  3. Colors of Exposed Glazing Sealants: To be selected.
- B. Elastomeric Glazing Sealants: Comply with ASTM C 920 and other requirements indicated for each liquid-applied chemically curing sealant specified, including those referencing ASTM C 920 classifications for type, grade, class, and uses related to exposure and joint substrates.
1. Single-Component [Neutral- and Basic-Curing] [Neutral-Curing] Silicone Glazing Sealants GS-~~<#>~~:
    - a. Available Products:
    - b. Type and Grade: S (single component) and NS (nonsag).
    - c. Class: 50.
    - d. Use Related to Exposure: NT (nontraffic).
    - e. Uses Related to Glazing Substrates: M, G, A, and, as applicable to glazing substrates indicated, O.
- C. Glazing Sealants for Fire-Resistive Glazing Products: Identical to products used in test assemblies to obtain fire-protection rating.

## 2.5 GLAZING TAPES

- A. Back-Bedding Mastic Glazing Tapes: Preformed, butyl-based elastomeric tape with a solids content of 100 percent; nonstaining and nonmigrating in contact with nonporous surfaces; with or without spacer rod as recommended in writing by tape and glass manufacturers for application indicated; packaged on rolls with a release paper backing; and complying with ASTM C 1281 and AAMA 800 for products indicated below:
1. AAMA 804.3 tape, where indicated.
  2. AAMA 806.3 tape, for glazing applications in which tape is subject to continuous pressure.
  3. AAMA 807.3 tape, for glazing applications in which tape is not subject to continuous pressure.
- B. Expanded Cellular Glazing Tapes: Closed-cell, PVC foam tapes; factory coated with adhesive on both surfaces; packaged on rolls with release liner protecting adhesive; and complying with AAMA 800 for the following types:
1. Type 1, for glazing applications in which tape acts as the primary sealant.



2. Type 2, for glazing applications in which tape is used in combination with a full bead of liquid sealant.

## 2.6 MISCELLANEOUS GLAZING MATERIALS

- A. General: Provide products of material, size, and shape complying with referenced glazing standard, requirements of manufacturers of glass and other glazing materials for application indicated, and with a proven record of compatibility with surfaces contacted in installation.
- B. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufacturer.
- C. Setting Blocks: Elastomeric material with a Shore, Type A durometer hardness of 85, plus or minus 5.
- D. Spacers: Elastomeric blocks or continuous extrusions with a Shore, Type A durometer hardness required by glass manufacturer to maintain glass lites in place for installation indicated.
- E. Edge Blocks: Elastomeric material of hardness needed to limit glass lateral movement (side walking).
- F. Cylindrical Glazing Sealant Backing: ASTM C 1330, Type O (open-cell material), of size and density to control glazing sealant depth and otherwise produce optimum glazing sealant performance.
- G. Perimeter Insulation for Fire-Resistive Glazing: Identical to product used in test assembly to obtain fire-resistance rating.

## 2.7 FABRICATION OF GLAZING UNITS

- A. Fabricate glazing units in sizes required to glaze openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with written instructions of product manufacturer and referenced glazing publications, to comply with system performance requirements.

## 2.8 INSULATING-GLASS UNITS

- A. Clear Insulating-Glass Units IG: Solar Bronze Low-E Insulating-Glass Units IG:
  1. Available Products:
    - a. PPG
    - b. Pilkington
    - c. Old Castle
  2. Overall Unit Thickness and Thickness of Each Lite: 1 inch total.
  3. Tempered glass as shown on the drawings.

## PART 3 - EXECUTION

### 3.1 GLAZING

- A. General: Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.
1. Glazing channel dimensions, as indicated on Drawings, provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances. Adjust as required by Project conditions during installation.
  2. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of off Project site. Damaged glass is glass with edge damage or other imperfections that, when installed, could weaken glass and impair performance and appearance.
  3. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction sealant-substrate testing.
  4. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.
  5. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.
  6. Provide spacers for glass lites where length plus width is larger than 50 inches.
  7. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended in writing by glass manufacturer and according to requirements in referenced glazing publications.
- B. Tape Glazing: Position tapes on fixed stops so that, when compressed by glass, their exposed edges are flush with or protrude slightly above sightline of stops. Install tapes continuously, but not necessarily in one continuous length. Do not stretch tapes to make them fit opening.
1. Cover vertical framing joints by applying tapes to heads and sills first and then to jambs. Cover horizontal framing joints by applying tapes to jambs and then to heads and sills.
  2. Place joints in tapes at corners of opening with adjoining lengths butted together, not lapped. Seal joints in tapes with compatible sealant approved by tape manufacturer.
  3. Apply heel bead of elastomeric sealant.
  4. Center glass lites in openings on setting blocks and press firmly against tape by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings.
  5. Apply cap bead of elastomeric sealant over exposed edge of tape.
- C. Gasket Glazing (Dry): Fabricate compression gaskets in lengths recommended by gasket manufacturer to fit openings exactly, with allowance for stretch during installation.
1. Insert soft compression gasket between glass and frame or fixed stop so it is securely in place with joints miter cut and bonded together at corners.
  2. Center glass lites in openings on setting blocks and press firmly against soft compression gasket by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings. Compress gaskets to produce a weathertight seal without developing

bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.

3. Install gaskets so they protrude past face of glazing stops.

- D. Sealant Glazing (Wet): Install continuous spacers, or spacers combined with cylindrical sealant backing, between glass lites and glazing stops to maintain glass face clearances and to prevent sealant from extruding into glass channel and blocking weep systems until sealants cure. Secure spacers or spacers and backings in place and in position to control depth of installed sealant relative to edge clearance for optimum sealant performance.

1. Force sealants into glazing channels to eliminate voids and to ensure complete wetting or bond of sealant to glass and channel surfaces.
2. Tool exposed surfaces of sealants to provide a substantial wash away from glass.

### 3.2 CLEANING AND PROTECTION

- A. Protect exterior glass from damage immediately after installation by attaching crossed streamers to framing held away from glass. Do not apply markers to glass surface. Remove nonpermanent labels, and clean surfaces. Protect glass from contact with contaminating substances resulting from construction operations, including weld splatter. If, despite such protection, contaminating substances do come into contact with glass, remove substances immediately as recommended by glass manufacturer.
- B. Remove and replace glass that is broken, chipped, cracked, or abraded or that is damaged from natural causes, accidents, and vandalism, during construction period.

END OF SECTION 08800

## **ST. CHARLES COUNTY AIRPORT SMARTT FIELD**

MoDOT PROJECT NO. 13-111A-2

ST. CHARLES COUNTY BID NO. 14-158

DATE: July 1, 2014

TIME: 10:00 A.M.

### **PRE-BID CONFERENCE**

#### **1. RECORDING OF ATTENDEES**

- A. Recording of attendees, firm represented, address, phone number and email.

#### **2. INTRODUCTIONS & PROJECT DESCRIPTION**

##### A. St. Charles County Representatives

- Dennis Wiss – Airport Director
- Steve Perkins – Airport
- Pam Luesse – St. Charles County Finance

##### B. Design Team

- Dennis Orne – LePique & Orne Architects, Inc.
- Ryan Lorton – Jviation, Inc.
- James Dutt – Shannon & Wilson, Inc.

##### C. MoDOT Aviation

- Dion Knipp – Project Manager

##### D. Project Scope

- Main Terminal Repair & Renovation including new well
  - Overview of Terminal Work

##### E. Major Work Items

#### **BASE BID:**

- 1. TERMINAL BUILDING REPAIR & RENOVATION ..... 1 LS
- 2. WELL MOBILIZATION/DEMOBILIZATION ..... 1 LS

3. SURFACE SEAL ..... 1 LS
4. 8-INCH DRILL AND CASE ..... 100 LF
5. 8-INCH DRIVE SHOE ..... 1 EA
6. 8-INCH WIRE-WRAPPED S.S. TELESCOPIC WELL SCREEN ..... 20 LF
7. HOURLY INSTALL/DEVELOP HOUR .....16 HOUR
8. INSTALL/REMOVE TEST PUMP ..... 1 LS
9. HOURLY PUMPING ..... 30 HOURS
10. PRODUCTION PUMP & COMPONENTS ..... 1 LS
11. INSALL & TEST PRODUCTION PUMP ..... 20 HOURS
12. INSTALL 2" COPPER WATER LINE AT 42" MINIMUM COVER ..... 400 LF
13. WATER QUALITY TESTING ..... 1 LS

ALTERNATE BIDS: (Listed in Order of Priority)

1. Provide And Install Ceramic Wall & Floor Tile In The Restrooms In Lieu Of Painted Walls & Vct Flooring As Shown On The Drawings And Identified In The Specifications.
2. Provide And Install Lvt Flooring In The Hall In Lieu Of Vct Flooring As Shown On The Drawings And Identified In The Specifications.
3. Provide And Install Composite Decking In Lieu Of Wood Decking As Shown On The Drawings And Identified In The Specifications.
4. Provide And Install A Metal Canopy At The Rear Door As Shown On The Drawings And Identified In The Specifications.

### 3. BID OPENING

- A. Date: Thursday, July 17, 2014 at 2:00 P.M. (CST)
- B. Location: St. Charles County Finance Department  
201 N. Second Street  
Suite 541  
St. Charles, MO 63301
- C. Bid Bond: 5% of bid amount – Section 2, Instructions to Bidders, Paragraph 4 and Section 20-10 Bid Guaranty.

D. Contract Proposal: Proposal Form must be filled out in its entirety.

E. Award: Notice to Bidders, Section 1, Page 2 and Section 30 Award and Execution of Contract.

#### **4. DBE GOALS**

A. 0% of Contract Amount.

#### **5. ESTIMATED CRITICAL CONTRACT DATES**

A. Contract Award: Summer 2014 (ESTIMATED) –The signature of the bidder on the proposal form indicates that within thirty (30) calendar days from acceptance of its bid offer it will execute a contract with the Owner and, if indicated in this solicitation, furnish a project specific Certificate of Insurance naming the Owner as Additional Insured, furnish Performance and Payment Bonds and any other documents required by the Contract Documents.

B. Notice to Proceed: Summer 2014 (ESTIMATED), Refer to Section 80-2.

Project Time: 90 Calendar Days, Refer to Section 80-08 for more information.

#### **6. BONDING**

A. Payment Bond: 100% of Bid Amount, Refer to Section 30-6

B. Performance Bond: 100% of Bid Amount, Refer to Section 30-6

#### **7. BUY AMERICAN REQUIREMENTS**

A. See Section 4 – Supplementary Provisions, Part A Federal and State Provisions for Buy American Requirements. Buy American Certification required to be submitted as part of the Bid Proposal Form.

#### **8. INSURANCE REQUIREMENTS**

Refer to Section 4, Part C Local Provisions, Paragraph 12 for Contractor's Liability Insurance.

A. The Contractor shall pay for and maintain during the life of this contract adequate Workmen's Compensation, Public Liability and Property Damage Insurance. The Contractor is charged with the responsibility for adequate and proper coverage for all his subcontract operations. Contractor shall furnish to the Sponsor satisfactory proof of carriage of the insurance required.

#### **9. FEDERAL AND STATE WAGE RATES (DAVIS BACON ACT)**

A. The higher of the Federal wage and State wage rates are required for this project for work completed under Schedule I. Refer to Section 4, Part D Federal and State Wage Rates.

#### **10. ENGINEER'S FIELD OFFICE**

A. Not applicable to this project.

## 11. LIQUIDATED DAMAGES

- A. As compensation for non-use, the Contractor shall be assessed a liquidated damage of **\$750/calendar day(s)** for each day that the work remains uncompleted beyond the contract period.

### SECTION 80-08 FAILURE TO COMPLETE ON TIME.

LIQUIDATED DAMAGES COST	ALLOWED CONSTRUCTION TIME
\$750/Calendar Day	90 Calendar Days

Permitting the Contractor to continue and finish the work or any part of it after the time fixed for its completion, or after the date to which the time for completion may have been extended, will in no way operate as a waiver on the part of the Owner of any of its rights under the contract.

## 12. MISCELLANEOUS

- A. Construction Materials: Sales Tax Exemption. Refer to Section 4, Part C Local Provisions, Paragraph 14 Sales and Use Taxes.
- B. Contractor Access: Grafton Ferry Road as shown on the plans.
- C. Staging Area: In parking lot adjacent to Terminal as shown on the plans.
- D. Questions will be taken via written format only to Jviation, Inc. until **Monday, July 14, 2014 5:00 p.m. (CST)**.

## 13. QUESTIONS

# Pre-Bid Meeting Attendees

Date: 7-1-14

Project: SB14-138 SMART FIELD MAIN TERMINAL REPAIR & RENOVATION

Location: COUNTY AIRPORT MAIN TERMINAL

Name	Company	Email Address	Phone
CHRIS KOZENY	KOZENY-WAGNER	ckozeny@kozeny-wagner.com	636.296.2012
Brittney Spaeth	Ben Hur	bis@benhurconstruction.com	314 218 2154
Larry Juern	Demien Construction	l.juern@demienconstruction.com	636-332-5500
Andy Wohldmann	Freise Construction	awohldmann@freiseconstruction.com	636-661-5176
Gary Dewitt	Flynn Drilling	gary@flynn-drilling.com	636 528 6137
James Duff	Shannon & Wilson	JD@shannwil.com	(314) 750-1924
KEVIN LAMB	LAMB CONSTRUCTION	d.lamb@lambconstructionco.com	636/240-7907
Patrick Terrio	Terrio Contracting	pterrio@terrioccontracting.com	636-255-0808
Ros Wuebbeling	WES	rob@wesconstruction.com	636 508 0707 314 503 1295
RYAN LORTON	JVIATION	ryan.lorton@jviation.com	573-418-1450
DENNIS ORNE	LEPIQUE & ORNE ARCHT	dorne@lorarch.com	636-947-0099
DENNIS WISS	St. Charles County	dwiss@scscc.org	636 949 1893
GLENDA LAWRENCE	LEPIQUE & ORNE ARCHITECTS	glawrence@lorarch.com	636-947-0099 ext 12
Todd Thomas	Brocker Well & Pump	todd@bwp-inc.com	636 399 8283
PAM LUESSE	FINANCE	pluesse@scsccmo.org	636 949-7465