

August 21, 2015

To: Plan Holders for Improvements to the  
Kennett Memorial Airport  
Kennett, MO  
State Block Grant No. 15-079C-1

Transmitted herewith is Addendum **No. 1** to the Contract Documents and Specifications dated July 30, 2015, for Improvements to the Kennett Memorial Airport, Kennett, Missouri.

**SCHEDULE I:**

Construct 4-Unit Box Hangar

**SCHEDULE II:**

Construct Taxiway Widening

**SCHEDULE III:**

Install Gate Operator

Sincerely,

Jviation, Inc.



Andy Remstad  
Project Manager



Main 303.524.3030  
Fax 303.524.3031

900 S. Broadway | Suite 350 | Denver, CO | 80209

**ADDENDUM NO. 1  
TO  
CONTRACT DOCUMENTS AND SPECIFICATIONS  
FOR IMPROVEMENTS TO THE  
KENNETT MEMORIAL AIRPORT  
KENNETT, MISSOURI  
State Block Grant No. 15-079C-1**

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 and Specifications are modified as follows as of August 21, 2015:

**CONTRACT DOCUMENTS & SPECIFICATIONS**

1. Bid Item MO-209 Crushed Aggregate Base Course to be measured by the Square Yard (SY) and bid Item D-701b Flared End Section to be measured by Each (EA).
  - a. Revision to Section 1-1 and 1-2, Quantity Table, replace with revised **Section 1-1**, and **Section 1-2** Sheets, attached.
  - b. Replace Bid Proposal – Schedule II with revised sheet “**Bid Proposal – Schedule IIa**”, revise Mo-209 units to read “SY”, and D-701b to read “EA”, attached.
2. Bidders are required to submit forms B-1 through B-27. Revision to Section 2-1, Line 401, Revise to read “...SECTION B-1 THROUGH B-27.”, and Section B-27 heading.
  - a. Replace with revised **Section 2-1** Sheet, attached.
  - b. Replace with revised **Section B-27** Sheet, attached.
3. Include batt insulation per the attached specification 07 2100 Thermal Insulation in the project. All interior and exterior walls, the entire roof, and the cantilever doors are to receive insulation with the minimum indicated R-values.
  - a. Add **Section 07 2100**, attached spec. sheets, to the project.
4. Revise 1.3 Design Requirement, C. Design Loads, 6. Seismic Load soil site class to Site Class F .
  - a. Replace with revised Metal Building Systems specification **13-3419-3** Sheet, attached.

**PLANS**

1. Changes to electrical plans, **Sheet E100**
  - a. Replace entire plan sheet with the revised version.
2. Changes to electrical plans, **Sheet E200**
  - a. Replace entire plan sheet with the revised version.

## **QUESTIONS**

1. Are the hangar doors required to be hydraulic cantilever type doors?
  - a. Yes. The doors must be hydraulic cantilever type doors. Various manufacturers' doors will be acceptable, but this type of door, with this type of operating mechanism is required.
2. What are the requirements for the hangar slab concrete?
  - a. The building concrete strength requirements are to be determined by the structural engineer per the delegated work item "Foundation Design". Refer to page 7 of the geotechnical report for the slab-on-grade recommendations.
  - b. The exterior site concrete shall be per the P-501 specification, and shall have a flexural strength of 650 psi. At the contractor's option, the P-501 spec would be acceptable for the interior hangar slab concrete. The interior concrete slab shall be incidental to the Hangar bid items.
3. Do the delegated design items require an engineer stamp?
  - a. Yes, per the note on plan sheet G003, the contractor shall be responsible to provide engineered plans for the hangar building and for the foundation. These plans must be signed and sealed by a professional engineer licensed in the state of Missouri.

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

**SECTION 1**  
**NOTICE TO BIDDERS**

Kennett Memorial Airport  
Kennett, Missouri  
Project No. 15-079C-1

Sealed bids subject to the conditions and provisions presented herein will be received until 2:00 p.m., Thursday, August 27, 2015, and then publicly opened and read at Airport Conference Room, for furnishing all labor, materials, equipment and performing all work necessary to

Schedule I - Construct 4-Unit Box Hangar

Schedule II - Construct Taxilane Widening

Schedule III - Install Gate Operator

**Contract Documents.** The complete set of Specifications and Contract Documents can be downloaded from Jviation, Inc.'s bid site (<http://bid.jviation.com>), beginning on August 3, 2015. In order to submit a responsive bid as a Prime Contractor and to receive all necessary addendum(s) for this project, you must be on the Planholder's List. To view all planholder documents (contract documents, plans and addendums) you must fill out the online form located at (<http://www.jviation.com/bidrequest>). By filling out and submitting this form, you agree to be publicly listed on the bid site with your contact information as a planholder for all projects requested. **It is the planholder's responsibility to review the site for addendums and changes before submitting their proposal.** For additional information, please contact us via email at [bidinfo@jviation.com](mailto:bidinfo@jviation.com).

\*Note that contractors will NOT be automatically added to new projects. You will need to re-submit the online form for access to new projects. Once granted access, additional projects will use your same login credentials. **Note:** Plan ahead when submitting the online request form and allow up to 2 business days for approval and access to projects.

**Contract Work Items.** This project will involve the following work items and estimated quantities. Prospective bidders are hereby advised that the quantities indicated herein are approximate and are subject to change.

| ITEM NO. | ITEM DESCRIPTION                           | UNITS | SCHEDULE I | SCHEDULE II | SCHEDULE III |
|----------|--------------------------------------------|-------|------------|-------------|--------------|
|          |                                            |       | ESTIMATE   | ESTIMATE    | ESTIMATE     |
| MO-105a  | MOBILIZATION                               | LS    | 1          | 1           | 1            |
| MO-152a  | EMBANKMENT IN PLACE                        | CY    | -          | 220         | -            |
| MO-156a  | SILT FENCE                                 | LF    | -          | 80          | -            |
| MO-156b  | DITCH CHECK                                | EA    | -          | 6           | -            |
| MO-156c  | CULVERT PROTECTION                         | EA    | -          | 2           | -            |
| MO-209a  | CRUSHED AGGREGATE BASE COURSE (6 - INCHES) | SY    | -          | 750         | -            |
| MO-601a  | FULL DEPTH CONCRETE REMOVAL                | SY    | -          | 16          | -            |
| MO-620a  | PERMANENT PAVEMENT MARKINGS (YELLOW)       | SF    | -          | 135         | -            |

|          |                                                         |    |   |     |   |
|----------|---------------------------------------------------------|----|---|-----|---|
| MO-620b  | PERMANENT PAVEMENT MARKINGS (BLACK)                     | SF | - | 265 | - |
| D-701a   | 12-INCH REINFORCED CONCRETE PIPE, CLASS V               | LF | - | 205 | - |
| D-701b   | 12-INCH FLARED END SECTION                              | EA | - | 2   | - |
| D-701c   | REMOVE EXISTING 2-8" PVC STORM PIPE                     | LF | - | 80  | - |
| MO-901a  | SEEDING WITH HYDROMULCH                                 | AC | - | 0.5 | - |
| P-501a   | 6-INCH NON-REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT | SY | - | 625 | - |
| P-501b   | 6-INCH REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT     | SY | - | 95  | - |
| D-751a   | INLET (DOUBLE TYPE I)                                   | EA | - | 2   | - |
| F-100a   | INSTALL DUAL SWING GATE OPERATOR WITH ACCESSORIES       | LS | - | -   | 1 |
| ELEC-100 | ELECTRICAL SERVICE                                      | LS | 1 | -   | - |
| ARCH-100 | 3-UNIT HANGAR (33'X126')                                | EA | 1 | -   | - |
| ARCH-200 | 1-UNIT HANGAR (41'X48')                                 | EA | 1 | -   | - |

**Contract Time.** The owner has established a contract perform time of 120 calendar day(s) from the date of the Notice-to-Proceed. All project work shall be substantially completed within the stated timeframe. This project is subject to liquidated damages as prescribed in the project manual.

**Bid Security.** No bid will be considered unless accompanied by a bid bond secured by an approved surety or sureties, payable to the Kennett, for not less than five (5) percent of the total amount of the bid.

**Bonding Requirements.** The successful bidder will be required to furnish separate performance and payment bonds each in an amount equal to 100% of the contract price at the time of contract execution.

**Award of Contract.** The Owner intends to award a contract resulting from this solicitation to the lowest, responsive, responsible bidder, whose offer, conforming to the solicitation, will be most advantageous to, and in the best interest of, the Owner, cost or price and other factors considered.

- a. In addition to other factors, bid offers will be evaluated on the basis of advantages and disadvantages to the Owner that might result from offers received.
- b. The Owner reserves the right to reject any or all proposals and to waive informalities and/or irregularities in the bid offer. Bids may be held by the owner for a period not to exceed 90 calendar days from the date of the bid opening for the purpose of conducting the bid evaluation.
- c. Total bid will be evaluated and awarded as follows: It is the Owner's intent to award this bid based on the **TOTAL BASE BID FOR ALL ITEMS, split awards will not be made.**

## SCHEDULE II

| Item No. | Description                                |                                                       | Units | Estimated Quantity | Unit Price | Total |
|----------|--------------------------------------------|-------------------------------------------------------|-------|--------------------|------------|-------|
| MO-105a  | Mobilization                               | at the unit price of: _____dollars<br>and _____cents. | LS    | 1                  | \$         | \$    |
| MO-152a  | Embankment In Place                        | at the unit price of: _____dollars<br>and _____cents. | CY    | 220                | \$         | \$    |
| MO-156a  | Silt Fence                                 | at the unit price of: _____dollars<br>and _____cents. | LF    | 80                 | \$         | \$    |
| MO-156b  | Ditch Check                                | at the unit price of: _____dollars<br>and _____cents. | EA    | 6                  | \$         | \$    |
| MO-156c  | Culvert Protection                         | at the unit price of: _____dollars<br>and _____cents. | EA    | 2                  | \$         | \$    |
| MO-209a  | Crushed Aggregate Base Course (6 - Inches) | at the unit price of: _____dollars<br>and _____cents. | SY    | 750                | \$         | \$    |
| MO-601a  | Full Depth Concrete Removal                | at the unit price of: _____dollars<br>and _____cents. | SY    | 16                 | \$         | \$    |
| MO-620a  | Permanent Pavement Markings (Yellow)       | at the unit price of: _____dollars<br>and _____cents. | SF    | 135                | \$         | \$    |
| MO-620b  | Permanent Pavement Markings (Black)        | at the unit price of: _____dollars<br>and _____cents. | SF    | 265                | \$         | \$    |
| D-701a   | 12-Inch Reinforced Concrete Pipe, Class V  | at the unit price of: _____dollars<br>and _____cents. | LF    | 205                | \$         | \$    |
| D-701b   | 12-Inch Flared End Section                 | at the unit price of: _____dollars<br>and _____cents. | EA    | 2                  | \$         | \$    |
| D-701c   | Remove Existing 2-8" PVC Storm Pipe        | at the unit price of: _____dollars<br>and _____cents. | LF    | 80                 | \$         | \$    |

**SECTION 2**  
**INSTRUCTIONS TO BIDDERS**

This section contains excerpts of the bidding requirements from Section 20 of the General Provisions. The bidder's attention is directed to Section 20 for complete details.

**1. THE EXECUTED PROPOSAL FORM MUST BE SUBMITTED WITH EACH PAGE FROM SECTION B-1 THROUGH B-27. EACH FORM MUST BE COMPLETELY FILLED OUT.**

2. The apparent low bidder shall submit "evidence of competency" and "evidence of financial responsibility" to the owner no later than 3 business days after the specified date for opening bids.

3. Each bidder shall certify in the Proposal Form at the time of bid submittal that they acknowledge receipt of all issued addenda.

4. No bid will be considered unless accompanied by a bid bond secured by an approved surety or sureties (licensed to conduct surety business in the state of Missouri), payable to the owner, for not less than five (5) percent of the amount of the bid.

5. Proposals shall be sent to arrive at the time and date specified in Section 1, Notice to Bidders. Proposals received after the specified time and date will not receive consideration and will be returned unopened. Prior to submittal, the proposal shall be placed in a sealed opaque envelope and addressed to:

200 Cedar Street, Kennett, MO 63857

The upper left hand corner of the envelope should be marked as follows: Sealed Bid Proposal

Bid of NAME OF BIDDER

For construction improvements at Kennett Memorial Airport

State Block Grant Project No.: 15-079C-115-079C-1

To be opened at: 2:00 p.m., Thursday, August 27, 2015

For a modification to a previously submitted proposal, insert "Modification to Proposal" in place of "Sealed Bid Proposal".

6. The Owner reserves the right to reject any or all bids, as determined to be in the best interest of the Owner.

Causes for rejection of proposals include but are not limited to:

- Submittal of more than one proposal from the same partnership, firm or corporation;
- Failure by Bidder to submit the bid prior to the stated time and date for receipt of bids;
- Failure by Bidder to furnish satisfactory bid guarantee;
- Failure by Bidder to provide all information required of the bid forms;
- Failure by Bidder to comply with the requirements of bid instructions;

**THIS EXECUTED PROPOSAL FORM MUST BE SUBMITTED  
WITH SECTIONS B-1 THROUGH B-27 FILLED OUT COMPLETELY**

**SIGNATURE OF BIDDER**

The undersigned states that the correct LEGAL NAME AND ADDRESS of (1) the individual bidder, (2) each partner or joint venturer (whether individuals or corporations, and whether doing business under a fictitious name), or (3) the corporation (with the state in which it is incorporated) are shown below; that (if not signing with the intention to bind themselves to become responsible and sole bidder) they are the agent of, and they are signing and executing this (as indicated in the proper spaces below) as the bid of a

( ) sole individual                      ( ) partnership                      ( ) joint venture

( ) corporation, incorporated under the laws of state of \_\_\_\_\_.

Executed by bidder this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

Name of individual,  
all partners  
or joint venturers:

Address of each:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

doing business under the name of:

Address of principal place of business in Missouri:

(If using a fictitious name, show this  
name above in addition to legal names)

(If a corporation, show its name above)

ATTEST: (SEAL)

(Signature)

Secretary

(Signature)

(Title)

Please print name

Please print name

NOTE: If bidder is doing business under a fictitious name, the bid shall be executed in the legal name of the individual partners, joint ventures, or corporation, with the legal address shown, and registration of fictitious name filed with the secretary of state, as required by sections 417.200 to 417.230 RSMo. If the bidder is a corporation not organized under the laws of Missouri, it shall procure a certificate of authority to do business in Missouri, as required by section 351.572 et seq RSMo.

**SECTION 07 2100**  
**THERMAL INSULATION**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Board insulation at perimeter foundation wall and exterior wall behind interior wall finish.
- B. Building insulation.
- C. Vapor retarders.

**1.02 REFERENCE STANDARDS**

- A. ASTM C578 - Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.
- B. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.

**1.03 SUBMITTALS**

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data on product characteristics, performance criteria, and product limitations.
- C. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.

**1.04 QUALITY ASSURANCE**

- A. Comply with fire resistance and flammability ratings as shown and specified.
- B. Thicknesses specified are for the thermal conductivity (k-value at 75 degrees F) specified for each material. Provide adjusted thicknesses for approved use of substituted materials with different thermal conductivity ratings. Where insulation is specified to have a specific "R" value, furnish manufacturer's standard thickness required to equal or exceed the specified value.

**1.05 DELIVERY, STORAGE, AND HANDLING**

- A. Do not allow insulation materials to become wet, soiled, or covered with ice or snow. Comply with manufacturer's recommendations for handling, storage, and protection during installation.
- B. Protect plastic insulation from exposure to direct sunlight.
- C. Do not deliver plastic insulation materials to the project site ahead of time of installation. Protect at all times against ignition. Complete the installation and concealment of plastic materials as soon as possible in each area of work.

**1.06 FIELD CONDITIONS**

- A. Do not install insulation adhesives when temperature or weather conditions are detrimental to successful installation.

**PART 2 PRODUCTS**

**2.01 GLASS-FIBER BLANKET INSULATION**

- A. Manufacturers:
  - 1. CertainTeed Corporation.
  - 2. Guardian Fiberglass, Inc.
  - 3. Johns Manville.
  - 4. Knauf Fiber Glass.
  - 5. Owens Corning.
  - 6. See Section 01 1000 for Substitution Requests.
- B. Glass-Fiber Blanket Insulation with White poly facing.

- C. Provide in the required thickness to meet the R-Value indicated as follows:
  - 1. Walls to be R-13 min.
  - 2. Roof to be R-19 min.
  - 3. OH Doors to be R-13 min.

### 2.03 VAPOR RETARDERS

- A. Polyethylene Vapor Retarders: ASTM D 4397, 6 mils (0.15 mm) thick, with maximum permeance rating of 0.13 perm (7.5 ng/Pa x s x sq. m).
- B. Fire-Retardant, Reinforced-Polyethylene Vapor Retarders: 2 outer layers of polyethylene film laminated to an inner reinforcing layer consisting of either nonwoven grid of nylon cord or polyester scrim and weighing not less than 22 lb/1000 sq. ft. (10 kg/100 sq. m), with maximum permeance rating of 0.1317 perm (7.56 ng/Pa x s x sq. m) and with flame-spread and smoke-developed indexes of not more than 5 and 60, respectively.
  - 1. Products:
    - a. Raven Industries Inc.; DURA-SKRIM 2FR.
    - b. Reef Industries, Inc.; Griffolyn T-55 FR.
    - c. Approved equal, per Section 01 6000.
- C. Vapor-Retarder Tape: Pressure-sensitive tape of type recommended by vapor-retarder manufacturer for sealing joints and penetrations in vapor retarder.
- D. Vapor-Retarder Fasteners: Pancake-head, self-tapping steel drill screws; with fender washers.
- E. Single-Component Nonsag Urethane Sealant: ASTM C 920, Type I, Grade NS, Class 25, Use NT related to exposure, and Use O related to vapor-barrier-related substrates.
- F. Adhesive for Vapor Retarders: Product recommended by vapor-retarder manufacturer and with demonstrated capability to bond vapor retarders securely to substrates indicated.

### 2.04 ACCESSORIES

- A. Insulation Fasteners: Impaling clip of galvanized steel with washer retainer and clips, to be adhered to surface to receive insulation, length to suit insulation thickness and substrate, capable of securely and rigidly fastening insulation in place.
- B. Adhesive: Type recommended by insulation manufacturer for indicated applications.

## PART 3 EXECUTION

### 3.01 EXAMINATION

- A. Verify that substrate, adjacent materials, and insulation materials are dry and that substrates are ready to receive insulation and adhesive.
- B. Verify substrate surfaces are flat, free of honeycomb, fins, irregularities, or materials or substances that may impede adhesive bond.

### 3.02 GENERAL INSTALLATION

- A. Comply with insulation manufacturer's written instructions applicable to products and application indicated.
- B. Install insulation that is undamaged, dry, and unsoiled and that has not been left exposed at any time to ice, rain, and snow.
- C. Extend insulation in thickness indicated to envelop entire area to be insulated. Cut and fit tightly around obstructions and fill voids with insulation. Remove projections that interfere with placement.

- D. For preformed insulating units, provide sizes to fit applications indicated and selected from manufacturer's standard thicknesses, widths, and lengths. Apply single layer of insulation units to produce thickness indicated unless multiple layers are otherwise shown or required to make up total thickness.

### **3.03 BATT INSTALLATION FOR BUILDINGS**

- A. Apply insulation units to substrates by method indicated, complying with manufacturer's written instructions. If no specific method is indicated, bond units to substrate with adhesive or use mechanical anchorage to provide permanent placement and support of units.
- B. Seal and fill voids in completed installation with adhesive, mastic, or sealant as recommended by insulation manufacturer.
- C. Set vapor-retarder-faced units with vapor retarder to warm-in-winter side of construction, unless otherwise indicated.
  - 1. Tape joints and ruptures in vapor retarder, and seal each continuous area of insulation to surrounding construction to ensure airtight installation.
- D. Install mineral-fiber insulation in cavities formed by framing members according to the following requirements:
  - 1. Use insulation widths and lengths that fill the cavities formed by framing members. If more than one length is required to fill cavity, provide lengths that will produce a snug fit between ends.
  - 2. Place insulation in cavities formed by framing members to produce a friction fit between edges of insulation and adjoining framing members.
- E. Stuff glass-fiber loose-fill insulation into miscellaneous voids and cavity spaces where shown. Compact to approximately 40 percent of normal maximum volume equaling a density of approximately 2.5 lb/cu. ft. (40 kg/cu. m).

### **3.04 INSTALLATION OF VAPOR RETARDERS**

- A. General: Extend vapor retarder to extremities of areas to be protected from vapor transmission. Secure in place with adhesives or other anchorage system as indicated. Extend vapor retarder to cover miscellaneous voids in insulated substrates, including those filled with loose-fiber insulation.
- B. Seal vertical joints in vapor retarders over framing by lapping not less than two wall studs. Fasten vapor retarders to framing at top, end, and bottom edges; at perimeter of wall openings; and at lap joints. Space fasteners 16 inches (400 mm) o.c.
- C. Before installing vapor retarder, apply urethane sealant to flanges of metal framing including runner tracks, metal studs, and framing around door and window openings. Seal overlapping joints in vapor retarders with vapor-retarder tape according to vapor-retarder manufacturer's written instructions. Seal butt joints with vapor-retarder tape. Locate all joints over framing members or other solid substrates.
- D. Firmly attach vapor retarders to metal framing and solid substrates with vapor-retarder fasteners as recommended by vapor-retarder manufacturer.
- E. Seal joints caused by pipes, conduits, electrical boxes, and similar items penetrating vapor retarders with vapor-retarder tape to create an airtight seal between penetrating objects and vapor retarder.
- F. Repair tears or punctures in vapor retarders immediately before concealment by other work. Cover with vapor-retarder tape or another layer of vapor retarder.

### **3.05 PROTECTION**

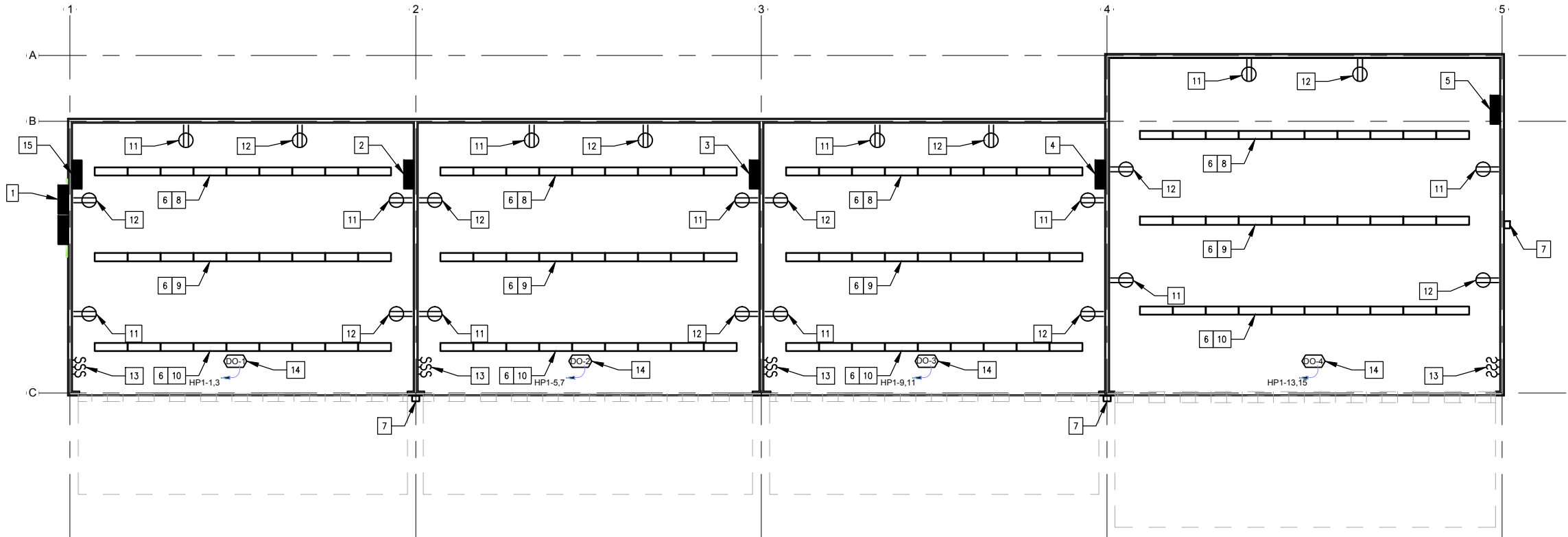
- A. Protect installed insulation and vapor retarders from damage due to harmful weather exposures, physical abuse, and other causes. Provide temporary coverings or enclosures where insulation is subject to abuse and cannot be concealed and protected by permanent construction immediately after installation.

**END OF SECTION**

- Z. AWS A2.4, Standard Welding Symbols, Miami, FL, 1998.
- AA. AWS D1.1, Structural Welding Code - Steel, Miami, FL, 2010.
- BB. AWS D1.3, Structural Welding Code - Sheet Steel, Miami, FL, 1998.
- CC. MBMA, Metal Building Systems Manual, Metal Building Manufacturers Association, Cleveland, OH, 2012.
- DD. NAIMA 202, Standard for Flexible Fiberglass Insulation Systems in Metal Buildings, 2000.
- EE. SJI, (Steel Joist Institute) - Standard Specifications, Load Tables and Weight Tables for Steel Joists and Joist Girders, 42nd Edition.
- FF. SSPC, (Society for Protective Coatings) - SP-2 - Specification for Hand Tool Cleaning, 2004 (Part of Steel Structures Painting Manual, Vol. Two)
- GG. SSPC, - Paint 15 – Steel Joist Shop Primer/Metal Building Primer; Society for Protective Coatings; 2004 (Part of Steel Structures Painting Manual, Vol. Two)
- HH. SSPC, – Paint 20 – Zinc-Rich Primers (Type I, "Inorganic," and Type II, "Organic"); Society for Protective Coatings; 1991 (Part of Steel Structures Painting Manual, Vol. Two).
- II. UL 580, - Tests for Uplift Resistance of Roof Assemblies, 2006 (with Revisions through July 2009).

### 1.3 DESIGN REQUIREMENTS

- A. The building shall be designed by the Manufacturer as a complete system. All components of the system shall be supplied or specified by the same manufacturer. The building shall be supplied by a manufacturer who is regular engaged in the manufacture of aircraft hangar buildings.
- B. Applicable Design Codes: See section 01 1000. Structural Steel Framing: See section 05 1200.
- C. Design Loads:
  - 1. Dead Load – Weight of the building system and components as determined by manufacturer.
  - 2. Roof Live Load – 20 PSF
  - 3. Collateral Load – Per Manufacturer.
  - 4. Roof Snow Load:
    - a. Ground Snow Load – 10 psf.
    - b. Roof Snow Load – 10 psf.
  - 5. Wind Load:
    - a. Wind Speed –90.
    - b. Wind Exposure – C.
  - 6. Seismic Load:
    - a. Spectral response acceleration for short periods (Ss) – 1.832 g
    - b. Spectral response acceleration for 1-sec. period (S1) – 0.657 g
    - c. Site Class – F
  - 7. Floor Load.



**SHEET NOTES**

1. INSTALL METER PACK ENCLOSURE WITH FIVE METER SOCKETS AND ADJACENT TERMINAL BOX WITH MAIN CIRCUIT BREAKER. COORDINATE WITH UTILITY ON REQUIREMENTS AND SERVICE INSTALLATION.
2. INSTALL POWER PANEL PP1.
3. INSTALL POWER PANEL PP2.
4. INSTALL POWER PANEL PP3.
5. INSTALL POWER PANEL PP4.
6. INSTALL 4" FLUORESCENT FIXTURE, MOUNT TO CEILING STEEL, LITHONIA C 2 32 MVOLT GEB10RS OR APPROVED EQUAL. NUMBER OF FIXTURES SHOWN ON PLAN.
7. INSTALL LED WALL PACK, PHOTOELECTRIC CONTROLLED, LITHONIA TWP LED 30C OR APPROVED EQUAL. PROVIDE PHOTOCELL CONTROL. SEE GENERAL NOTE 6 FOR ADDITIONAL INFORMATION.
8. CONNECT TO POWER PANEL CIRCUIT 1.
9. CONNECT TO POWER PANEL CIRCUIT 3.
10. CONNECT TO POWER PANEL CIRCUIT 5.
11. CONNECT TO POWER PANEL CIRCUIT 2.
12. CONNECT TO POWER PANEL CIRCUIT 4.
13. INSTALL 3 SWITCHES NEAR DOOR. EACH SWITCH SHALL CONTROL ONE ROW OF LIGHTING.
14. INSTALL 2-1/C #8 AWG THWN AND 1/C #10 GROUND FOR HANGAR DOOR POWER.
15. INSTALL HOUSE POWER PANEL HP1.

**GENERAL NOTES**

1. SEE SHEET E200 FOR PANEL SCHEDULES AND ONE-LINE DIAGRAM.
2. ALL WORK DESCRIBED ON THIS SHEET AND E200 SHALL BE CONSIDERED INCIDENTAL TO THE HANGER INSTALLATION.
3. ALL 120V, 20A BRANCH CIRCUITS SHALL BE 2-1/C #12 AWG AND #12 GROUND.
4. ALL CONDUCTORS SHALL BE COPPER.
5. ELECTRICAL INSTALLATION SHALL MEET THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND ANY LOCAL JURISDICTION REQUIREMENTS.
6. CONTRACTOR TO INSTALL NEW LED WALL PACKS, LITHONIA TWP LED 30C OR APPROVED EQUAL, ON ADJACENT EXISTING HANGER. CONTRACTOR SHALL REMOVE EXISTING WALL PACK FIXTURES AND INSTALL NEW FIXTURES IN SAME LOCATION. FIVE TOTAL NEW FIXTURES ON EXISTING BUILDING.
7. CONTRACTOR TO INSTALL 2" CONDUIT FROM METER ENCLOSURE TO EACH POWER PANEL. CONDUIT NOT SHOWN ON PLAN.

REISSUE ENTIRE SHEET

**1 ELECTRICAL PLAN**  
1/16" = 1'-0"

**ISSUE FOR BID**

THESE DRAWINGS ARE FOR BIDDING PURPOSES ONLY. THEY WERE PREPARED BY OR UNDER THE SUPERVISION OF:

RYAN B. LORTON PE-2004017211 07/30/15  
NAME REG. NO. DATE  
FOR AND ON BEHALF OF JVIATION, INC.



KENNETT MEMORIAL AIRPORT  
KENNETT, MISSOURI

| DES: A.J.R. | ISSUE RECORD |        |          |                |
|-------------|--------------|--------|----------|----------------|
|             | NO.          | BY     | DATE     | DESCRIPTION    |
| DR: J.A.C.  | 1            | R.B.L. | 07/30/15 | ISSUED FOR BID |
|             | 2            | R.B.L. | 08/21/15 | ADDENDUM NO. 1 |
| CH: C.L.G.  |              |        |          |                |
| APP: R.B.L. |              |        |          |                |

NEW BOX HANGARS  
AND TAXILANE WIDENING

**ELECTRICAL POWER AND  
LIGHTING PLAN**

AIP PROJ. NO. 15-079C-1  
JVIATION PROJ. NO. TKX-15-01  
DATE: 07/30/15

SHEET NAME  
E100  
SHEET NO.  
24 of 26

|                             |           |                     |   |                   |     |       |                     |                  |   |             |                          |           |
|-----------------------------|-----------|---------------------|---|-------------------|-----|-------|---------------------|------------------|---|-------------|--------------------------|-----------|
| PANEL: PP1                  |           |                     |   |                   |     |       |                     |                  |   |             |                          |           |
| 120/240V POWER PANELBOARD   |           |                     |   |                   |     |       |                     |                  |   |             |                          |           |
| AMPACITY: 100 AMP           |           |                     |   | NEUTRAL: 100%     |     |       |                     |                  |   |             |                          |           |
| AIC RATING: 22K AMP         |           |                     |   | MAIN CB: 100      |     |       |                     |                  |   |             |                          |           |
| VOLTAGE: 120/240 VOLT, 1-PH |           |                     |   | MOUNTING: SURFACE |     |       |                     |                  |   |             |                          |           |
| TYP                         | VA        | DESCRIPTION         | P | CB                | CKT | PH    | CKT                 | CB               | P | DESCRIPTION | VA                       | TYP       |
| L                           | 600       | INTERIOR LIGHTS     | 1 | 20                | 1   | L1    | 2                   | 20               | 1 | RECEPTACLES | 540                      | R         |
| L                           | 600       | INTERIOR LIGHTS     | 1 | 20                | 3   | L2    | 4                   | 20               | 1 | RECEPTACLES | 540                      | R         |
| L                           | 600       | INTERIOR LIGHTS     | 1 | 20                | 5   | L1    | 6                   |                  |   |             |                          |           |
|                             |           |                     |   |                   | 7   | L2    | 8                   |                  |   |             |                          |           |
|                             |           |                     |   |                   | 9   | L1    | 10                  |                  |   |             |                          |           |
|                             |           |                     |   |                   | 11  | L2    | 12                  |                  |   |             |                          |           |
|                             |           |                     |   |                   | 13  | L1    | 14                  |                  |   |             |                          |           |
|                             |           |                     |   |                   | 15  | L2    | 16                  |                  |   |             |                          |           |
|                             |           |                     |   |                   | 17  | L1    | 18                  |                  |   |             |                          |           |
|                             |           |                     |   |                   | 19  | L2    | 20                  |                  |   |             |                          |           |
|                             |           |                     |   |                   | 21  | L1    | 22                  |                  |   |             |                          |           |
|                             |           |                     |   |                   | 23  | L2    | 24                  |                  |   |             |                          |           |
|                             |           |                     |   |                   | 25  | L1    | 26                  |                  |   |             |                          |           |
|                             |           |                     |   |                   | 27  | L2    | 28                  |                  |   |             |                          |           |
|                             |           |                     |   |                   | 29  | L1    | 30                  |                  |   |             |                          |           |
| LOAD TYPE                   |           | CONNECTED LOAD (VA) |   | DEMAND FACTOR     |     |       |                     | DEMAND LOAD (VA) |   | NEC FACTOR  | DERATED DEMAND LOAD (VA) |           |
| LIGHTING                    |           | 1800                |   | 1.00              |     |       |                     | 1800             |   | 1.25        | 2250.0                   |           |
| REC                         | 1st 10kVA | 1080                |   | 1.00              |     |       |                     | 1080             |   | 1.00        | 1080.0                   |           |
|                             | REMAINING | 0                   |   | 0.50              |     |       |                     | 0                |   | 1.00        | 0.0                      |           |
| LARGEST MOTOR               |           | 0                   |   | 1.00              |     |       |                     | 0                |   | 1.25        | 0.0                      |           |
| REMAINING MOTORS            |           | 0                   |   | 1.00              |     |       |                     | 0                |   | 1.00        | 0.0                      |           |
| EQUIPMENT                   |           | 0                   |   | 1.00              |     |       |                     | 0                |   | 1.25        | 0.0                      |           |
| HEATING                     |           | 0                   |   | 1.00              |     |       |                     | 0                |   | 1.25        | 0.0                      |           |
| SUB-PANEL                   |           | 0                   |   | 1.00              |     |       |                     | 0                |   | 1.00        | 0.0                      |           |
| TRANSFORMER                 |           | 0                   |   | 1.00              |     |       |                     | 0                |   | 1.00        | 0.0                      |           |
| KITCHEN                     |           | 0                   |   | 1.00              |     |       |                     | 0                |   | 1.00        | 0.0                      |           |
| TOTAL                       |           | 2880                |   |                   |     |       |                     | 2880             |   |             | 3330                     |           |
| PHASE LOADING               |           |                     |   |                   |     |       |                     |                  |   |             |                          |           |
| L1=                         | 1740      | VA                  |   |                   |     |       | DERATED DEMAND LOAD |                  |   |             | 13.9                     | AMPS      |
| L2=                         | 1140      | VA                  |   |                   |     |       | SPARE CAPACITY      |                  |   |             | 86.1%                    | 86.1 AMPS |
|                             |           |                     |   |                   |     | TOTAL |                     |                  |   | 100.0       | AMPS                     |           |

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E200

PANEL SCHEDULE PP1/PP2/PP3/PP4

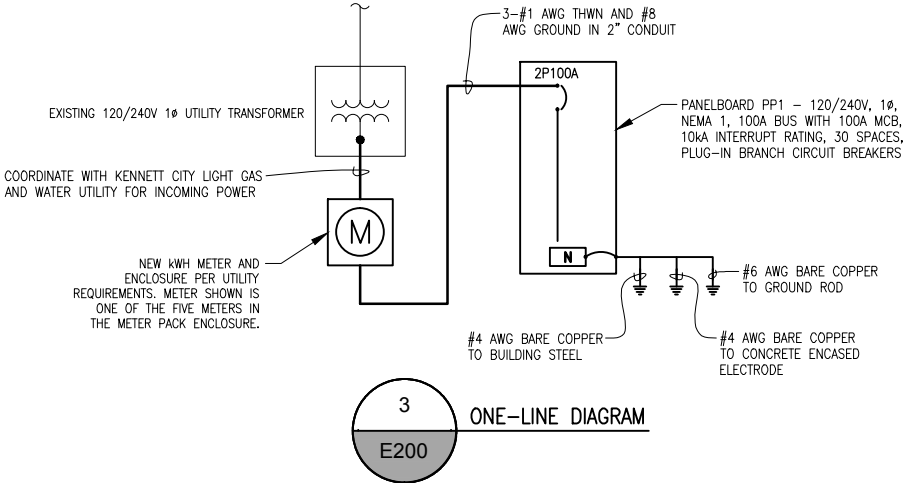
NOTES:  
1. PANEL SCHEDULE DEPICTS SERVICE TO ONE HANGER BAY. CONTRACTOR TO INSTALL 4 SEPARATE PANELS, ONE TO EACH OF THE FOUR HANGERS. PANEL SHALL BE LABELED PP1, PP2, PP3 AND PP4. PP4 SHALL BE LOCATED IN LARGEST HANGER.

|                             |           |                     |                     |                   |     |    |     |                  |       |                 |                          |     |  |
|-----------------------------|-----------|---------------------|---------------------|-------------------|-----|----|-----|------------------|-------|-----------------|--------------------------|-----|--|
| PANEL: HP1                  |           |                     |                     |                   |     |    |     |                  |       |                 |                          |     |  |
| 120/240V POWER PANELBOARD   |           |                     |                     |                   |     |    |     |                  |       |                 |                          |     |  |
| AMPACITY: 100 AMP           |           |                     |                     | NEUTRAL: 100%     |     |    |     |                  |       |                 |                          |     |  |
| AIC RATING: 22K AMP         |           |                     |                     | MAIN CB: 100      |     |    |     |                  |       |                 |                          |     |  |
| VOLTAGE: 120/240 VOLT, 1-PH |           |                     |                     | MOUNTING: SURFACE |     |    |     |                  |       |                 |                          |     |  |
| TYP                         | VA        | DESCRIPTION         | P                   | CB                | CKT | PH | CKT | CB               | P     | DESCRIPTION     | VA                       | TYP |  |
| E                           | 3500      | HANGAR DOOR DO-1    | 2                   | 40                | 1   | L1 | 2   | 20               | 1     | EXTERIOR LIGHTS | 300                      | L   |  |
| E                           | 3500      |                     |                     |                   | 3   | L2 | 4   |                  |       |                 |                          |     |  |
| E                           | 3500      | HANGAR DOOR DO-2    | 2                   | 40                | 5   | L1 | 6   |                  |       |                 |                          |     |  |
| E                           | 3500      |                     |                     |                   | 7   | L2 | 8   |                  |       |                 |                          |     |  |
| E                           | 3500      | HANGAR DOOR DO-3    | 2                   | 40                | 9   | L1 | 10  |                  |       |                 |                          |     |  |
| E                           | 3500      |                     |                     |                   | 11  | L2 | 12  |                  |       |                 |                          |     |  |
| E                           | 3500      | HANGAR DOOR DO-4    | 2                   | 40                | 13  | L1 | 14  |                  |       |                 |                          |     |  |
| E                           | 3500      |                     |                     |                   | 15  | L2 | 16  |                  |       |                 |                          |     |  |
|                             |           |                     |                     |                   | 17  | L1 | 18  |                  |       |                 |                          |     |  |
|                             |           |                     |                     |                   | 19  | L2 | 20  |                  |       |                 |                          |     |  |
|                             |           |                     |                     |                   | 21  | L1 | 22  |                  |       |                 |                          |     |  |
|                             |           |                     |                     |                   | 23  | L2 | 24  |                  |       |                 |                          |     |  |
|                             |           |                     |                     |                   | 25  | L1 | 26  |                  |       |                 |                          |     |  |
|                             |           |                     |                     |                   | 27  | L2 | 28  |                  |       |                 |                          |     |  |
|                             |           |                     |                     |                   | 29  | L1 | 30  |                  |       |                 |                          |     |  |
| LOAD TYPE                   |           | CONNECTED LOAD (VA) |                     | DEMAND FACTOR     |     |    |     | DEMAND LOAD (VA) |       | NEC FACTOR      | DERATED DEMAND LOAD (VA) |     |  |
| LIGHTING                    |           | 300                 |                     | 1.00              |     |    |     | 300              |       | 1.25            | 375.0                    |     |  |
| REC.                        | 1st 10kVA | 0                   |                     | 1.00              |     |    |     | 0                |       | 1.00            | 0.0                      |     |  |
|                             | REMAINING | 0                   |                     | 0.50              |     |    |     | 0                |       | 1.00            | 0.0                      |     |  |
| LARGEST MOTOR               |           | 0                   |                     | 1.00              |     |    |     | 0                |       | 1.25            | 0.0                      |     |  |
| REMAINING MOTORS            |           | 0                   |                     | 1.00              |     |    |     | 0                |       | 1.00            | 0.0                      |     |  |
| EQUIPMENT                   |           | 14000               |                     | 1.00              |     |    |     | 14000            |       | 1.25            | 17500.0                  |     |  |
| HEATING                     |           | 0                   |                     | 1.00              |     |    |     | 0                |       | 1.25            | 0.0                      |     |  |
| SUB-PANEL                   |           | 0                   |                     | 1.00              |     |    |     | 0                |       | 1.00            | 0.0                      |     |  |
| TRANSFORMER                 |           | 0                   |                     | 1.00              |     |    |     | 0                |       | 1.00            | 0.0                      |     |  |
| KITCHEN                     |           | 0                   |                     | 1.00              |     |    |     | 0                |       | 1.00            | 0.0                      |     |  |
| TOTAL                       |           | 14300               |                     |                   |     |    |     | 14300            |       |                 | 17875                    |     |  |
| PHASE LOADING               |           |                     |                     |                   |     |    |     |                  |       |                 |                          |     |  |
| L1=                         | 14300     | VA                  | DERATED DEMAND LOAD |                   |     |    |     | 74.5             | AMPS  |                 |                          |     |  |
| L2=                         | 14000     | VA                  | SPARE CAPACITY      |                   |     |    |     | 25.5%            | 25.5  | AMPS            |                          |     |  |
|                             |           |                     | TOTAL               |                   |     |    |     |                  | 100.0 | AMPS            |                          |     |  |

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E200

PANEL SCHEDULE HP1



NOTES:  
1. ONE-LINE DEPICTS SERVICE TO ONE HANGER. CONTRACTOR TO INSTALL 5 SEPARATE SERVICES, ONE TO EACH OF THE FOUR HANGERS AND ONE SERVICE FOR THE HOUSE POWER PANEL.  
2. CONTRACTOR TO PROVIDE METER ENCLOSURE PACK CONTAINING FIVE METER SOCKETS IN ONE ENCLOSURE. PROVIDE TERMINAL BOX ADJACENT TO METER ENCLOSURE WITH MAIN CIRCUIT BREAKER FOR INCOMING SERVICE WIRES. COORDINATE WITH UTILITY FOR REQUIREMENTS.

REISSUE ENTIRE SHEET



#### ISSUE FOR BID

THESE DRAWINGS ARE FOR BIDDING PURPOSES ONLY. THEY WERE PREPARED BY OR UNDER THE SUPERVISION OF:

|                                      |               |          |
|--------------------------------------|---------------|----------|
| RYAN B. LORTON                       | PE-2004017211 | 07/30/15 |
| NAME                                 | REG. NO.      | DATE     |
| FOR AND ON BEHALF OF JVIATION , INC. |               |          |

#### ELECTRICAL PANEL SCHEDULE AND DETAILS

|               |                    |          |
|---------------|--------------------|----------|
| AIP PROJ. NO. | JVIATION PROJ. NO. | DATE:    |
| 15-079C-1     | TKX-15-01          | 07/30/15 |

#### SHEET NAME

E200

#### SHEET NO.

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JVIATION®

KENNETT MEMORIAL AIRPORT  
KENNETT, MISSOURI

|             |              |        |          |                |
|-------------|--------------|--------|----------|----------------|
| DES: A.J.R. | ISSUE RECORD |        |          |                |
|             | NO.          | BY     | DATE     | DESCRIPTION    |
| DR: J.A.C.  | 1            | R.B.L. | 07/30/15 | ISSUED FOR BID |
|             | 2            | R.B.L. | 08/21/15 | ADDENDUM NO. 1 |
| CH: C.L.G.  |              |        |          |                |
|             |              |        |          |                |
| APP: R.B.L. |              |        |          |                |
|             |              |        |          |                |

NEW BOX HANGARS  
AND TAXILANE WIDENING