

June 9, 2016

To: Plan Holders for Improvements to the

Spirit of St. Louis Aiport St. Louis County, Missouri MoDOT Project No. 15-113A-3

St. Louis County IFB No. 2016-05-3611-PG

Transmitted herewith is Addendum **No. 1** to the Issued for Bid Contract Documents, Specifications and Plans dated May 23, 2016 for Improvements to the Spirit of St. Louis Airport.

Schedule I: Runway 8L/26R Pavement and Lighting Rehabilitation



Sincerely,

Jviation, Inc.

Ryan B. Lorton, P.E. Project Manager

ADDENDUM NO. 1

TO

CONTRACT DOCUMENTS, SPECIFICATIONS AND PLANS
FOR IMPROVEMENTS TO THE
SPIRIT OF ST. LOUIS AIRPORT
ST. LOUIS COUNTY, MISSOURI
MODOT PROJECT NO. 15-113A-3

ST. LOUIS COUNTY IFB NO. 2016-05-3611-PG

Bidders are informed that the above referenced Contract Documents, Specifications and Plans are modified as follows as of June 9, 2016:

1. CONTRACT DOCUMENTS

Section: Notice to Bidders Subsection: First Paragraph

Page: 1

Revision: Delete the words: "paving fabric". Paving fabric is not included in

the project, and delete "UNI" and replace with the word "unit".

Section: Notice to Bidders

Subsection: Contract Work Items Table

Page: 2

Revision: Delete the "Contract Work Items" table in its entirety and replace with

the attached revised "Contract Work Items" table.

Section: Notice to Bidders

Subsection: After Subsection "Airport Job Special Provision"

Page: 5

Revision: Add the following section:

"Federal Provisions: If the County provisions conflict with the Federal

provisions, the Federal provisions shall govern."

Section: P109 Form Subsection: Paragraph 16

Page: 5

Revision: Delete the first sentence in its entirety and replace with the following

sentence:

"The successful bidder shall comply with all requirements of the Federal Davis Bacon rates and the Missouri Prevailing Wage Law,

Chapter 290, as amended."

Section: Document 00300 BID FORM
Subsections: Entire 00300 BID FORM
Pages: 300-1 through 300-18

Revisions: The pay items and quantities in the BASE BID proposal form have been revised.

Delete the "DOCUMENT 00300 BID FORM" in its entirety and replace with the

attached revised "DOCUMENT 00300 BID FORM".

Section: Document 00775 LIQUIDATED DAMAGES/SUBSTANTIAL

COMPLETION

Subsection: Paragraph 1.01

Page: 00775-1

Revision: Delete the words "Sunday and holidays excepted".

Section: Document 00775 LIQUIDATED DAMAGES/SUBSTANTIAL

COMPLETION

Subsection: Paragraph 1.06

Page: 00775-1

Revision: Delete the words "Sunday and County holidays excepted (unless

Contractor works that day)".

2. TECHNICAL SPECIFICATIONS

Section: SECTION 5 TECHNICAL SPECIFICATIONS

Subsection: 620-5.1 BASIS OF PAYMENT

Page: MO-620-4

Revision: The pay item for "Temporary Airport Pavement Marking (Black)" has been

revised.

Delete page MO-620-4 in its entirety and replace with the attached revised page

MO-620-4.

3. PLAN SET

a. G003 (Sheet 3) General Notes

MATERIAL SUPPLY AND DISPOSAL

Delete Note No. 2 under this subsection and replace with the following note:

"ALL WASTE MATERIALS SHALL BE REMOVED FROM THE AIRPORT PROPERTY AT NO COST TO THE SPONSOR, WITH THE EXCEPTION OF ALL ASPHALT MILLINGS FROM THE PROJECT. THE AIRPORT SHALL RETAIN ALL ASPHALT MILLINGS ON AIRPORT PROPERTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAULING THE MILLINGS TO THE APPROXIMATE LOCATION OF THE CONTRACTOR BORROW AREA LOCATION AS SHOWN ON THE PHASING SHEETS. THE HAULING AND STOCKPILING OF THE ASPHALT MILLING MATERIAL SHALL BE INCIDENTAL TO PAY ITEM P-101a VARIABLE DEPTH MILLING."

b. G004 (Sheet 4) Summary of Approximate Quantities

Delete this sheet in its entirety and replace with the attached revised G004 (Sheet 4) Summary of Approximate Quantities

c. C100 (Sheet 12) Demolition Plan

Add "(INCIDENTAL TO P-101b)" to the "4.00' BUTT JOINT" labels on TW E6.

DEMOLITION LEGEND,

Add "(P-101a)" after "ASPHALT CRACK FILLING AND VARIABLE DEPTH MILLING".

Add "(P-101b)" after "FULL DEPTH ASPHALT REMOVAL".

Add "(INCIDENTAL TO FULL DEPTH ASPHALT REMOVAL P-101b)" after "BITUMINOUS MILLING/BUTT JOINT".

See attached revised sheet C100.

d. C101 (Sheet 13) Demolition Plan

DEMOLITION LEGEND,

Add "(P-101a)" after "ASPHALT CRACK FILLING AND VARIABLE DEPTH MILLING".

Add "(P-101b)" after "FULL DEPTH ASPHALT REMOVAL".

Add "(INCIDENTAL TO FULL DEPTH ASPHALT REMOVAL P-101b)" after "BITUMINOUS MILLING/BUTT JOINT".

e. C102 (Sheet 14) Demolition Plan

DEMOLITION LEGEND,

Add "(P-101a)" after "ASPHALT CRACK FILLING AND VARIABLE DEPTH MILLING".

Add "(P-101b)" after "FULL DEPTH ASPHALT REMOVAL".

Add "(INCIDENTAL TO FULL DEPTH ASPHALT REMOVAL P-101b)" after "BITUMINOUS MILLING/BUTT JOINT".

f. C103 (Sheet 15) Demolition Plan

DEMOLITION LEGEND,

Add "(P-101a)" after "ASPHALT CRACK FILLING AND VARIABLE DEPTH MILLING".

Add "(P-101b)" after "FULL DEPTH ASPHALT REMOVAL".

Add "(INCIDENTAL TO FULL DEPTH ASPHALT REMOVAL P-101b)" after "BITUMINOUS MILLING/BUTT JOINT".

g. C104 (Sheet 16) Demolition Plan

DEMOLITION LEGEND,

Add "(P-101a)" after "ASPHALT CRACK FILLING AND VARIABLE DEPTH MILLING".

Add "(P-101b)" after "FULL DEPTH ASPHALT REMOVAL".

Add "(INCIDENTAL TO FULL DEPTH ASPHALT REMOVAL P-101b)" after "BITUMINOUS MILLING/BUTT JOINT".

h. C105 (Sheet 17) Demolition Plan

DEMOLITION LEGEND,

Add "(P-101a)" after "ASPHALT CRACK FILLING AND VARIABLE DEPTH MILLING".

Add "(P-101b)" after "FULL DEPTH ASPHALT REMOVAL".

Add "(INCIDENTAL TO FULL DEPTH ASPHALT REMOVAL P-101b)" after "BITUMINOUS MILLING/BUTT JOINT".

i. C106 (Sheet 18) Demolition Plan

DEMOLITION LEGEND,

Add "(P-101a)" after "ASPHALT CRACK FILLING AND VARIABLE DEPTH MILLING".

Add "(P-101b)" after "FULL DEPTH ASPHALT REMOVAL".

Add "(INCIDENTAL TO FULL DEPTH ASPHALT REMOVAL P-101b)" after "BITUMINOUS MILLING/BUTT JOINT".

j. C107 (Sheet 19) Demolition Plan

DEMOLITION LEGEND,

Add "(P-101a)" after "ASPHALT CRACK FILLING AND VARIABLE DEPTH MILLING".

Add "(P-101b)" after "FULL DEPTH ASPHALT REMOVAL".

Add "(INCIDENTAL TO FULL DEPTH ASPHALT REMOVAL P-101b)" after "BITUMINOUS MILLING/BUTT JOINT".

k. C200 (Sheet 20) Geometric Plan

GEOMETRIC LEGEND,

In two locations where "(P-401a)" is referenced, replace with "(P-401Fa)".

1. C201 (Sheet 21) Geometric Plan

GEOMETRIC LEGEND,

In two locations where "(P-401a)" is referenced, replace with "(P-401Fa)".

m. C202 (Sheet 22) Geometric Plan

GEOMETRIC LEGEND,

In two locations where "(P-401a)" is referenced, replace with "(P-401Fa)".

n. C203 (Sheet 23) Geometric Plan

GEOMETRIC LEGEND,

In two locations where "(P-401a)" is referenced, replace with "(P-401Fa)".

o. C204 (Sheet 24) Geometric Plan

GEOMETRIC LEGEND,

In two locations where "(P-401a)" is referenced, replace with "(P-401Fa)".

p. C205 (Sheet 25) Geometric Plan

GEOMETRIC LEGEND,

In two locations where "(P-401a)" is referenced, replace with "(P-401Fa)".

q. C206 (Sheet 26) Geometric Plan

GEOMETRIC LEGEND,

In two locations where "(P-401a)" is referenced, replace with "(P-401Fa)".

r. C207 (Sheet 27) Geometric Plan

GEOMETRIC LEGEND,

In two locations where "(P-401a)" is referenced, replace with "(P-401Fa)".

s. C500 (Sheet 40) Plan and Profile

Delete this sheet in its entirety and replace with the attached revised C500 (Sheet 40) Plan and Profile

t. C501 (Sheet 41) Plan and Profile

Delete this sheet in its entirety and replace with the attached revised C501 (Sheet 41) Plan and Profile

u. C504 (Sheet 44) Plan and Profile

Delete this sheet in its entirety and replace with the attached revised C504 (Sheet 44) Plan and Profile

v. C601 (Sheet 46) Typical Sections

Delete this sheet in its entirety and replace with the attached revised C601 (Sheet 46) Typical Sections

w. C700 (Sheet 47) Pavement Marking Plan

Delete this sheet in its entirety and replace with the attached revised C700 (Sheet 47) Pavement Marking Plan

x. C701 (Sheet 48) Pavement Marking Plan

Delete this sheet in its entirety and replace with the attached revised C701 (Sheet 48) Pavement Marking Plan

y. C702 (Sheet 49) Pavement Marking Plan

Delete this sheet in its entirety and replace with the attached revised C702 (Sheet 49) Pavement Marking Plan

z. C703 (Sheet 50) Pavement Marking Plan

Delete this sheet in its entirety and replace with the attached revised C703 (Sheet 50) Pavement Marking Plan

aa. C750 (Sheet 51) Pavement Marking Details

Delete this sheet in its entirety and replace with the attached revised C750 (Sheet 51) Pavement Marking Details

bb. E001 (Sheet 64) Electrical Legend and Notes

Delete this sheet in its entirety and replace with the attached revised E001 (Sheet 64) Electrical Legend and Notes

cc. E100 (Sheet 65) Electrical Plan

Delete this sheet in its entirety and replace with the attached revised E100 (Sheet 65) Electrical Plan

dd. E101 (Sheet 66) Electrical Plan

Delete this sheet in its entirety and replace with the attached revised E101 (Sheet 66) Electrical Plan

ee. E102 (Sheet 67) Electrical Plan

Delete this sheet in its entirety and replace with the attached revised E102 (Sheet 67) Electrical Plan

ff. E103 (Sheet 68) Electrical Plan

Delete this sheet in its entirety and replace with the attached revised E103 (Sheet 68) Electrical Plan

gg. E104 (Sheet 69) Electrical Plan

Add Note No. 6 as follows:

"THE PROPOSED RUNWAY 8L-26R ELECTRICAL HOMERUN LOCATION as SHOWN ON THE ELECTRICAL PLANS IS ADJACENT TO THE EXISTING TAXIWAY F ELECTRICAL HOMERUN. THE CONTRACTOR SHALL LOCATE AND PROTECT THE EXISTING TAXIWAY F ELECTRICAL HOMERUN FROM DAMAGE AND SHALL INSTALL THE PROPOSED RUNWAY 8L-26R ELECTRICAL HOMERUN APPROXIMATELY 5' FROM AND PARALLEL TO THE TAXIWAY F ELECTRICAL HOMERUN."

hh. E200 (Sheet 70) Electrical Details

Delete this sheet in its entirety and replace with the attached revised E200 (Sheet 70) Electrical Details

ii. E201 (Sheet 71) Airfield Lighting Vault Plan

Delete this sheet in its entirety and replace with the attached revised E201 (Sheet 71) Airfield Lighting Vault Plan

4. PRE BID MEETING QUESTIONS

a. What is the anticipated timeframe for the construction of this project?

Answer: The Airport intends to award the project within 90 days of the bid opening and intends for the project to be completed this calendar year.

b. Are pull boxes for pulling the homerun cable through the existing ducts included in the project?

Answer: The Contractor is responsible for installing pull boxes where needed if necessary to pull the homerun electrical cable through the existing ducts. If pull boxes are installed by the Contractor, they shall be approved by the Airport and Engineer and shall be considered incidental to the installation of the respective MO-108 pay item.

c. Where is the counterpoise cable to be installed in relation to the 5Kv electrical cables?

Answer: See Sheet E200 for the two details that describe the location of the proposed counterpoise. For counterpoise to be installed adjacent to pavement, reference Detail 1 on Sheet E200 – TRENCH (DEB) PARALLEL TO PAVEMENT DETAIL. For counterpoise to be installed not adjacent to pavement (as in the case of the electrical homerun), reference Detail 2 on Sheet E200 – TRENCH (DEB) DETAIL. At the location where the contractor is to install new unit duct through the existing 4" ducts, no new counterpoise will be installed at these locations.

d. Is plowing of the proposed unit duct allowable for this project in lieu of trenching the proposed unit duct?

Answer: Yes, per MO-108 UNDERGROUND POWER CABLE FOR AIRPORTS, Section 108-3.3 INSTALLATION OF CABLE IN UNIT DUCT, plowing-in of cable-in-unit duct is allowable at no additional cost to the contract. Please review this section for the requirements associated with plowing-in unit duct.

e. Is GPS allowed to be used in lieu of setting stringline for the variable depth milling and bituminous paving?

Answer: Yes, per P-101 SURFACE PREPARATION, Section 101-3.5 COLD MILLING, paragraph b. Profiling, grade correction, or surface correction, the milling machine shall be equipped with electronic grade control devices that will cut the surface to the grade and tolerances specified. Also, per MO-401F PLANT MIX BITUMINOUS PAVEMENTS, Section 401-4.4 BITUMINOUS PAVERS, laser control is an acceptable method of grade control. The Owner will not pay over the plan quantity of asphalt under MO-401Fa BITUMINOUS ASPHALT PAVEMENT (BP-1), unless the Contractor provides sufficient survey information to justify

additional asphalt tonnage that exceeds the plan quantity. Additional asphalt tonnage due to over-milling will not be justification for paying more than the plan quantity of asphalt. See the GENERAL PROVISIONS Section 50-06 CONSTRUCTION LAYOUT AND STAKES regarding Contractor's survey requirements under paragraph F. Pavement areas.

f. Does the County accept electronic bid bonds when submitting bids electronically?

Answer: Yes, the County will accept a properly documented electronic Bid Bond submitted with the bid for this project.

g. How will qualified DBE contractors be evaluated?

Answer: The MoDOT DBE Program lists current certified DBE Contractors and Suppliers. This information can be found at the following website:

http://contribute.modot.mo.gov/business/contractor_resources/External_Civil_Rights/mrcc.htm

5. PRE BID MEETING AGENDA AND SIGN-IN SHEET

The Pre Bid Meeting Agenda and Sign-In Sheet are attached to this addendum.

6. PLANHOLDERS LIST

The current Plan Holders List is attached to this addendum.

END OF ADDENDUM NO. 1

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 1
MO-105a	Mobilization	LS	1
P101a	Variable Depth Milling	SY	43,433
P-101b	Bituminous Pavement Removal (Full Depth)	SY	105
MO-152a	Embankment	CY	2,565
MO-156a	Silt Fence	LF	10,000
MO-209a	Crushed Aggregate Base Course	SY	110
MO-401Fa	Bituminous Asphalt Pavement (BP-1)	TON	6,145
MO-603a	Bituminous Tack Coat	GAL	6,530
MO-620a	Temporary Airport Runway Pavement Marking (White)	SF	26,830
MO-620b	Temporary Airport Taxiway Pavement Marking (Yellow)	SF	3,315
MO-620c	Temporary Airport Taxiway Pavement Marking (Red)	SF	170
MO-620d	Airport Runway Pavement Marking (White)	SF	26,830
MO-620e	Airport Taxiway Pavement Marking (Yellow)	SF	3,315
MO-620f	Airport Pavement Marking (Black)	SF	3,450
MO-620h	Airport Taxiway Pavement Marking (Red)	SF	170
MO-620i	Airport Pavement Marking Removal	SF	2,610
MO-622a	Crack Sealing	LF	35,000
MO-901a	Seeding with Hydromulch	AC	11
MO-108a	1/C #8 AWG, L-824C, 5,000 Volt Wire, Installed in 1-1/2" Unit Duct	LF	12,000
MO-108b	2-1/C #8 AWG, L-824C, 5,000 Volt Wire, Installed in 1-1/2" Unit Duct	LF	2,500
MO-108c	#6 AWG Bare Copper Counterpoise, including ground rods	LF	14,500
MO-125a	Remove Runway Edge Light	EA	62
MO-125b	Adjust Taxiway Edge Light	EA	33
MO-125c	Install L-861/L-861E Base Mounted Runway Edge/Threshold Light	EA	12
MO-125d	Install L-861/L-861E Stake Mounted Runway Edge/Threshold Light	EA	53
MO-125e	L-828 4kW Constant Current Regulator	EA	1
MO-125f	Remove and Reinstall L-858 Guidance Sign on New Concrete Foundation	EA	1

DOCUMENT 00300 BID FORM

NOTE: ALL BIDS SHOULD BE SUBMITTED ON THE MERCURY COMMERCE WEBSITE (<u>WWW.MERCURYCOMMERCE.COM</u>.) If submitting hard copy documents, they shall be provided in a sealed envelope according to instructions on the Submittals/Bidder's Check List located in Section 1.

St. Louis County IFB # 2016-05-3611-PG MoDOT Project No. 15-113A-3

TO: Director of

Procurement County of St. Louis, Missouri

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

Rehabilitate Runway 8L/26R Pavement and Lighting Rehabilitation

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

BASE BID

BID ITEM	FAA OR MoDOT SPEC.	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		EXTENSION	
				DOLLARS	CTS	DOLLARS	CTS
1	MO-105a	Mobilization	1 LS				
2	P-101a	Variable Depth Milling	43,433 SY				
3	P-101b	Bituminous Pavement Removal (Full Depth)	105 SY				
4	MO-152a	Embankment	2,565 CY				
5	MO-156a	Silt Fence	10,000 LF				
6	MO-209a	Crushed Aggregate Base Course	110 SY				
7	MO-401Fa	Bituminous Asphalt Pavement (BP-1)	6,145 TON				
8	MO-603a	Bituminous Tack Coat	6,530 GAL				
9	MO-620a	Temporary Airport Runway Pavement Marking (White)	26,830 SF				

10	MO-620b	Temporary Airport Taxiway Pavement Marking (Yellow)	3,315 SF		
11	MO-620c	Temporary Airport Taxiway Pavement Marking (Red)	170 SF		
12	MO-620d	Airport Runway Pavement Marking (White)	26,830 SF		
13	MO-620e	Airport Taxiway Pavement Marking (Yellow)	3,315 SF		
14	MO-620f	Airport Pavement Marking (Black)	3,450 SF		
15	MO-620g	Airport Taxiway Pavement Marking (Red)	170 SF		
16	MO-620h	Airport Pavement Marking Removal	2,610 SF		
17	MO-622a	Crack Sealing	35,000 LF		
18	MO-901a	Seeding with Hydromulch	11 AC		
19	MO-108a	1/C #8 AWG, L-824C, 5000 Volt Wire, Installed in 1-1/2" Unit Duct	12,000 LF		
20	MO-108b	2-1/C #8 AWG, L-824C, 5000 Volt Wire, Installed in 1-1/2" Unit Duct	2,500 LF		
21	MO-108c	#6 AWG Bare Copper Counterpoise, including ground rods	14,500 LF		
22	MO-125a	Remove Runway Edge Light	62 EA		
23	MO-125b	Adjust Taxiway Edge Light	33 EA		
24	MO-125c	Install L-861/L-861E Base Mounted Runway Edge/Threshold Light	12 EA		
25	MO-125d	Install L-861/L-861E Stake Mounted Runway Edge/Threshold Light	53 EA		
26	MO-125e	L-828 4kW Constant Current Regulator	1 EA		
27	MO-125f	Remove and Reinstall L-858 Guidance Sign on New Concrete Foundation	1 EA		

ALSO ENTER GRAND TOTAL IN MERCURY COMMERCE

If there is a discrepancy between the grand total stated and the unit price extension – the unit price will prevail.

ACKNOWLEDGEMENTS BY BIDDER

a. By submittal of a bid, the BIDDER acknowledges and accepts that the quantities established by the DIRECTOR OF PROCUREMENT are an approximate estimate of the quantities required to fully complete the Project and that the estimated quantities are principally intended to serve as a basis for evaluation of bids. The BIDDER further acknowledges and accepts that payment under this contract will be made only for actual quantities and that quantities will vary in accordance with the General Provisions subsection entitled "Alteration of Work and Quantities".

- **b.** The BIDDER acknowledges and accepts that the Bid Documents are comprised of the documents identified within the General Provisions. The BIDDER further acknowledges that each of the individual documents that comprise the Bid Documents are complementary to one another and together establishes the complete terms, conditions and obligations of the successful BIDDER.
- c. As evidence of good faith in submitting this bid, the undersigned includes a bid guaranty in the form of a bid bond in the amount of 5% of the bid price. The BIDDER acknowledges and accepts that refusal or failure to accept award and execute a contract within the terms and conditions established herein will result in forfeiture of the bid guaranty to the Director of Procurement as a liquidated damage.
- **d.** The BIDDER acknowledges and accepts the DIRECTOR OF PROCUREMENT'S right to reject any or all bids.
- e. The BIDDER acknowledges and accepts the DIRECTOR OF PROCUREMENT'S right to hold all bids for purposes of review and evaluation and not issue a notice-of-award for a period not to exceed NINETY (90) calendar days from the stated date for receipt of bids, therefore all bids must be valid for ninety (90) days from the date of the bid opening.
- f. The undersigned agrees that upon written notice of award of contract, he or she will execute the contract within ten (10) days of the notice-of-award, and furthermore, and provide executed payment and performance bonds within ten (10) days from the date of contract execution. The undersigned accepts that failure to execute the contract and provide the required bonds within the stated timeframe shall result in forfeiture of the bid guaranty to the Director of Procurement as a liquidated damage.
- g. Time of Performance: By submittal of this bid, the undersigned acknowledges and agrees to commence work within ten (10) calendar days of the date specified in the written "Notice-to-Proceed" as issued by the Owner. The undersigned further agrees to complete the Project so that the Owner may issue final acceptance as defined in General Provisions Section 50-15 within Sixty (60) Calendar days from the commencement date specified in the Notice-to-Proceed.
- h. The undersigned acknowledges and accepts that for each and every Calendar day the project remains incomplete beyond the contract time of performance, the Contractor shall pay the non-penal amount of \$750.00 for each calendar day. Should the Contractor exceed the time limitation for completion of each sub-phase of construction \$750.00 for each calendar day may be applied to the contract in damages. In addition to direct inspection costs that may be incurred by Owner.
- i. The BIDDER, by submission of a bid, acknowledges that award of this contract is subject to the provisions of the Missouri Prevailing Wage Law and Federal Wage Law. The BIDDER accepts the requirement to pay prevailing wages for each classification and type of worker as established in the attached wage rate determinations as issued by the Missouri Division of Labor Standards. The BIDDER further acknowledges and accepts their requirement to incorporate the provision to pay the established prevailing wages in every subcontract agreement entered into by the Bidder under this project.

j. The undersigned acknowledges receipt of the addenda(s) by attaching signed addenda(s) accordingly.

REPRESENTATIONS BY BIDDER

By submittal of a bid, the BIDDER represents the following:

- **a.** The BIDDER has read and thoroughly examined the bid documents including all authorized addenda.
- **b.** The BIDDER has a complete understanding of the terms and conditions required for the
 - satisfactory performance of project work.
- **c.** The BIDDER has fully informed themselves of the project site, the project site conditions
 - and the surrounding area.
- d. The BIDDER has familiarized themselves of the requirements of working on an
 - operating airport and understands the conditions that may in any manner affect cost, progress or performance of the work
- **e.** The BIDDER has correlated their observations with that of the project documents.
- **f.** The BIDDER has found no errors, conflicts, ambiguities or omissions in the project documents, except as previously submitted in writing to the Director of Procurement that would affect cost, progress or performance of the work.
- g. The BIDDER is familiar with all applicable Federal, State and local laws, rules and
 - regulations pertaining to execution of the contract and the project work.
- **h.** The BIDDER has complied with all requirements of these instructions and the associated
 - project documents.
- i. The BIDDER acknowledges in case of discrepancy between drawings and specifications, specifications shall govern. Also reference Section 50-03 of the General Provisions.

CERTIFICATION BY BIDDER

a. The undersigned hereby declares and certifies that the only parties interested in this bid are named herein and that this bid is made without collusion with any other person, firm or corporation.

CERTIFICATION BY BIDDER

- a. The undersigned hereby declares and certifies that the only parties interested in this proposal are named herein and that this proposal is made without collusion with any other person, firm or corporation. The undersigned further certifies that no member, officer or agent of OWNER'S has direct or indirect financial interest in this proposal.
- b. Certification of Non-Segregated Facilities (41 CFR Part 60-1.8) The BIDDER, as a potential federally-assisted construction contractor, certifies that it does not maintain or provide, for its employees, any segregated facilities at any of its establishments and that

Jviation, Inc.

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it does not permit its employees to perform their services at any location, under its control, where segregated facilities are maintained. The BIDDER certifies that it will not maintain or provide, for its employees, segregated facilities at any of its establishments and that it will not permit its employees to perform their services at any location under its control where segregated facilities are maintained. The Bidder agrees that a breach of this certification is a violation of the Equal Opportunity Clause, which is to be incorporated in the contract.

As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms, and washrooms, restaurants and other eating areas, timeclocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated on the basis of race, color, religion, or national origin because of habit, local custom, or any other reason. The Bidder agrees that (except where it has obtained identical certifications from proposed subcontractors for specific time periods) it will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity Clause and that it will retain such certifications in its files.

- c. Trade Restriction Certification (49 U.S.C. § 50104, 49 CFR Part 30)

 By submission of an offer, the Offeror certifies that with respect to this solicitation and any resultant contract, the Offeror:
 - is not owned or controlled by one or more citizens of a foreign country included in the list of countries that discriminate against U.S. firms published by the Office of the United States Trade Representative (U.S.T.R.);
 - 2. has not knowingly entered into any contract or subcontract for this project with a person that is a citizen or national of a foreign country included on the list of countries that discriminate against U.S. firms as publish by the U.S.T.R.; and
 - 3. has not entered into any subcontract for any product to be used on the project that is produced in a foreign country included on the list of countries that discriminate against U.S. firms published by the U.S.T.R.

This certification concerns a matter within the jurisdiction of agency of the United States of America and the making of a false, fictitious, or fraudulent certification may rend the maker subject to prosecution under Title 18, United States Code, Section 1001.

The offer/contractor must provide immediate written notice to the sponsor if the offeror/contractor learns that its certification or that of a subcontractor was erroneous when submitted or has become erroneous by reason of changed circumstances. The contractor must require subcontractor provide immediate written notice to the contractor if at any time it learns that its certification was erroneous by reason of changed circumstances.

Unless the restrictions of this clause are waived by the Secretary of Transportation in accordance with 49 CFR 30.17, no contract shall be awarded to an offeror or subcontractor:

- **a.** who is owned or controlled by one or more citizens or nationals of a foreign country included on the list of countries that discriminate against U.S. firms published by the U.S.T.R. or
- **b.** whose subcontractors are owned or controlled by one or more citizens or nationals of a foreign country on such U.S.T.R. list or
- **c.** who incorporates in the public works project any product of a foreign country on such U.S.T.R. list;

Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by this provision. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

The offeror agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification without modification in all lower tier subcontracts. The contractor may rely on the certification of a prospective subcontractor that is not a firm from a foreign county included on the list of countries that discriminate against U.S. firms as published by U.S.T.R, unless the offeror has knowledge that the certification is erroneous.

This certification is a material representation of fact upon which reliance was placed when making the award. If it is later determined that the contractor or subcontractor knowingly rendered an erroneous certification, the Federal Aviation Administration may direct through the Sponsor cancellation of the contract or subcontract for default at no cost to the Owner or the FAA.

d. Certification of Offeror/Bidder Regarding Debarment (2 CFR Part 180 (Subpart C), 2 CFR Part 1200, DOT Order 4200.5)

By submitting a bid/proposal under this solicitation, the Bidder or Offeror certifies that neither it nor its principals are presently debarred or suspended by any Federal department or agency from participation in this transaction

e. Certification of Lower Tier Contractors Regarding Debarment (2 CFR Part 180 (Subpart C), 2 CFR Part 1200, DOT Order 4200.5)

The successful Bidder, by administering each lower tier subcontract that exceeds \$25,000 as a "covered transaction", must verify each lower tier participant of a "covered transaction" under the project is not presently debarred or otherwise disqualified from participation in this federally assisted project. The successful bidder will accomplish this by:

- 1. Checking the System for Award Management at website: http://www.sam.gov;
- **2.** Collecting a certification statement similar to the Certificate Regarding Debarment and Suspension (Bidder or Offeror), above; and
- **3.** Inserting a clause or condition in the covered transaction with the lower tier contract.

If the FAA and/or MoDOT later determines that a lower tier participant failed to disclose to a higher tier participant that it was excluded or disqualified at the time it entered the covered transaction, the FAA and/or MoDOT may pursue any available remedies, including suspension Jviation, Inc.

MoDOT 15-113A-3 300-6

f. Certification Regarding Lobbying (31 U.S.C. § 1352, 2 CFR § 200 Appendix II(J), 49 CFR Part 20, Appendix A)

The Bidder or Offer certifies by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

- 1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the Bidder or Offeror, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employer of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- 2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- 3. The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, United States Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for such failure.

g. Buy American Certification: (Title 49 U.S.C. § 50101)

The bidder agrees to comply with 49 U.S.C. § 50101, which provides that Federal funds may not be obligated unless all steel and manufactured goods used in AIP-funded projects are produced in the United States, unless the FAA has issued a waiver for the product; the product is listed as an Excepted Article, Material Or Supply in Federal Acquisition Regulation subpart 25.108; or is included in the FAA Nationwide Buy American Waivers Issued List.

A bidder or offeror must submit the appropriate Buy America certification included herein with their bid or offer. The Owner will reject as nonresponsive any bid or offer that does not include a completed Certificate of Buy American Compliance.

Type of Certification is based on Type of Project:

There are two types of Buy American certifications.

Jviation, Inc.

MoDOT 15-113A-3 300-7

- For projects for a facility, the Certificate of Compliance Based on Total Facility (Terminal or Building Project) must be submitted.
- For all other projects, the Certificate of
- Compliance Based on Equipment and Materials Used on the Project (Non-building construction projects such as runway or roadway construction; or equipment acquisition projects) must be submitted.

CERTIFICATE OF BUY AMERICAN COMPLIANCE FOR MANUFACTURED PRODUCTS

As a matter of bid responsiveness, the bidder or offeror must complete, sign, date, and submit this certification statement with their proposal. The bidder or offeror must indicate how they intend to comply with 49 USC § 50101 by selecting one on the following certification statements. These statements are mutually exclusive. Bidder must select one or the other (not both) by inserting a checkmark (\checkmark) or the letter "X".

☐ Bidder or offeror hereby certifies that it will comply with 49 USC § 50101 by:

- a) Only installing steel and manufactured products produced in the United States, or;
- b) Installing manufactured products for which the FAA has issued a waiver as indicated by inclusion on the current FAA Nationwide Buy American Waivers Issued listing, or;
- c) Installing products listed as an Excepted Article, Material or Supply in Federal Acquisition Regulation Subpart 25.108.

By selecting this certification statement, the bidder or offeror agrees:

- 1. To provide to the Owner evidence that documents the source and origin of the steel and manufactured product.
- 2. To faithfully comply with providing US domestic product
- 3. To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.
- The bidder or offeror hereby certifies it cannot comply with the 100% Buy American Preferences of 49 USC § 50101(a) but may qualify for either a Type 3 or Type 4 waiver under 49 USC § 50101(b). By selecting this certification statement, the apparent bidder or offeror with the apparent low bid agrees:
 - 1. To the submit to the Owner within 15 calendar days of the bid opening, a formal waiver request and required documentation that support the type of waiver being requested.
 - 2. That failure to submit the required documentation within the specified timeframe is cause for a non-responsive determination may result in rejection of the proposal.
 - 3. To faithfully comply with providing US domestic products at or above the approved US domestic content percentage as approved by the FAA.
 - 4. To furnish US domestic product for any waiver request that the FAA rejects
 - 5. To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

Required Documentation

Type 3 Waiver - The cost of the item components and subcomponents produced in the United States is more that 60% of the cost of all components and subcomponents of the "item". The required documentation for a type 3 waiver is:

- a) Listing of all product components and subcomponents that are not comprised of 100% US domestic content (Excludes products listed on the FAA Nationwide Buy American Waivers Issued listing and products excluded by Federal Acquisition Regulation Subpart 25.108; products of unknown origin must be considered as non-domestic products in their entirety).
- b) Cost of non-domestic components and subcomponents, excluding labor costs associated with final assembly at place of manufacture.

c) Percentage of non-domestic component and subcomponent cost as compared to total "item" component and subcomponent costs, excluding labor costs associated with final assembly at place of manufacture.

Type 4 Waiver – Total cost of project using US domestic source product exceeds the total project cost using non-domestic product by 25%. The required documentation for a type 4 of waiver is:

- a) Detailed cost information for total project using US domestic product.
- b) Detailed cost information for total project using non-domestic product.

False Statements: Per 49 USC § 47126, this certification concerns a matter within the jurisdiction of the Federal Aviation Administration and the making of a false, fictitious or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code.

Date	Signature	
		
Company Name	Title	

BUY AMERICA WAIVER REQUEST

Title 49 U.S.C Section 50101 (b)

For Airfield Development Projects funded under the Airport Improvement Program

Instructions for Permissible Waivers

<u>Nationwide Waivers:</u> The FAA Office of Airports publishes national waivers for equipment and products that meet Buy American requirements under 49 USC 50101. Nationwide waivers are published at: http://www.faa.gov/airports/aip/buy_american/ website

Section 50101(b)(1) & (b)(2) Waivers:

The bidder may request a waiver based upon the best interests of the public, Section 50101 (b)(1) or request a waiver based upon insufficient supply of U.S. manufactured products, Section 50101 (b)(2), however approval is rare and waivers may only be approved by the FAA Office of Airports in Washington DC.

Section 50101(b)(3) Waiver:

The bidder may request a waiver if 60% or more of the components are produced in the United States and final assembly occurs in the U.S. Bidder is hereby advised that the Owner's approval with the bidder's waiver request is contingent upon FAA approval.

- 1. "Equipment" in Section 50101 shall mean the following:
 - a) Individual type "L" items (Airfield Lighting Equipment) as listed in FAA Advisory Circular 150/5345-53.
 - b) Individual bid items as established within FAA Advisory Circular 150/5370-10.
 - c) A waiver request may only address one specific equipment item. Submit separate requests for each equipment item.
 - d) Items listed under the Nationwide Waiver referenced above do not require further review.
- 2. The bidder must base the U.S. percentage upon the value that results from completing a component cost calculation table similar to the attached format. The Bidder must submit the component cost calculation table as an attachment to the waiver request.
- 3. Components/subcomponents are the material and products composing the "equipment".
- 4. The final assembly of the AIP-funded "equipment" must be within the USA (Section 50101(b)(3)(B)). Final assembly is the substantial transformation of the components and subcomponents into the end product.
- 5. All steel used in the "Equipment" must be produced in the United States.
- 6. The Buy American requirements apply to all tier contractors and subcontractors. All contractors/subcontractors are required to provide appropriate documentation that indicates origin of manufacturer and percentage of domestic made product.
- 7. The bidder is hereby advised there is no implied or expressed guarantee that a requested waiver will be issued by the Federal Aviation Administration (FAA). Less than 60% USA component/subcomponent proposed for this facility CANNOT be waived. Products made with foreign steel are not eligible for a waiver.
- 8. North America Free Trade Act (NAFTA): Free Trade Agreements such as NAFTA do not apply to the AIP. Products and material made in Canada or Mexico must be considered as

Jviation, Inc.

foreign made products.

- 9. Preparation of a Component Cost Calculation Table is not necessary for equipment listed on the FAA national listing: http://www.faa.gov/airports/aip/buy_american/media/nationwide-buy-american-waivers-issued
- 10.Bidder however shall submit a listing of any equipment it proposes to install on the project that is included on the National Buy American conformance list.

Instructions for Section 50101(b)(4) Waiver:

The bidder may request a waiver if application of Buy America preferences results in a 25% cost increase in the overall project. This waiver is rarely applicable. Consult the Owner before making this request.

BUY AMERICA WAIVER REQUEST

Title 49 U.S.C Section 50101 (b)(3)

For Airfield Development Projects funded under the Airport Improvement Program

COMPONENT COST CALCULATION TABLE (Type 3 Waiver)

- In lieu of completing this table, bidder may prepare a spreadsheet that addresses the same information and calculations as presented herein.
- Preparation of a Component Cost Calculation Table is not necessary for equipment listed on the FAA national listing: http://www.faa.gov/airports/aip/buy_american/
- The component breakout shall be along major components of the equipment. Submit separate calculation for each different equipment types. Do not combine the component cost calculations of different types of equipment.
- For Airfield development projects, equipment is defined as the "L" items (Airfield Lighting Equipment) as listed in FAA Advisory Circular 150/5345-53 and the b) individual bid items as established within FAA Advisory Circular 150/5370-10. The individual bid item method may not be applied to the "L" type items.
- An authorized person shall attest under signature and date that the submitted information is accurate and complete.

Equipment Type: _____

Component/ Subcomponents	Name of Manufacturer	Country of Origin	Cost of Foreign Manufactured Components/ Subcomponents	Cost of USA Manufactured Components/ Subcomponents
Sum of US	Manufactured Com	ponent/Subcom	ponent Costs:	
Sum of	all Equipment Com	ponents and Sul	ocomponents:	
Percentage of Equipme	ent Components Ma	nufactured in th	e United States:	
		Place of Fig	nal Assembly:	

Jviation, Inc. MoDOT 15-113A-3

Certification Signature

Bidder hereby requests a waiver to Buy America preferences based upon Section 50101(b)(3) for the equipment identified above. The bidder certifies that% of the cost of components are subcomponents comprising the equipment are produced in the United States and that final assembly occurs within the United States.			
I hereby certify the above information is accurate and comp	olete.		
Bidder's Firm Name	 Date		
Signature			

BUY AMERICA CONFORMANCE LISTING

Title 49 U.S.C Section 50101 (b)

For Airfield Development Projects funded under the Airport Improvement Program

- Preparation of a Component Cost Calculation Table is not necessary for equipment listed on the FAA national listing: http://www.faa.gov/airports/aip/buy_american/media/nationwide-buyamerican-waivers-issued.pdf
- Bidder shall submit a listing of equipment it proposes to install on the project that is included on the current National Buy American conformance list.

Equipment Type	Name of Manufacturer	Product Number

Certification Signature:

Bidder hereby certifies that the above listed equipment, which we propose for installation on the subject project, is on the current National Buy America Conformance list as established at: http://www.faa.gov/airports/aip/buy american/

I hereby certify the above information is accurate and complete.	
Bidder's Firm Name	Date
 Signature	

DISADVANTAGED BUSINESS ENTERPRISE (DBE) PARTICIPATION

The information shown in this section must be completed when a DBE contract goal has been established. The percentage must equal or exceed the DBE contract goal. If the percentage is below the contract goal, then the bidder must submit complete written documentation of good faith efforts taken to meet the DBE contract goal.

- a. The undersigned submits the following list of DBE's to be used in accomplishing the work of this contract. The work, supplies or services, applicable value and percent of total federal contract each DBE is to perform or furnish is as follows:
- b. Joint venture with a DBE. The undersigned submits the following list of bid items the DBE prime is responsible for and any items that will be subcontracted out are noted with an asterisk or a similar notation. The work, applicable value and percentage of total federal contract the DBE prime is responsible for are as follows:

(A) DBE Name and Address	(B) Bid Item Number(s) Or Work Performed	(C) Dollar Value of DBE Work **	(D) Percent Applicable to DBE Goal (100%, 60%)	(E) Dollar Amount Applicable to DBE Goal (C x D)	(F) Percent of Total Contract (C / Total Contract Amount)
TOTAL DBE PARTICIPATION			\$	%	

^{**}Cannot exceed contract amount for given item of work.

Truck services credited at 100% if the DBE owns the trucks or is leasing from a DBE firm. Merchant wholesalers (supply) are credited at 60%.

Brokered services will only receive credit for fees.

(Please reproduce the above sheet if additional space is needed.)

SIGNATURE'S REQUIRED - See Next Page

NOTE: ALL BIDS SHOULD BE SUBMITTED ON THE MERCURY COMMERCE WEBSITE (<u>WWW.MERCURYCOMMERCE.COM</u>.) If submitting hard copy documents, they shall be signed and provided in a sealed envelope according to instructions on the Submittals/Bidder's Check List located in Section 1.

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	() partne	rship ()) joint venture
() corporation, incorporate	d under the l	aws of state of	
Executed by bidder	this	day of	20
		Name of individe	ual,
all partners		A 1.1	,
or joint venturers:		Addres	s of each:
doing business under the na	ame of:	Address of prir Missouri:	ncipal place of business in
(If using a fictitious name, s name above in addition to le names)			
(If a corporation, show its na	ame 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.

Jviation, Inc.

MoDOT 15-113A-3 300-18

BASIS OF PAYMENT

138 139 140

141

142

620-5.1 Payment shall be made at the respective contract price per square foot for runway, taxiway, taxilane and apron painting. No direct payment will be made for reflective media. This price shall be full compensation for furnishing all materials and for all labor, equipment, tools, and incidentals necessary to complete the item.

143144145

146

Payment will be made under:

147148

149 150

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> 165 166

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169 170

171 172 173

174175176

177

Item MO-620a	Temporary Airport Runway Pavement Marking (White) – per square

foot

Item MO-620b Temporary Airport Taxiway Pavement Marking (Yellow) – per

square foot

Item MO-620c Temporary Airport Taxiway Pavement Marking (Red) – per square

foot

Item MO-620d Airport Runway Pavement Marking (White) – per square foot

Item MO-620e Airport Taxiway Pavement Marking (Yellow) – per square foot

Item MO-620f Airport Pavement Marking (Black) – per square foot

Item MO-620g Airport Taxiway Pavement Marking (Red) – per square foot

Item MO-620h Airport Pavement Marking Removal – per square foot

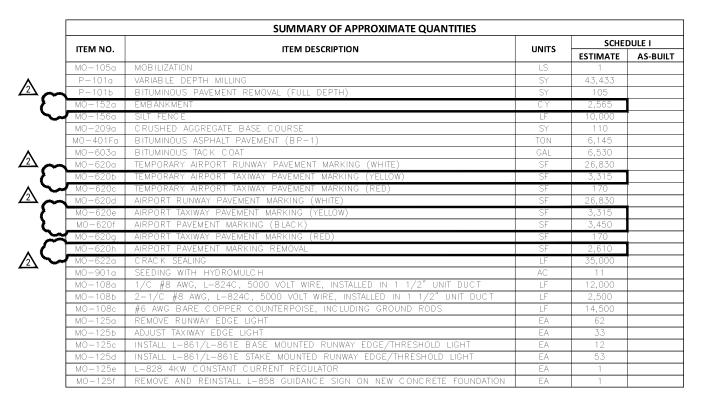
MATERIAL REQUIREMENTS

Federal Standard 595	Colors used in Government Procurement
FEUELAL STATIONIU 1991	COUCIS USED IN COVERNMENT ETOCHIERIEN

Fed. Spec. TT-P-1952E Paint, Traffic and Airfield Marking, Waterborne

Fed. Spec. TT-B-1325D Beads (Glass Spheres) Retroreflective

END OF MO-620



MO-152 EARTHWORK VOLUME SUMMARY						
SCHEDULE	AREA DESCRIPTION	APPROX. THEORETICAL FILL (CY)	APPROX. THEORETICAL CUT (CY)	NET DIFFERENCE (CY)		
		MO-152	MO-152	MO-152		
SCHEDULE I	REHABILITATE RUNWAY8L/26R	2,565*	650*	1,915* (FILL) FROM BORROW SITE		

* NOTES:

1. THESE QUANTITIES ARE RAW AND UNADJUSTED.



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

RYAN B. LORTON
NAME

JVIATION PROJ. NO.

2016.SUS.01

PE-2004017211 05/23 REG. NO. DA

FOR AND ON BEHALF OF JVIATION , INC.

JVIATION®

SPIRIT OF ST. LOUIS AIRPORT ST. LOUIS COUNTY, MISSOURI

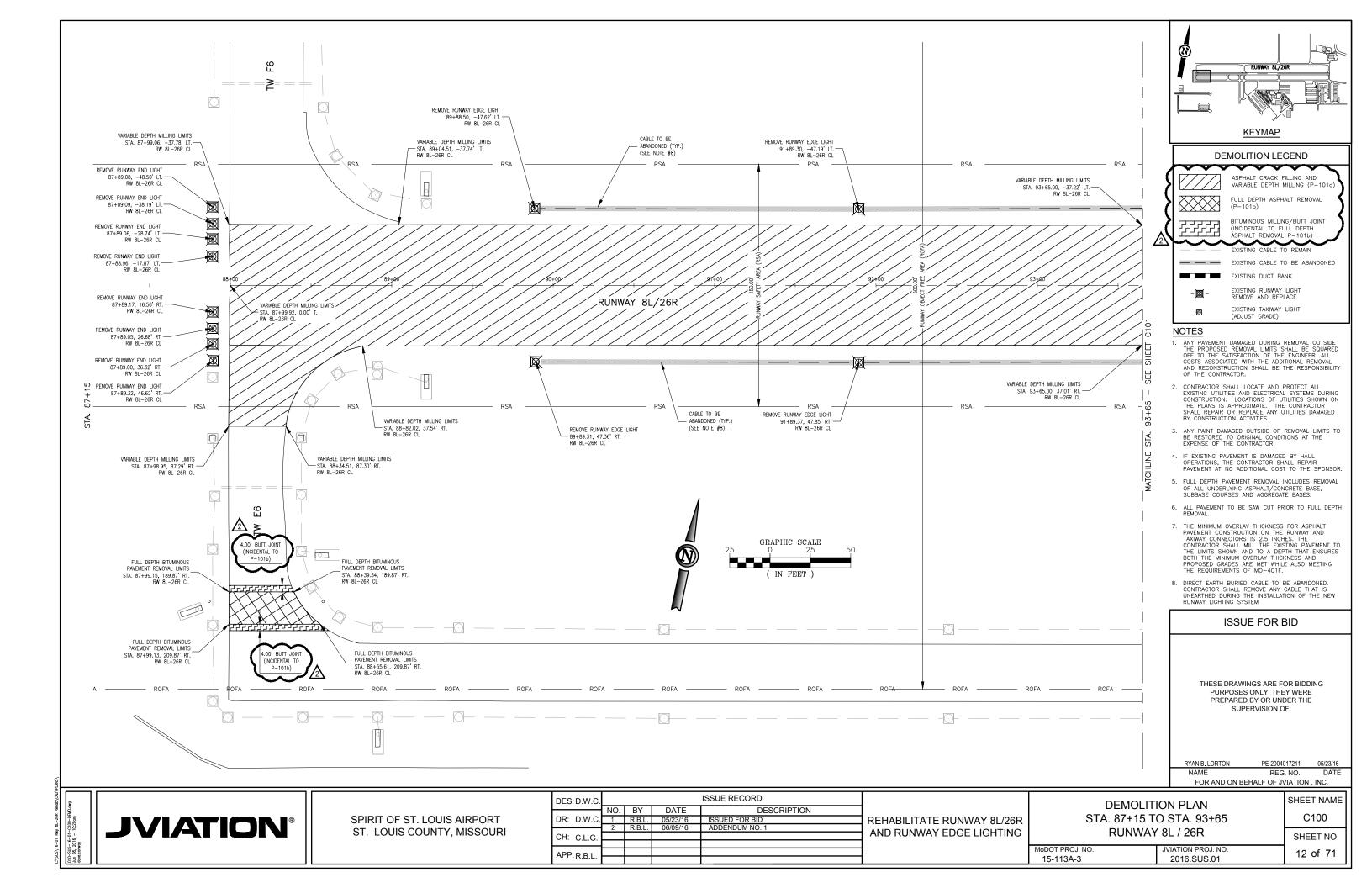
	DES: D.W.C.	ISSUE RECORD				
		NO.	BY	DATE	DESCRIPTION	
	DR: D.W.C.	1	R.B.L.	05/23/16	ISSUED FOR BID] REI
		2	R.B.L.	06/09/16	ADDENDUM NO. 1	1 , , ,
	CH: C.L.G.					AN
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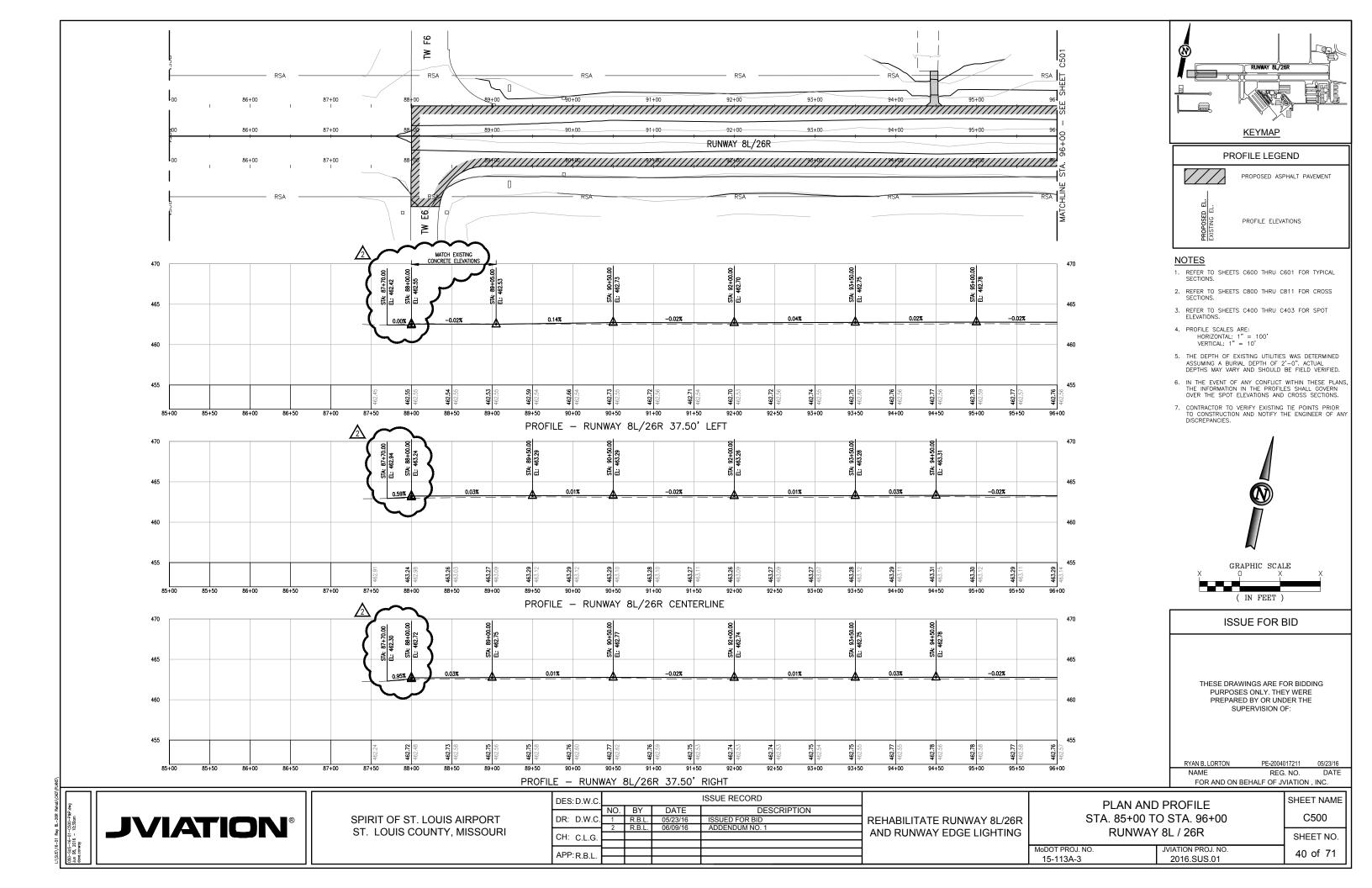
SUMMARY OF APPROXIMATE QUANTITIES ND RUNWAY EDGE LIGHTING

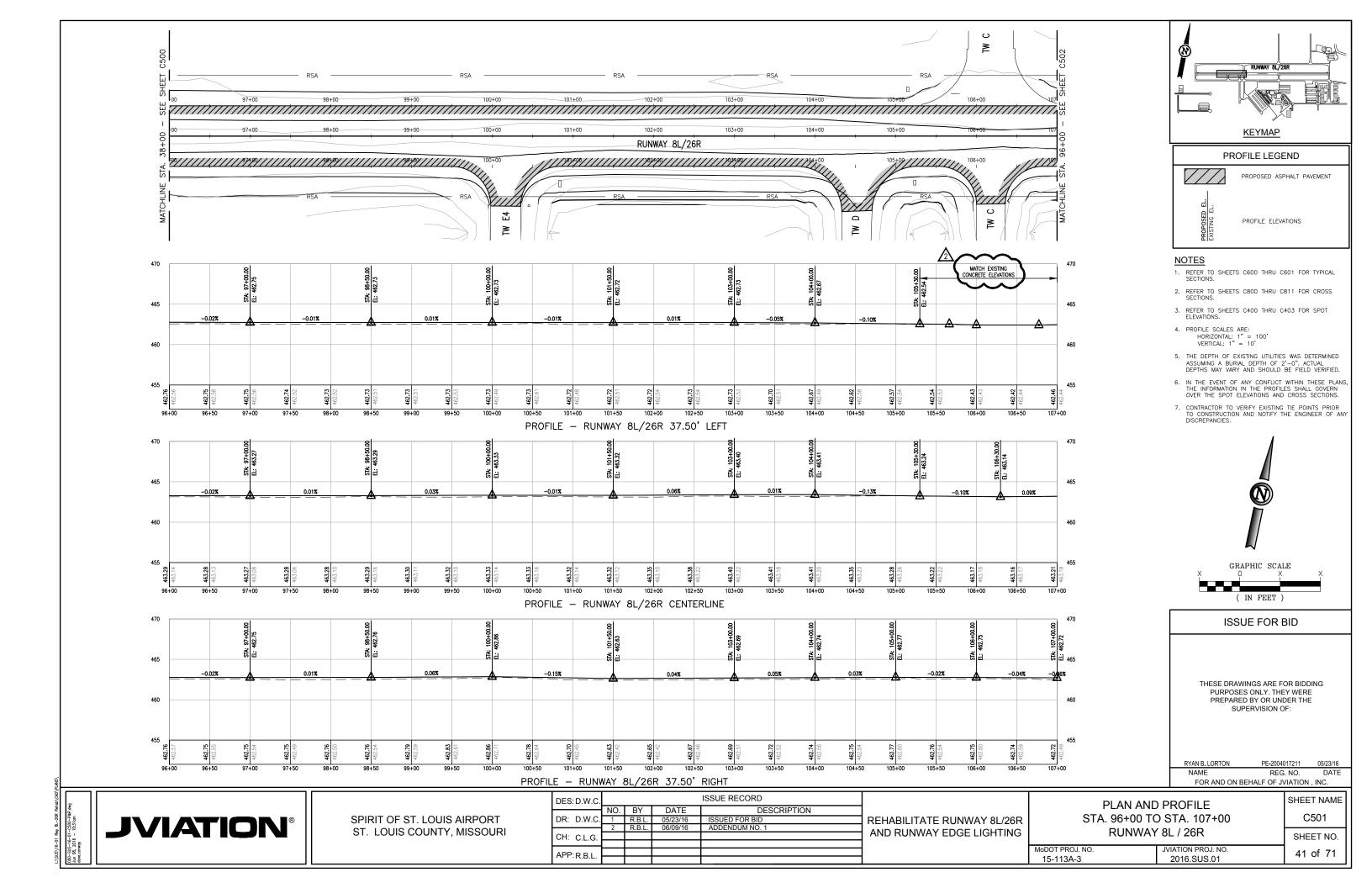
MoDOT PROJ. NO.

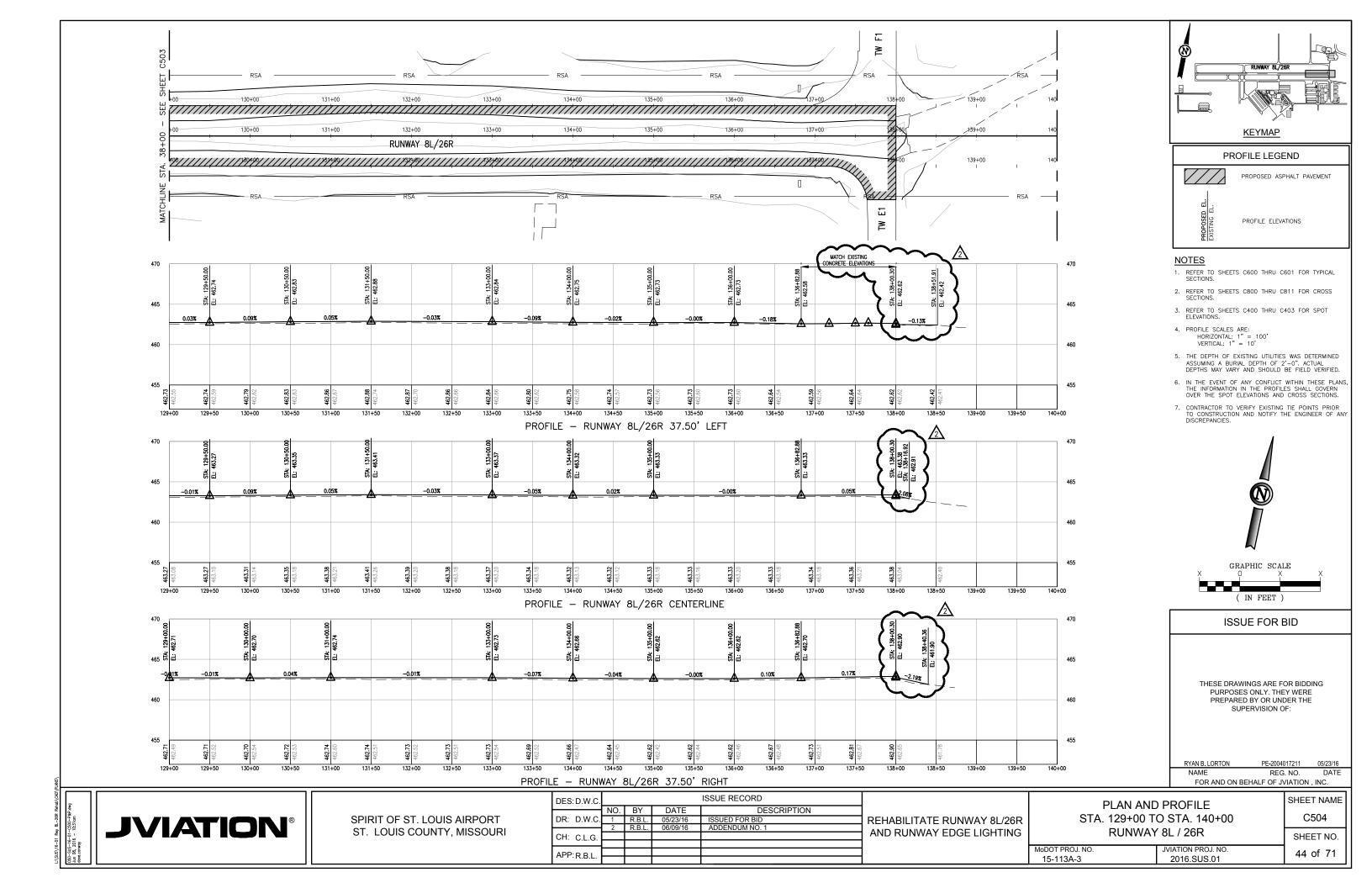
15-113A-3

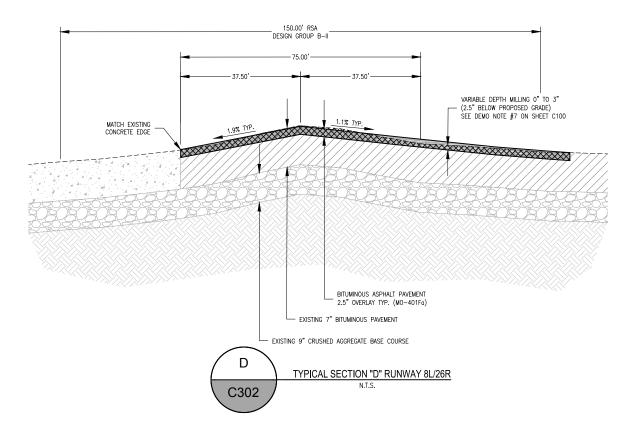
SHEET NAME
G004
SHEET NO.
4 of 71

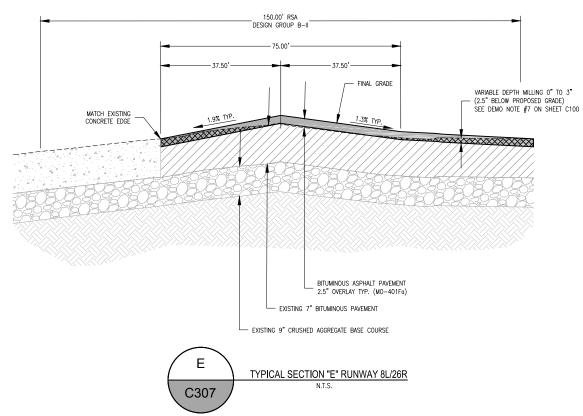


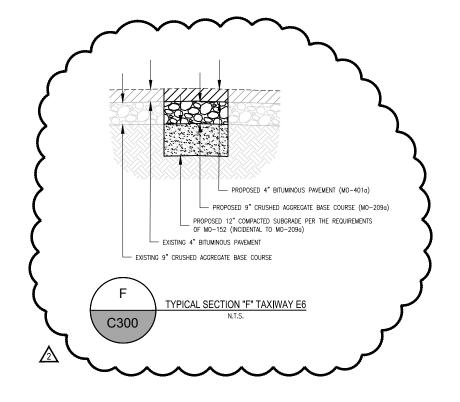


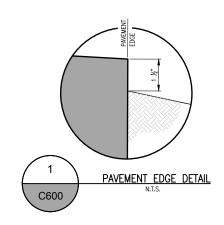












ISSUE FOR BID

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RYAN B. LORTON	PE-2004017211
NAME	REG. NO.

NAME REG. NO. DATE FOR AND ON BEHALF OF JVIATION , INC.

JVIATION®

SPIRIT OF ST. LOUIS AIRPORT ST. LOUIS COUNTY, MISSOURI

	DES: D.W.C.	ISSUE RECORD				
		NO.	BY	DATE	DESCRIPTION	1
	DR: D.W.C.	1	R.B.L.	05/23/16	ISSUED FOR BID	l RI
		2	R.B.L.	06/09/16	ADDENDUM NO. 1	۱,
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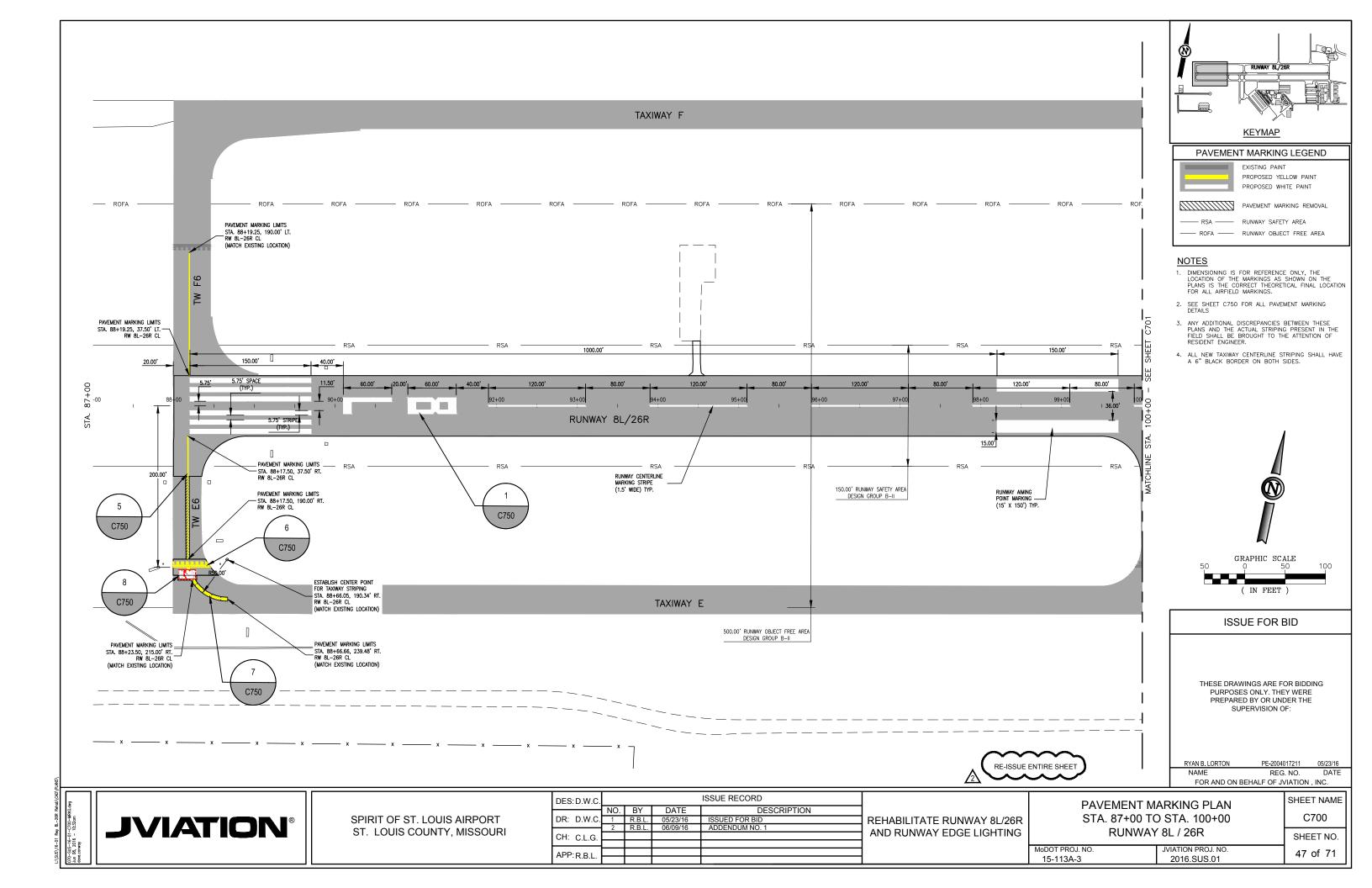
REHABILITATE RUNWAY 8L/26R AND RUNWAY EDGE LIGHTING TYPICAL SECTIONS

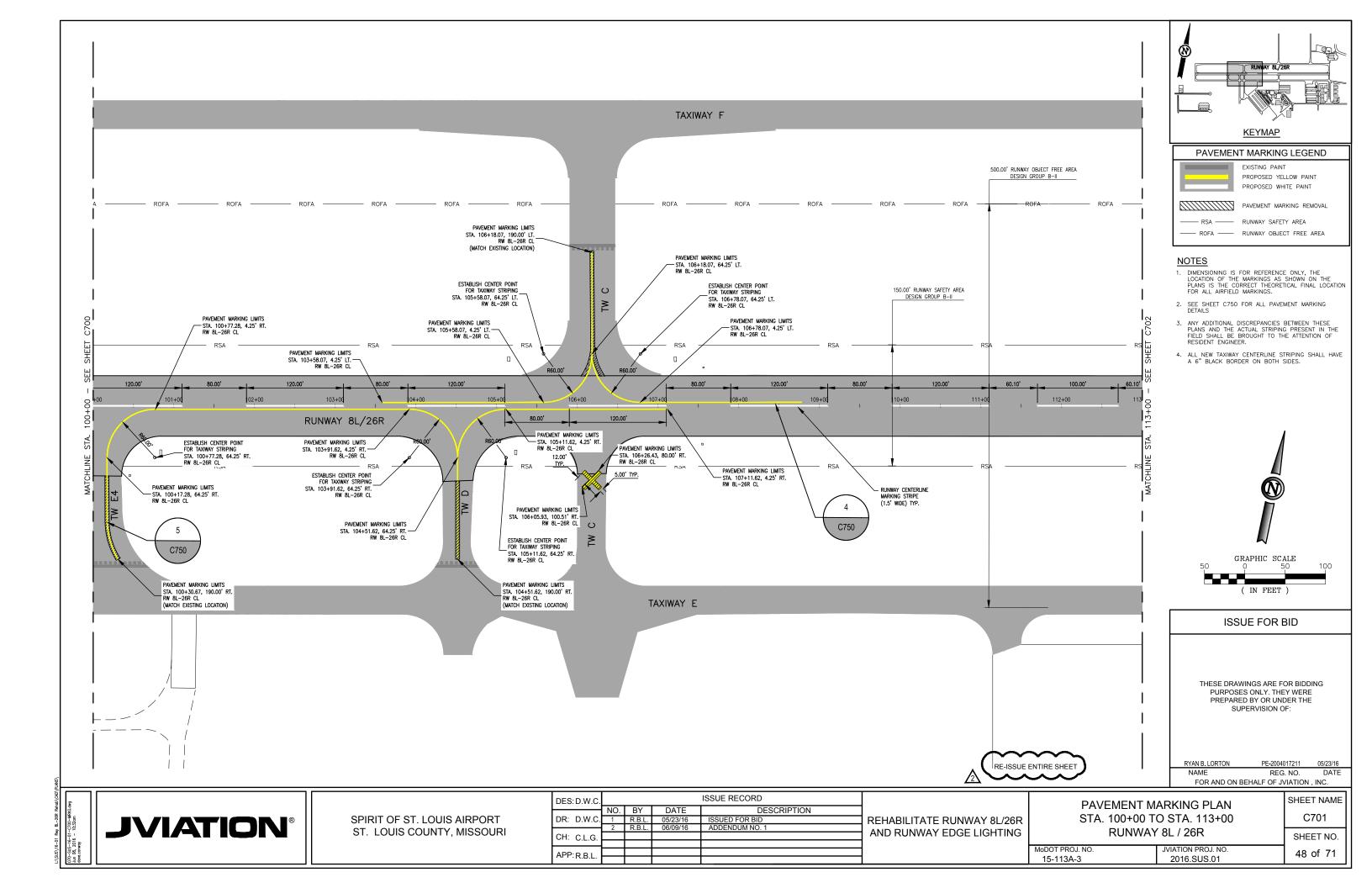
C601
SHEET NO.
46 of 71

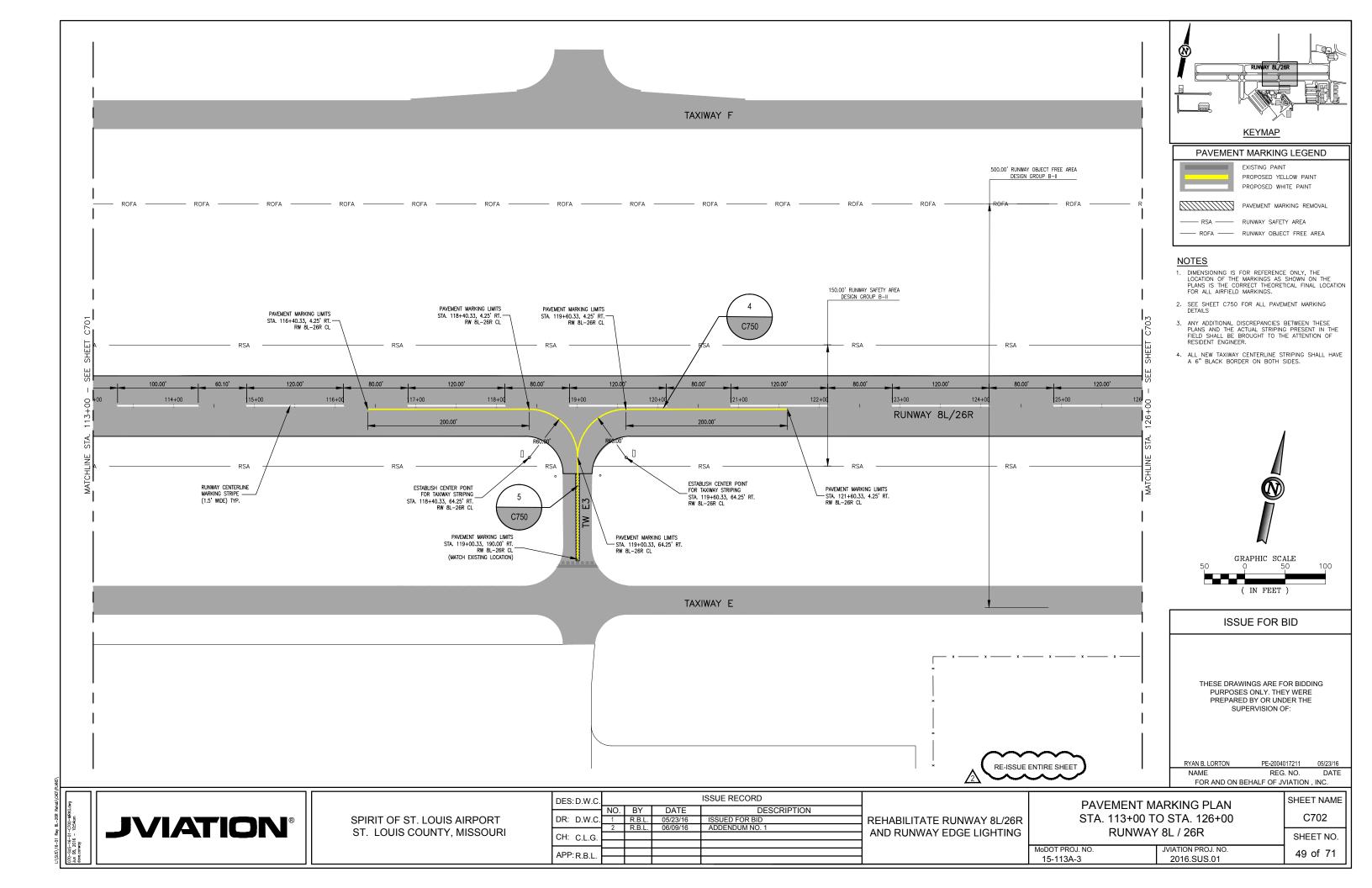
SHEET NAME

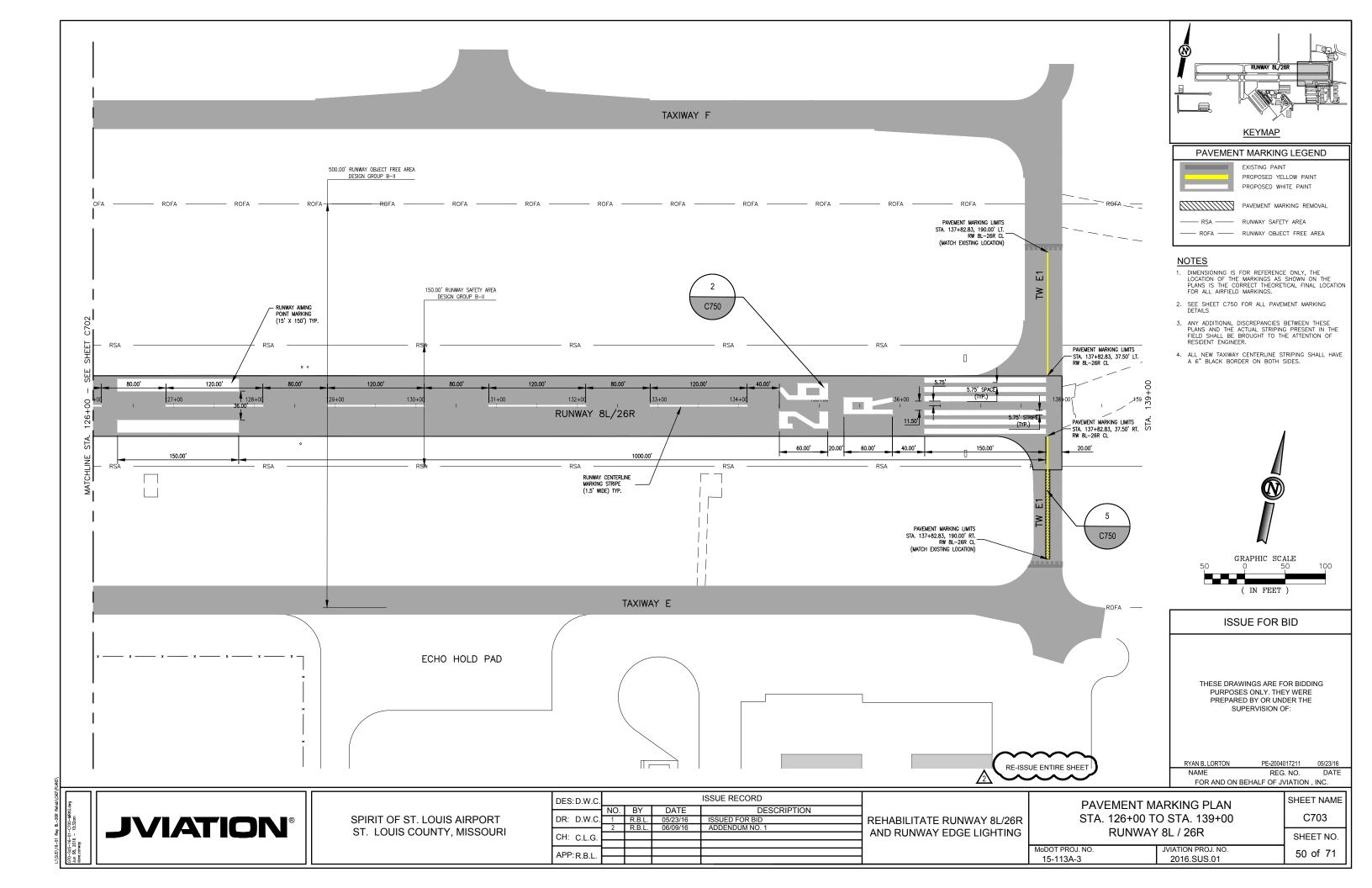
CH: C.L.G. AND RUNWAY EDGE LIGHTING SHEET

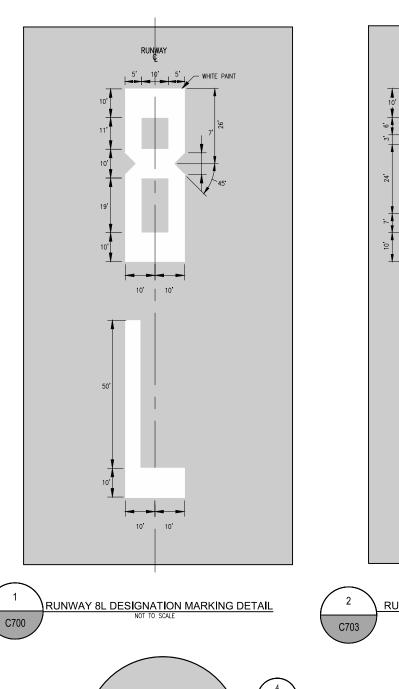
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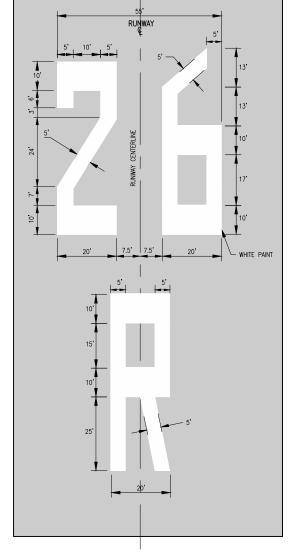




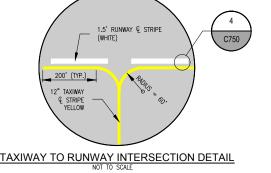


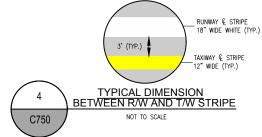


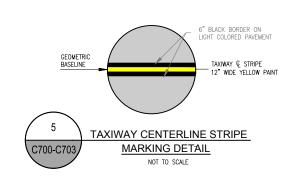


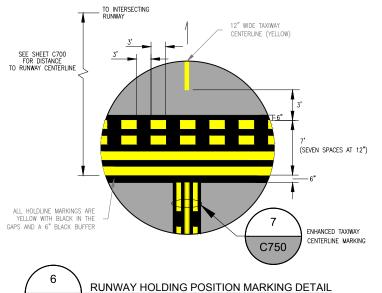


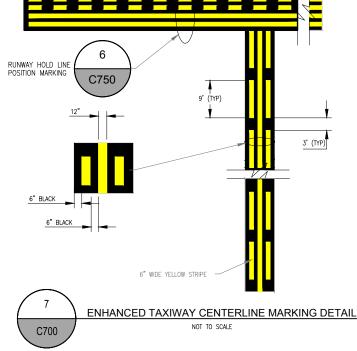
RUNWAY 26R DESIGNATION MARKING DETAIL

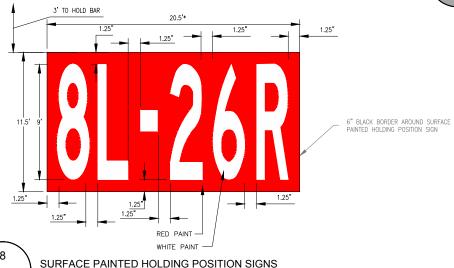












SURFACE PAINTED HOLDING POSITION SIGNS N.T.S. C700

DIMENSIONS MAY VARY BASED ON THE SIZES OF STENCILS USED. LARGER WIDTH SIGNS MAY BE NEEDED DEPENDING ON STENCIL WOTH IN GROER TO MEET THE 1.25" SPACING REQUIREMENT. COST ADJUSTMENTS WILL NOT BE PERMITTED IF LARGER SIGNS ARE NEEDED DUE TO STENCIL WIDTH. ISSUE FOR BID

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

PE-2004017211 RE-ISSUE ENTIRE SHEET NAME REG. NO. DATE FOR AND ON BEHALF OF JVIATION, INC.

JVIATION

200' (TYP.)

€ STRIPE YELLOW

SPIRIT OF ST. LOUIS AIRPORT ST. LOUIS COUNTY, MISSOURI

DES: D.W.C.	ISSUE RECORD				
	NO.	BY	DATE	DESCRIPTION	
DR: D.W.C.	1	R.B.L.	05/23/16	ISSUED FOR BID	l RF
	2	R.B.L.	06/09/16	ADDENDUM NO. 1	۱ ` ۱ ·
CH: C.L.G.					A
APP: R.B.L.					l
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C700

REHABILITATE RUNWAY 8L/26R AND RUNWAY EDGE LIGHTING

SHEET NAME PAVEMENT MARKING DETAILS C750 SHEET NO. 51 of 71

2016.SUS.01

C700-C703

MASTER ELECTRICAL LEGEND						
	EXISTING	NEW 2	DEMOLITION	ADJUST		
L-861 R/W EDGE ELEVATED LIGHT	•	(OD:	88	_		
L-861E R/W END LIGHT ELEVATED LIGHT		(°0°			<u>^</u>	
L-861T T/W EDGE LIGHT			Ø)	
L-853 RETRO-REFLECTIVE MARKER	0	0	8			
RUNWAY/TAXIWAY SIGN	0	•	M	_		
L-867 JUNCTION BOX	0	0	Ø	0		
HAND HOLE	HH	₩	_	(B)		
L-824C ELECTRICAL CABLE (DEB)			_	_		
UNIT DUCT WITH L-824C CABLE	— Е —	— Е —	_	_		
L-824C CABLE (HASH MARKS INDICATE THE NUMBER OF CONDUCTORS)	/ ②	#	_	_		

CIRCUIT LEGEND
RUNWAY

NOTES:
1. ALL TAXIWAY LIGHTS TO BE ADJUSTED ARE STAKE MOUNTED.

R/W LIGHT KEY
C - WHITE Y - YELLOW G - GREEN R - RFD

		ABBREVIATIONS	LEGEND)	(NOT ALL ABBREVIATIONS ARE USED)
A	_	AMP	ОНТ	_	OVERHEAD TELEPHONE
AFF	_	ABOVE FINISHED FLOOR	Р	_	PHASE
AFG	-	ABOVE FINISHED GRADE	PAPI	_	PRECISION APPROACH PATH INDICATOR
ATS	_	AUTOMATIC TRANSFER SWITCH	PT	_	POINT OF TANGENCY
BC	_	BARE COPPER	PVC	_	POLYVINYL CHLORIDE CONDUIT
С	_	CONDUIT	REIL	-	RUNWAY END INDICATOR LIGHT
CCR	_	CONSTANT CURRENT REGULATOR	RGL	_	RUNWAY GUARD LIGHT
CE	-	CONCRETE ENCASED	RGS	-	RIGID GALVANIZED STEEL CONDUIT
CKT.	_	CIRCUIT	RE	-	REFER TO
CLSM	-	CONTROLLED LOW STRENGTH MATERIAL	R/W	-	RUNWAY
сомм.	_	COMMUNICATION	S	-	SEWER
CONC.	-	CONCRETE	SCHD.	-	SCHEDULE
DEB	_	DIRECT EARTH BURIED	SHT.	-	SHEET
ELEC.	-	ELECTRIC/ELECTRICAL	STA.	-	STATION
EXIST., EX.	. –	EXISTING	TDZ	-	TOUCH DOWN ZONE
FAA	-	FEDERAL AVIATION ADMINISTRATION	T/W	-	TAXIWAY
F.O.	-	FIBER OPTIC	TYP	-	TYPICAL
GFI	-	GROUND FAULT INTERRUPTING	UE, UGE	-	UNDERGROUND ELECTRICAL
GND., G	-	GROUND	U.G.	-	UNDERGROUND
HDPE	-	HIGH-DENSITY POLYETHYLENE	UON	-	UNLESS OTHERWISE NOTED
kV	-	KILOVOLTS	UT	-	UNDERGROUND TELEPHONE
kW	-	KILOWATTS	٧	-	VOLT
MALSR	-	MEDIUM INTENSITY APPROACH LIGHT SYSTEM WITH RUNWAY ALIGNMENT INDICATOR LIGHTS	VA	-	VOLT AMP
MH.	_	MANHOLE	W	-	WATT, WIRE
N.I.C.	-	NOT IN CONTRACT	W/	-	WITH
NO.	_	NUMBER	WP	-	WEATHERPROOF
OHP	-	OVERHEAD POWER	XFMR	-	TRANSFORMER

ISSUE RECORD

DESCRIPTION

GENERAL NOTES:

- THE PROJECT PAY ITEMS PROVIDED ARE TO BE INCLUSIVE OF ALL WORK TO BE PERFORMED AS SHOWN IN THE CONTRACT DOCUMENTS. ALL WORK NOT IDENTIFIED WITH A SPECIFIC PAY ITEM IS TO BE CONSIDERED REQUIRED WORK TO COMPLETE THE PROJECT, AND IS TO BE INCIDENTAL TO THE COST OF PROJECT PAY ITEMS PROVIDED.
- WHENEVER, IN THE CONTRACT DOCUMENTS, THE WORDS "PROVIDE",
 "FURNISH", "INSTALL", "FURNISH AND INSTALL", OR OTHER SIMILAR WORDS
 ARE USED, IT SHALL BE UNDERSTOOD THAT THE INTENT OF THE CONTRACT
 DOCUMENT IS TO PROVIDE FOR THE CONSTRUCTION AND COMPLETION IN EVERY DETAIL THE WORK DESCRIBED. IT IS FURTHER INTENDED THAT THE CONTRACTOR SHALL FURNISH ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, SUPPLIES, TESTING, AND INCIDENTALS REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE DRAWINGS (PLANS), SPECIFICATIONS, AND TERMS OF THE CONTRACT.
- C. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS, LICENSES, ETC., PRIOR TO COMMENCEMENT OF WORK. THE COST OF PERMITS, LICENSES, ETC. SHALL BE INCIDENTAL TO AND INCLUDED IN THE BID PRICE FOR THE RESPECTIVE PAY ITEMS.
- D. ALL DAMAGE TO UTILITIES OR EXISTING STRUCTURES FROM CONSTRUCTION ACTIVITIES SHALL BE IMMEDIATELY REPORTED TO THE RESIDENT ENGINEER. THE RESIDENT ENGINEER SHALL DETERMINE WHETHER REPAIR OR REPLACEMENT IS NECESSARY. ALL REPAIR METHODS SHALL BE SUBMITTED TO THE RESIDENT ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INITIATING
- E. IN NEW PAYEMENT ALL CONDUITS, DUCT BANKS, COUNTERPOISE, GROUND CONDUCTORS, ETC. SHALL BE INSTALLED PRIOR TO PLACEMENT OF THE FINAL LIFT OF PAYEMENT.
- F. THE ELECTRICAL CONTRACTOR SHALL ATTEND THE CONSTRUCTION MEETINGS FOR THE DURATION OF THE PROJECT.
- G. AIRFIELD SIGNS PROVIDING DIRECTIONS TO CLOSED AREAS SHALL BE ARRITED SIGNS PROVIDING DIRECTIONS TO CLOSED AREAS SHALL BE.
 COVERED. ALL AREAS CLOSED TO AIRCRAFT SHALL NOT BE LIGHTED.
 ADEQUATE LIGHTING, IN THE OPINION OF THE RESIDENT ENGINEER, SHALL BE.
 PROVIDED TO DELINEATE THE ACTIVE AND CLOSED AREAS OF THE ADA. THE ABOVE ITEMS ARE CONSIDERED INCIDENTAL TO THE VARIOUS BID ITEMS.
- H. ALL COMPONENTS OF THE AIRFIELD LIGHTING SYSTEM OUTSIDE OF THE ALL COMPONENTS OF THE AIRFIELD LIGHTING SYSTEM OUTSIDE OF THE PROJECT AREA AND CLOSED PORTIONS OF THE AIRFIELD SHALL BE OPERATIONAL AT THE END OF EACH WORK SHIFT, AT NIGHT AND FOR EVERY PERIOD OF LOW MISIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TEMPORARY JUMPERS AND OTHER EQUIPMENT NECESSARY TO MAINTAIN AN OPERATIONAL SYSTEM DURING CONSTRUCTION. ALL TEMPORARY JUMPERS SHALL BE INSTALLED IN CONDUIT.
- CONTRACTOR SHALL BE REQUIRED TO PROVE TO THE SATISFACTION OF THE PROJECT ENGINEER THAT THE LIGHTING SYSTEM IS OPERATIONAL BEFORE LEAVING THE WORKSITE AFTER EVERY WORK SHIFT.
- THE AIRPORT MAINTENANCE DEPARTMENT'S "LOCK/TAG/TRY" PROCEDURE AND NFPA 70E SHALL BE COMPLIED WITH BY THIS CONTRACTOR.
- K. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO STARTING
- L. EXISTING CONDUIT, DUCT BANK, CIRCUITING, AND UTILITY INFORMATION IS BASED ON "AS-BUILT" AND "RECORD" DRAWINGS AND SITE VISITS BY THE ENGINEER. THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL NOT BE SCALED FOR EXACT LOCATION. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO CONTACT THE BE THE RESPONSIBILITY OF THIS CONTRACTOR TO CONTACT THE APPROPRIATE UTILITY/AGENCY, PRIOR TO STARING WORK, AND STAKE/MARK THE LOCATION OF ALL EXISTING UTILITIES. ANY INTERRUPTION OF AN EXISTING SYSTEM OR UTILITY SERVICE SHALL BE COORDINATED AND APPROVED BY THE AIRPORT AND THE AUTHORITY, AGENCY, OR UTILITY HAVING JURISDICTION, PRIOR TO STARTING WORK.
- M. ALL REMOVED FIXTURES, BASEPLATES, SPACERS, SIGNS, TRANSFORMERS, ETC. ALL REMOVED THRUTES, BASEFLAIES, SPACES, SIGNS, IRANS-TORMERS, EIC.
 SHALL BE TURNED OVER TO THE AIRPORT'S MAINTENANCE DEPARTHENT. ALL
 REMOVED CABLES, DUCT, BASECANS, CONCRETE PADS, MANHOLES, ETC.
 SHALL BE PROPERLY AND LEGALLY DISPOSED OF OFF THE SITE BY THE
 CONTRACTOR. ALL ITEMS TO BE RELOCATED SHALL BE REMOVED FIRST AND
 PROPERLY STORED FOR FUTURE INSTALLATION.

- N. THE DIMENSION BETWEEN LIGHTS SHOWN ON A RADIUS IS DEFINED AS THE CHORD LENGTH. LOCATIONS SHOWN ARE TO THE CENTER OF THE LIGHTING FIXTURE.
- O. PROVIDE WORK, EQUIPMENT AND MATERIALS THAT COMPLY WITH FAA REQUIREMENTS, NATIONAL ELECTRICAL CODE, AND ALL LOCAL CODES.
- PROVIDE PROPER CONSTRUCTION WARNINGS AND BARRICADES PER FAA REQUIREMENTS, AND PRESENT PLANS FOR SAME TO ENCINEER AND AIRPORT OPERATIONS MANAGER FOR APPROVAL PRIOR TO COMMENCING WORK.
- Q. NOTIFY ENGINEER OF ANY SIGNIFICANT DIFFERENCES BETWEEN DRAWINGS AND
- R. DAMAGE TO EXISTING EQUIPMENT NOT ASSOCIATED WITH DEMOLITION FOR THIS PROJECT TO BE REPAIRED AND OPERATIONAL AT CONTRACTOR'S EXPENSE.
- S. LOCATION OF EXISTING UTILITIES AND STRUCTURES IS BASED ON THE BEST AVAILABLE INFORMATION AND IS NOT WARRANTED TO BE EXACT, NOR IS IT WARRANTED THAT ALL UTILITIES ARE SHOWN.
- T. CONTRACTOR TO FIELD VERIFY USING SURVEY ALL ELEVATION ADJUSTMENTS PRIOR TO ORDERING EXTENSION RINGS OR EXCAVATING ELECTRICAL
- U. WHERE NEW DUCT BANKS OR OTHER UTILITIES ARE NEAR EXISTING UTILITIES WHERE NEW BOULD BANKS ON OFFICEN THEIR OFFICENCY ARE NEAR ESTIME OFFICENCY THE CONTRACTOR SHALL HAND EXCAVATE AROUND THE EXISTING UTILITIES IN ORDER TO PREVENT DAMAGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATELY REPAIRING ANY UTILITY DAMAGED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL REMOVE ALL CONDUIT WHICH IS MARKED FOR REMOVAL ON DEMOLITION SHEETS AND IS DISRUPTED BY EARTHWORK OR DEMOLITION ACTIVITES. CONDUIT WHICH IS NOT DISRUPTED BY THE CONTRACTOR MAY BE ABANDONED IN PLACE. NO PAYMENT SHALL BE MADE FOR REMOVAL OF CONDUIT.
- THE CONTRACTOR SHALL REMOVE ALL ABANDONED/UNUSED CONDUCTORS CONTAINED IN CONDUITS IN WHICH NEW CONDUCTORS ARE INSTALLED. NO ABANDONED CONDUCTORS SHALL BE LEFT IN PLACE AT THE COMPLETION OF THE JOB. NO PAYMENT WILL BE MADE FOR REMOVAL OF EXISTING CONDUCTORS. ALL REMOVED WIRE SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
- X. THE CONTRACTOR SHALL KEEP A SET OF AS-BUILT DRAWINGS THAT SHALL BE SUBMITTED TO THE ENGINEER AT THE COMPLETION OF THE JOB. INCLUDED AS PART OF THE A-BUILT DRAWINGS SHALL BE A RECORD THE EXACT ROUTING OF ALL CIRCUIT CONDUCTORS INSTALLED AS PART OF THIS JOB. THE CONTRACTOR SHALL NOTE, AND BRING TO THE ENGINEER'S ATTENTION, ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD

ISSUE FOR BID

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

RYAN B. LORTON

ELECTRICAL LEGEND AND NOTES

PE-2004017211 DATE

REG. NO.

FOR AND ON BEHALF OF JVIATION, INC.

SHEET NAME

SHEET NO. 64 of 71

E001

AND RUNWAY EDGE LIGHTING MoDOT PROJ. NO. JVIATION PROJ. NO. 15-113A-3 2016.SUS.01

REHABILITATE RUNWAY 8L/26R

JVIATION

SPIRIT OF ST. LOUIS AIRPORT ST. LOUIS COUNTY, MISSOURI DES: D.W.C

DR: D.W.C

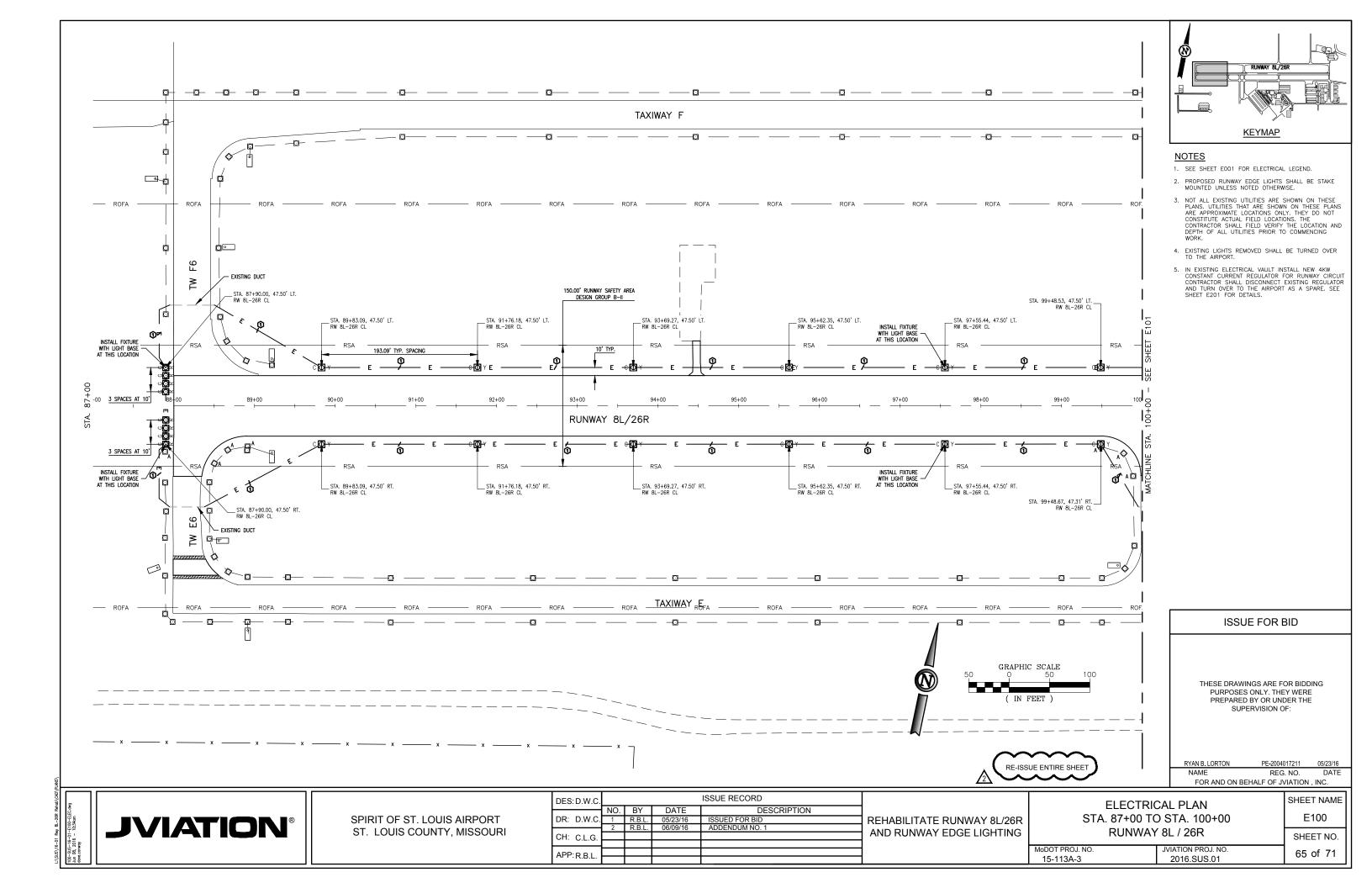
CH: C.L.G

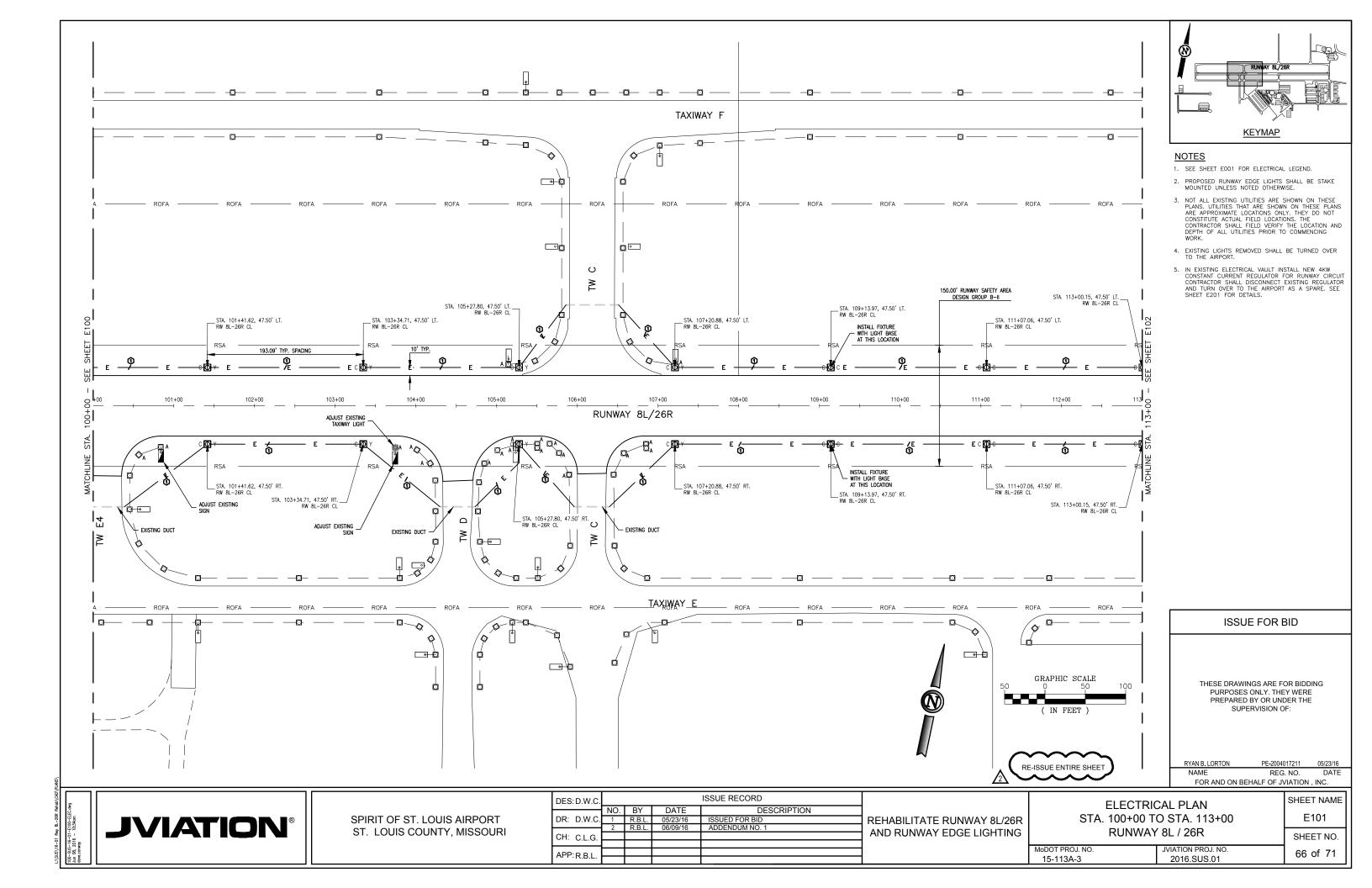
APP: R.B.L

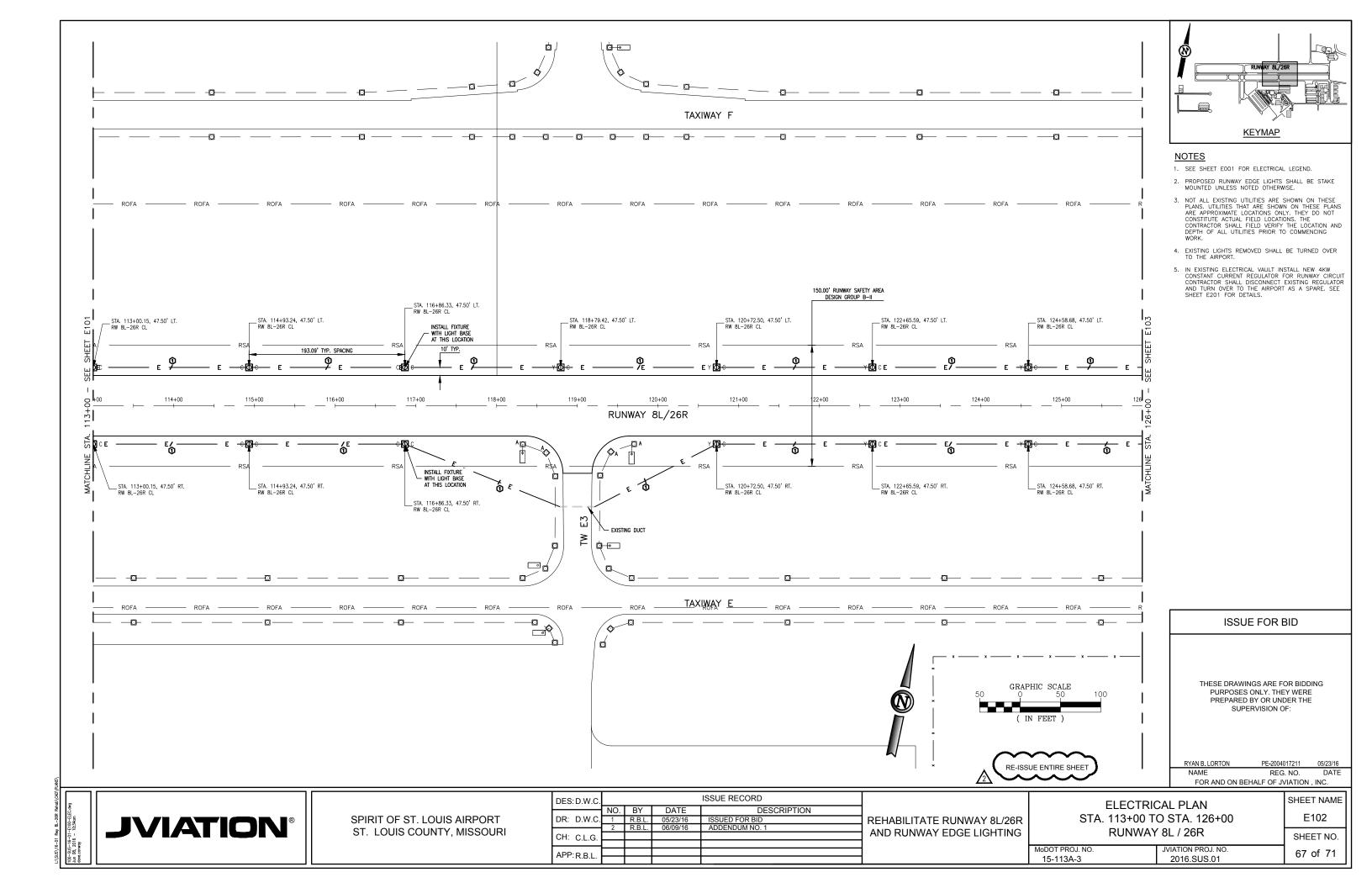
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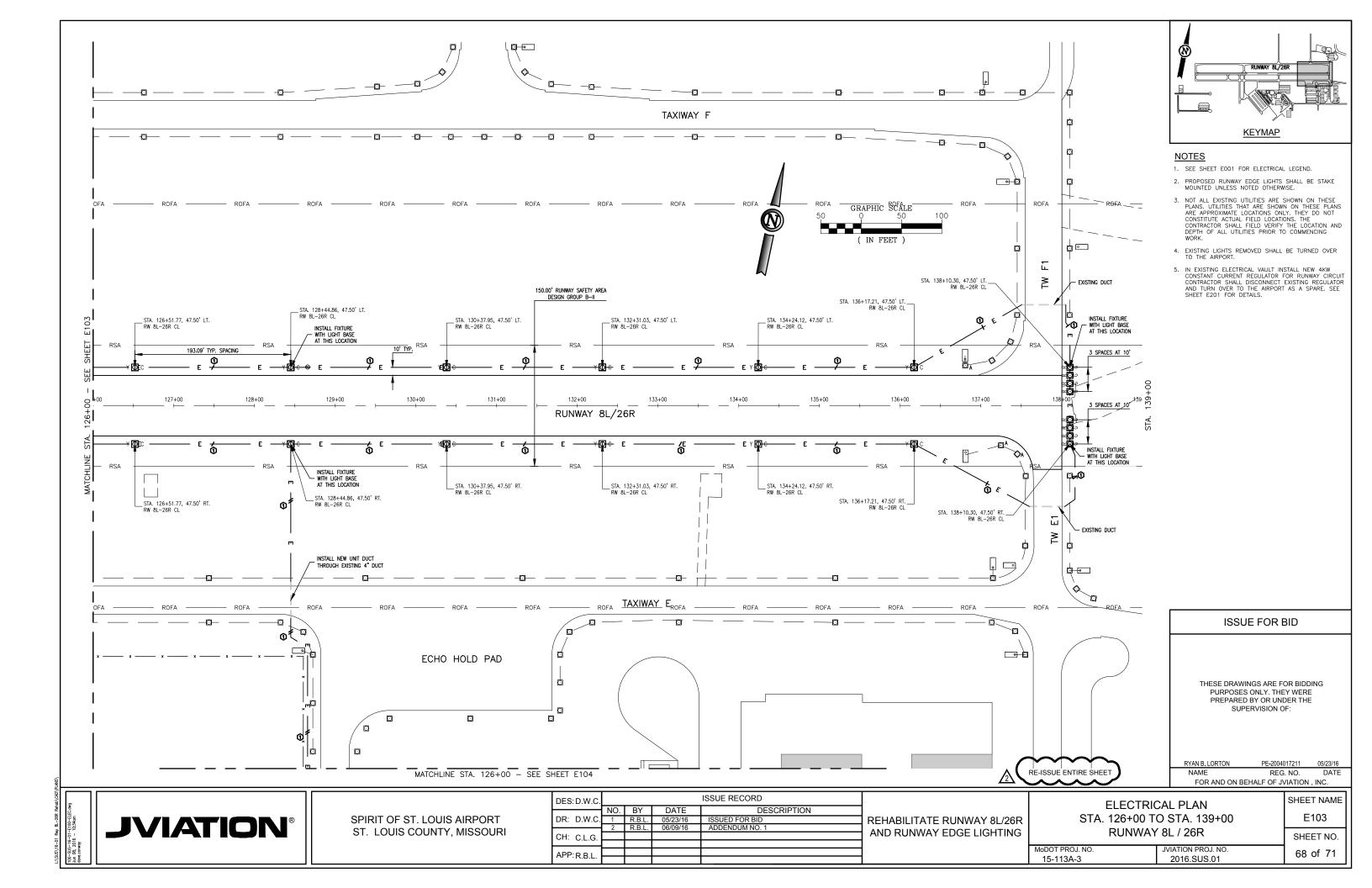
1 R.B.L. 05/23/16

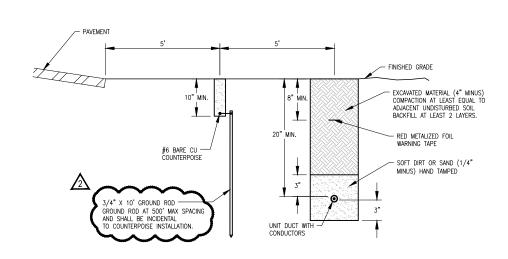
2 R.B.L. 06/09/16 ADDENDUM NO. 1





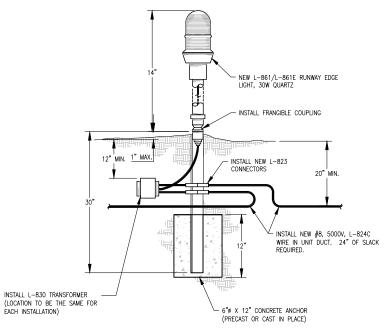






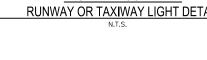


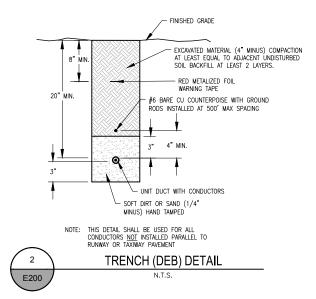
THIS DETAIL SHALL BE USED FOR ALI CONDUCTORS INSTALLED PARALLEL TO RUNWAY OR TAXIWAY PAVEMENT

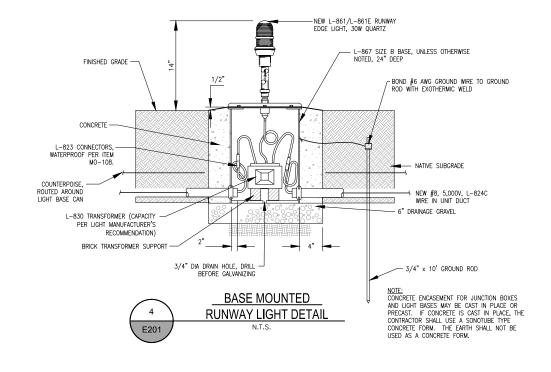


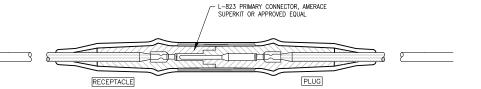


STAKE MOUNTED RUNWAY OR TAXIWAY LIGHT DETAIL







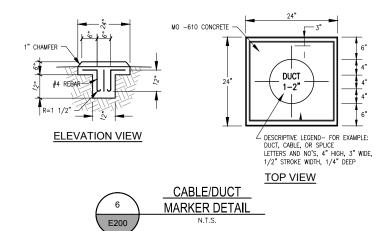




L-823 INSTALLATION INSTRUCTIONS TO SUPPLEMENT THE MANUFACTURERS INSTRUCTIONS

- 1. CLEAN THE CABLE THOROUGHLY 12" MIN. FROM THE END.
- 2. REMOVE INSULATION PER MANUFACTURERS INSTRUCTIONS. DO NOT NICK THE CONDUCTOR.
- INSTALL PIN AND/OR RECEPTACLE WITH A CRIMPING TOOL WHICH MUST BE COMPLETELY CLOSED BEFORE THE TOOL MAY BE REMOVED.
- 4. BE SURE CABLE AND CONNECTOR FITTINGS ARE CLEAN, COAT THE CABLE INSULATION WITH INSULATING JELLY FROM THE CONNECTOR.
- 5. CAREFULLY INSERT CABLE INTO CONNECTOR TO THE PROPER DEPTH.
- 6. CLEAN CONNECTOR AND CABLE INSULATION WITH WAX OR GREASE SOLVENT TO REMOVE SURFACE SILICONE JELLY.
- SLIP 16 INCH LENGTH OF HEAT SHRINK TUBING WITH INTEGRAL SEALANT ON TRANSFORMER LEAD.

- 8. COMPLETE CONNECTION BY MATING THE PLUG AND RECEPTACLE. CAUTION: BE SURE THE CABLE DOES NOT SLIP OUT WHEN THE CONNECTION IS MADE.
- 9. APPLY RUBBER TAPE AND VINYL TAPE ONE HALF LAPPED, $1\!-\!1/2$ INCHES ON EACH SIDE OF JOINT.
- ANY CONNECTOR WHICH IS CONTAMINATED BY DIRT OR OTHER DAMAGING MATERIAL SHALL BE REMOVED AND NOT REINSTALLED.
- 11. CENTER HEAT SHRINK OVER THE CONNECTOR, APPLY HEAT EVENLY BEGINNING AT THE CENTER AND WORKING AROUND CABLE TO ENDS. <u>DO NOT OVER HEAT.</u>
- 12. THE HEAT SOURCE SHALL BE AN ELECTRIC HEAT GUN OR A PROPANE TORCH WITH A FLAME SPREADER TO BE APPROVED BY THE ENGINEER.



15-113A-3

ISSUE FOR BID

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

NAME

2016.SUS.01

PE-2004017211 REG. NO.

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FOR AND ON BEHALF OF JVIATION, INC.

SHEET NAME

ELECTRICAL DETAILS E200 SHEET NO.

ISSUE RECORD DES: D.W.C NO. BY DATE DESCRIPTION DR: D.W.C 1 R.B.L. 05/23/16 2 R.B.L. 06/09/16 ADDENDUM NO. 1 CH: C.L.G APP: R.B.L

REHABILITATE RUNWAY 8L/26R AND RUNWAY EDGE LIGHTING

SPIRIT OF ST. LOUIS AIRPORT ST. LOUIS COUNTY, MISSOURI

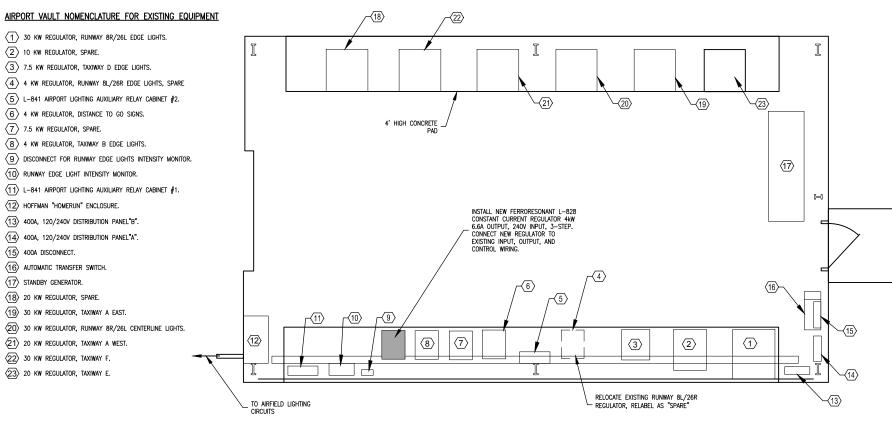


- ALL ELECTRICAL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES.
- 2. ALL WIRING METHODS, MATERIALS, ETC. TO MATCH EXISTING.
- 3. COORDINATE REQUIRED CLEARANCES FROM OTHER SYTEMS IN ROOM PRIOR TO EQUIPMENT INSTALLATION.
- THE CONTRACTOR SHALL DISCONNECT AND RELOCATE EXISTING R/W 8L/26R CONSTANT CURRENT REGULATOR AND INSTALL A NEW 4KW, 240V INPUT, 6.6A OUTPUT, 3-STEP FERRORESONANT TYPE L-828 CCR.

RUNWAY LOAD TABLE						
ITEM	QUANTITY	LOAD (VA)	TOTAL LOAD (VA)			
L-861 RUNWAY EDGE LIGHT	49	45	2205			
L-861E RUNWAY THRESHOLD LIGHT	16	45	720			
		TOTAL VA	2925			

1 30 KW REGULATOR, RUNWAY 8R/26L EDGE LIGHTS.

- 2 10 KW REGULATOR, SPARE.
- 3 7.5 KW REGULATOR, TAXIWAY D EDGE LIGHTS.
- 4 KW REGULATOR, RUNWAY 8L/26R EDGE LIGHTS, SPARE
- 5 L-841 AIRPORT LIGHTING AUXILIARY RELAY CABINET #2.
- 6 4 KW REGULATOR, DISTANCE TO GO SIGNS.
- 7 7.5 KW REGULATOR, SPARE.
- 8 4 KW REGULATOR, TAXIWAY B EDGE LIGHTS.
- OBSCONNECT FOR RUNWAY EDGE LIGHTS INTENSITY MONITOR.
- (10) RUNWAY EDGE LIGHT INTENSITY MONITOR.
- (11) L-841 AIRPORT LIGHTING AUXILIARY RELAY CABINET #1.
- 12 HOFFMAN "HOMERUN" ENCLOSURE.
- (13) 400A, 120/240V DISTRIBUTION PANEL"B".
- (14) 400A, 120/240V DISTRIBUTION PANEL"A".
- 15 400A DISCONNECT.
- 16 AUTOMATIC TRANSFER SWITCH.
- (17) STANDBY GENERATOR.
- (18) 20 KW REGULATOR, SPARE.
- (19) 30 KW REGULATOR, TAXIWAY A EAST.
- 20 30 KW REGULATOR, RUNWAY 8R/26L CENTERLINE LIGHTS.
- 21 20 KW REGULATOR, TAXIWAY A WEST.
- 22 30 KW REGULATOR, TAXIWAY F. \bigcirc 20 KW REGULATOR, TAXIWAY E.



CONTRACTOR TO FIELD VERIFY 3/8" COVER PLATE - 1" CHAMFER ALL EXPOSED EDGES (TY - PROPOSED GRADE WIDTH VARIES — INSTALL L-867B BASE CAN EXTENSION NEW CONCRETE-6"X 6" - 10# X 10# MESH -CONCRETE BONDING AGENT -- EXISTING CONNECTIONS WITH WATERPROOFING PER MO-108 AND MO-125. (TYP.) 2" PVC DUCT-EXISTING CONCRETE FOUNDATION-FLEX CONNECTORS — ON ALL HUBS. EXISTING L-830 TRANSFORMER CONTRACTOR TO FIELD VERIFY CONCRETE PAD DIMENSIONS.
THE CONTRACTOR SHALL THOROUGHLY CLEAN THE SURFACE INCLUDING CURING COMPOUND, AS REQUIRED PRIOR TO APPLYING A CONCRETE BOND AGENT. L-858 SIGN ADJUSTMENT DETAIL E201 ISSUE FOR BID

AIRFIELD LIGHTING VAULT PLAN N.T.S. E201

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

PE-2004017211 REG. NO. DATE

FOR AND ON BEHALF OF JVIATION, INC.

JVIATION

SPIRIT OF ST. LOUIS AIRPORT ST. LOUIS COUNTY, MISSOURI

DES: D.W.C.	ISSUE RECORD				
	NO.	BY	DATE	DESCRIPTION	
DR: D.W.C.	1	R.B.L.	05/23/16	ISSUED FOR BID	REH
	2	R.B.L.	06/09/16	ADDENDUM NO. 1	AND
CH: C.L.G.					AND
APP: R.B.L.					

HABILITATE RUNWAY 8L/26R ID RUNWAY EDGE LIGHTING

SHEET NAME AIRFIELD LIGHTING VAULT PLAN E201 SHEET NO.

2016.SUS.01

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SPIRIT OF ST. LOUIS AIRPORT

MoDOT PROJECT NO. 15-113A-3 ST. LOUIS COUNTY IFB NO. 2016-05-3611-PG

DATE: June 7, 2016 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. Airport Representatives
 - Robert Heine Airport Engineer
 - David Schubert Deputy Director of Aviation
 - John Bales Director of Aviation
 - Retta Morcom Executive Secretary to the Director of Aviation
- B. Airport Engineering Jviation, Inc.
 - Ryan Lorton Project Manager
- C. MoDOT Aviation
 - Andrew Hanks Project Manager
- D. Project Schedules
 - Schedule I Rehabilitate Runway 8L/26R Pavement and Runway Edge Lighting
- E. Addendum No. 1 scheduled to be issued on Thursday, June 9th.
- F. Major Work Items

Schedule I Quantities (These quantities are updated and will be reflected in Addendum No. 1.)

•	Mobilization	1 LS
•	Variable Depth Milling	43,433 SY
	Bituminous Pavement Removal (Full Depth)	
•	Embankment	2,565 CY
•	Silt Fence	10.000 LF

Bituminous Asphalt Pavement (BP-1)	
	6 520 C A I
Bituminous Tack Coat	0,330 GAL
Airport Pavement Marking	33,765 SF
Airport Pavement Marking Removal	2,610 SF
Crack Sealing	
Seeding with Hydromulch	11 AC
• 1/C #8 AWG, L-824C, 5,000 Volt Wire, Installed in 1-1/2" Unit Duct	12,000 LF
• 2/C #8 AWG, L-824C, 5,000 Volt Wire, Installed in 1-1/2" Unit Duct	2,500 LF
• #6 AWG Bare Copper Counterpoise, including ground rods	14,500 LF
Remove Runway Edge Light	62 EA
Adjust Taxiway Edge Light	
• Install L-861/L-861E Base Mounted Runway Edge/Threshold Light	12 EA
• Install L-861/L-861E Stake Mounted Runway Edge/Threshold Light	53 EA
L-828 4kW Constant Current Regulator	1 EA
• Remove and Reinstall L-858 Guidance Sign on New Concrete Foundation	1 EA

3. BID OPENING

A. Date: Tuesday, June 14, 2016 at 2:00 P.M. (CST)

B. Submittal of Bids: Mercury Commerce (electronic submittals preferred)

(If submitting a hard copy bid it must be submitted to the address below. See

Document 00100 Instruction to Bidders.)

C. Bids Opened: St. Louis County

L.K. Roos Building 41 S. Central Avenue 8th Floor: Procurement Clayton, MO 63105

- D. Bid Bond: 5% of bid amount See Notice to Bidders page 3 and Section 2, Document 00100 Instructions to Bidders, Paragraph 1.06 BIDS AND BIDDING PROCEDURE.
- E. Bid Proposal: See Section 1, Submittals/Bidder's Check List for instructions on submitting a bid. This check list outlines in detail what is required to be submitted as part of the bid package.
- F. Award: Notice to Bidders, Section 1, Page 3 and Section 30 Award and Execution of Contract.

4. DBE GOAL

A. 12% of Contract Amount.

5. ESTIMATED CRITICAL CONTRACT DATES

A. Contract Award: Summer 2016 (ESTIMATED).

B. Notice to Proceed: Summer 2016 (ESTIMATED), Refer to Section 80-2.

Project Time: 60 Calendar Days for Schedule I. 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 2, 00140 Insurance Requirements.

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 Appendix C, Federal and State Wage Rates.

10. ENGINEER'S FIELD OFFICE

A. See Section 3, General Provisions – 60-05 ENGINEER'S FIELD OFFICE for field office requirements.

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.

SCHEDULE	LIQUIDATED DAMAGES COST	ALLOWED CONSTRUCTION TIME		
Phase 1	\$750/Calendar Day	50 Calendar Days		
Phase 2	\$750/Calendar Day	10 Calendar Days		

The maximum construction time allowed for the overall project is 60 Calendar Day(s).

Please see Sheets, G008 through G011 of the Construction Drawings for more information on the scheduling/sequencing of work in Phases 1 and 2.

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. PROJECT PHASING

- A. Phase 1: Runway 8L/26R closed. Taxiway F closed west of Taxilane 1. Taxiway E closed west of Taxiway D.
- B. Phase 2: Runway 8L/26R closed. Taxiway F closed west of Taxiway C. Taxiway E closed west of Taxiway D.

13. MISCELLANEOUS

- A. Construction Materials: Sales Tax Exemption. Refer to Section 2, 00130 Sales Taxes on St. Louis County Projects.
- B. Contractor Access: For Phase 1 access from the west side of the Airport off of N. Eatherton Road to Wings Corporate Drive as shown on the Phase 1 plan sheet. For Phase 2 access from Wings of Hope Blvd as shown on the Phase 2 plan sheet.
- C. Acceptance Testing: Acceptance testing for this project is the responsibility of the Engineer. Contractor required to have nuclear density gauge on site during paving operations and is responsible to cut the asphalt cores per the requirements of MO-401F.
- D. On-Site Borrow Area shown on Phasing Sheets.
- E. Waste Area- Sheet G003, MATERIAL SUPPLY AND DISPOSAL Note 2. Contractor shall dispose of all waste materials offsite.
- F. Haul Route- Sheet G003, SITE ACCESS AND STAGING Note 5. The Contractor shall be responsible for any damage to existing facilities or roads regardless of legal load. Repairs shall be made at no additional cost to the Sponsor.
- G. Questions will be taken until **Wednesday, June 8, 2016 5:00 p.m. (CST).** See Section 1, Form P123 Procurement Bid Question and Comment Form.

14. QUESTIONS

Rehabilitate Runway 8L/26R Pavement and Runway Edge Lighting MoDOT #15-113A-3

PRE-BID MEETING

June 7, 2016 10:00 AM

	NAME	COMPAÑY NAME	PHONE NUMBER	CELL NUMBER	E-MAIL
1	Bob Heine	Spirit Airport	636-532-2222	314-220-2189	RHEINE@STLOUISCO.COM
2	Dave Schubert	Spirit Airport	636-532-2222	314-568-0584	DSCHUBERT@STLOUISCO.COM
3			10 No. 10	227 202 000 1	
4	Retta Morcom	Spirit Airport	636-532-2222		RMORCOM@STLOUISCO.COM
_ [Ryan Lorton	Jviation, Inc.	573-636-3200	573-418-1450	RYAN.LORTON@JVIATION.COM
3	MikoSHOPARD	Cours & Hornson		314 267 0617	
6	TIM SCHULTE	N.B. WEST Contracting	314-962-3145	314-578-3127	tschulte@Nbwest.com
7	Ralph 5m. 45	Mayer Elect	314-365-1267	No.	Mmsalplamita 20 gmail.
8	Mile Parisot		636-532-20a		MPANISO + CSachsco.com
9	Told BRUENING	PLM	636-532-2000 3)323 7325	(3) 323 7325	Todd. BRUENING e PARKINGLM. COM
10	BRAD FRITSCHE	FORD ASPHALT	314.291.2600	314-443.8132	Stritsche a fordasphalt. com
11	Andy Hanks	MODOT	573-751-7478		andrew. hanks@modot
12	Dave Schole F	Market Bernard Contract Contra			

Rehabilitate Runway 8L/26R Pavement and Runway Edge Lighting MoDOT #15-113A-3

PRE-BID MEETING

June 7, 2016 10:00 AM

	NAME	COMPANY NAME	PHONE NUMBER	CELL NUMBER	E-MAIL
13	Mite Leuis	Foundation Supportuo	314.267.7349 rks by wood,	Sanc	MLewis @ woodsbasementsystems.com
14					
15					
16	*				
17					
18	-				
19					
20					
21					
22					
23					
24					

Display Planholders for Rehabilitate Runway 8L/26R Pavement & Edge Lighting

Sorted By Company

Printer Friendly Version

Click on the following links to sort by a category:

Company | CSI Code | Contact Name | Sets Issued | Date | Bid Category

Company Information	Contact Information	Status Date Filled Date Returned	Delivery Method Tracking Number	Sets Issued
Aschinger Electric 877 Horan Fenton, MO 63026 CSI Code: 16000 - Electrical Bid Cat.:	Shelli Wassall Phone: 636 343-1211 Fax: 636 343-9658	Filled	County Blue - Delivery	
Collins & Hermann, Inc 1215 Dunn Road St Louis, MO 63138 CSI Code: 02000 - Sitework Bid Cat.:	Amy Mareing Phone: 314 869-8000 Fax: 314 869-8498	Filled	Call When Ready	001
Eaton Crouse Hinds Airport Lighting 1200 Kennedy Road Windsor, CT 06095 CSI Code: 16000 - Electrical Bid Cat.:	Susan Flanagan Phone: 860 683-4300 Fax: 860 683-4354	Filled	Will Call	
Ford Asphalt Co Inc 13164 Taussig Ave Bridgeton, MO 63044 CSI Code: 02700 - Bases, Ballasts, Pavements & Appurt Bid Cat.:	Brad Fritsche Phone: 314 291-2600 Fax: 314 291-5622	Filled	Call When Ready	
Gershenson Construction 2 Truitt Drive Eureka, MO 63025 CSI Code: 01000 - General Contractor Bid Cat.:	Roxanne Wallace Phone: 636 938-9595 Fax: 636 938-9501	Filled	Call When Ready	
Meyer Electric 3513 North Ten Mile Drive Jefferson City, MO 65109 CSI Code: 16000 - Electrical Bid Cat.:	Leon Keller Phone: 573 893-2335 Fax: 573 893-3686	Filled	Will Call	
Multi Electric Mfg 4223 West Lake Street Chicago, IL 60624 CSI Code: 03200-Supplier Bid Cat.:	Frank Kazienko Phone: 773 722-1900 Fax: 773 722-5694	Filled	Call When Ready	
N B West Contracting Co 2780 Mary Ave St Louis, MO 63144 CSI Code: 03000 - Concrete Bid Cat.:	Chris West Phone: 314 962-3145 Fax: 314 962-8650	Filled	Will Call	
Pace Construction Company 1620 Woodson Road St Louis, MO 63114 CSI Code: 01000 - General Contractor Bid Cat.:	Chris Finn Phone: 314 524-7223 Fax: 314 991-5183	Filled	Will Call	
				001

Sachs Electric 1572 Larkin Williams Rd Fenton, MO 63026 CSI Code: 16000 - Electrical Allyson Schoenberg Filled Phone: 636 532-2000 Fax: 636 532-1263 County Blue - Delivery

Bid Cat.:

Display Planholders for Rehabilitate Runway 8L/26R Pavement & Edge Lighting