

January 24, 2022

To: Plan Holders for Improvements to the
St. Charles County Regional Airport – Smartt Field
Portage Des Sioux, Missouri
MoDOT Project No. 21-111A-2
St. Charles County IFB 22-148

Transmitted herewith is Addendum **No. 4** to the Issued for Bid Contract Documents, Specifications and Plans dated December 2, 2022 for Improvements to the St. Charles County Regional Airport – Smartt Field.

Schedule I: Construct Taxilanes



Sincerely,

Jviation, a Woolpert Company

Laura Koonce, P.E.
Project Manager

**ADDENDUM NO. 4
TO
CONTRACT DOCUMENTS, SPECIFICATIONS AND PLANS
FOR IMPROVEMENTS TO THE
ST. CHARLES COUNTY REGIONAL AIRPORT – SMARTT FIELD
PORTAGE DES SIOUX, MISSOURI
MODOT PROJECT NO. 21-111A-2
ST. CHARLES COUNTY IFB 22-148**

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, Specifications and Plans are modified as follows as of January 24, 2023:

1. CONTRACT DOCUMENTS/SPECIFICATIONS

Contract Documents – Summary of Approximate Quantities

Section – Section 1-2

Revision. The line-item P-152b Topsoil has been added.

Justification. *This line-item is to include payment for topsoil placement per the P-152 specification.*

Contract Documents – Bid Proposal

Section – Schedule I

Revision. The line-item P-152b Topsoil has been added.

Justification. *This line-item is to include payment for topsoil placement per the P-152 specification.*

Specifications – Item P-152 Excavation and Embankment

Section – Section 152-2.15 through 152-4.2

Revision. The line-item P-152b Topsoil has been added as well as excavation wording corrections.

Justification. *This line-item is to include payment for topsoil placement per the P-152 specification.*

2. **PLANS**

G005 – (5 of 33) – Summary of Approximate Quantities

Justification. *The quantity table has been updated to reflect the addition of the line-item P-152b Topsoil.*

3. **QUESTIONS**

Question 1. Will two surveyors be required to be onsite at all times?

Answer: The Contractor will be responsible for adequately meeting the construction requirements by their necessary licensed surveyor means and methods. This includes, but is not limited to, setting project control points, meeting grade of each placed material (P-501, P-208, P-154, etc.), removing pavement in the correct location, etc. as per the project specifications.

Question 2. Will a vacuum truck be required on site while saw cutting, or is the Contractor required to wet saw to prevent cement dust in the air?

Answer: The Contractor may perform the concrete saw cutting by whatever means and methods they prefer. However, they will be responsible for cleaning up any slurry or FOD produced during construction.

Question 3. Where are the flasher and barricades and taxiway closure markers being paid at?

Answer: Per Addendum No. 2, the Airport may provide the flasher barricades for the Contractor's use during the project. Any other safety equipment shall be incidental to the project bid items.

Question 4. There is some fill work, 279 CY per sheet G005, where is that being paid at?

Answer: Per the detail on sheet G005, the earthwork shall be paid per excavation and not embankment. This shall be paid per item P-152a Unclassified Excavation.

Question 5. Phase 2 striping occurs 30 days after concrete is poured, project completion is 45 calendar days. Is phase 2 outside of the 45 calendar days?

Answer: Schedule I Phase 1 shall be completed within 44 calendar days. There will be a 30 day cure time after Schedule I Phase 1 is complete. During that time, the project calendar day count will be put on hold. The day count will start once Schedule I Phase 2 has commenced after the 30 day cure time. See sheet G050 for more details.

Question 6. During construction, it is assumed that no planes/equipment will be going in and out of the hangar building, is that correct?

Answer: Yes, that is correct. During construction there will be no access to the hangars and the construction area will be barricaded.

**** END OF ADDENDUM NO. 4 ****

BID PROPOSAL SUMMARY

Bidder Name:

SCHEDULE I TOTAL

\$

TOTAL

\$

Bidder has examined the proposed site and is familiar with all site conditions.

Signature

SCHEDULE I

Item No.	Description		Units	Estimated Quantity	Unit Price	Total
C-100a	Contractor Quality Control Program (CQCP)	at the unit price of: _____ dollars and _____ cents.	LS	1	\$	\$
C-102a	Temporary Erosion Control	at the unit price of: _____ dollars and _____ cents.	LS	1	\$	\$
C-105a	Mobilization	at the unit price of: _____ dollars and _____ cents.	LS	1	\$	\$
C-105b	Temporary Haul Route Gate	at the unit price of: _____ dollars and _____ cents.	LS	1	\$	\$
P-101a	Pavement Removal - Full Depth	at the unit price of: _____ dollars and _____ cents.	SY	1,985	\$	\$
P-101b	Removal of Existing Pipe	at the unit price of: _____ dollars and _____ cents.	LF	100	\$	\$
P-101c	Remove Buried Structure	at the unit price of: _____ dollars and _____ cents.	LS	1	\$	\$
P-152a	Unclassified Excavation	at the unit price of: _____ dollars and _____ cents.	CY	1,600	\$	\$
P-152b	Topsoil	at the unit price of: _____ dollars and _____ cents.	CY	205	\$	\$
P-154a	Subbase Course	at the unit price of: _____ dollars and _____ cents.	CY	1,448	\$	\$
P-154b	Separation Geotextile	at the unit price of: _____ dollars and _____ cents.	SY	2,172	\$	\$
P-154c	Geogrid	at the unit price of: _____ dollars and _____ cents.	SY	2,172	\$	\$
P-208a	Aggregate Base Course	at the unit price of: _____ dollars and _____ cents.	CY	242	\$	\$
P-403a	Asphalt Mixture Surface Course	at the unit price of: _____ dollars and _____ cents.	TON	137	\$	\$
P-501a	Concrete Pavement - 6 inches	at the unit price of: _____ dollars and _____ cents.	SY	1,780	\$	\$
P-603a	Emulsified Asphalt Tack Coat	at the unit price of: _____ dollars and _____ cents.	GAL	24	\$	\$
P-610a	4 Foot Wide Concrete Drain Pan	at the unit price of: _____ dollars and _____ cents.	LF	40	\$	\$
P-620a	Marking (Yellow)	at the unit price of: _____ dollars and _____ cents.	SF	289	\$	\$
P-620b	Marking (Black)	at the unit price of: _____ dollars and _____ cents.	SF	565	\$	\$
D-701a	8 inch PVC Pipe	at the unit price of: _____ dollars and _____ cents.	LF	690	\$	\$
D-701b	8 inch Flared End Section	at the unit price of: _____ dollars and _____ cents.	EA	1	\$	\$

SCHEDULE I

Item No.	Description		Units	Estimated Quantity	Unit Price	Total
D-701c	8 inch Back-flow Preventer	at the unit price of: _____ dollars and _____ cents.	EA	1	\$	\$
D-751a	Aircraft Rated Inlet	at the unit price of: _____ dollars and _____ cents.	EA	1	\$	\$
D-751b	MoDOT Inlet	at the unit price of: _____ dollars and _____ cents.	EA	1	\$	\$
L-126a	Retroreflective Marker	at the unit price of: _____ dollars and _____ cents.	EA	13	\$	\$
L-109a	Seeding	at the unit price of: _____ dollars and _____ cents.	AC	0.5	\$	\$

SCHEDULE I TOTAL _____

361 The subgrade to be over-excavated as shown on the plans shall be replaced with a Low Volume Change (LVC)
362 fill material consisting of a well-graded granular material or low to moderate plasticity cohesive soil to be
363 approved by the Engineer. A low to moderate plasticity cohesive material shall consist of inorganic clay with a
364 liquid limit less than 45 and a plasticity index of less than 25. If a granular fill is used it shall be well-graded and
365 have a maximum particle size of 1.0 inch. Use of a well-graded crushed limestone or recycled concrete meeting
366 a gradation such as a MoDOT Type 5 Aggregate or similar product may be acceptable but is subject to Engineer
367 approval. Material once placed and compacted is to have a CBR value of 5 (k-value of 100 pci) or higher.
368

369 **152-2.13 HAUL.** All hauling will be considered a necessary and incidental part of the work. The Contractor
370 shall include the cost in the contract unit price for the pay of items of work involved. No payment will be made
371 separately or directly for hauling on any part of the work.
372

373 The Contractor's equipment shall not cause damage to any excavated surface, compacted lift or to the subgrade
374 as a result of hauling operations. Any damage caused as a result of the Contractor's hauling operations shall be
375 repaired at the Contractor's expense.
376

377 The Contractor shall be responsible for providing, maintaining and removing any haul roads or routes within
378 or outside of the work area, and shall return the affected areas to their former condition, unless otherwise
379 authorized in writing by the Owner. No separate payment will be made for any work or materials associated
380 with providing, maintaining and removing haul roads or routes.
381

382 **152-2.14 SURFACE TOLERANCES.** In those areas on which a subbase or base course is to be placed, the
383 surface shall be tested for smoothness and accuracy of grade and crown. Any portion lacking the required
384 smoothness or failing in accuracy of grade or crown shall be scarified to a depth of at least 3 inches (75 mm),
385 reshaped and re-compacted to grade until the required smoothness and accuracy are obtained and approved by
386 the RPR. The Contractor shall perform all final smoothness and grade checks in the presence of the RPR. Any
387 deviation in surface tolerances shall be corrected by the Contractor at the Contractor's expense.
388

389 a. **Smoothness.** The finished surface shall not vary more than +/- 1/2 inch (12 mm) when tested
390 with a 12-foot (3.7-m) straightedge applied parallel with and at right angles to the centerline. The
391 straightedge shall be moved continuously forward at half the length of the 12-foot (3.7-m)
392 straightedge for the full length of each line on a 50-foot (15-m) grid.
393

394 b. **Grade.** The grade and crown shall be measured on a 50-foot (15-m) grid and shall be within +/-
395 0.05 feet (15 mm) of the specified grade.
396

397 On safety areas, turfed areas and other designated areas within the grading limits where no subbase or base is
398 to placed, grade shall not vary more than 0.10 feet (30 mm) from specified grade. Any deviation in excess of
399 this amount shall be corrected by loosening, adding or removing materials, and reshaping.
400

401 **152-2.15 TOPSOIL.** When topsoil is specified or required as shown on the plans or under Item P-152, it shall
402 be salvaged from stripping or other grading operations. The topsoil shall meet the requirements of Item P-152.
403 If, at the time of excavation or stripping, the topsoil cannot be placed in its final section of finished construction,
404 the material shall be stockpiled at approved locations. Stockpiles shall be located as shown on the plans and the
405 approved CSPP, and shall not be placed on areas that subsequently will require any excavation or embankment
406 fill. If, in the judgment of the RPR, it is practical to place the salvaged topsoil at the time of excavation or
407 stripping, the material shall be placed in its final position without stockpiling or further re-handling.
408

409 Upon completion of grading operations, stockpiled topsoil shall be handled and placed as shown on the plans
410 and as required in Item P-152b. Topsoil shall be paid for as provided in Item P-152b.

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METHOD OF MEASUREMENT

152-3.1 Measurement for payment specified by the cubic yard (cubic meter) shall be computed by the comparison of digital terrain model (DTM) surfaces for computation of neat line design quantities. The end area is that bound by the original ground line established by field cross-sections and the final theoretical pay line established by cross-sections shown on the plans, subject to verification by the RPR.

152-3.2 The quantity of unclassified excavation to be paid for shall be the number of cubic yards (cubic meters) measured in its original position. Measurement shall not include the quantity of materials excavated without authorization beyond normal slope lines, or the quantity of material used for purposes other than those directed.

152-3.3 Topsoil obtained on the site shall be measured by the number of cubic yards (cubic meters) of topsoil measured in its original position and stripped or excavated. Topsoil stockpiled by others and removed for topsoil by the Contractor shall be measured by the number of cubic yards (cubic meters) of topsoil measured in the stockpile. Topsoil shall be measured by volume in cubic yards (cubic meters) computed by the method of end areas.

BASIS OF PAYMENT

152-4.1 Unclassified excavation payment shall be made at the contract unit price per cubic yard (cubic meter). This price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the item.

152-4.2 Payment shall be made at the contract unit price per cubic yard (cubic meter) for topsoil. This price shall be full compensation for furnishing all materials and for all preparation, placing, and spreading of the materials, and for all labor, equipment, tools, and incidentals necessary to complete the item.

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Payment will be made under:

Item P-152a	Unclassified Excavation – per cubic yard (cubic meter)
Item P-152b	Topsoil – per cubic yard (cubic meter)

REFERENCES

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The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

American Association of State Highway and Transportation Officials (AASHTO)

AASHTO T-180 Standard Method of Test for Moisture-Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.) Drop

ASTM International (ASTM)

ASTM D698 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³ (600 kN-m/m³))

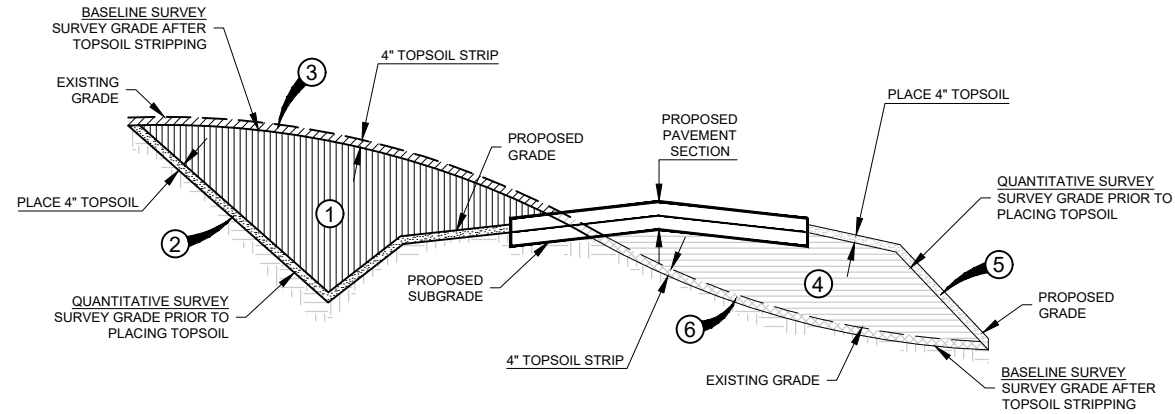
460	ASTM D1556	Standard Test Method for Density and Unit Weight of Soil in Place by the
461		Sand-Cone Method
462	ASTM D1557	Standard Test Methods for Laboratory Compaction Characteristics of Soil
463		Using Modified Effort (56,000 ft-lbf/ft ³ (2700 kN-m/m ³))
464	ASTM D6938	Standard Test Methods for In-Place Density and Water Content of Soil and
465		Soil-Aggregate by Nuclear Methods (Shallow Depth)
466		
467	Advisory Circulars (AC)	
468	AC 150/5370-2	Operational Safety on Airports During Construction Software
469		
470	Software	
471	FAARFIELD – FAA Rigid and Flexible Iterative Elastic Layered Design	
472		
473	U.S. Department of Transportation	
474	FAA RD-76-66	Design and Construction of Airport Pavements on Expansive Soils
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****END OF ITEM P-152****

SUMMARY OF APPROXIMATE QUANTITIES				
ITEM NO.	ITEM DESCRIPTION	UNITS	SCHEDULE I	
			ESTIMATE	AS BUILT
C-100a	Contractor Quality Control Program (CQCP)	LS	1	
C-102a	Temporary Erosion Control	LS	1	
C-105a	Mobilization	LS	1	
C-105b	Temporary Haul Route Gate	LS	1	
P-101a	Pavement Removal - Full Depth	SY	1,985	
P-101b	Removal of Existing Pipe	LF	100	
P-101c	Remove Buried Structures	LS	1	
P-152a	Unclassified Excavation	CY	1,600	
P-152b	Topsoil	CY	205	
P-154a	Subbase Course	CY	1,448	
P-154b	Separation Geotextile	SY	2,172	
P-154c	Geogrid	SY	2,172	
P-208a	Aggregate Base Course	CY	242	
P-403a	Asphalt Mixture Surface Course	TON	137	
P-501a	Concrete Pavement - 6 inches	SY	1,780	
P-603a	Emulsified Asphalt Tack Coat	GAL	24	
P-610a	4 Foot Wide Concrete Drain Pan	LF	40	
P-620a	Marking (Yellow)	SF	289	
P-620b	Marking (Black)	SF	565	
D-701a	8 inch PVC Pipe	LF	690	
D-701b	8 inch Flared End Section	EA	1	
D-701c	8 inch Back-flow Preventer	EA	1	
D-751a	Aircraft Rated Inlet	EA	1	
D-751b	MoDOT Inlet	EA	1	
L-126a	Retroreflective Marker	EA	13	
T-901a	Seeding	AC	0.5	

EARTHWORK SUMMARY		
AREA DESCRIPTION	CUT (CY)	FILL (CY)
SCHEDULE I		
AREA 1	1,604	279
SCHEDULE SUBTOTAL		0

ALL EXCESS EXCAVATED MATERIAL SHALL BE HAULED OFF AIRPORT PROPERTY, AND SHALL BE CONSIDERED INCIDENTAL TO PAY ITEM P-152A.



- | | |
|---|--|
| TOTAL EXCAVATION (PAY) | TOTAL EMBANKMENT (NO PAY) |
| ① UNCLASSIFIED EXCAVATION VOLUME | ④ EMBANKMENT VOLUME (FROM ONSITE OR BORROW SOURCE) |
| ② TOPSOIL VOLUME AT EXCAVATION (PLACED) | ⑤ TOPSOIL VOLUME AT EMBANKMENT (PLACED) |
| ③ TOPSOIL VOLUME AT EXCAVATION (STRIPPED) | ⑥ TOPSOIL VOLUME AT EMBANKMENT (STRIPPED) |

1 EARTHWORK CALCULATIONS DETAIL (EXCAVATION)
NOT TO SCALE

ISSUED FOR BID

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

LAURA K. KOONCE 2022012014 12/02/2022
NAME REG. NO. DATE
FOR AND ON BEHALF OF JVIATION, INC.

Printed January 24, 2023 @ 8:14 PM by Koonce, Laura SET1723 Taxam/CAD/PANS/005/SET1723-005-CITY.dwg

		DES: A.A.B.	ISSUE RECORD		CONSTRUCT TAXILANES	SUMMARY OF APPROXIMATE QUANTITIES	SHEET NAME G005
		DR: T.N.B.	NO.	BY			
CH: C.L.G.	1	L.K.K.	12/02/2022	ISSUED FOR BID - REBID	MODOT PROJ. NO. 21-111A-2	JVIATION PROJ. NO. 2017-SET-03	
APP: M.J.L.		L.K.K.	01/19/2023	ADDENDUM NO. 2			
		L.K.K.	01/24/2023	ADDENDUM NO. 4			