

ADDENDUM NO. 5 COVER SHEET

December 11, 2024

TERRE HAUTE AIRPORT AUTHORITY
WEST QUAD 6 UNIT BOX HANGAR PHASE 2

at

TERRE HAUTE REGIONAL AIRPORT (HUF)
TERRE HAUTE, IN

AIP 3-18-0082-057-2024

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TO: All Plan-holders of Record

The following addendum items supplement, clarify, modify, change, replace, delete from or add to, the requirements of the contract documents for this project. The articles contained in the addendum take precedence over the requirements of the previously published contract documents. Where any article of the contract specifications or any detail of the contract drawings is modified or any paragraph, subparagraph or clause thereof is modified or deleted by the articles contained in this addendum, the unaltered provisions of that article, paragraph, subparagraph or clause shall remain in effect.

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CERTIFIED BY:



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ADDENDUM BEGINS

PROJECT MANUAL UPDATES

1. **Replace:** The following paragraph to **“Instruction to Bidders, Item 10.a Bid Security”**:

“a) A Bid must be accompanied by Bid security made payable to Sponsor in an amount of 5% percent of Bidder’s maximum Bid price (determined by adding the base bid ~~and or all the~~ alternates bid **whichever is higher**) when (1) the total amount of your accumulative bid is more than \$20,000 or (2) is required elsewhere in this solicitation”
2. **Replace:** The following paragraph to **“Instruction to Bidders, Item 15.a.i Basis of Bid”**:

“i) Bidders shall submit a Bid on a lump sum basis for the base Bid ~~and or the base Bid~~ include **including** a separate price for each ~~and~~ alternate **bid** described in the Bidding Documents, as applicable, and as provided for in the Bid Form. The price for each alternate will ~~be the amount added to or deleted from the base Bid~~ **replace the base bid** if Sponsor selects the alternate. **The Contractor may submit a bid for the base bid only or the base bid and alternate. If the bidder submits a bid for the alternate, it must submit a base bid to considered responsive.**”
3. **Replace:** The following paragraph to **“Instruction to Bidders, Item 21.f Evaluation of Bids and Award of Contract”**:

“f.) Total bid will be evaluated and awarded as follows: It is the Sponsor’s intent to award this bid based on the TOTAL BASE BID ~~FOR ALL AWARDED SCHEDULES~~ OR TOTAL ALTERNATIVE BID, split awards will not be made.”
4. **Replace:** The following paragraph to **“Instruction to Bidders, Item 21.g Evaluation of Bids and Award of Contract”**:

“g.) The Sponsor will determine which Schedules and/or Bid Alternates will be awarded based on the received total bid amount for the schedules and/or Bid Alternates (based on unit prices and estimated quantities) and available funding. The project award will be based on the **lowest responsive and responsible** bid sum of the Federally Eligible Schedules and Bid Alternates awarded by the Sponsor. Not all Schedules and/or Bid Alternates may be awarded. A combination of Schedules and Bid Alternates may be awarded, including only a single Schedule **but only one contract award will be made to one contractor if awarded**. The numbering of the Schedules or Bid Alternates does not necessarily indicate the order of award. The project award is contingent on the availability of funding.”
5. **Replace:** The following paragraph to **“Part 8: FAA Technical Specifications, Item T-905 Topsoil, Method of Measurement”**:

905-4.1 Topsoil obtained on the site shall ~~not be measured directly but measured under P-152 by the number of cubic yards of topsoil measured in its original position and stripped or excavated.~~ **be measured by the number of cubic yards 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 of topsoil measured in the stockpile.** Topsoil shall be measured by volume in cubic yards computed by the method of end areas.
6. **Replace:** “Bid Proposal (Addendum No. 3)” pages Sch I – 1 of 4 through Sch I – 4 of 4 and Sch II – 1 of 4 through Sch II – 4 of 4 with attached **“Bid Proposal (Addendum No. 5)”** pages Sch I – 1 of 4 through Sch I – 4 of 4 and Sch II – 1 of 4 through Sch II – 4 of 4 dated December 11, 2024. **NOTE: This can be made available to the bidders electronically with disclaimers upon a formal request.**

7. **Replace:** “SP-03 Specialized Foundations” attached and dated December 11, 2024, issued with this Addendum #5.
8. **Replace:** “SP-04 Box Hangar Building and Cast-In-Place Foundations” attached and dated December 11, 2024, issued with this Addendum #5.
9. **Add:** “SP-05 INDOT 402 Smoothness” attached and dated December 5, 2024, issued with this Addendum No. 5.

CONSTRUCTION DRAWING UPDATES

1. **Replace:** The following to “General Notes, Note #2” on “C-000 Cover”:

“● BASE BID: HANGAR BAYS 101, 102, 103, AND MECH 104/FUTURE LOUNGE/FUTURE RESTROOMS BAY (COLUMN LINES A-K). FOUNDATION WALL AND FOOTINGS ALONG COLUMN LINE K ARE TO BE DESIGNED AND CONSTRUCTED TO INCLUDE ALTERNATE #1 (EVEN IF ALTERNATE #1 IS NOT ACCEPTED AS PART OF THIS BID PACKAGE). BASE BID ALSO INCLUDES ALL SITE/CIVIL COMPONENTS UNLESS NOTED.

● ALTERNATE #1: **ALL THE BASE BID WORK (DESCRIBED ABOVE), HANGAR BAYS 105, 106, AND 107 (COLUMN LINES L-V) AND ADDITIONAL SITE WORK FOR ALL HANGAR BAYS AND LOUNGE.”**
2. **Replace:** Base Bid and Alternate Bid tables on “C-002 Summary of Quantities” dated October 18, 2024, with “Bid Proposal (Addendum No. 5)” in Project Manual Updates, Item No. 1, this Addendum.
3. **Replace:** The following table on “C-006 Overall Construction Safety Phasing Plan, Overall Construction Schedule” with the following:

OVERALL CONSTRUCTION SCHEDULE				
WORK AREAS	DESCRIPTION	BASE BID TOTAL DURATION OF WORK	ALTERNATE 1 BID TOTAL DURATION OF WORK	LIQUIDATED DAMAGES
A	INSTALL UTILITIES, GRADE AND DRAIN, PAVE AND MARK OUTSIDE TAXILANE "F3" TLOFA, PAVEMENT MARKINGS AND FINAL SEEDING	30 CALENDAR DAYS	30 CALENDAR DAYS	\$1,000 / DAY \$0/Days
B	CONSTRUCT BUILDING FOUNDATION AND STRUCTURE, COMPLETE ALL BUILDING FINISHES	180 CALENDAR DAYS 180 CALENDAR DAYS	180 CALENDAR DAYS	\$1,000 / DAY
C	INSTALL UTILITIES, GRADE AND DRAIN, PAVE AND MARK INSIDE TAXILANE "F3" TLOFA, PAVE AREA INSIDE TAXILANE F3 TLOFA, PAVEMENT MARKINGS AND FINAL SEEDING	0 CALENDAR DAYS (7 DAYS WITHIN PHASE A)	0 CALENDAR DAYS (7 DAYS WITHIN PHASE A)	\$1,000 / DAY
TOTAL CONTRACT TIME		180 CALENDAR DAYS 210 CALENDAR DAYS	210 CALENDAR DAYS	\$1,000 / DAY (SEE NOTES BELOW)

4. **Replace:** The “Grading Notes, #25” on “CG-101 Grading and Drainage Plan” dated November 11, 2024, with “Bid Proposal (Addendum No. 2) with the following:

“25. **EARTHWORK** QUANTITIES LISTED IN THE **P-152 EARTHWORK SUMMARY** TABLE **ASSUME A 12” BUILDING SLAB AND AGGREGATE BASE. THEY** DO NOT INCLUDE VOLUMES OF EXCAVATION FOR **FOOTER OR COLUMN** FOUNDATIONS ~~OR FOUNDATION UNDERCUTTING~~. THESE ARE CONSIDERED INCIDENTAL TO THE ASSOCIATED SPECIALIZED FOUNDATION ~~PAY ITEM~~ **PART OF THE SP-04 HANGAR BUILDING WITH CAST-IN-PLACE FOUNDATION WORK** AND ARE NOT MEASURED OR PAID FOR DIRECTLY. ~~EXCESS~~ EARTHWORK FOR **THESE** FOUNDATIONS WILL BE REQUIRED TO BE PLACED IN THE **A** STOCKPILE **AS** SHOWN IN THE PLANS WITH NO EXTRA PAYMENT. REFER TO SP-03 SPECIALIZED FOUNDATION **FOR ANY EARTHWORK BELOW THE FOOTERS OR COLUMNS.”**
5. **Replace:** The “Typical Section Notes, #9” on “CG-101 Grading and Drainage Plan” dated November 11, 2024, with “Bid Proposal (Addendum No. 2) with the following:

"9. The "Compacted Aggregate Base" identified for placement below the proposed hangar floor slab shall be INDOT #53 or an approved equal alternative material. It shall be designed and installed as part of the ~~SP-03 Specialized Foundations Specification~~ **SP-04 Hangar Building with CAST-IN-PLACE FOUNDATION work.**"

CLARIFICATIONS / RFI RESPONSES

1. **Question:** *Can you provide the size of any required roof curbs or roof penetrations?*
Answer: Refer to P-102 for all plumbing roof penetration sizes (sanitary vents and domestic water heater). Size roof penetrations for the gas heater concentric vents according to manufacturer recommendations. Refer to the details and tables on M-501.
2. **Question:** *On drawing A002, is detail P2 supposed to be a shaft wall?*
Answer: No this is not a shaft wall, but it is a fire rated wall; the purpose of this fire rated wall is to separate the two sides of the hangar into (technically speaking) two different buildings.
3. **Question:** *In the mechanical room, how high do the P3 walls run?*
Answer: The P3 walls need to go all the way to the roof (as currently designed), per the partition type detail.
4. **Question:** *Who is responsible for installing the interior metal wall liner?*
Answer: The wall panel comes with the PEMB, but it will need to be installed by the Contractor after the gypsum board is in place for the fire rated wall system.
5. **Question:** *What gauge should the cold formed metal studs be exactly?*
Answer: Non-loadbearing walls would be 20 ga. and steel boxes/headers would be 16 ga. Refer to the Project Manual for specific requirements.
6. **Question:** *How is topsoil stripping paid for and input into the bid proposal? The bid proposal does not have a line item for 2,900 CY of topsoil stripping shown in the Earthwork Summary Table on CG101.*
Answer: It is paid for under the P-152-4.3 Stockpiled Material and the T-905-5.1 Topsoil (Obtained on site or removed from the stockpile) line items. In general, P-152-4.3 represents the cost to strip the topsoil and place in the permanent stockpile on-site were shown on the plans. In general, T-905-5.1 represents the topsoil to be stripped and reused on-site at the required minimum depth. The total of these two closely represent the total topsoil stripping required with some minor exceptions. Refer to the P-152 and T-905 Specification, Project Manual Updates in this Addendum, and Addendum No. 2, Project Manual Updates Item Nos. 5 and 6 for additional information.
7. **Question:** *How will fill be paid for, especially imported fill? Past experience at the Airport has shown soils too wet to dry out to be used for fill. We anticipate needing to import granular material that can be properly compacted.*
Answer: Refer to CG101 Notes 11-13 for site fill. Refer to SP-03 Specialized Foundations for foundation undercuts.

8. **Question:** *If the alternate bid is awarded, is it awarded instead of the base bid?*
Answer: Yes. Either the base bid or alternate bid will be awarded, but not both. Refer to Section 30 – Award and Execution of Contract, Paragraph 30-02 Award of Contract and Project Manual Updates in this Addendum for additional information.
9. **Question:** *Existing Inlet 1511 needs to be adjusted to meet new grading plan. I cannot determine if this structure needs to adjust up or down or how much.*
Answer: Top of casting elevations are provided on CG101. Existing inlet 1511 will need adjusted up from 571.30' existing to 571.74' proposed.
10. **Question:** *Do your cut and fill numbers include the cut/fill necessary to get the building to intended subgrade level?*
Answer: Yes. Additional information has been provided under this Addendum No. 5 (CG-101, Note 25) to clarify the quantity. Additional earthwork calculation information will be shared with the awarded bidder prior to construction.
11. **Question:** *I see note 205 on drawing A201 calls for downspout hookups with laterals going underground and tying into storm line. I do not see this anywhere on the pricing sheets. Is this required ?*
Answer: Yes. This work is to be paid under SP-04 Hangar Building with Cast-In-Place Foundation (including beyond the 5 feet of the building not otherwise called out).
12. **Question:** *There is a problem with structure 2003. If we keep the top of structure and invert elevation as noted, the pipe will not fit into the structure. My supplier mentions the top has to be 12" higher than plan. Also they recommend a larger diameter manhole to accommodate pipe, but the height is still a problem*
Answer: The Contractor may increase the elevation of this structure (not to exceed 12 inches) or enlarge it as necessary (such that it fits in-line with the existing pipe and does not interfere with the buildings foundations). The cost to do this including any additional site work (e.g. earthwork) shall be included in the cost of the Type C manhole.
13. **Clarification:** Contractors are required to acknowledge all Addendums on the Bid Proposal Form.
14. **Clarification:** Contractors may hand deliver their bids at the Terre Haute Regional Airport Terminal Building; Airport Administration Offices located on the second floor of the terminal.
15. **Clarification:** Contractors may submit a Value Engineering Cost Proposal in accordance with FAA GP 50-17 with their bid as an attachment. These cannot be considered for award (or as an official bid proposal) but as a future cost savings change order with a contract award.

ADDENDUM ENDS



BID PROPOSAL - BASE BID - WEST QUAD DEVELOPMENT 3 UNIT HANGAR & LOUNGE						
Item No.	Item Description	Unit	Quantity	UNIT PRICE		TOTAL
C-105-6.1	MOBILIZATION & DEMOBILIZATION	LS	1	\$	_____dollars and _____cents	\$
C-115-4.1	MAINTENANCE OF TRAFFIC	LS	1	\$	_____dollars and _____cents	\$
C-95-4.1	CONSTRUCTION ENGINEERING	LS	1	\$	_____dollars and _____cents	\$
C-102-5.1b	INSTALLATION AND REMOVAL OF SILT FENCE	LF	1,680	\$	_____dollars and _____cents	\$
C-102-5.1c	INSTALLATION AND REMOVAL OF TEMPORARY INLET PROTECTION	EA	7	\$	_____dollars and _____cents	\$
P-101-5.1	COLD MILLING (1.5")	SY	223	\$	_____dollars and _____cents	\$
P-101-5.2	REMOVAL OF EXISTING WATERLINE	LF	145	\$	_____dollars and _____cents	\$
P-101-5.3	REMOVAL AND SALVAGE OF EXISTING FIRE HYDRANT	EA	1	\$	_____dollars and _____cents	\$
P-101-5.4	ASPHALT / ASPHALT INTERFACE JOINT	LF	780	\$	_____dollars and _____cents	\$
P-101-5.5	ASPHALT / CONCRETE INTERFACE JOINT	LF	410	\$	_____dollars and _____cents	\$
P-152-4.1	UNCLASSIFIED EXCAVATION	CY	1,126	\$	_____dollars and _____cents	\$
P-152-4.2	UNCLASSIFIED EXCAVATION (SUBGRADE REPAIR) (UNDISTRIBUTED)	CY	240	\$	_____dollars and _____cents	\$
P-152-4.3	STOCKPILED MATERIAL	CY	2,203	\$	_____dollars and _____cents	\$
P-156-8.1	CEMENT SUBGRADE (UNDISTRIBUTED)	SY	7,620	\$	_____dollars and _____cents	\$



BID PROPOSAL - BASE BID - WEST QUAD DEVELOPMENT 3 UNIT HANGAR & LOUNGE						
Item No.	Item Description	Unit	Quantity	UNIT PRICE		TOTAL
P-156-8.2	CEMENT (UNDISTRIBUTED)	TON	198	\$	_____dollars and _____cents	\$
P-605-5.1	CONCRETE / CONCRETE INTERFACE JOINT	LF	970	\$	_____dollars and _____cents	\$
P-610-6.1	CONCRETE	SY	380	\$	_____dollars and _____cents	\$
P-620-5.1b	PAVEMENT MARKINGS (ANY COLOR)	SF	1,000	\$	_____dollars and _____cents	\$
P-620-5.1c	REFLECTIVE MEDIA - TYPE III	LB	130	\$	_____dollars and _____cents	\$
P-620-5.1d	PAVEMENT MESSAGE MARKING, ADA	EA	2	\$	_____dollars and _____cents	\$
D-701-5.1	12 INCH, 16 GAUGE CORRUGATED STEEL PIPE	LF	20	\$	_____dollars and _____cents	\$
D-702-5.1	12 INCH, 16 GAUGE SLOTTED DRAIN PIPE	LF	202	\$	_____dollars and _____cents	\$
D-751-5.1	TYPE B INLET	EA	2	\$	_____dollars and _____cents	\$
D-751-5.2	ADJUST EXISTING STORM STRUCTURE	EA	1	\$	_____dollars and _____cents	\$
D-751-5.3	TYPE C MANHOLE	EA	1	\$	_____dollars and _____cents	\$
T-901-5.1	SEEDING	KSF	60	\$	_____dollars and _____cents	\$
T-905-5.1	TOPSOIL (OBTAINED ON SITE OR REMOVED FROM STOCKPILE)	CY	723	\$	_____dollars and _____cents	\$
T-908-5.1	MULCHING	SY	6,440	\$	_____dollars and _____cents	\$
L-110-5.1	SPLIT CONDUIT, 2" SCH 80 PVC	LF	70	\$	_____dollars and _____cents	\$



BID PROPOSAL - BASE BID - WEST QUAD DEVELOPMENT 3 UNIT HANGAR & LOUNGE						
Item No.	Item Description	Unit	Quantity	UNIT PRICE		TOTAL
L-110-5.2	4" 2-WAY NON-ENCASED CONDUIT (TYPE II PVC)	LF	80	\$	_____dollars and _____cents	\$
L-125-4.1	TAXILANE EDGE REFLECTOR	EA	11	\$	_____dollars and _____cents	\$
UT-00-5.1	REINSTALL FIRE HYDRANT ASSEMBLY	EA	1	\$	_____dollars and _____cents	\$
UT-00-5.2	8" C900 PVC FIRE PROTECTION LINE	LF	260	\$	_____dollars and _____cents	\$
UT-00-5.3	8" GATE VALVE & PLUG	EA	1	\$	_____dollars and _____cents	\$
UT-01-5.1	2" C900 PVC DOMESTIC WATERLINE	LF	270	\$	_____dollars and _____cents	\$
UT-01-5.2	1.5" METER PIT	EA	1	\$	_____dollars and _____cents	\$
UT-02-5.1	6" SDR 35 PVC SANITARY LATERAL	LF	290	\$	_____dollars and _____cents	\$
UT-02-5.2	48" MANHOLE, TYPE C	EA	1	\$	_____dollars and _____cents	\$
UT-02-5.3	SANITARY CLEANOUT	EA	2	\$	_____dollars and _____cents	\$
INDOT 301	COMPACTED AGGREGATE, NO. 53 BASE	CY	1,000	\$	_____dollars and _____cents	\$
INDOT 402	HMA TYPE C, 58H, BASE, 19.0MM	TON	650	\$	_____dollars and _____cents	\$
INDOT 402	HMA TYPE C, 58H, SURFACE, 12.5MM	TON	520	\$	_____dollars and _____cents	\$
INDOT 406	ASPHALT FOR TACK COAT	SY	5,340	\$	_____dollars and _____cents	\$
SP-02-1.1	WHEEL STOPS	EA	26	\$	_____dollars and _____cents	\$



BID PROPOSAL - BASE BID - WEST QUAD DEVELOPMENT 3 UNIT HANGAR & LOUNGE						
Item No.	Item Description	Unit	Quantity	UNIT PRICE		TOTAL
SP-03	HANGAR BUILDING - SPECIALIZED FOUNDATIONS (RAP)	<i>ALLOW</i>	1	\$ 130,000.00	<i>One Hundred Thirty Thousand dollars and Zero cents</i>	\$ 130,000.00
<i>SP-03</i>	<i>HANGAR BUILDING - SPECIALIZED FOUNDATIONS (DeWatering)</i>	<i>ALLOW</i>	<i>1</i>	<i>\$ 20,000.00</i>	<i>Twenty Thousand dollars and Zero cents</i>	<i>\$ 20,000.00</i>
SP-04	HANGAR BUILDING WITH CAST-IN-PLACE FOUNDATIONS (3 UNIT & LOUNGE)	LS	1	\$	_____dollars and _____cents	\$
TOTAL						\$



BID PROPOSAL - ALTERNATE BID - WEST QUAD DEVELOPMENT 6 UNIT HANGAR & LOUNGE						
Item No.	Item Description	Unit	Quantity	UNIT PRICE		TOTAL
C-105-6.1	MOBILIZATION & DEMOBILIZATION	LS	1	\$	_____dollars and _____cents	\$
C-115-4.1	MAINTENANCE OF TRAFFIC	LS	1	\$	_____dollars and _____cents	\$
C-95-4.1	CONSTRUCTION ENGINEERING	LS	1	\$	_____dollars and _____cents	\$
C-102-5.1b	INSTALLATION AND REMOVAL OF SILT FENCE	LF	1,680	\$	_____dollars and _____cents	\$
C-102-5.1c	INSTALLATION AND REMOVAL OF TEMPORARY INLET PROTECTION	EA	7	\$	_____dollars and _____cents	\$
P-101-5.1	COLD MILLING (1.5")	SY	220	\$	_____dollars and _____cents	\$
P-101-5.2	REMOVAL OF EXISTING WATERLINE	LF	145	\$	_____dollars and _____cents	\$
P-101-5.3	REMOVAL AND SALVAGE OF EXISTING FIRE HYDRANT	EA	1	\$	_____dollars and _____cents	\$
P-101-5.4	ASPHALT / ASPHALT INTERFACE JOINT	LF	780	\$	_____dollars and _____cents	\$
P-101-5.5	ASPHALT / CONCRETE INTERFACE JOINT	LF	780	\$	_____dollars and _____cents	\$
P-152-4.1	UNCLASSIFIED EXCAVATION	CY	1,126	\$	_____dollars and _____cents	\$
P-152-4.2	UNCLASSIFIED EXCAVATION (SUBGRADE REPAIR) (UNDISTRIBUTED)	CY	280	\$	_____dollars and _____cents	\$
P-152-4.3	STOCKPILED MATERIAL	CY	2,750	\$	_____dollars and _____cents	\$
P-156-8.1	CEMENT SUBGRADE (UNDISTRIBUTED)	SY	8,930	\$	_____dollars and _____cents	\$



BID PROPOSAL - ALTERNATE BID - WEST QUAD DEVELOPMENT 6 UNIT HANGAR & LOUNGE						
Item No.	Item Description	Unit	Quantity	UNIT PRICE		TOTAL
P-156-8.2	CEMENT (UNDISTRIBUTED)	TON	231	\$	_____dollars and _____cents	\$
P-605-5.1	CONCRETE / CONCRETE INTERFACE JOINT	LF	970	\$	_____dollars and _____cents	\$
P-610-6.1	CONCRETE	SY	730	\$	_____dollars and _____cents	\$
P-620-5.1b	PAVEMENT MARKINGS (ANY COLOR)	SF	1,000	\$	_____dollars and _____cents	\$
P-620-5.1c	REFLECTIVE MEDIA - TYPE III	LB	130	\$	_____dollars and _____cents	\$
P-620-5.1d	PAVEMENT MESSAGE MARKING, ADA	EA	2	\$	_____dollars and _____cents	\$
D-701-5.1	12 INCH, 16 GAUGE CORRUGATED STEEL PIPE	LF	20	\$	_____dollars and _____cents	\$
D-702-5.1	12 INCH, 16 GAUGE SLOTTED DRAIN PIPE	LF	390	\$	_____dollars and _____cents	\$
D-751-5.1	TYPE B INLET	EA	2	\$	_____dollars and _____cents	\$
D-751-5.2	ADJUST EXISTING STORM STRUCTURE	EA	1	\$	_____dollars and _____cents	\$
D-751-5.3	TYPE C MANHOLE	EA	1	\$	_____dollars and _____cents	\$
T-901-5.1	SEEDING	KSF	46	\$	_____dollars and _____cents	\$
T-905-5.1	TOPSOIL (OBTAINED ON SITE OR REMOVED FROM STOCKPILE)	CY	546	\$	_____dollars and _____cents	\$
T-908-5.1	MULCHING	SY	4,870	\$	_____dollars and _____cents	\$
L-110-5.1	SPLIT CONDUIT, 2" SCH 80 PVC	LF	70	\$	_____dollars and _____cents	\$



BID PROPOSAL - ALTERNATE BID - WEST QUAD DEVELOPMENT 6 UNIT HANGAR & LOUNGE						
Item No.	Item Description	Unit	Quantity	UNIT PRICE		TOTAL
L-110-5.2	4" 2-WAY NON-ENCASED CONDUIT (TYPE II PVC)	LF	80	\$	_____dollars and _____cents	\$
L-125-4.1	TAXILANE EDGE REFLECTOR	EA	11	\$	_____dollars and _____cents	\$
UT-00-5.1	REINSTALL FIRE HYDRANT ASSEMBLY	EA	1	\$	_____dollars and _____cents	\$
UT-00-5.2	8" C900 PVC FIRE PROTECTION LINE	LF	260	\$	_____dollars and _____cents	\$
UT-00-5.3	8" GATE VALVE & PLUG	EA	1	\$	_____dollars and _____cents	\$
UT-01-5.1	2" C900 PVC DOMESTIC WATERLINE	LF	270	\$	_____dollars and _____cents	\$
UT-01-5.2	1.5" METER PIT	EA	1	\$	_____dollars and _____cents	\$
UT-02-5.1	6" SDR 35 PVC SANITARY LATERAL	LF	110	\$	_____dollars and _____cents	\$
UT-02-5.2	48" MANHOLE, TYPE C	EA	1	\$	_____dollars and _____cents	\$
UT-02-5.3	SANITARY CLEANOUT	EA	1	\$	_____dollars and _____cents	\$
INDOT 301	COMPACTED AGGREGATE, NO. 53 BASE	CY	1,040	\$	_____dollars and _____cents	\$
INDOT 402	HMA TYPE C, 58H, BASE, 19.0MM	TON	650	\$	_____dollars and _____cents	\$
INDOT 402	HMA TYPE C, 58H, SURFACE, 12.5MM	TON	520	\$	_____dollars and _____cents	\$
INDOT 406	ASPHALT FOR TACK COAT	SY	5,340	\$	_____dollars and _____cents	\$
SP-02-1.1	WHEEL STOPS	EA	26	\$	_____dollars and _____cents	\$



BID PROPOSAL - ALTERNATE BID - WEST QUAD DEVELOPMENT 6 UNIT HANGAR & LOUNGE						
Item No.	Item Description	Unit	Quantity	UNIT PRICE		TOTAL
SP-03	<i>HANGAR BUILDING - SPECIALIZED FOUNDATIONS (RAP)</i>	<i>ALLOW</i>	1	\$ 260,000.00	<i>Two Hundred Sixty Thousand dollars and Zero cents</i>	\$ 260,000.00
SP-03	<i>HANGAR BUILDING - SPECIALIZED FOUNDATIONS (DeWatering)</i>	<i>ALLOW</i>	1	\$ 40,000.00	<i>Fourty Thousand dollars and Zero cents</i>	\$ 40,000.00
SP-04	<i>HANGAR BUILDING WITH CAST-IN-PLACE FOUNDATIONS (6 UNIT & LOUNGE)</i>	LS	1	\$	_____dollars and _____cents	\$
TOTAL						\$

SP-03 SPECIALIZED FOUNDATIONS

DESCRIPTION

SP-03-1.1. This item shall consist of designing, furnishing and installing the specialized foundations as described in the Project Manual CTL Geotechnical Report: Section IV.B dated June 25, 2024 and the Section 03300 CAST-IN-PLACE CONCRETE 1.2.B.1.

The basis of design shall be Improved Soil Using Rammed Aggregate Piers: Rammed aggregate piers may be used to modify the soft compressible clay soils and allows for spread footings with soil bearing pressure in the order of 3,000 (minimum) to 4,000 psf. Rammed aggregate pier soil reinforcement shall be designed and installed by a specialty geotechnical contractor and prepared by an engineer registered in the State of Indiana.

~~**SP-03-1.2.** This item shall consist of designing, furnishing and installing the compacted aggregate base below the CAST-IN-PLACE Concrete hangar floor slab.~~

SP-03-1.2. The Contractor will design the specialized foundations **below the footers** with the foundations for the pre-engineered metal building load reactions and per the CTL Geotechnical Report: Section dated June 25, 2024.

SP-03-1.3. This item shall consist of but not limited to earthwork excavation, stockpiling, **de-watering** and backfilling. There shall be no separate payment for this work **unless specified otherwise**.

SP-03-1.4 *At the earliest practical date after award of the Contract, advise Engineer of the date when final selection and purchase of each product or system described by an allowance must be completed to avoid delaying the Work. At Engineers request, obtain proposals for each allowance for use in making final selections. Include recommendations that are relevant to performing the Work. Submit proposals for purchase of products or systems included in allowances, in the form specified for Change Orders.*

METHOD OF MEASUREMENT

SP-03-2.1. The quantity of specialized foundations will be measured as ~~lump sum~~ **as two separate contingency allowance items:**

- a) **Rammed Aggregate Piers (RAP).** *The contingency allowance shall be \$130,000 for the Base Bid and \$260,000 for the Alternate Bid.*
- b) **De-watering.** *The contingency allowance shall be \$20,000 for the Base Bid and \$40,000 for the Alternate Bid.*

SP-03-2.2 Contingency Allowances

A. *Use the contingency allowance only as directed by the contract documents and only by Change Orders that indicate amounts to be charged to the allowance.*

B. *Change Orders authorizing use of funds from the contingency allowance will include Contractor's related costs and reasonable overhead and profit margins (Total Not to exceed 15%). Additional profit or overhead shall be included in other pay items (with no direct payment).*

C. *At Project closeout, credit unused amounts remaining in the contingency allowance to Owner by Change Order. Return unused materials purchased under an allowance to manufacturer or supplier for credit to Owner, after installation has been completed and accepted.*

D. The Owner will pay for the costs of testing and inspection allowances.

SP-03-2.3 Information Submittals (Change Orders)

A. Submit invoices or delivery slips to show actual quantities of materials delivered to the site for use in fulfillment of each allowance.

B. Submit time sheets and other documentation to show labor time and cost for installation of allowance items that include installation as part of the allowance.

C. Coordinate and process submittals for allowance items in same manner as for other portions of the Work.

SP-03-2.4 Adjustment of Allowances

A. Allowance Adjustment: To adjust allowance amounts, prepare a Change Order proposal based on the difference between purchase amount and the allowance, multiplied by final measurement of work-in-place where applicable. If applicable, include reasonable allowances for cutting losses, tolerances, mixing wastes, normal product imperfections, and similar margins.

1. Include installation costs in purchase amount only where indicated as part of the allowance.

2. If requested, prepare explanation and documentation to substantiate distribution of overhead costs and other margins claimed.

3. Submit substantiation of a change in scope of work, if any, claimed in Change Orders related to unit-cost allowances.

4. Owner reserves the right to establish the quantity of work-in-place by independent quantity survey, measure, or count.

B. Submit claims for increased costs because of a change in scope or nature of the allowance described in the Contract Documents, whether for the purchase order amount or Contractor's handling, labor, installation, overhead, and profit. (Refer to FAA General Provisions for additional information.)

1. Do not include Contractor's or subcontractor's indirect expense in the Change Order cost amount unless it is clearly shown that the nature or extent of work has changed from what could have been foreseen from information in the Contract Documents.

2. No change to Contractor's indirect expense is permitted for selection of higher- or lower-priced materials or systems of the same scope and nature as originally indicated.

~~METHOD OF PAYMENT, BASIS OF PAYMENT~~

SP-03-3.1 Payment will be made at the contract ~~lump sum~~ **allowance** price for the specialized foundations. This work shall include furnishing all necessary personnel, equipment, incidentals and supplies to accomplish the work.

Payment will be made under:

Item SP-03 Hangar Building - Specialized Foundations (RAP)—Allowance

Item SP-03 Hangar Building - Specialized Foundations (DeWatering)—Allowance

SP-04 HANGAR BUILDING WITH CAST-IN-PLACE FOUNDATION

DESCRIPTION

SP-04-1.1. This item shall consist of designing, furnishing and installing the Box Hangar Building, *its concrete foundations and concrete floor aggregate subbase* as described in the Project Manual and on the plans.

SP-04-1.2. *This item shall consist of furnishing all the necessary personnel, equipment, incidentals and supplies of the INDOT 301 AGGREGATE BASE below the CAST-IN-PLACE CONCRETE and above the finished subgrade.*

The basis of design for the aggregate base is a minimum of 6 inches.

SP-04-1.3. This item shall consist of furnishing all the necessary personnel, equipment, incidentals and supplies of the 03300 CAST-IN-PLACE CONCRETE. It includes any necessary excavation and earthwork handling costs *not paid for otherwise (e.g. footer or column foundations excavation)*. It does not include the SP-03 Specialized Foundation work.

The basis of design for the cast-in-place concrete footers shall be for a conventional spread footing with a minimum bearing pressure on the order of 3,000 psf. The basis of design for the hangar floor slab is a minimum of 6 inches (per the geotechnical report). Refer to the SP-03 Specialized Foundations for the basis of design for the specialized foundations below the spread footer.

Following the award, the Contractor may submit an alternate design of the footers if so desired in accordance with the contract documents (e.g. Value Engineering).

SP-04-1.4. This item shall consist of furnishing all the necessary personnel, equipment, incidentals and supplies of the 133419 METAL BUILDING SYSTEMS. This includes the box hangar units and the lounge as shown on the plans.

SP-04-1.5. This item shall consist of but not limited to the architectural, electrical, mechanical, and structural components on the structure or within 5 feet of the building not otherwise called out or specified for separate payment in accordance with the contract documents.

METHOD OF MEASUREMENT

SP-04-2.1. The quantity of Hangar Building with Cast-In-Place Foundations will be measured as lump sum.

~~METHOD OF PAYMENT, BASIS OF PAYMENT~~

SP-04-3.1 Payment will be made at the contract lump sum price for the building and the foundations. This work shall include furnishing all necessary personnel, equipment, incidentals and supplies to accomplish the work.

Payment will be made under:

Item SP-04	Hangar Building with Cast-In-Place Foundations (3 Units & Lounge) -- Lump Sum
Item SP-04	Hangar Building with Cast-In-Place Foundations (6 Units & Lounge) -- Lump Sum

SP-05 INDOT 402 SMOOTHNESS

Substitute “Department” with “Engineer” in 402.16 Low Temperature Compaction Requirements.

Replace 402.18 Pavement Smoothness with the following:

402.18 Pavement Smoothness

- a. Pavement smoothness will be in accordance with 401.18 except:
 - (1) Profilograph requirements will not apply.
 - (2) The Contractor will furnish and operate the straightedges with the Engineer present.
 - (3) The additional subsections contained herein apply.
- b. Not used.
- c. Not used.
- d. Not used.
- e. Not used.
- f. Not used.

g. Smoothness for Contractor Quality Control.

The Contractor shall perform smoothness testing in transverse and longitudinal directions daily to verify that the construction processes are producing pavement with variances less than prescribed in 401.18(c), identifying areas that may pond water which could lead to hydroplaning of aircraft. If the smoothness criteria is not met, appropriate changes and corrections to the construction process shall be made by the Contractor before construction continues.

Straight-edge testing shall start with one-half the length of the straightedge at the edge of pavement section being tested and then moved ahead one-half the length of the straightedge for each successive measurement. Testing shall be continuous across all joints. The surface irregularity shall be determined by placing the freestanding (unleveled) straightedge on the pavement surface and allowing it to rest upon the two highest spots covered by its length, and measuring the maximum gap between the straightedge and the pavement surface in the area between the two high points.

Smoothness readings shall not be made across grade changes or cross slope transitions. The transition between new and existing pavement and between the start and stop of lanes place shall be evaluated separately for conformance with the plans.

(1) Transverse measurements. Transverse measurements shall be taken for each day’s production placed. Transverse measurements will be taken perpendicular to the pavement centerline each 50 feet or more often as determined by the RPR. The joint between lanes shall be tested separately to facilitate smoothness between lanes.

(2) Longitudinal measurements. Longitudinal measurements shall be taken for each day’s production placed. Longitudinal tests will be parallel to the centerline of paving; at the center of paving lanes when widths of paving lanes are less than 20 feet; and at the third points of paving lanes when widths of paving lanes are 20 ft or greater. When placement abuts previously placed material the first measurement shall start with one half the length of the straight edge on the previously placed material.

Areas that have been ground shall be sealed with a surface treatment in accordance with Section 404 – Seal Coats (Incidental, No Direct Payment). To avoid the surface treatment creating any conflict with runway or taxiway markings, it may be necessary to seal a larger area. If the Contractor’s machines and/or methods produce significant areas that need corrective actions in excess of 10 percent of a day’s production, production shall be stopped until corrective measures are implemented by the Contractor.

Supplemental Technical Specifications

h. Grade. Grades are to be evaluated by the Engineer and Contractor to allow adjustments to paving operations when grade measurements do not meet specifications. As a minimum, grade shall be evaluated prior to the placement of the first lift and then prior to and after placement of the surface lift.

Measurements will be taken at appropriate gradelines (as a minimum at center and edges of paving lane) and longitudinal spacing as shown on cross-sections and plans. The final surface of the taxiway pavement will not vary from the gradeline elevations and cross-sections shown on the plans by more than 1/2 inch vertically and 0.1 feet laterally. The documentation will be provided by the Contractor to the RPR within 24 hours.

Areas with humps or depressions that exceed grade or smoothness criteria and that retain water on the surface must be ground off provided the course thickness after grinding is not more than 1/2 inch less than the thickness specified on the plans.

The Contractor shall repair low areas or areas that cannot be corrected by grinding by removal of deficient areas to the depth of the final course plus 1/2 inch and replacing with new material. Skin patching is not allowed.