CITY OF EL PASO, TEXAS AGENDA ITEM DEPARTMENT HEAD'S SUMMARY FORM

AGENDA DATE:

October 24, 2023

PUBLIC HEARING DATE: Not Applicable

CONTACT PERSON(S) NAME AND PHONE NUMBER:

Yvette Hernandez, City Engineer, (915) 212-1860 Samuel Rodriguez, Aviation Director, (915) 212-7301 K. Nicole Cote, Managing Director, (915) 212-1092

DISTRICT(S) AFFECTED:

ALL

STRATEGIC GOAL:

No. 1. Create an Environment Conducive to Strong, Sustainable, Economic

Development

SUBGOAL:

1.4: Grow the core business of air transportation

SUBJECT:

That the City Council approves a Change Order in the amount of \$321,487.00 to Hensel Phelps Construction Co. (Contractor) for the furnishing and installation of Class A fire rated felt panel above the new linear plank ceiling to meet NFPA 13 code requirements for the EPIA Terminal Ceiling and Lighting Improvements Project, Contract No. 2023-0199. There is no change in the contract time resulting from this Change Order. The new contract sum, including this Change Order notice and any previous change order notices, is \$10,145,074.00. The City Manager, or designee, is authorized to execute any documents and contract amendments needed to carry out the intent of this Resolution.

BACKGROUND / DISCUSSION:

The Architect of Record issued an Architect's Supplemental Instruction which provides an architectural detail that includes a fire-rated felt panel to be placed over an estimated 28,000 SF of the new linear plank ceiling system. The addition is a result of a NFPA 13 code requirement which allows for a maximum 20% opening in ceilings. The logic for the 20% ceiling opening is that the 20% will limit the heat transfer into the ceiling plenum so as to allow activation of the heat detectors and sprinkler system in the ceiling plane. The addition of the felt panel will bring the percentage within the requirement.

CONTRACT VARIANCE:

N/A

PROTEST

PRIOR COUNCIL ACTION:

On January 18, 2023, City Council approved the award of Solicitation 2023-0199 EPIA Terminal Ceiling and Lighting Improvements to Hensel Phelps Construction Co.

AMOUNT AND SOURCE OF FUNDING:

Amount: \$321,487.00

Funding Source: Airport Enterprise / Airport Terminal Program Grant / PFC

Account: 562-3010/3080-62335-580270-G62A224801

2023-0199 EPIA Ceiling & Lighting improvements

Revised 2/23/2022-V2 - Previous Versions Obsolete

HAVE ALL AFFECTED DEPARTMENTS BEEN NOTIFIED? X YES NO
PRIMARY DEPARTMENT: Capital Improvement SECONDARY DEPARTMENT: Purchasing & Strategic Sourcing

Yvette Hernandez, City Engineer

RESOLUTION

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF EL PASO:

That the City Council approves a Change Order in the amount of \$321,487.00 to Hensel Phelps Construction Co. (Contractor) for the furnishing and installation of a Class A fire rated felt panel above the new linear plank ceiling to meet NFPA 13 code requirements for the EPIA Terminal Ceiling and Lighting Improvements Project, Contract No. 2023-0199. There is no change in contract time resulting from this Change Order. The new contract sum, including this Change Order notice and any previous change order notices, is \$10,145,074.00. The City Manager, or designee, is authorized to execute any documents and contract amendments needed to carry out the intent of this Resolution.

APPROVED THIS DAY OF _	2023.
	CITY OF EL PASO:
	OSCAR LEESER MAYOR
ATTEST:	
Laura D. Prine City Clerk	
APPROVED AS TO FORM:	APPROVED AS TO CONTENT: Gvette Hernandez

Yvette Hernandez, P.E., City Engineer

Capital Improvement Department

Roberta Brito

Assistant City Attorney

Contract Change Order Coversheet /Checklist City of El Paso Capital Improvements Department

Project Name:	EPIA Terr	ninal Ceiling & Lighting	g Improvements	_			Date Received: 9	9/21/2023
Solicitation Number:	2023-019	99	Contractor: <u>Hensel P</u>	Phelps Construction	_			
Change Order Numbe	er: <u>03</u>		Date CO was identifi	ied: <u>9/01/2023</u>				
Funding Type:	QOL	General Fund	TX DOT	CDBG	FTA	Airpor	t_ <u>X</u>	
Contingency: <u>\$ 2,434</u> ,	250	Original Budget: <u>\$9,</u>	737,000	Current Remaining E	Budget: <u>\$ 2,347</u>	,663	PO No.(s): <u>CEP3</u> 2	2-2300000295
Identified by:	DOR X	Contractor	User Dept	CID	Other (i	dentify :)
Impacts: Cost	X	Time*	(Check al	l that Apply) * Identify	/ Schedule activ	ity impacted, at	ttach frag-net justifyi	ng time.
Change order Typ If mandatory attach justificat Differing site condition User requested Change ** Designer Directive (ASI) Value Engineering Change ** Identify Funding source Justification: The Architec This addition is a result o classification for this PCO i	pe Check tion, Direction t's Supplemen of an NFPA co s a Designer D	Airport Enterprise Ital Instruction (ASI) No.4 prode requirement for an open directive (ASI). EPIA concurs w	X Discreting dards references that the CO Grant Funded Projects attactively attactively ceiling system that states the colling system that states the classification. high is inclusive of a premium	(Mandate Corrects, or Documentation Engineering Substitution Error and or Quantity Ac Coch Concurrence of Grant Fun that includes a fire-rated felt hat the open air return cann	ory Violets Written of from User Department of Contractor initiated mission distinct of the panel to be placed a not exceed 20%. Peluction timeline of the from the program of the placed and the placed	ode/standard, or will ent Head explaining won Deficiency of the control of the control of the Engineer's calculations are material in an efforce of the Engineer's calculations are material in an efforce of the Engineer's calculations are material in an efforce of the Engineer's calculations are material in an efforce of the Engineer's calculations are material in an efforce of the Engineer's calculations are supported by t	I not function for intended p why the change is required SF of the Type No. 1 linear p ulations, it is currently grea	olank ceiling system. ater than 20%. Cost
Method Utilized (Reference general condition 1 Unit Bid Price 2 An Agreed up 3 Actual Cost (F	for imple ns 2.5.2) Chec s Previously Aj on Lump Sum orce Account	ementing change k all that apply pproved	attach Copy of supporting (Attach record of Negotiati (Attach Detailed record as)	documents) ons, and Cost Analysis) per 2.2.5.2.3)	Cost/Price Attach Copy of a Contractors prop Final Negotiated Time: Requested	r/Time Analy nalyst justifying cost osed cost: \$321,48: amount: \$321,48:	and quantities 7.00 7.00 fied	
Narrative Description of Chai panel above all of the new lir Existing Drawing Reference: Existing Specification Referen	nge SOW: As p near plank ceil N/A nce: N/A	ce: Reference Pla ver the Architect's Supplemen ing system; quality control, ec rchitectural Detail 1: Linear Pl	tal Instruction No.4, the scopi uipment, labor, tools and oth	e of work shall include furnish ner incidentals as needed to co	ning an estimated 28	,000 SF of an approve		el, installing the
User Department Con	currence (if required):			P	rint Name		
Requested by Project	/Construc	tion Manager:	Victori	ia Ruiz	P	rint Name: <u>Victo</u>	oria Ruiz	
Division Manager:			1. Spare	Diooky	P	rint Name: <u>Shan</u>	e Brooks	
Recommended for Ap	proval by	City Engineer: $ {\cal W} $	Michael J. Vonasek, Assistant Director Co		D	_{ate:} <u>10/04/2</u>	2023	

CITY OF EL PASO CONSTRUCTION CHANGE ORDER

CONSTRUCTION CHANG	SE ORDER NO.:	3	DATE:		September 21, 2023		SCOPE CHA	ANGE
PROJECT:	EPIA Ceiling 8	Lighting Repla	acement Project		SOLICITATION NO.	2023-0199	CONSTRUC	CTION CHANGE
_		0						
	Original Cor	tract Amount: \$	9,7	737,000.00		Contract Time to Subtar	tial Completion	480
	Net Change by previous Ch	nange Orders: \$		86,587.00	Total o	lays added due to Change Ord		0
Net Chang	e by previous Construction Qua			204 407 00		Total days added for this		0
	Amount of this Construction C New Amended Cor			321,487.00 145,074.00	ſ	New Contract Time to Substant Current Substantial Complete		480 8/16/2024
		r Percentage:	10,	4.19%		Ourient Oubstantial Comp	Citori Duc Date	0/10/2024
	3	<u> </u>						
CONTRACTOR NAME:	Hensel I	Phelps Constru	ction				Airport	
•	d scope of work of the change and install a fire rated felt				•	antity is 28,000 SF.		
Scope of Work: As per the	e Architect's Supplementa	I Information (A	SI) No. 4, the sco	pe of work s	hall include furnishing a	n approved class A fire ra	ated felt panel, i	nstalling
he panel above all of the r	new linear plank ceiling sy	stem; quality co	ntrol, equipment,	labor, tools a	and other incidentals as	needed to complete the	scope of work.	
The change item totals an								
	not affected by this change his change order addresse					met associated with the s	hove described	scope of
oniess specifically floted th	nis change order addresse	s all compensa	uon or unie and ii	ioney, includ	ang uncot and munect (de associated with the a	pove described	acope of
work								
CONSECUTIVE CALENDAR D	AYS ADDED TO COMPLETIO	N TIME:		0	TOTAL C	HANGE ORDER AMOUNT:	\$	321,487.00
CONTRACTOR	R: Hensel Phelps Con	struction						
I,	Adam McDavit	it	, of	Hens	el Phelps		agree and acce	ept the terms and
<i>'</i> —	onditions of this change or	der.						
	1/2					Diti	10/09/	2023
Signature:	4					_ Date:		
CITY OF EL PA	ASO (OWNER)							
Ι,	Yvette Hernandez, P.E.	of the City of in this form.	El Paso hereby a	uthorize and	direct the Contractor to	proceed with additional	work as describe	ed
						Date:		
Y	vette Hernandez, P.E.							

	CITY	OF EL PA	SO CON	NSTRU	CTION	CHA	NGE (ORDER	- Pg	. 2	
CONSTRUCTION CHAN	GE ORDER	NO.:	3	DATE:	Sent	ember 21,	2023			SCOPE	CHANGE
PROJECT:		EPIA Ceiling & Ligh	 nting Replaceme	_		ICITATION		 2023-0199	,		UCTION CHANGE
_			g						_		
Project N	umber	G62A224801			Project Nu	mber	0	PURC	HASE O	RDER#	2300000395
	Class	62335			•	Class	0				
Depa	rtment	562			Depart		0				
Ad	Fund ccount	3010 580270				Fund count	0				
CONTRACTOR NAME:		Hensel Phelp	s Construction								
PROVIDE REASON/JUS	TIFICATION	FOR CHANGE OR	DER:								
The Architect's Suppleme linear plank ceiling systen Engineer's calculations, it The Project Manager det to meet the General Control of the C	m. This additi is currently germined that	on is a result of an Normal greater than 20%. Contractor's contractor'	NFPA code requions classification of the proposal, when the proposal is the proposal is the proposal in the proposal in the proposal is the proposal in the proposal in the proposal is the proposal in the pr	uirement for ar n for this PCO nich is inclusiv	n open ceiling s is a Designer re of a premiur	system that Directive (A	t states that ASI). EPIA c expediting th	the open air re oncurs with the ne production	eturn can e classifi timeline	not exceed cation. of the mate	20%. Per the
CONSECUTIVE CALENDAR I	DAYS ADDED	TO COMPLETION TIME	E:	_	0		TOTAL CHAN	GE ORDER AMO	OUNT:	\$	321,487.00
		Project Mana	nger recommend	ls approval:		Vic	ctoria	Ruiz			
	Assista	nt Director of Aviati	on recommends	s approval:		A.	Mare !	Ruiz Brooks			
							r.				

REQUEST FOR PO INCREASE/DECREASE FOR CHANGE ORDER **CONSTRUCTION CHANGE ORDER NO.:** 3 DATE: ___ September 21, 2023 INCREASE PROJECT: EPIA Ceiling & Lighting Replacement Project SOLICITATION NO. 2023-0199 DECREASE G62A224801 Project Number 62335 PURCHASE ORDER # 2300000395 Class 562 Department 3010 580270 Account CONTRACTOR NAME: Hensel Phelps Construction AS A RESULT OF THIS CHANGE ORDER, PLEASE MAKE THE FOLLOWING ADJUSTMENT TO THE PURCHASE ORDER: LINE ADDED AMOUNT 5 321,487.00 TOTAL NET CHANGE TO PURCHASE ORDER \$ 321,487.00 (should match cost below) Additional funding/direction: Please add line 5-1: CO #3 - PCO #09 \$321,487.00 TOTAL CHANGE ORDER AMOUNT: Victoria Ruig R. Gan Brooks Project Manager Assistant Director of Aviation recommends approval:

Contract Compliance

Contract Change Order Documentation Summery and Determination of Cost Reasonableness:

Contract Name: EPIA Terminal Ceiling & Lighting Improvements
Solicitation / Project Number: 2023-0199
Change Order Number: 3_
Prepared By: Victoria Ruiz_
RFP:
In response to an (Select one and entry number and date) RFP number _#4_ and Field Directive number dated _9/8/23_ (Attach Copy). Or In response to an unsolicited proposal was provided.
Initial Cost Estimate:
Check all that apply:
No initial estimate of the change order costs was attempted. (Attach Justification countersigned by assigned DM)
A ROM Estimate in the amount of was prepared on Date attach copy
X A Detailed Estimate in the amount of \$ <u>257,646</u> was prepared on Date <u>09/27/2023</u> attach copy.
The Design Consultant provided a detailed estimate in the amount of \$ was prepared on Date attach copy.
Contractors Proposal:
The contractor provided a proposal dated $9/11/2023$ (attach copy) in the amount of $$321,487$ and requesting $$0$$ Calendar/Working days .
The proposal was reviewed as to the required Scope of work and found to accurately reflect the Scope of Work Yes_X_ No If No a formal revision was requested on this date (attach Copy(s) of request) and received date, in the amount of \$ and requesting Calendar/Working days Or Check if applicable after review with assigned DM the city elected to proceed with negotiations and address the scope inconsistencies in Negotiations without a proposal revision (list inconsistencies to be addressed in negotiations)

Attach continuation sheet if necessary

Attachment 1, 20 S-2 Documenting Change Order Cost Reasonableness,	Page 2
Cost evaluation: Cost reasonableness was determined using the following methods check	call that apply.
Utilizing existing Bid Item	
X Price Analysis	
Cost Analysis	
(Dravide parrative description for each method utilized and how reasonableness was dete	arminad)

(Provide narrative description for each method utilized and how reasonableness was determined)
Attach mark up a proposal with negotiation objectives, including accepted cost, Dated and initialed by the Preparer and Assigned Division Manager. Label Marked UP Proposal:

Narrative description of determination of reasonableness: (Attach Continuation sheets as necessary, include detailed table showing Proposed/Objective /and Negotiated when appropriate. (Sample included)

Narrative:

The 3rd Party Project Manager (Broaddus & Associates) reviewed the cost proposal for ASI #4 and developed a cost estimate (see attached). The trade partner unit pricing is inclusive of a <u>premium cost</u> for expediting the production timeline of the material in an effort to meet the General Contractor's schedule as time is of the essence. The project manager determined that the contractor's proposed cost is reasonable and acceptable based on the comparison between the ROM estimate and their cost proposal.



Department of Aviation

MAYOR

Oscar Leeser

September 12th, 2023

Hensel Phelps Construction Co.

Adam McDavitt

CITY COUNCIL

4141 Pinnacle Street El Paso, Texas 79902

District 1

Brian Kennedy

Subject: Terminal Ceiling and Lighting Replacement - RFP #5

District 2

Alexsandra Annello

Dear Mr. McDavitt.

District 3

Cassandra Hernandez

The following is a request to submit a proposal by Tuesday, September 19th, 2023 for

completing the following work:

District 4Joe Molinar

Scope of Work:

District 5

Isabel Salcido

Please refer to the attached file *EPIA C&L_ASI 04_230908* dated September 8th, 2023 by Carl Daniel Architects. The file includes a design clarification to add a felt panel above all linear panel ceiling systems as required by the local AHJ to achieve code compliance.

District 6
Art Fierro

Drawing Changes: Architectural Detail 1 – Armstrong 9mm Felt Panel with TURF

District 7

Product Data

Henry Rivera

Specification Changes: N/A

District 8
Chris Canales

Your proposal shall contain a complete itemized breakdown in sufficient detail to permit an analysis of all material, labor, equipment, subcontractor cost (if applicable), and markups. State additional time required, if necessary. Support your position with a marked-up progress chart depicting the impact of this proposed change to the original contract work.

CITY MANAGER

Tommy Gonzalez

Sincerely,

Victoria Ruiz

Victoria Ruiz

Cc: Gabe Gonzalez, Broaddus & Associates

Attachments: EPIA C&L_ASI 04_230908.pdf



Sam Rodriguez, PE, CM, cfm, cnu-a Aviation Director

El Paso International Airport | 6701 Convair Road | El Paso, TX 79925 O: (915) 212-0330 | FlyElPaso.com





Architect's Supplemental Instructions

PROJECT (Name and address): Ceiling & lighting replacement El Paso International Airport. 6701 Convair Rd. El Paso, Texas 79925	ARCHITECT'S SUPPLEMENTAL INSTRUCTION NO: FOUR (4)	OWNER: ⊠ ARCHITECT: ⊠
OWNER (Name and address): EL Paso International Airport	DATE OF ISSUANCE: 8 September 2023.	CONSULTANT: ⊠ CONTRACTOR: ⊠
EL Paso International Airport 6701 Convair Rd. El Paso, Texas 79925	CONTRACT FOR: Tenant Improvement	FIELD:
FROM ARCHITECT (Name and address): Carl Daniel Architects 305 Leon Street	CONTRACT DATE: 8 November 2022.	OTHER: □

TO CONTRACTOR (Name and address): HENSEL PHELPS
4141 Pinnacle Street. Suite 215
El Paso, Texas 79902

El Paso, Texas 79901

ARCHITECT'S PROJECT NUMBER: 2018-32

The Work shall be carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. Proceeding with the Work in accordance with these instructions indicates your acknowledgment that there will be no change in the Contract Sum or Contract Time.

DESCRIPTION: The attached architectural details and Armstrong drawings shows option 1 for the Metal works IMMIX Linear plank panel with 9mm felt panel by Armstrong.

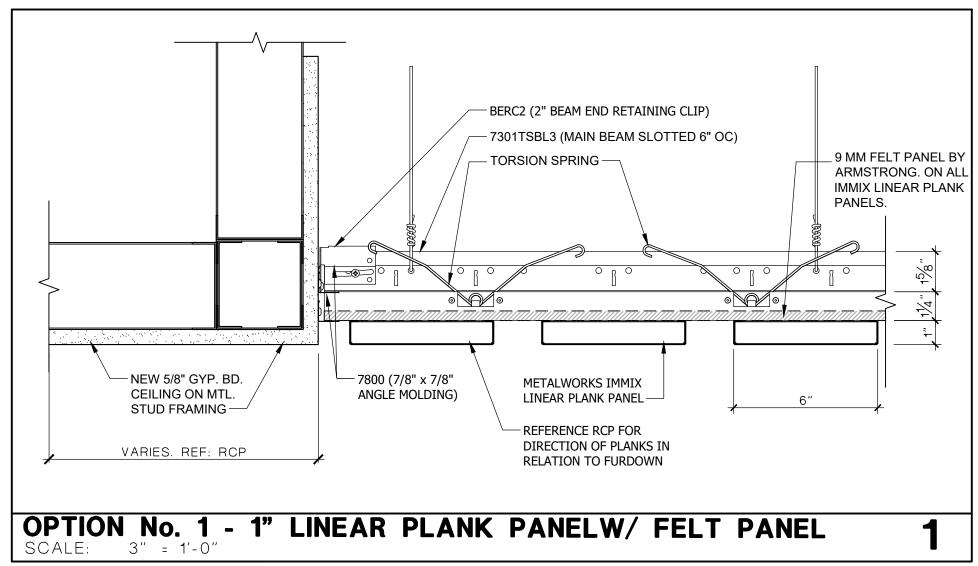
ATTACHMENTS: (Here insert listing of documents that support description.)

Architectural Details Option 1 and the Armstrong drawings.

ISSUED BY THE MRCHITEGT:

Carl V. Daniel Jr. - President

(Printed name and title)

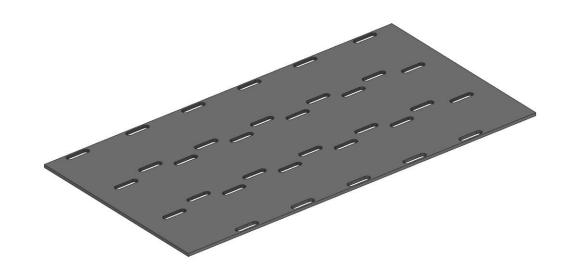




CEILING AND LIGHTS REPLACEMENT

EL PASO INTERNATIONAL AIRPORT SEPTEMBER, 8 2023 2018-32

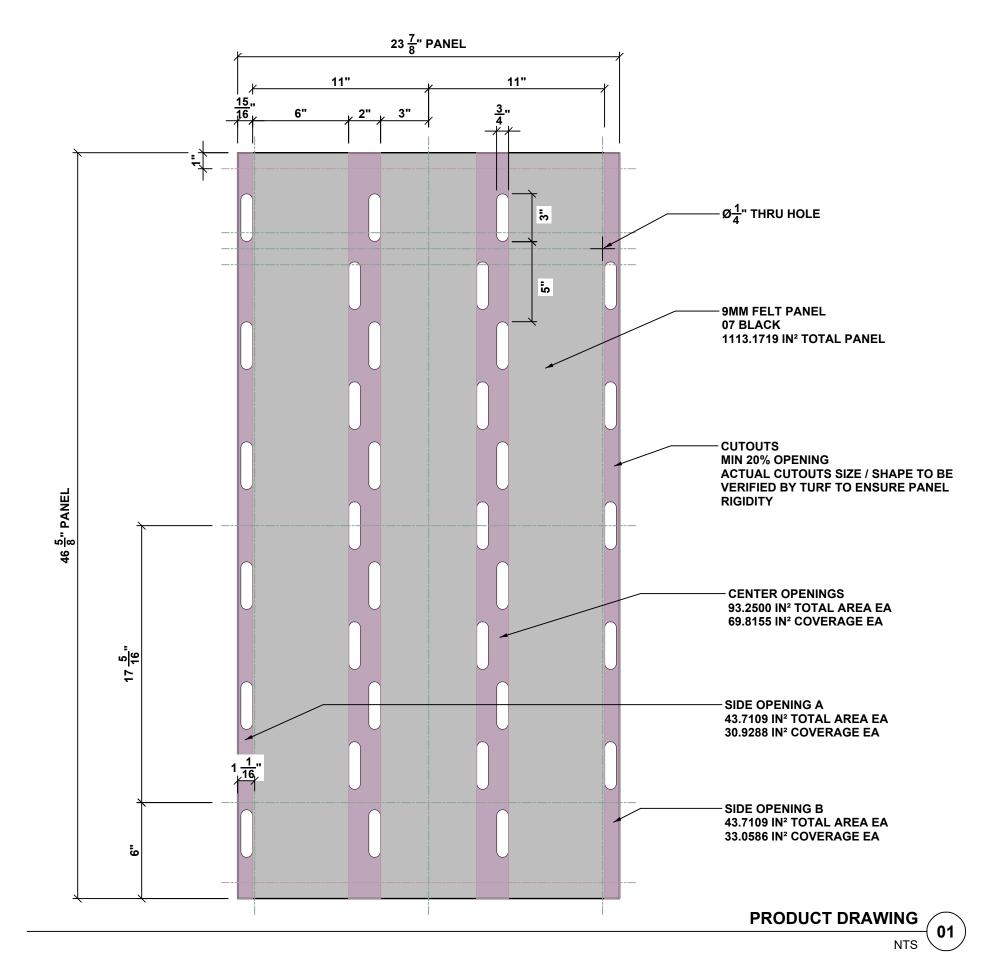
231624 - EL PASO AIRPORT



AXON 02

PLEASE NOTE, THIS PROPOSAL IS TO CONFIRM DESIGN INTENT ONLY. NOT FOR CONSTRUCTION. ALL DETAILS WILL BE DEVELOPED AND FINALIZED DURING OUR SHOP DRAWING PROCESS.

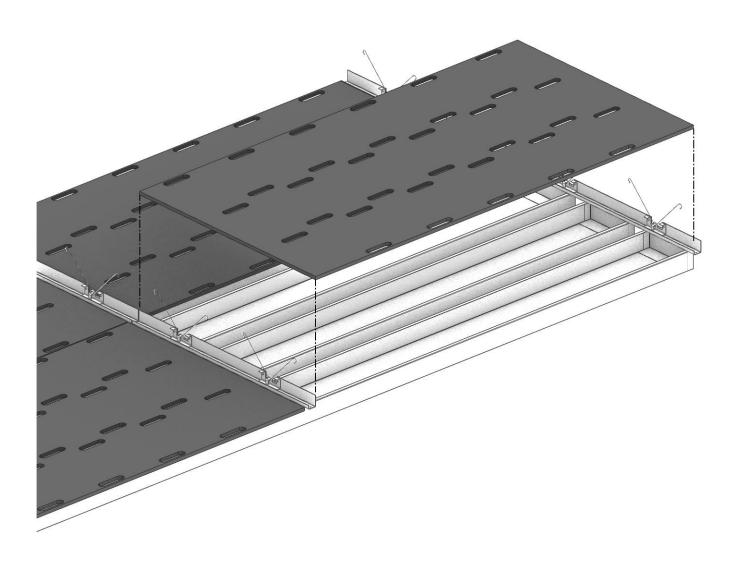
TURF DESIGN OWNS THE RIGHTS, TITLE, AND INTERESTS TO ALL PROPOSALS AND TO ALL PRODUCT DESIGNS PROVIDED THROUGHOUT THE DESIGN PROCESS.



DESIGNED BY TY

Turf

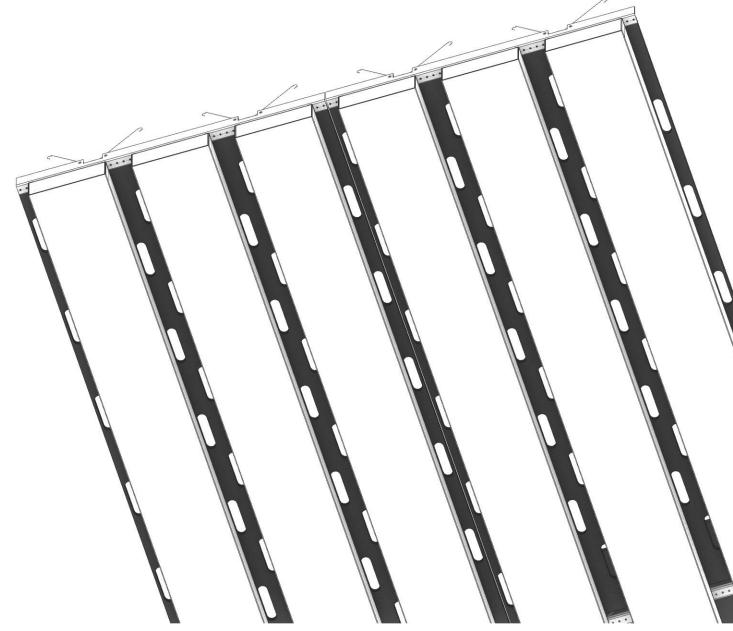
231624 - EL PASO AIRPORT



AXON, PANEL COORD

PLEASE NOTE, THIS PROPOSAL IS TO CONFIRM DESIGN INTENT ONLY. NOT FOR CONSTRUCTION. ALL DETAILS WILL BE DEVELOPED AND FINALIZED DURING OUR SHOP DRAWING PROCESS.

TURF DESIGN OWNS THE RIGHTS, TITLE, AND INTERESTS TO ALL PROPOSALS AND TO ALL PRODUCT DESIGNS PROVIDED THROUGHOUT THE DESIGN PROCESS.



AXON, FROM BOTTOM, WITH COORDINATING PANELS



September 27th, 2023 (Rev. 2)

Ms. Victoria Ruiz, EIT, ACE Capital Improvement Program Administrator El Paso International Airport ruizym@elpasotexas.gov

Re: EPIA Ceiling & Lighting Replacement Projected ASI #04 dated 09/08/2023 - ROM Cost Estimate

Dear Vikki,

Below is a ROM cost summary of the scope associated with ASI #04 dated 09/08/23 as prepared by CDA Architects. This cost summary was developed based on an analysis of the base bid documents and subsequent design revisions. The values are estimated and may not align with the actual costs submitted by the Contractor and their trade partners.

ASI #04 ROM Pricing Estimate

Item	Description	Est. Cost (\$)	Notes
1	Addition of Felt Panel at Type No. 1 Ceilings	144,501	Material Cost: \$4.99/SF @ 28,958
		14,190	Labor Cost: \$0.50/SF @ 28,958
2	Production Acceleration Premium	36,126	25% Premium on Material Cost
3	Subtotal	194,817	
4	Subcontractor OH&P	29,223	15%
5	General Contractor OH&P	33,606	15%
	Total	\$257,646	

Thank you,

Gabe Gonzalez, CCM
Project Manager
Broaddus & Associates
ggonzalez@broaddususa.com

Cc: Raul Rodriguez, Broaddus & Associates



Jobsite Address: 6701 Convair Rd, El Paso TX El Paso, TX. 79902

9/11/2023

Victoria M. Ruiz, EIT Project Manager El Paso International Airport 6701 Convair Rd, El Paso TX El Paso, TX. 79902

Subject: PCO 009 ASI 004 - Linear Metal Ceiling Felt Panel

EPIA - Ceiling and Lighting Replacement

Dear Victoria,

Please find attached for your review and approval the pricing proposal associated with PCO 009. This includes the additional cost for the material and installation of air flow suppression felt panels over all the linear metal ceiling system, per ASI 04

Total Value of Change: \$ 321,487

Should there be any questions or comments regarding the above items, please contact the undersigned.

Sincerely,

HENSEL PHELPS CONSTRUCTION CO.

Carlos Chavez Project Engineer

World-Class Innovators. Landmark Buildings. Inspiring Performance.

EPIA Ceiling and Lighting Replacement

El Paso International Airport

Change in Work - Cost Analysis Form

Project No. & Name: 2023-0199 - EPIA CLR Date: 9/11/2023

Contractor Name: Hensel Phelps Construction Co. Potential Change Order No. PCO 009

Description of Change: ASI 004 - Linear Metal Ceiling Felt Panel

Means Code	Description	Quantity	Unit	Unit Cost	Labor	Material & Equipment	Subcontract
	Diversified Interiors	1	LS	\$ -	\$ -	\$ -	\$ 279,554.00
		0	LS	\$ -	\$ -	\$ -	\$ -
		0	LS	\$ -	\$ -	\$ -	\$ -
		0	LS	\$ -	\$ -	\$ -	\$ -
	Hensel Phelps Construction	1	LS	\$ -	\$ -	\$ -	\$ -
		0		\$ -	\$ -	\$ -	\$ -
		0		\$ -	\$ -	\$ -	\$ -
		0		\$ -	\$ -	\$ -	\$ -
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		0		\$ -	\$ -	\$ -	\$ -
		0		\$ -	\$ -	\$ -	\$ -
		0		\$ -	\$ -	\$ -	\$ -
		•		SUBTOTAL	\$ -	\$ -	\$ 279,554

Managing subcontracted work (per GC 2.5.2.4)		SUBTOTAL	\$ 279,554
Hensel Phelps Contractor's Fee, add	15.0%		\$ 41,933
			\$ -
			\$ -

EPIA Ceiling and Lighting Replacement El Paso International Airport

Change in Work - Cost Analysis Form

Project No. & Name:	2023-0199 - EPIA CLR	Date:	9/11/2023
Contractor Name:	Diversified Interiors	Potential Change Order No.	PCO 009
D : : 0.01	AGY COAL THE TAX AND A TAX		

Description of Change: ASI 004 - Linear Metal Celling Felt Pane	Description of Change:	ASI 004 - Linear Metal Ceiling Felt Panel
---	------------------------	---

Means Code	Description	Quantity	Unit	Unit Cost	Labor	Material & Equipment	Subcontract
					\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -
	Additional Intall Labor	28,958	SF	\$ 1.15	\$ 33,244.24		\$ -
	Additional Felt Material	28,958	SF	\$ 8.51		\$ 246,309.87	\$ -
					\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -
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					\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -
					\$ -		
					\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -
				SUBTOTAL	\$ 33,244	\$ 246,310	\$ -

Work perfomed by the Contractor's own	employees (per GC 12.01.C.2a)	SUBTOTAL	\$ 279,554
Contractor's Fee	0.0%		\$ -

Managing subcontracted work (per GC	12.01.C.2b)	SUBTOTAL	\$ -
Contractor's Fee	0.0%		\$ -

TOTAL FOR THIS CHANGE PROPOSAL * \$

279,554



4750 Ripley - El Paso, Texas 79922 P.O. Box 220307 - El Paso, Texas 79913 (915) 585-0030 - Fax (915) 585-0050

EPIA Ceiling and Lighting Replacement Felt Panel for Air Suppression 9.11.2023

Scope of Work:

• Add felt panel for airflow suppression over Armstrong IMMX linear metal ceiling panels

Labor Add: Material Add: Total Add: \$33,263.00 <u>\$246,291.00</u> \$279,554.00

Andrew Hawley President

Diversified Interiors

DIVERSIFIED INTERIORS

4750 Ripley, El Paso, TX 79922 Phone: 585-0030 Fax: 585-0050

Bid Summary

EPIA Terminal Ceiling and Lighting Improvements-1" Panel (For Construction)

Air Flow Suppresion over IMMX panels

Bid No. 13

Selected Sections: 09501 Acoustical wall panels Selected Typical Areas: Selected Areas: (unassigned)

Estimator:

Job Status: Sold

Job Class:

Wage Type: Open

Bid Date/Time: 11/23/2022 10:20:57 AM

Plans Date: 11/23/2022

(unassigned)

			l	Jnit Price			Man
Condition	Height	Quantity	Mat.	Lab.	Total	Total Price	Days
Air Flow Suppression over IMMX panels		28,958.40 SF	8.51	1,15	9.65 / SF	279,554.14	113.12
			M	aterial & L	abor Total:	279,554.14	113.12
				(unassig	gned) Total:	279,554.14	113.12
					·		
		Troight	Troight Guarday	Condition Height Quantity Mat. Air Flow Suppression over IMMX panels 28,958.40 SF 8.51	Condition Height Quantity Mat. Lab. Air Flow Suppression over IMMX panels 28,958.40 SF 8.51 1.15 Material & L.	Troight additing that Edd. Total	Condition Height Quantity Mat. Lab. Total Total Price Air Flow Suppression over IMMX panels 28,958.40 SF 8.51 1.15 9.65 / SF 279,554.14 Material & Labor Total: 279,554.14

Grand without additional markups Total:

279,554.14

113.12

Additional Markups Total:

0.00

Grand Total:

279,554.14



February 26, 2019

Turf Design Mr. Dustin Headley 2000 Fox Ln. Elgin, IL 60123

Our Reference: SV30854 / 4788546841

Subject: Report Of Surface Burning Characteristics Tests On Ceiling Panels As

Submitted By Turf Design.

Dear Mr. Headley:

This is a Report summarizing the results of a test conducted under the Commercial Inspection and Testing Services (CITS) program of UL LLC (UL) identified as Assignment No. 4788546841.

GENERAL:

The results relate only to items tested.

METHOD:

Each test was conducted in accordance with Standard ANSI/UL723, Eleventh Edition, dated April 19, 2018, "Test for Surface Burning Characteristics of Building Materials", (ASTM E84).

The test determines the Surface Burning Characteristics of the material, specifically the flame spread and smoke developed indices when exposed to fire.

The maximum distance the flame travels along the length of the sample from the end of the igniting flame is determined by observation. The Flame Spread Index of the material is derived by plotting the progression of the flame front on a time-distance basis, ignoring any flame front recession, and using the equations described below:

- A. $CFS = 0.515 A_T$ when A_T is less than or equal to 97.5 minute-foot.
- B. $CFS = 4900/(195-A_T)$ when A_T is greater than 97.5 minute-foot.

Where A_T = total area under the time distance curve expressed in minute-foot.

The Smoke Developed Index (SDI) is determined by rounding the Calculated Smoke Developed (CSD) as described in UL 723. The CSD is determined by the output of photoelectric equipment operating across the furnace flue pipe. A curve is developed by plotting the values of light absorption (decrease in cell output) against time. The CSD is derived by expressing the net area under the curve for the material tested as a percentage of the area under the curve for untreated red oak.

The CSD is expressed as:

$$CSD = (A_m/A_{ro}) \times 100$$

Where:

CSD = Calculated Smoke Developed

 A_m = The area under the curve for the test material.

 A_{ro} = The area under the curve for untreated red oak.

SAMPLES:

The samples utilized in this investigation were neither prepared nor selected by a Laboratories' representative such that no verification of composition can be provided.

Sample Description

Test No.	System
	Ceiling Panels
5	9mm Black Material test

Each test sample consisted of three 8 by 2 ft wide boards butted end-to-end to form the required 24 ft. long surface.

Due to the rigidity of the test samples, supplementary means of support was not required.

RESULTS:

The results are tabulated below are considered applicable only to the specific samples tested.

Data sheets and graphical plots of flame travel versus time and smoke developed versus time are also enclosed.

Table 1: Flame Spread Summary

Test No.	Test Code	Sample Description	CFS Calculated Flame Spread (Ceiling)	FSI Flame Spread Index (Ceiling)+	CFS Calculated Flame Spread (Floor)	FSI Flame Spread Index (Floor)++
5	08211813	Ceiling Panels	14.74	15	244.95	245

^{+ -} Flame Spread Index while material remained in the original test position.

Table 2: Smoke Developed Summary

Test No.	Test Code	Sample Description	CSD Calculated Smoke Developed (Prior to Floor Ignition)	SDI Smoke Developed Index (Prior to Floor Ignition)	CSD Calculated Smoke Developed (Entire Test Duration)	SDI Smoke Developed Index (Entire Test Duration)
5	08211813	Ceiling Panels	0.4	0	292.3	300

The Classification Marking of UL on the product is the only method provided by UL to identify products which have been produced under its Classification and Follow-Up Service. No use of a Classification Marking has been authorized as a result of this investigation.

Should you have any questions, please contact the undersigned.

Very truly yours

Robert S. Kiefer (ext. 42014) Senior Engineering Associate Fire Protection Division

Robert S. Rufe

Reviewed by:

James F. Smith (ext. 42666) Staff Engineering Associate Fire Protection Division

^{++ -} Ignition of molted residue on the furnace floor resulted in flame travel equivalent to calculated Flame Spread Index indicated.

Project: 4788546841 File: SV30854 TestCode: 08211813
Tested by: ABRAN GARCIA Engineer: JOHN WIESNER Date: 2018-08-21

TEST METHOD: The test was conducted in accordance with UL 723, Eleventh Edition (2018/04/19).

Client Name: Turf Design

Test Duration 10 minutes Test No.: 5 Hot Test: Yes Mounting: Rods & Wire Test Type: Developmental Burn-Out Required: Yes

Test Sample: Ceiling Panels

9mm Black Material test

FLAME SPREAD RESULTS

Ceiling Flame Spread Data

Distance (Feet)	Time (Sec)
Ignition	18
1	26
2	30
3	35

Floor Flame Spread Data

Distance (Feet)	Time (Sec)	Distance (Feet)	Time (Sec)
Ignition	36	11	59
1	45	12	61
2	46	13	62
3	47	14	67
4	48	15	68
5	50	16	80
6	51	17	84
7	52	18	87
8	53	19	110
9	55	19.5	111
10	57		

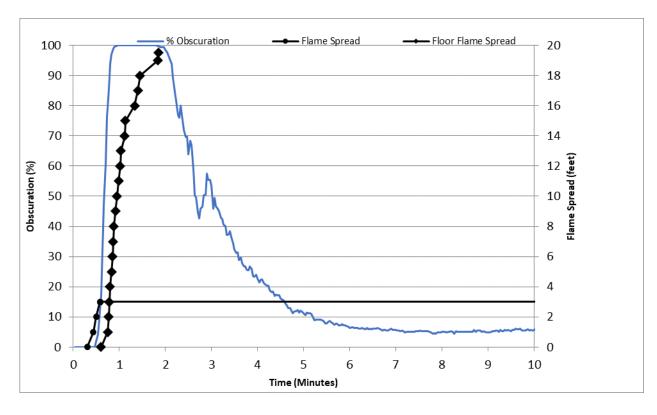
Calculated Flame Spread (CFS): Flame Spread Index (FSI):	14.74 15
Time to Ignition (sec):	18
Maximum Flame Spread (ft):	3.0
Area Under the Flame Spread Curve (ftmin):	28.6
Time to Floor Ignition (sec):	36
Maximum Floor Flame Spread (ft):	19.5
Calculated Floor Flame Spread:	244.95
SMOKE RESULTS	
Calculated Smoke Developed (CSD):	292.3
Smoke Developed Index (SDI):	300
Area Under the Smoke Curve (Obs-min.):	281.16
Area Under Heptane (Obs-min.):	96.18
Area Under the Smoke Curve Before Floor Ignition (Obs-min.):	0.36
Smoke Developed Prior to Floor Ignition:	0.4
Post-Test Observations	

ULS-00723-BIKT-DataSheet-2001 Form Page 4

Form Issued: 2004-01-28 Form Revised: 2007-15-10

Flame Spread / Smoke Results

Turf Design Ceiling Panels



Test Num.: 5 SV30854 / 4788546841

08211813

Flame Spread Index: 15 Smoke Developed Index: 300 Max. Flame Spread (ft.): 3.0

EPIA Terminal Ceilling and Lighting

Change Order

CITY OF EL PASO

Project Details

Location:	Location: El Paso International Airport
District(s): All	All
Total Budget:	Total Budget: \$14,500,000.00
Construction Contract:	Construction Contract: \$9,737,000.00 Hensel Phelps
Change Order Amount:	Change Order Amount: \$321,487.00 PFC Funds / Airport Funds



Scope of Work

state that open air return cannot exceed 20%. To meet this requirements felt must be installed NFPA requirements for an open ceiling system above the ceiling panels.





MISSION



Deliver exceptional services to support a high quality of life and place for our community.

VISION



Develop a vibrant regional economy, safe and beautiful neighborhoods and exceptional recreational, cultural and educational opportunities powered by a high performing government.

Integrity, Respect, Excellence, Accountability, People

VALUES



