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GOVERNOR

CURTIS M. LOFTIS, JR.  
STATE TREASURER

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COMPTROLLER GENERAL



THE DIVISION OF PROCUREMENT SERVICES

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G. MURRELL SMITH, JR.  
CHAIRMAN, HOUSE WAYS AND MEANS COMMITTEE

GRANT GILLESPIE  
EXECUTIVE DIRECTOR

## Protest Decision

**Matter of:** R J Dean Construction, LLC

**File No.:** 2022-001

**Posting Date:** August 25, 2021

**Contracting Entity:** Piedmont Technical College

**Project No.:** H59-N034-SG

**Description:** Gunsmithing Renovation

### DIGEST

Protest that awardee failed to acknowledge an addendum and should not have been awarded the contract granted where the State failed to follow the statutory requirements for waiving the failure as a minor informality.

### AUTHORITY

Per S.C. Code Ann. § 11-35-4210, the Chief Procurement Officer for Construction (CPOC) conducted an administrative review of a protest filed by R J Dean Construction, LLC, (Dean). Dean's protest is attached as Exhibit A. This decision is based on materials in the procurement file and applicable law and precedents.

### BACKGROUND

On August 11, 2021, Dean emailed the CPOC a protest of Piedmont Technical College's (PTC) intent to award a contract to Langston Construction Company of Piedmont, LLC (Langston), to renovate the gunsmithing laboratories, classrooms, and associated spaces (the Project). The following are relevant to this protest:

- On July 8, 2021, PTC issued a solicitation for bids to perform the work of the project [Exhibit B]
- On July 27, 2021, PTC issued Addendum Number 1 [Exhibit C]
- On July 29, 2021, PTC issued Addendum Number 2
- On August 5, 2021, PTC received and opened bids from Dean and Langston [Exhibit D]

- Langston's bid acknowledges Addendum Number 2 but not Addendum Number 1 [Exhibit E]
- By letter dated August 5, Langston acknowledged receipt of Addendum Number 1 and confirmed its base bid price [Exhibit F]
- On August 10, 2021, PTC posted a Notice of Intent to Award a contract to Langston [Exhibit A]

In deciding to award the contract to Langston, PTC treated Langston's failure to acknowledge Addendum Number 1 as a minor informality under S.C. Code Ann. §11-35-1520(13)(d)(i)<sup>1</sup>, which states:

Minor Informalities and Irregularities in Bids. A minor informality or irregularity is one which is merely a matter of form or is some immaterial variation from the exact requirements of the invitation for bids having no effect or merely a trivial or negligible effect on total bid price, quality, quantity, or delivery of the supplies or performance of the contract, and the correction or waiver of which would not be prejudicial to bidders. The procurement officer shall either give the bidder an opportunity to cure any deficiency resulting from a minor informality or irregularity in a bid or waive any such deficiency when it is to the advantage of the State. Such communication or determination shall be in writing. Examples of minor informalities or irregularities include, but are not limited to:

\*\*\*

(d) failure of a bidder to acknowledge receipt of an amendment to a solicitation, but only if:

(i) the bid received indicates in some way that the bidder received the amendment, such as where the amendment added another item to the solicitation and the bidder submitted a bid, on it, if the bidder states under oath that it received the amendment before bidding and that the bidder will stand by its bid price.

In relying on this provision, PTC treated Langston's acknowledgement of Addendum Number 2 as an indication that Langston received Addendum Number 1 sufficient under Section 11-35-1520(13)(d)(i) for PTC to ask Langston to confirm in writing that it had in fact received the Addendum and that it will stand by its bid price. However, while Langston did acknowledge receipt of the Addendum and its bid price in writing, that writing does not satisfy the requirements of the statute. Section 11-35-1520(13)(d)(i) requires a statement under oath that Langston received the amendment before bidding and that Langston will stand by its bid price. The letter is not under oath. Moreover, the letter implies but does not expressly say that Langston received the amendment before bidding. Finally, the letter implies but does not expressly say that Langston will stand by its bid price.

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<sup>1</sup> S.C. Code Ann. §11-35-1520(13)(d)(ii) allows waiver of the informality if the amendment has no effect on price. This provision is not available to PTC in this case since PTC acknowledges that Addendum Number 1 did affect price.

Protest Decision, page 3

File No. 2022-001

August 25, 2021

## **DECISION**

Based on the foregoing, the CPOC grants Dean's protest. The award to Langston is vacated and the matter is remanded to PTC with instructions to proceed in accordance with the Consolidated Procurement Code.

A handwritten signature in blue ink, reading "John St. C. White", is positioned above a horizontal line.

John St. C. White, PE

Chief Procurement Officer for Construction

Columbia, South Carolina

## STATEMENT OF RIGHT TO FURTHER ADMINISTRATIVE REVIEW

*Protest Appeal Notice (Revised May 2020)*

The South Carolina Procurement Code, in Section 11-35-4210, subsection 6, states:

(6) Finality of Decision. A decision pursuant to subsection (4) is final and conclusive, unless fraudulent or unless a person adversely affected by the decision requests a further administrative review by the Procurement Review Panel pursuant to Section 11-35-4410(1) within ten days of posting of the decision in accordance with subsection (5). The request for review must be directed to the appropriate chief procurement officer, who shall forward the request to the panel or to the Procurement Review Panel, and must be in writing, setting forth the reasons for disagreement with the decision of the appropriate chief procurement officer. The person also may request a hearing before the Procurement Review Panel. The appropriate chief procurement officer and an affected governmental body shall have the opportunity to participate fully in a later review or appeal, administrative or judicial.

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Copies of the Panel's decisions and other additional information regarding the protest process is available on the internet at the following web site: <http://procurement.sc.gov>

FILING FEE: Pursuant to Proviso 111.1 of the 2020 General Appropriations Act, "[r]equests for administrative review before the South Carolina Procurement Review Panel shall be accompanied by a filing fee of two hundred and fifty dollars (\$250.00), payable to the SC Procurement Review Panel. The panel is authorized to charge the party requesting an administrative review under the South Carolina Code Sections 11-35-4210(6), 11-35-4220(5), 11-35-4230(6) and/or 11-35-4410...Withdrawal of an appeal will result in the filing fee being forfeited to the panel. If a party desiring to file an appeal is unable to pay the filing fee because of financial hardship, the party shall submit a completed Request for Filing Fee Waiver form at the same time the request for review is filed. *[The Request for Filing Fee Waiver form is attached to this Decision.]* If the filing fee is not waived, the party must pay the filing fee within fifteen days of the date of receipt of the order denying waiver of the filing fee. Requests for administrative review will not be accepted unless accompanied by the filing fee or a completed Request for Filing Fee Waiver form at the time of filing." PLEASE MAKE YOUR CHECK PAYABLE TO THE "SC PROCUREMENT REVIEW PANEL."

LEGAL REPRESENTATION: In order to prosecute an appeal before the Panel, business entities organized and registered as corporations, limited liability companies, and limited partnerships must be represented by a lawyer. Failure to obtain counsel will result in dismissal of your appeal. *Protest of Lighting Services*, Case No. 2002-10 (Proc. Rev. Panel Nov. 6, 2002) and *Protest of The Kardon Corporation*, Case No. 2002-13 (Proc. Rev. Panel Jan. 31, 2003); and *Protest of PC&C Enterprises, LLC*, Case No. 2012-1 (Proc. Rev. Panel April 2, 2012). However, individuals and those operating as an individual doing business under a trade name may proceed without counsel, if desired.

**South Carolina Procurement Review Panel  
Request for Filing Fee Waiver  
1105 Pendleton Street, Suite 209, Columbia, SC 29201**

---

\_\_\_\_\_  
Name of Requestor

\_\_\_\_\_  
Address

\_\_\_\_\_  
City

\_\_\_\_\_  
State

\_\_\_\_\_  
Zip

\_\_\_\_\_  
Business Phone

- 
1. What is your/your company's monthly income? \_\_\_\_\_
  2. What are your/your company's monthly expenses? \_\_\_\_\_
  3. List any other circumstances which you think affect your/your company's ability to pay the filing fee:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

To the best of my knowledge, the information above is true and accurate. I have made no attempt to misrepresent my/my company's financial condition. I hereby request that the filing fee for requesting administrative review be waived.

Sworn to before me this

\_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_

\_\_\_\_\_  
Notary Public of South Carolina

\_\_\_\_\_  
Requestor/Appellant

My Commission expires: \_\_\_\_\_

---

For official use only: \_\_\_\_\_ Fee Waived \_\_\_\_\_ Waiver Denied

\_\_\_\_\_  
Chairman or Vice Chairman, SC Procurement Review Panel

This \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_  
Columbia, South Carolina

**NOTE: If your filing fee request is denied, you will be expected to pay the filing fee within fifteen (15) days of the date of receipt of the order denying the waiver.**

**R J DEAN CONSTRUCTION, LLC**  
**GENERAL CONTRACTOR**

917 Mount Moriah Road  
Greenwood, SC 29646  
Phone 864.223.8755 Cell 864.992.6107  
FAX 864.223.3380

August 10, 2021

Mr. John White, PE, State Engineer  
c/o Mr. Stan Gailey, R.A., Project Manager for OSE  
Office of the State Engineer  
1201 Main Street, Suite 600  
Columbia, SC 29201

Dear Mr. Gailey,

I am writing to you about a bid package I submitted to Piedmont Technical College for their Gunsmithing Renovation- Project # H59-NO34-SG.

The bidder above me failed to mark and initial Addendum #1. However, the Architect accepted his bid. According to Section SE-330 Lump Sum Bid Form #3 says "Bidder acknowledges the receipt of the following Addenda to the Bidding Documents and has incorporated the effects of said Addenda into this Bid." Then it has ADDENDA: ☐#1 ☐#2 ☐#3 ☐#4 ☐#5

I understand that most Addenda #1 usually note Pre-Bid attendance, but this Addenda #1 has changes to the drawings and answers and clarifications to questions which altered the effects of the bid process.

Therefore, I am protesting the bid results as I initialed ADDENDA #1 and #2 acknowledging that my bid incorporated all the changes indicated in the ADDENDAS. Please review and see the attached information enclosed.

Cordially,



Robert J. Dean  
R J Dean Construction

SE-330

2020 Edition

**LUMP SUM BID FORM**

*Bidders shall submit bids on only Bid Form SE-330.*

BID SUBMITTED BY: R J DEAN CONSTRUCTION LLC  
(Bidder's Name)

BID SUBMITTED TO: PIEDMONT TECHNICAL COLLEGE  
(Agency's Name)

FOR: PROJECT NAME: Piedmont - Gunsmithing Renovation

PROJECT NUMBER: H59-NO34-SG

**OFFER**

§ 1. In response to the Invitation for Construction Services and in compliance with the Instructions to Bidders for the above-named Project, the undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into a Contract with the Agency on the terms included in the Bidding Documents, and to perform all Work as specified or indicated in the Bidding Documents, for the prices and within the time frames indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

§ 2. Pursuant to SC Code § 11-35-3030(1), Bidder has submitted Bid Security as follows in the amount and form required by the Bidding Documents:

☒ Bid Bond with Power of Attorney

☐ Electronic Bid Bond

☐ Cashier's Check

(Bidder check one)

§ 3. Bidder acknowledges the receipt of the following Addenda to the Bidding Documents and has incorporated the effects of said Addenda into this Bid:

(Bidder, check all that apply. Note, there may be more boxes than actual addenda. Do not check boxes that do not apply)

ADDENDA: all ☒ #1 all ☒ #2 ☐ #3 ☐ #4 ☐ #5

§ 4. Bidder accepts all terms and conditions of the Invitation for Bids, including, without limitation, those dealing with the disposition of Bid Security. Bidder agrees that this Bid, including all Bid Alternates, if any, may not be revoked or withdrawn after the opening of bids, and shall remain open for acceptance for a period of 60 Days following the Bid Date, or for such longer period of time that Bidder may agree to in writing upon request of the Agency.

§ 5. Bidder herewith offers to provide all labor, materials, equipment, tools of trades and labor, accessories, appliances, warranties and guarantees, and to pay all royalties, fees, permits, licenses and applicable taxes necessary to complete the following items of construction work:

§ 6.1 BASE BID WORK (as indicated in the Bidding Documents and generally described as follows): \_\_\_\_\_

\$ 474,000.00, which sum is hereafter called the Base Bid.  
(Bidder to insert Base Bid Amount on line above)

# Addendum Number 1

## PTC Gunsmithing Renovation Project No. H59-N034-SG

July 27, 2021

To Bidders:

This Addendum forms a part of the Contract Documents and modifies the original Procurement Documents dated 07/12/2021 as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

This Addendum consists of 1 page and the noted attachments.

A. Changes to prior Addenda:

No prior Addenda

B. Changes to Procurement Requirements:

None

C. Changes to Contracting Requirements:

Add the attached Answers/Clarifications to the questions raised.

D. Changes to the Specifications:

None

E. Changes to the Drawings:

Note the change to the drawings and notations indicated in the Answers/Clarifications

**End of Addendum Number 1**



## Answers/Clarifications to Questions Raised

### PTC Gunsmithing Renovation Project No. H59-N034-SG

July 27, 2021

A. Cover Sheet G000:

Delete note 2 under Schedule/Phasing of Work and substitute the following:

1. The Contractor shall coordinate with the College for the installation of the new epoxy flooring to align with breaks in class schedules for the Machine Shop. The College anticipates this scope of work being performed between December 10, 2021 and January 5, 2022.

B. A100 Floor Plan:

Delete Floor Plan A100 and substitute the attached Floor Plan A100 revision dated 07/21/21. Revisions include:

1. A key note for the wall type is called out on A100. "New Wall – 3-5/8" Metal Stud, 16in. O.C., ½" Gypsum Wall Board both sides, to metal deck above."
2. Window locations have also been dimensioned on A100.

C. A150 Partial Ceiling & Roof Plans:

Delete Partial Ceiling & Roof Plans and substitute the attached Partial Ceiling & Roof Plans revision dated 07/21/21. Revisions include:

1. Note 3 has been revised.

D. M100 HVAC Plan:

Delete M100 HVAC Plan and substitute the attached M100 HVAC Plan revision dated 07/27/21. Revisions include:

1. Removal of an existing Fan Coil Unit.

E. Lighting Submittal Approval:

The attached submitted lighting fixtures are approved for substitution of fixtures EL, TA and TAE on the project.

**End of Answers/Clarifications**

SE-370

## NOTICE OF INTENT TO AWARD DESIGN-BID-BUILD CONTRACT

AGENCY: Piedmont Technical CollegePROJECT NAME: Piedmont - Gunsmithing RenovationPROJECT NUMBER: H59-N034-SGPOSTING DATE: 8-10-21**TO ALL BIDDERS:**

Unless stayed by protest or canceled, the Agency intends to enter into a contract as noted below. The successful bid will be accepted and the contract formed by execution of the contract documents. All bid bonds remain in effect for the bid acceptance period as provided in Section 4 of the Bid Form, except as otherwise provided in the Instructions to Bidders.

NAME OF BIDDER: Langston Construction Company of Piedmont, LLCDATE BIDS WERE OPENED: August 5, 2021**BID INFORMATION:**

BASE BID AMOUNT:

\$ 397,870

ALTERNATES:

#1 ACCEPTED ☐\$ NA#2 ACCEPTED ☐\$ NA#3 ACCEPTED ☐\$ NA

TOTAL CONTRACT AWARD:

\$ 397,870**REMARKS** (explain any negotiations that resulted in a change in any Bid amounts): \_\_\_\_\_

Contractor should not incur any costs associated with the contract prior to receipt of a contract from the Agency for execution. Contractor should not perform any work prior to (1) delivering to the Agency both certificates of insurance and Performance and Payment Bonds meeting the requirements of the solicitation; and (2) receipt of the Agency's written Notice to Proceed. The State assumes no liability for any expenses incurred by the Contractor prior to issuance of a Notice to Proceed, other than the Contractor's non-reimbursable costs incurred in providing such bonds.

**RIGHT TO PROTEST (SC Code § 11-35-4210)**

Any actual bidder, offeror, contractor, or subcontractor who is aggrieved in connection with the intended award or award of this contract may be entitled to protest. To protest an award, you must (i) submit notice of your intent to protest within seven (7) business days of the date the award notice is posted, and (ii) submit your actual protest within fifteen days of the date the award notice is posted. Days are calculated as provided in Section 11-35-310(13). Both protests and notices of intent to protest must be in writing and must be received by the appropriate Chief Procurement Officer within the time provided.

PROTEST - CPO ADDRESS - OSE: Any protest must be addressed to the Chief Procurement Officer for Construction, Office of State Engineer, and submitted in writing (a) by email to: [protest-osc@mmo.sc.gov](mailto:protest-osc@mmo.sc.gov), or (b) by post or delivery to 1201 Main Street, Suite 600, Columbia, SC 29201. By submitting a protest to the foregoing email address, you (and any person acting on your behalf) consent to receive communications regarding your protest (and any related protests) at the e-mail address from which you sent your protest.

Paige K. Childs  
(Agency Procurement Officer Signature)

Paige K. Childs - VP Business, Finance, Facilities  
(Print or Type Name)

**INSTRUCTIONS TO THE AGENCY:**

1. Post a copy of the SE-370 at the location specified by the Instructions to Bidders and announced at the Bid Opening.
2. Send the SE-370 and the final Bid Tabulation electronically to all Bidders and OSE (if required) the same day it is posted.

SE-370

8/10/21  
Posted on  
orig

SE-310

## INVITATION FOR DESIGN-BID-BUILD CONSTRUCTION SERVICES

AGENCY/OWNER: Piedmont Technical CollegePROJECT NAME: Piedmont - Gunsmithing RenovationPROJECT NUMBER: H59-NO34-SG CONSTRUCTION COST RANGE: \$475,000 to \$500,000 N/A ☐PROJECT LOCATION: Piedmont Technical College - 620 N. Emerald Road - Greenwood, SC 29648DESCRIPTION OF PROJECT/SERVICES: Renovations to the Gunsmithing Lab and Minor Exterior workBID/SUBMITTAL DUE DATE: 8/5/2021 TIME: 2:00 PM NUMBER OF COPIES: 1PROJECT DELIVERY METHOD: Design-Bid-BuildAGENCY PROJECT COORDINATOR: Paige Childs - Vice President, Business, Finance & FacilitiesEMAIL: childs.p@ptc.eduTELEPHONE: (864) 941-8688DOCUMENTS MAY BE OBTAINED FROM: SGA | NarmourWright Design

BID SECURITY IS REQUIRED IN AN AMOUNT NOT LESS THAN 5% OF THE BASE BID.

PERFORMANCE BOND REQUIRED? Yes ☒ No ☐ PAYMENT BOND REQUIRED? Yes ☒ No ☐DOCUMENT DEPOSIT AMOUNT: \$ \_\_\_\_\_ IS DEPOSIT REFUNDABLE Yes ☐ No ☐ N/A ☐

Bidders must obtain Bidding Documents/Plans from the above listed source(s) to be listed as an official plan holder. Bidders that rely on copies obtained from any other source do so at their own risk. All written communications with official plan holders & bidders will be via email or website posting.

Agency WILL NOT accept Bids send via email.

*All questions & correspondence concerning this Invitation shall be addressed to the A/E.*

A/E NAME: SGA|NarmourWright DesignA/E CONTACT: Gable D. StubbsEMAIL: gstubbs@sganwdesign.comTELEPHONE: (864) 631-9101PRE-BID CONFERENCE: Yes ☒ No ☐MANDATORY ATTENDANCE: Yes ☐ No ☒PRE-BID DATE: 7/20/2021TIME: 2:00 PMPRE-BID PLACE: Facilities Management Building M, Room 131, 620 N. Emerald Road, Greenwood, SC 29648BID OPENING PLACE: Facilities Management Building M, Room 131, 620 N. Emerald Road, Greenwood, SC 29648

BID DELIVERY ADDRESSES:

HAND-DELIVERY:

Attn: Paige ChildsBuilding M - Facilities Management620 N. Emerald Road, Greenwood, SC 29648

MAIL SERVICE:

Attn: Paige ChildsP.O. Box 1467Greenwood, SC 29648

IS PROJECT WITHIN AGENCY CONSTRUCTION CERTIFICATION? (Agency MUST check one)

Yes ☐No ☒APPROVED BY: Stanley P. Gailey

(OSE Project Manager)

DATE: 7/8/21

# Addendum Number 1

## PTC Gunsmithing Renovation Project No. H59-N034-SG

July 27, 2021

To Bidders:

This Addendum forms a part of the Contract Documents and modifies the original Procurement Documents dated 07/12/2021 as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

This Addendum consists of 1 page and the noted attachments.

A. Changes to prior Addenda:

No prior Addenda

B. Changes to Procurement Requirements:

None

C. Changes to Contracting Requirements:

Add the attached Answers/Clarifications to the questions raised.

D. Changes to the Specifications:

None

E. Changes to the Drawings:

Note the change to the drawings and notations indicated in the Answers/Clarifications

**End of Addendum Number 1**

## Answers/Clarifications to Questions Raised

### PTC Gunsmithing Renovation Project No. H59-N034-SG

July 27, 2021

A. Cover Sheet G000:

Delete note 2 under Schedule/Phasing of Work and substitute the following:

1. The Contractor shall coordinate with the College for the installation of the new epoxy flooring to align with breaks in class schedules for the Machine Shop. The College anticipates this scope of work being performed between December 10, 2021 and January 5, 2022.

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Delete Floor Plan A100 and substitute the attached Floor Plan A100 revision dated 07/21/21. Revisions include:

1. A key note for the wall type is called out on A100. "New Wall – 3-5/8" Metal Stud, 16in. O.C., ½" Gypsum Wall Board both sides, to metal deck above."
2. Window locations have also been dimensioned on A100.

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1. Note 3 has been revised.

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1. Removal of an existing Fan Coil Unit.

E. Lighting Submittal Approval:

The attached submitted lighting fixtures are approved for substitution of fixtures EL, TA and TAE on the project.

**End of Answers/Clarifications**



**Job Name:**

PIEDMONT GUNSMITHING RENOVATION  
Engineer: CAROLINA ENGINEERING  
SOLUTIONS-GREENVILLE (GREENVILLE)

**Catalog Number:**

BZLUXSD

**Notes:****Type:****EL**

TSC21-48421

16

**EMERGI-LITE SPECIFICATION GRADE PRODUCTS**

ARCHITECTURAL

**Lux-Ray™ LED Series**

Die-cast aluminum LED emergency lighting – interior or exterior



NEMA-3R



Patent-Pending

**Housing**

- Indoor/outdoor suitable for wet location
- Die-cast aluminum housing
- UV-resistant (3" x 1.5") polycarbonate lens

**Mounting**

- Wall mount
- 1/2" rigid conduit top entry
- Universal J-box mounting pattern

**Lamp type**

- Patent-pending light engine: four power LEDs with redundant connections
- 400-640 Lumens
- Color temperature: 4000K
- Optional forward-throw light distribution, for applications of outdoor egress
- Optional high-lumen outputOptional dual-mode operation: normal and emergency LED lighting with separate AC inputs

**Electronics**

- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- Standard Advanced Diagnostics
- 120/277 60Hz

**Approval**

- UL 924 listed
- NEMA-3R rated for indoor/outdoors cold-weather wet and damp locations: -20 to 40°C (-4 to 104°F)

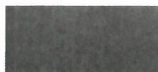
**Warranty**

- Unit has a five-year limited warranty
- Detailed warranty terms located on page 178 or online at:  
[www.emergi-lite.com/usa/files/EL\\_Warranty.pdf](http://www.emergi-lite.com/usa/files/EL_Warranty.pdf)

**Power consumption**

AC Specs: 120/277VAC					
		Normal lighting	Emergency lighting		6-12VDC remote
Model	Current (max)	Power (max)	Current (max)	Power (max)	Power (max)
AC, 2AC, ACDC, DC (remote)	0.12/0.08A	12W	0.12/0.08A	12W	8W
AC-H, 2AC-H, ACDC-H, DC-H	0.18/0.11A	18W	0.18/0.11A	18W	14W
ACSD, SD, SD-H	0.12/0.06A	12W	0.05/0.02A	12W	–
SD-CW	–	–	0.15/0.07A	16W	–
ACSD-CWP, -CWRC <sup>1</sup>	–	–	0.22/0.10A	24W	–

<sup>1</sup>Note: ACSD cold weather models must be powered only from the unswitched emergency AC line

**Colors**

Black

Dark bronze  
(painted)

Off-white



Platinum gray

**Job Name:**

PIEDMONT GUNSMITHING RENOVATION  
Engineer: CAROLINA ENGINEERING  
SOLUTIONS-GREENVILLE (GREENVILLE)

**Catalog Number:**

BZLUXSD

**Notes:****Type:****EL**

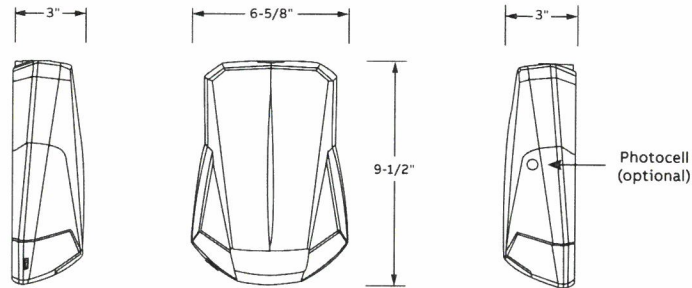
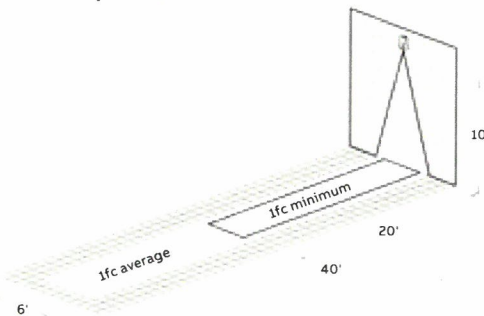
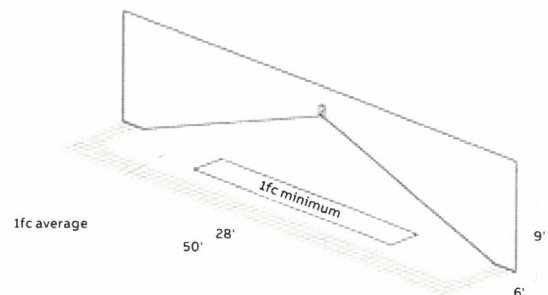
TSC21-48421

## ARCHITECTURAL COLLECTION – LUX-RAY™ LED SERIES

17

**Dimensions**

Dimensions are approximate and subject to change.

**Photometric performance – Forward throw****Photometric performance – Wide beam****Table A – Spacing for minimum illumination = 1FC (1 foot-candle)**

Model type	Mounting height	Lumen	Color temperature	Width X length (ft)	
				Single unit	Center-to-center
Standard	9'	400	4000K	4' x 28'	4' x 32'
With option -H	11'	550		4' x 32'	4' x 40'
With option -FT	12'	460		4' x 22'	–
With option -FTH	15'	640		4' x 27'	–

**Table B – Spacing for NFPA101 – Average = 1FC (1 foot-candle)**

Model type	Mounting height	Lumen	Color temperature	Width X length (ft)	
				Single unit	Center-to-center
Standard	9'	400	4000K	6' x 50'	4' x 32'
With option -H	11'	550		6' x 60'	4' x 40'
					3' x 70'
With option -FT	12'	460		6' x 40'	–
With option -FTH	15'	640		6' x 50'	–

**How to order**

Color	Series	Model	Options
B= Black	LUX= Lux-Ray LED	SD= Self-powered & diagnostic [-4-122°F (-20-50°C)]	-CW= Cold weather [-40-86°F (-40-30°C) not available with option -H]
BZ= Dark bronze		ACSD= Dual-mode AC / self-powered & diagnostic -4-104°F (-20-40°C)	-D3= Time delay (15 minutes)
OW= Off-white			-FT= Forward throw lighting
PG= Platinum gray			-H= High lumen output (max. 86°F/30°C; model SD only)
			-P= Photocell (ACSD only)
			-RC= Remote control test switch - infrared <sup>1</sup>

Example: BZLUXACSD-RC

<sup>1</sup>For ACSD model only, remote control keypad (TB-RC1-E) ordered separately



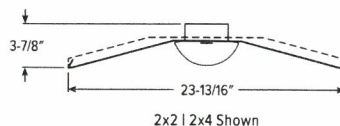
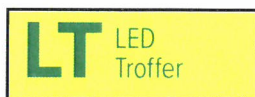
**Job Name:**  
 PIEDMONT GUNSMITHING RENOVATION  
 Engineer: CAROLINA ENGINEERING  
 SOLUTIONS-GREENVILLE (GREENVILLE)

**Catalog Number:**

LT-24-L64/835-AF-(L55)-(4)EQ CLIPS-  
 DIM1-UNV-TAE WITH EM/10W

**Notes:****Type:****TATAE - OPT 1**

TSC21-48421



CATALOG # \_\_\_\_\_

TYPE \_\_\_\_\_

PROJECT \_\_\_\_\_

**FEATURES**

- Low-profile depth for shallow plenum applications
- Diffuse lens provides smooth illumination for visual comfort
- Air return capability reduces number of unsightly ceiling vents for a cleaner appearance
- Surface mount kit preserves continuity
- Maximize energy savings with efficacies as high as 140 lm/W
- Made Right Here® in the USA

**SPECIFICATIONS**

- HOUSING/REFLECTOR – Precision die-formed 22-gauge C.R.S.
- SHIELDING – Frosted acrylic.
- FINISH – Highly reflective non-glare matte white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL – High quality mid-power LED boards. L80 >60,000 hours.
- MOUNTING – Designed for NEMA Type "G" 1" grid ceiling standard. For NEMA Type "NFG" and "SG" 9/16" grid installations, specify EQCLIPS option. Surface mount and drywall kit accessories available, ordered separately.
- LISTINGS –
  - cCSAus certified as luminaire suitable for dry or damp locations.
  - DesignLights Consortium Premium qualified product. Not all versions of this product may be DLC Premium qualified, see the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL).
  - City of Chicago Environmental Air approved when specified with CP option.
- WARRANTY – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).



ORDERING EXAMPLE: LT - 24 - L52/835 - AF - OPTIONS - DIM - UNV

**ORDERING INFO**

SERIES	WIDTH	LENGTH	LUMENS <sup>(1)</sup>	CRI	CCT	SHIELDING
<b>LT Static</b>	<b>1' 1" <sup>(3)</sup></b>	<b>2' 2" <sup>(4)</sup></b>	<b>1x4</b>	<b>8 80</b>	<b>27 2700K</b>	<b>AF Frosted acrylic</b>
LT-AR Air Return <sup>(2)</sup>	<b>2' 2"</b>	<b>4' 4"</b>	L28 2,800lm	9 90 <sup>(5)</sup>	30 3000K	
			L47 4,700lm		<b>35 3500K</b>	
			L63 6,300lm		40 4000K	
			<b>2x2</b>		50 5000K	
			L27 2,700lm			
			L39 3,900lm			
			L49 4,900lm			
			<b>2x4</b>			
			L40 4,000lm			
			<b>(L55)</b>			
			L52 5,200lm			
			<b>L64 6,400lm</b>			
			L82 8,200lm			

**OPTIONS <sup>(6)</sup>**

<b>EM/7WRM</b>	Remote mount 7-watt emergency battery <sup>(8)</sup>
<b>EM/10W</b>	10-watt emergency battery <sup>(9)</sup>
<b>EM/12W</b>	12-watt emergency battery <sup>(10)</sup>
<b>EQCLIPS</b>	Earthquake clips <sup>(11)</sup>
<b>OCC</b>	Integral occupancy sensor and power pack: OCCLV OSF10-IUV-PP-UNV
<b>(L)</b>	Additional lower lumen packages available. <sup>(12)</sup> Example: 5,800 lumens = LT-24-L64/840-(L58)
<b>CP</b>	Chicago Premium (CCEA)
<b>LT-14-SMK-W</b>	Surface mount kit, 1'x4', white
<b>LT-22-SMK-W</b>	Surface mount kit, 2'x2', white
<b>LT-24-SMK-W</b>	Surface mount kit, 2'x4', white
<b>DFK-1248W</b>	Drywall kit, 12" x 48", white
<b>DFK-2424W</b>	Drywall kit, 24" x 24", white
<b>DFK-2448W</b>	Drywall kit, 24" x 48", white

**CONTROL <sup>(7)</sup>**

<b>DIM</b>	Dimming driver	<b>120 120V</b>
<b>DRV</b>	Non-dimming driver	<b>277 277V</b>
<b>VRF/DSR</b>	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and sensor-ready driver	<b>UNV 120-277V</b> 347 347V <sup>(13)</sup>

**DIM1****QUICKSHIP****TYPE TAE WITH EM/10W**

<b>1x4</b>	<b>2x2</b>	<b>2x4</b>
LT-14-L47/835-AF-QS-DIM-UNV	LT-22-L39/835-AF-QS-DIM-UNV	LT-24-L40/835-AF-QS-DIM-UNV
LT-14-L47/840-AF-QS-DIM-UNV	LT-22-L39/840-AF-QS-DIM-UNV	LT-24-L40/840-AF-QS-DIM-UNV
		LT-24-L64/835-AF-QS-DIM-UNV
		LT-24-L64/840-AF-QS-DIM-UNV

**NOTES**

- <sup>1</sup> Lumens based on 3500 CCT. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see options.
- <sup>2</sup> Air return through side slots. Not available with surface mount or CP option.
- <sup>3</sup> 4" length only.
- <sup>4</sup> 2" width only.
- <sup>5</sup> Extended lead times may apply. Consult factory for availability.
- <sup>6</sup> See page 3 for FLEXIBLE WHIP OPTIONS. See page 3 for SURFACE MOUNT KIT DETAILS. See Technical Info for Drywall Kit and Power Entry details.

<sup>7</sup> See page 2 for ADDITIONAL CONTROL OPTIONS.<sup>8</sup> 120-277V only.<sup>9</sup> 120-277V only.<sup>10</sup> 120-277V only.<sup>11</sup> 4 per fixture. Optional for 1" grid installations. Required for 9/16" grid mounting; LT is compatible with Williams earthquake clips only.<sup>12</sup> Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.<sup>13</sup> Not available with EM batteries.

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 Page 1 of 3





**Job Name:**  
 PIEDMONT GUNSMITHING RENOVATION  
 Engineer: CAROLINA ENGINEERING  
 SOLUTIONS-GREENVILLE (GREENVILLE)

**Catalog Number:**  
 LT-24-L64/835-AF-(L55)-(4)EQ CLIPS-  
 DIM1-UNV-TAE WITH EM/10W

Notes:

**Type:**  
 TATAE - OPT 1

TSC21-48421



### FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
1x4	L28	2814	21.4	131.6
	L47	4677	33.7	138.7
	L63	6261	48.5	129.1
2x2	L27	2722	21.3	127.8
	L39	3934	33.1	118.7
	L49	4869	38.1	127.7
2x4	L40	3972	32.0	124.1
	L52	5202	37.2	140.0
	<b>L64</b>	<b>6396</b>	<b>48.5</b>	<b>131.9</b>
	L82	8214	64.3	127.7

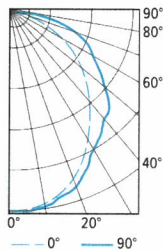
### MULTIPLIER TABLE

	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.97
	3000K	0.99
	<b>3500K</b>	<b>1.00</b>
	4000K	1.03
90 CRI	5000K	1.06
	2700K	0.80
	3000K	0.82
	3500K	0.83
	4000K	0.86
	5000K	0.89

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is based on 120V input.
- Results based on 3500K, 80 CRI, actual lumens may vary +/-5%.
- Use multiplier table to calculate additional options.

### PHOTOMETRY

LT-24-L52/835-AF-DIM-UNV Total Luminaire Output: 5202 lumens; 37 Watts | Efficacy: 141 lm/W | 82 CRI; 3043 K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1851	1851	1851	
5	1843	1844	1846	175
15	1745	1761	1779	499
25	1544	1589	1636	730
35	1276	1359	1440	848
45	1055	1193	1315	902
55	741	902	1044	802
65	480	667	817	647
75	241	429	544	438
85	70	174	159	161
90	0	0	0	

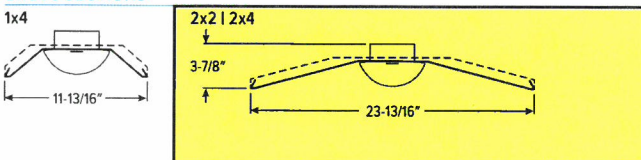
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1404	27
	0 - 40	2252	43
	0 - 60	3955	76
	0 - 90	5202	100
	0 - 180	5202	100

### ADDITIONAL CONTROL OPTIONS

Note: Lumen restrictions apply, consult product builder at [hew.com/product-builder](http://hew.com/product-builder).

CATALOG NUMBER	DESCRIPTION
DRV	Driver prewired for non-dimming applications
DIM	Dimming driver prewired for 0-10V low voltage applications
<b>DIM1</b>	<b>1% dimming driver prewired for 0-10V low voltage applications</b>
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM TRC	Line voltage dimming driver (TRIAC compatible, 120V or 277V only)
DSR	Sensor-ready driver
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LTE LINE	Lutron Hi-Lume 1% 2-wire dimming driver forward phase line voltage controls (120V only)
LDE1	Lutron Hi-Lume 1% EcoSystem dimming LED driver
LDE5	Lutron 5-Series 5% EcoSystem dimming LED driver
VRF/DSR	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and sensor-ready driver
VRF/DBI/LDE1	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), Lutron Hi-Lume 1% EcoSystem dimming LED driver, and digital link interface
VRF/DBI/LDE5	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), Lutron 5-Series 5% EcoSystem dimming LED driver, and digital link interface
ELDO SOLOB	EldoLED Solodrive, 0.1% dimming driver for 0-10V controls
ELDO SOLOB DALI	EldoLED Solodrive, 0.1% dimming driver for DALI controls
ELDO ECO1	EldoLED Ecodrive, 1% dimming driver for 0-10V controls
ELDO ECO1 DALI	EldoLED Ecodrive, 1% dimming driver for DALI controls

### CROSS SECTIONS



**Job Name:**

PIEDMONT GUNSMITHING RENOVATION  
Engineer: CAROLINA ENGINEERING  
SOLUTIONS-GREENVILLE (GREENVILLE)

**Catalog Number:**

PT-24-L61/835-RA-(L55)-(4)EQ CLIPS-  
DIM1-UNV-TAE WITH EM/10W

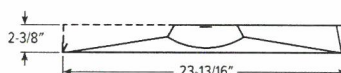
**Notes:****Type:**

**TAT/AE - OPT 2**

TSC21-48421

# PT LED

## Shallow Plenum Troffer



2x2 | 2x4  
Shown with RA lens

CATALOG # \_\_\_\_\_

TYPE \_\_\_\_\_

PROJECT \_\_\_\_\_

**FEATURES**

- Available with BIOS® SkyBlue® technology to support proper daytime circadian stimulus
- Room-side access
- Ultra slim 2-3/8" for minimal plenum space
- Uniform ambient illumination
- Companion surface and retrofit kit preserve continuity, see [hew.com](http://hew.com)
- Maximize energy savings with efficacies up to 134 lm/W
- Rated for direct contact with insulation
- Heavy duty C.R.S. construction
- Made Right Here® in the USA

**SPECIFICATIONS**

- HOUSING/REFLECTOR** – Precision die-formed 22-gauge C.R.S.
- SHIELDING** – Diffuse ribbed acrylic.
- FINISH** – Highly reflective non-glare matte white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL** – High quality mid-power LED boards. L80 >60,000 hours.
- MOUNTING** – Designed for NEMA Type "G" 1" grid ceiling standard. For NEMA Type "NFG" and "SG" 9/16" grid installations, specify EQCLIPS option. Drywall kit accessories available, ordered separately.
- LISTINGS** –
  - cCSAus certified as luminaire suitable for dry or damp locations.
  - DesignLights Consortium qualified product. Not all versions of this product may be DLC qualified, see the DLC Qualified Products List at [www.designlights.org/DPL](http://www.designlights.org/DPL).
  - IC-rated for direct contact with insulation.
  - City of Chicago Environmental Air approved when specified with CP option.
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).



Available with BIOS®  
consult factory

ORDERING EXAMPLE: PT - 2 4 - L90/835 - RA - OPTIONS - DIM - UNV

**ORDERING INFO**

SERIES	WIDTH	LENGTH	LUMENS <sup>[1]</sup>	CRI	CCT	SHIELDING
PT	1 1/2"	2 2/3"	1x4	8 80	27 2700K	RA Diffuse ribbed acrylic, round
			L27 2,700lm	9 90 <sup>[4]</sup>	30 3000K	SA Diffuse ribbed acrylic, square <sup>[5]</sup>
	2 2"	4 4"	L45 4,500lm		35 3500K	
			L61 6,100lm		40 4000K	
			2x2		50 5000K	
			L26 2,600lm			
			L43 4,300lm			
			L52 5,200lm			
			2x4			
			L38 3,800lm			
			L49 4,900lm			
			L61 6,100lm			
			L90 9,000lm			

**OPTIONS<sup>[6]</sup>**

EM/7W	7-watt emergency LED battery <sup>[8]</sup>
EM/7WRM	Remote mount 7-watt emergency battery <sup>[9]</sup>
EM/10W	10-watt emergency battery <sup>[10]</sup>
EM/10WLP	Low-profile 10-watt emergency battery <sup>[11]</sup>
EM/12W	12-watt emergency battery <sup>[12]</sup>
EQCLIPS (L- )	Earthquake clips <sup>[13]</sup> Additional lower lumen packages available. Example: 8,000 lumens = PT-24-L90/835-(L80) <sup>[14]</sup>
AMW	Anti-microbial white finish
CP	Chicago Plenum (CCEA)
DFK-1248W	Drywall kit, 12" x 48", white
DFK-2424W	Drywall kit, 24" x 24", white
DFK-2448W	Drywall kit, 24" x 48", white

**CONTROL<sup>[7]</sup>**

DIM	Dimming driver
DRV	Non-dimming driver
VDO/DSR	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC) and sensor-ready driver <sup>[15]</sup>
VRF/DSR	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and sensor-ready driver <sup>[16]</sup>

**VOLTAGE**

120 120V
277 277V
UNV 120-277V
347 347V <sup>[17]</sup>

**DIM1**

TYPE TAE WITH EM/10W

**QUICKSHIP**

2x2 <sup>[18]</sup>	2x4 <sup>[19]</sup>
PT-22-L36/835-RA-QS-DIM-UNV	PT-24-L55/835-RA-QS-DIM-UNV
PT-22-L43/835-RA-QS-DIM-UNV	PT-24-L61/835-RA-QS-DIM-UNV
PT-22-L43/835-RA-QS-VDO/DSR-UNV	PT-24-L61/835-RA-QS-VDO/DSR-UNV
PT-22-L43/835-RA-QS-LDE1-UNV	PT-24-L61/835-RA-QS-LDE1-UNV
PT-22-L43/840-RA-QS-DIM-UNV	PT-24-L61/840-RA-QS-DIM-UNV
PT-22-L43/840-RA-QS-VDO/DSR-UNV	PT-24-L61/840-RA-QS-VDO/DSR-UNV
PT-22-L43/840-RA-QS-LDE1-UNV	PT-24-L61/840-RA-QS-LDE1-UNV

**NOTES**

- Lumen output based on 3500 CCT. Actual lumens may vary +/- 5%, see page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see options.
- 4" length only.
- 2" width only.
- Extended lead times may apply. Consult factory for availability.
- Increases lumen output by 3%.
- See page 4 for FLEXIBLE WHIP OPTIONS. See [Technical Info](#) for Drywall Kit details.
- See page 3 for ADDITIONAL CONTROL OPTIONS.
- 2x2 and 2x4 only.
- 1x4 only.

- 2x2 & 2x4 only.
- 1x4 only.
- 2x2 & 2x4 only.
- 4 per fixture. Optional for 1" grid installations. Required for 9/16" grid mounting.
- Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- See page 4 for SENSOR DETAILS.
- See page 4 for SENSOR DETAILS.
- Not available with emergency batteries.
- Extended lead times may apply for Lutron options.
- Extended lead times may apply for Lutron options.



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Page 1 of 4



**Job Name:**

PIEDMONT GUNSMITHING RENOVATION  
Engineer: CAROLINA ENGINEERING  
SOLUTIONS-GREENVILLE (GREENVILLE)

**Catalog Number:**

PT-24-L61/835-RA-(L55)-(4)EQ CLIPS-  
DIM1-UNV-TAE WITH EM/10W

**Notes:****Type:****TAT/AE - OPT 2**

TSC21-48421

# PT LED

## Shallow Plenum Troffer

**FIXTURE PERFORMANCE DATA**

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
1x4	L27	2723	21.4	127.4
	L45	4526	33.7	134.3
	L61	6059	48.5	124.9
2x2	L26	2633	21.3	123.6
	L43	4343	34.7	125.3
	L52	5207	43.3	120.2
2x4	L38	3763	31.4	119.7
	L49	4928	37.2	132.6
	L61	6059	48.5	124.9
	L90	9018	71.4	126.4

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is average for 120V through 277V input.
- Results based on 3500K, 80 CRI, actual lumens may vary +/-5%
- Use multiplier table to calculate additional options.

**MULTIPLIER TABLE**

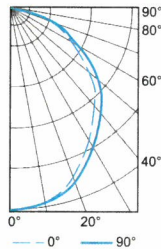
COLOR TEMPERATURE	
CCT	CONVERSION FACTOR
2700K	0.97
3000K	0.99
3500K	1.00
4000K	1.03
5000K	1.06

80 CRI	
2700K	0.82
3000K	0.83
3500K	0.84
4000K	0.86
5000K	0.90

**PHOTOMETRY**

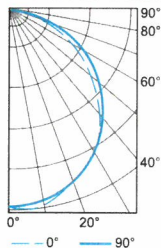
**PT-24-L90/835-RA-DIM-UNV** Total Luminaire Output: 9018 lumens; 71.4 Watts | Efficacy: 126 lm/W | 84.9 CRI; 3494K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	3405	3405	3405	
5	3388	3388	3390	322
15	3167	3181	3201	907
25	2803	2850	2891	1324
35	2356	2444	2527	1529
45	1917	2069	2190	1572
55	1349	1525	1673	1362
65	875	1081	1246	1054
75	406	645	817	681
85	81	290	340	267
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	2553	28
	0 - 40	4082	45
	0 - 60	7016	78
	0 - 90	9018	100
	0 - 180	9018	100

**PT-14-L61/835-RA-DIM-UNV** Total Luminaire Output: 6059 lumens; 48.5 Watts | Efficacy: 125 lm/W | 84.9 CRI; 3544K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	2208	2208	2208	
5	2258	2233	2200	211
15	2158	2153	2126	604
25	1974	1984	1960	908
35	1718	1740	1741	1079
45	1370	1431	1452	1091
55	981	1078	1123	958
65	629	745	765	713
75	280	392	409	398
85	43	71	83	98
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1723	28
	0 - 40	2802	46
	0 - 60	4850	80
	0 - 90	6059	100
	0 - 180	6059	100





**Job Name:**  
 PIEDMONT GUNSMITHING RENOVATION  
 Engineer: CAROLINA ENGINEERING  
 SOLUTIONS-GREENVILLE (GREENVILLE)

**Catalog Number:**

PT-24-L61/835-RA-(L55)-(4)EQ CLIPS-  
 DIM1-UNV-TAE WITH EM/10W

Notes:

**Type:****TAT/AE - OPT 2**

TSC21-48421

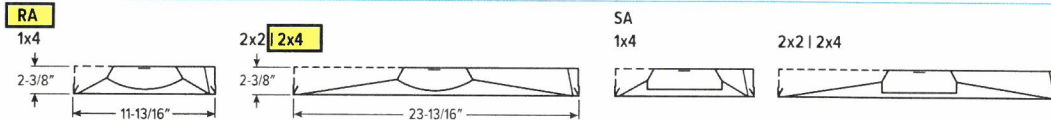
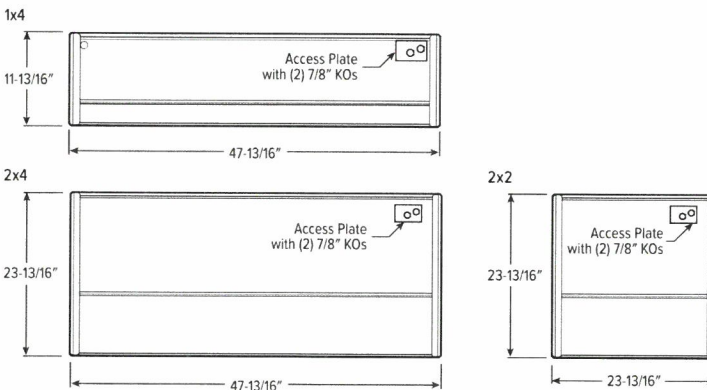
# PT LED

Shallow Plenum Troffer

**ADDITIONAL CONTROL OPTIONS**

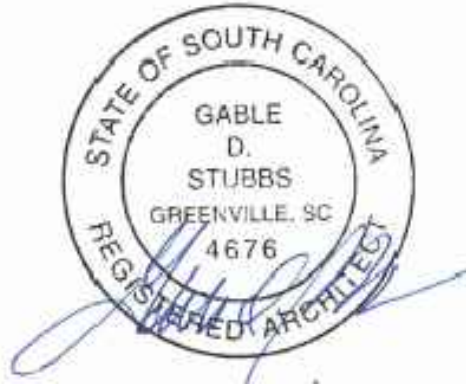
Note: Lumen restrictions apply, consult product builder at [hew.com/product-builder](http://hew.com/product-builder).

CATALOG NUMBER	DESCRIPTION
DRV	Driver prewired for non-dimming applications
DIM	Dimming driver prewired for 0-10V low voltage applications
<b>DIM1</b>	<b>1% dimming driver prewired for 0-10V low voltage applications</b>
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM TRC	Line voltage dimming driver (TRIAC compatible, 120V or 277V only)
DSR	Sensor-ready driver
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LTE LINE	Lutron Hi-lume 1% 2-wire dimming driver forward phase line voltage controls (120V only)
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver
LDE5	Lutron 5-Series 5% EcoSystem dimming LED driver
VDO/DSR	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC) and sensor-ready driver
VRF/DSR	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and sensor-ready driver
VDO/DBI/LDE1	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC), Lutron Hi-lume 1% EcoSystem dimming LED driver, and digital link interface
VDO/DBI/LDE5	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC), Lutron 5-Series 5% EcoSystem dimming LED driver, and digital link interface
VRF/DBI/LDE1	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), Lutron Hi-lume 1% EcoSystem dimming LED driver, and digital link interface
VRF/DBI/LDE5	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), Lutron 5-Series 5% EcoSystem dimming LED driver, and digital link interface
ELDO SOLOB	EldoLED Solodrive, 0.1% dimming driver for 0-10V controls
ELDO SOLOB DALI	EldoLED Solodrive, 0.1% dimming driver for DALI controls
ELDO ECO1	EldoLED Ecodrive, 1% dimming driver for 0-10V controls
ELDO ECO1 DALI	EldoLED Ecodrive, 1% dimming driver for DALI controls

**CROSS SECTIONS****FIXTURE DETAILS****BACKVIEW**



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**Gunsmithing Lab  
Renovation**  
Piedmont Technical College -  
Greenwood Campus  
620 N. Emerald Rd. Building A  
Greenwood, SC 29646

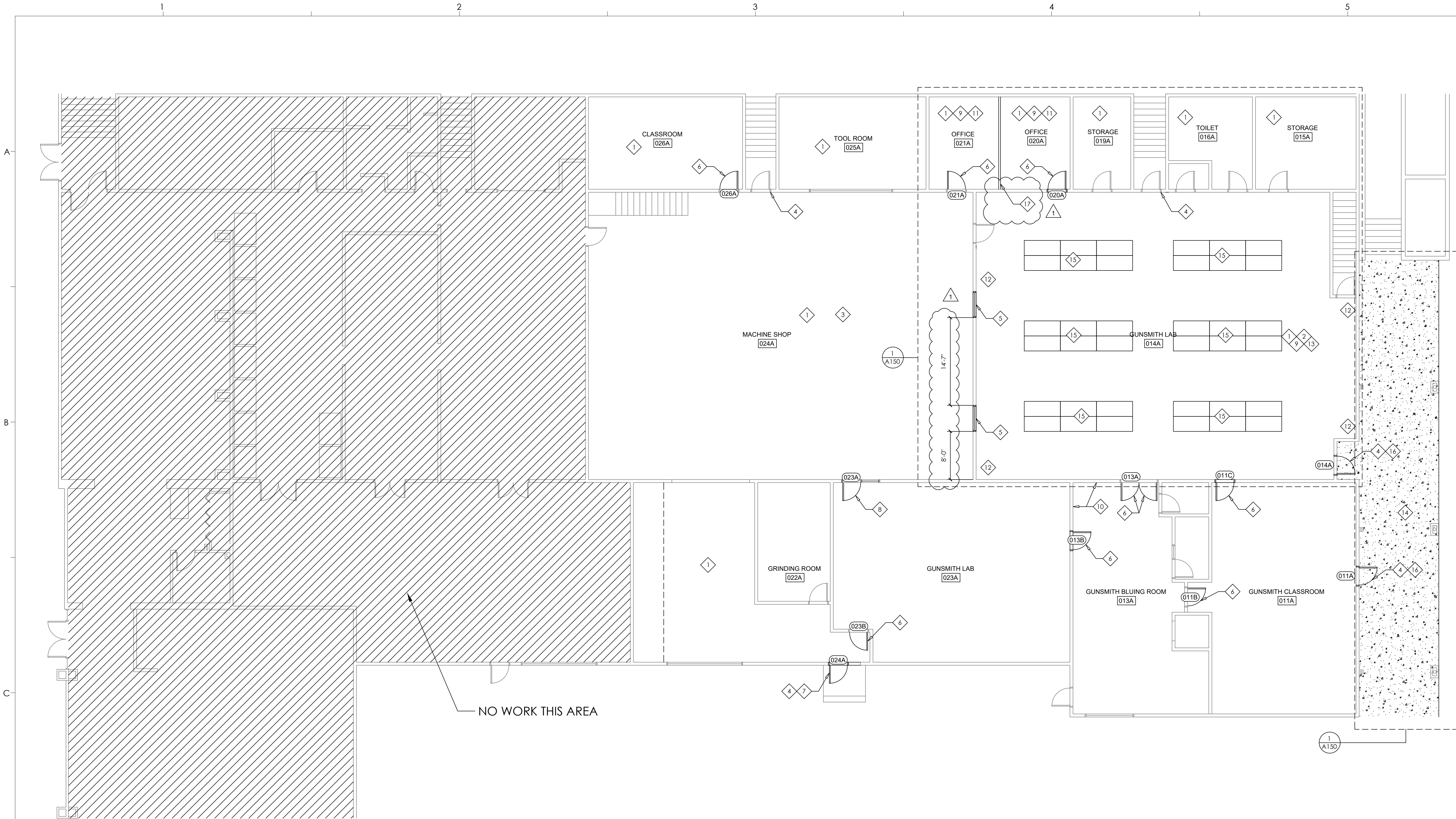
PROJECT NUMBER:  
19-162-03  
ISSUE DATE:  
07/12/2021

DRAWN BY: KP  
CHECKED BY: GS  
ISSUED FOR  
CONSTRUCTION

Revision Schedule		
#	Description	Date
1	Bidding Addendum	7/21/21

FLOOR PLAN

A100

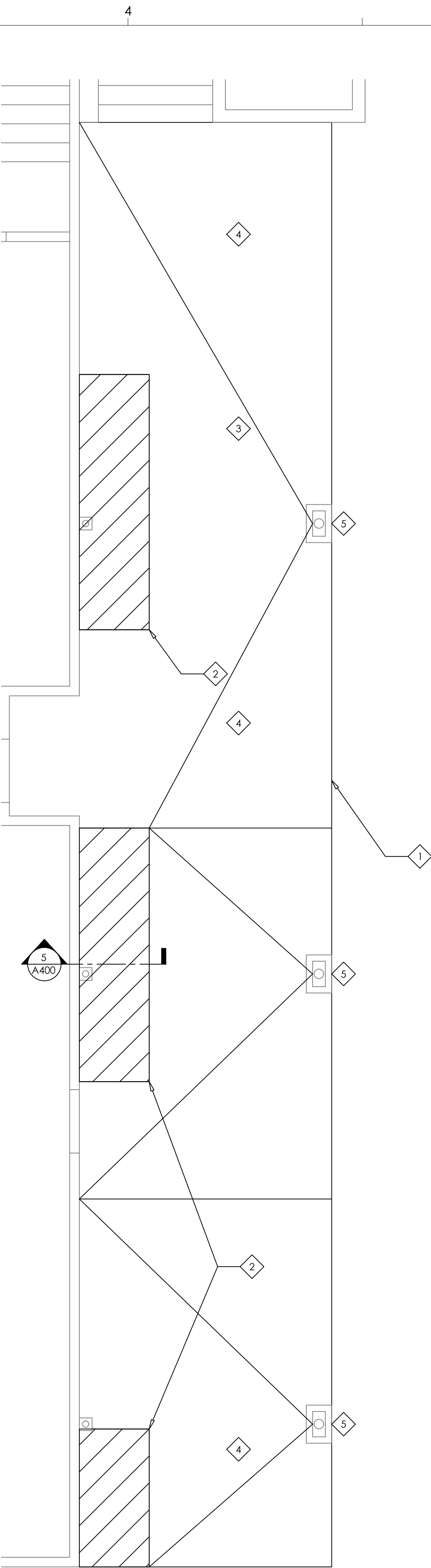
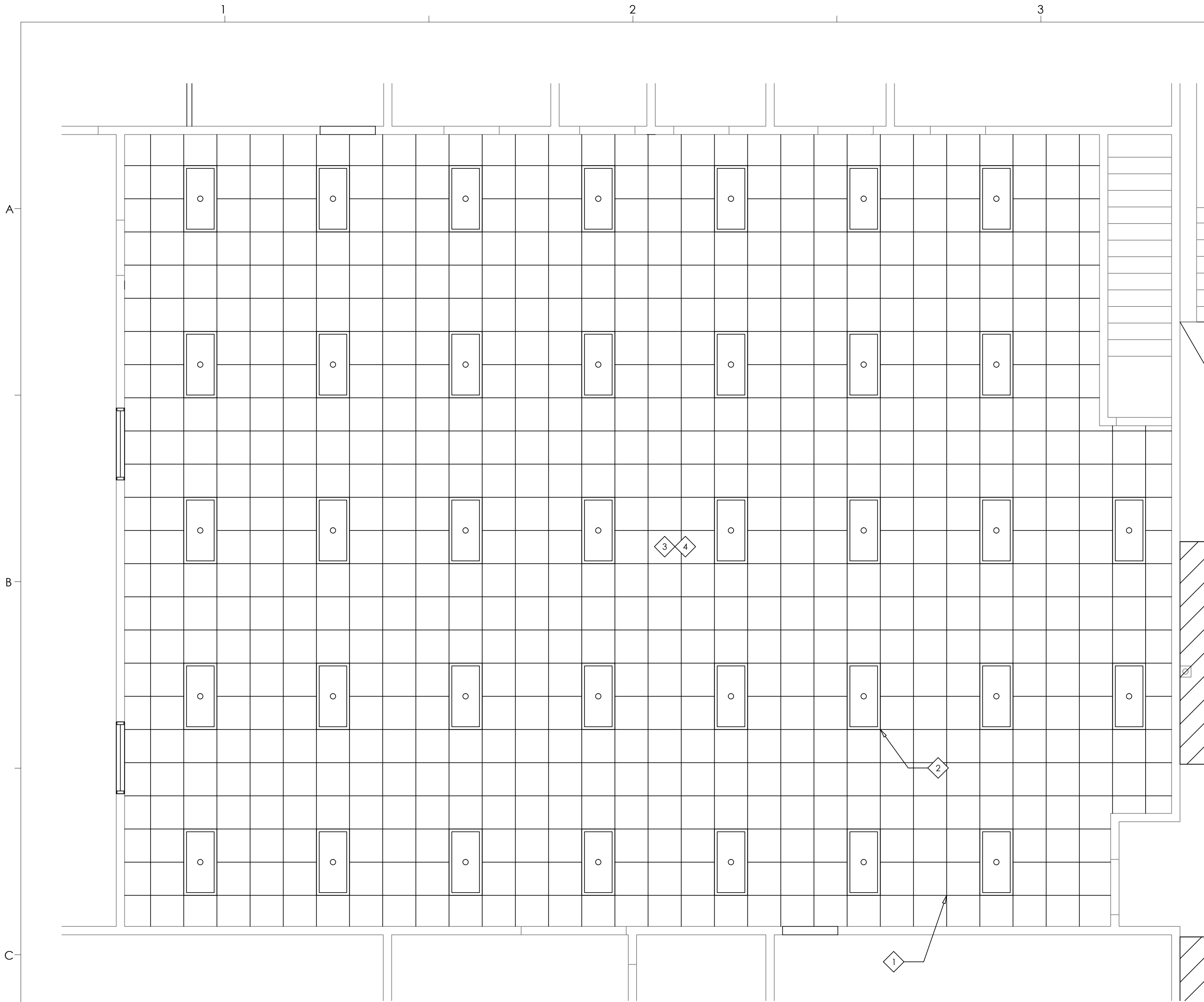


KEYNOTES

1. INSTALL POURED EPOXY FLOOR AND BASE.
2. NEW ACT CEILING AND GRID - SEE A151
3. PAINT ALL WALLS, COLOR AS SELECTED BY OWNER.
4. INSTALL ROUGH IN FOR CARD ACCESS AT DOOR. COORDINATE WITH COLLEGE FOR REQUIREMENTS, MOUNTING HEIGHT AND DATA REQUIREMENTS.
5. PAINTED HOLLOW METAL FRAME WITH GLAZING - REFER TO 2/A400
6. NEW HOLLOW METAL DOOR(S), PAINTED, WITH LARGE VISION PANEL - SEE A400
7. NEW HOLLOW METAL DOOR, PAINTED - SEE A400
8. NEW HOLLOW METAL DOOR WITH SIDE LITE, PAINTED - SEE A400
9. INSTALL NEW LED, INDIRECT, TROFFER LIGHT FIXTURES - REFER TO E100
10. NEW POWER STRIPS AT 4'-0" AFF
11. INSTALL NEW POWER AND DATA OUTLETS - REFER E200
12. ADD POWER AND DATA FOR TEACHING STATIONS - REFER TO E200
13. ADD 18 ELECTRICAL CEILING DROPS - EXISTING POWER ABOVE CEILING - REFER TO E200
14. NEW CONCRETE SIDEWALK, COMPACT SOIL AS REQUIRED TO PROVIDE STABLE BASE.
15. WORK BENCHES BY OWNER N.I.C., TYPICAL
16. NEW STOREFRONT DOOR - SEE A400
17. NEW WALL - 3-5/8" METAL STUD, 16" O.C., 1/2" GYPSUM WALL BOARD BOTH SIDES, TO UNDERSIDE OF DECK ABOVE.

FINISH NOTES

1. SEE GENERAL NOTES ON COVER SHEET G000 FOR PREPARATION OF EXISTING SURFACES/STRUCTURE TO RECEIVE NEW FINISHES.
2. EPOXY FLOORING - POURED, COLOR AS SELECTED BY OWNER
3. PAINT - COLOR AS SELECTED BY OWNER



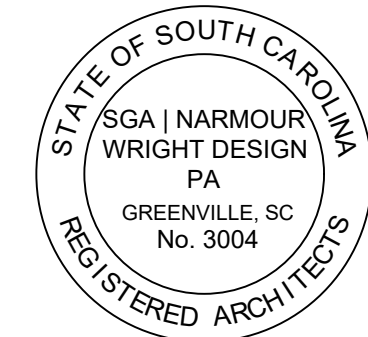
#### RCP KEYNOTES

1. NEW ACT CEILING AND GRID @ 10'-3" A.F.F.
2. NEW LED, INDIRECT, TROFFER LIGHT FIXTURES, REFER TO E100
3. ADD ELECTRICAL CEILING DROPS - EXISTING POWER ABOVE CEILING, REFER TO E200
4. COORDINATE REINSTALLATION OF OWNER EQUIPMENT AND SYSTEMS IN EXISTING CEILING. ENSURE POWER DROPS ARE AVAILABLE FOR PROJECTOR AND SCREEN OR TV NETWORKED TO THE TEACHING STATION. VERIFY LOCATIONS WITH OWNER IN FIELD.

#### ROOF KEYNOTES

1. REROOF COVERED WALKWAY - SLOPED INSULATION & TPO TYPICAL
2. INFILL EXISTING OPENINGS WITH METAL STUD FRAMING, DENSGLASS SHEATHING AND STUCCO FINISH TO MATCH EXISTING. PROVIDE A CONTROL JOINT AT TRANSITION BETWEEN EXISTING AND NEW CEILING.
3. REPLACE EXTERIOR LIGHTING AT WALKWAY CEILING - PATCH CEILING ACCORDINGLY
4. PAINT THE ENTIRE CEILING OF WALKWAY, COLOR AS SELECTED BY OWNER.
5. SLOPE NEW ROOFING INSULATION TO DRAIN TO EXISTING DOWNSPOUT LOCATIONS.

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**Gunsmithing Lab  
Renovation**  
Piedmont Technical College -  
Greenwood Campus  
620 N. Emerald Rd. Building A  
Greenwood, SC 29646

PROJECT NUMBER:  
19-162-03  
ISSUE DATE:  
07/12/2021

DRAWN BY: KP  
CHECKED BY: GS

ISSUED FOR  
CONSTRUCTION

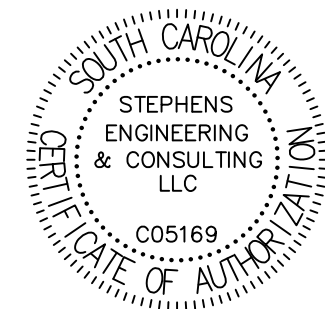
Revision Schedule		
#	Description	Date
1	Bidding Addendum	7/21/21

PARTIAL CEILING &  
ROOF PLANS

**A150**



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Gunsmithing Lab  
Renovation  
Piedmont Technical College -  
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620 N. Emerald Rd. Building A  
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PROJECT NUMBER:  
19-162-03  
ISSUE DATE:  
07/12/2021

DRAWN BY: SCS  
CHECKED BY: SCS

Project Status

Revision Schedule		
1	Addendum	07/27/21

HVAC PLAN

M100



HVAC • PLUMBING • FIRE PROTECTION  
130 Heritage Lane  
Easley SC, 29642  
864.414.1965

NOTES:

- ALL WORK SHALL BE PER THE 2015 SC MECHANICAL CODE.
- ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL AND SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS.
- ALL CONCEALED DUCT JOINTS SHALL BE SEALED WITH AN APPROVED DUCT SEALANT.
- ALL CONCEALED DUCTS SHALL BE INSULATED WITH 2" THICK FIBERGLASS DUCT INSULATION. INSULATION SHALL BE INSTALLED PER THE MANUFACTURER'S REQUIREMENTS. IN ADDITION ALL DUCT INSULATION SEAMS, JOINTS, TEARS, PUNCTURES, ETC., SHALL BE SEALED WITH VAPOR BARRIER MASTIC EQUAL TO CHILDERS CP-35.
- BALANCE SUPPLY AND EXHAUST DIFFUSERS TO THE AIRFLOW QUANTITIES SHOWN, +/- 5%.

10"x8" SUPPLY GRILLE, EQUAL TO  
TITUS 300FL SET BALANCING  
DAMPER FOR 100 CFM. TYPICAL  
FOR 2.

BALANCING DAMPER,  
TYPICAL.

ROUTE ABOVE  
MEZZANINE CEILING

OFFICE  
021A

OFFICE  
022A

TURN UP AND ROUTE UP TO HEIGHT  
ABOVE MEZZANINE CEILING

ROUTE DUCT DOWN ALONG WALL  
AT MEZZANINE LEVEL ABOVE.  
PENETRATE MEZZANINE FLOOR AND  
TERMINATE WITH A 12"x8"x10" BOX  
WITH A SIDE WALL GRILLE.

REMOVE EXISTING FAN COIL UNIT.  
REMOVE EXISTING SUPPLY AND  
RETURN PIPING AND CONDENSATE  
PIPING TO A POINT BEHIND AND  
ABOVE FINISHED WALLS/FLOORS.  
CAP EXISTING PIPING.

REMOVE EXISTING SUPPLY GRILLE AND  
ELBOW AND CONNECT NEW DUCT AT  
THIS LOCATION.

EXISTING 12"Ø DUCT

1 HVAC PLAN  
3/16" = 1'-0"

# Exhibit D

Bid Tabulation Form		Pre-Bid (N/A)	Addendum	Bid Bond	Subcontractors	Unit Price (N/A)	Piedmont – Gunsmithing Renovation	
Date: August 5, 2021	OSE Project No.						H59-N034-SG	
Bid Opening Time: 2:00 p.m.							SGA   NW Project No.	19-162-03
Company							Base Bid	
Mavin								
Satchel Construction								
Mashburn Construction Company								
MAR Construction								
Langston Construction Co. of Piedmont, LLC			✓	✓	✓			\$397,870.00
ConstructConnect								
Mika Contracting								
R J Dean Construction LLC			✓	✓	✓			\$474,000.00
Dodge Data and Analytics								
The Blue Book Building and Construction Network								
Construction Journal								

Architect: 

Agency Coordinator: 

SGA | Narmour Wright  
DESIGN



**SE-330**  
**LUMP SUM BID FORM**

*Bidders shall submit bids on only Bid Form SE-330.*

**BID SUBMITTED BY:** Langston Construction Company of Piedmont, LLC

*(Bidder's Name)*

**BID SUBMITTED TO:** Piedmont Technical College, Attn Paige Childs

*(Agency's Name)*

**FOR: PROJECT NAME:** Piedmont - Gunsmithing Renovation

**PROJECT NUMBER:** H59-NO34-SG

**OFFER**

- § 1. In response to the Invitation for Construction Services and in compliance with the Instructions to Bidders for the above-named Project, the undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into a Contract with the Agency on the terms included in the Bidding Documents, and to perform all Work as specified or indicated in the Bidding Documents, for the prices and within the time frames indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.
- § 2. Pursuant to SC Code § 11-35-3030(1), Bidder has submitted Bid Security as follows in the amount and form required by the Bidding Documents:

☒ **Bid Bond with Power of Attorney**      ☐ **Electronic Bid Bond**      ☐ **Cashier's Check**

*(Bidder check one)*

- § 3. Bidder acknowledges the receipt of the following Addenda to the Bidding Documents and has incorporated the effects of said Addenda into this Bid:

*(Bidder, check all that apply. Note, there may be more boxes than actual addenda. Do not check boxes that do not apply)*

**ADDENDA:**      ☐ #1      ☒ #2      ☐ #3      ☐ #4      ☐ #5

- § 4. Bidder accepts all terms and conditions of the Invitation for Bids, including, without limitation, those dealing with the disposition of Bid Security. Bidder agrees that this Bid, including all Bid Alternates, if any, may not be revoked or withdrawn after the opening of bids, and shall remain open for acceptance for a period of 60 Days following the Bid Date, or for such longer period of time that Bidder may agree to in writing upon request of the Agency.
- § 5. Bidder herewith offers to provide all labor, materials, equipment, tools of trades and labor, accessories, appliances, warranties and guarantees, and to pay all royalties, fees, permits, licenses and applicable taxes necessary to complete the following items of construction work:

- § 6.1 **BASE BID WORK** *(as indicated in the Bidding Documents and generally described as follows):* \_\_\_\_\_

\$ 397,870.00, which sum is hereafter called the Base Bid.

*(Bidder to insert Base Bid Amount on line above)*

# SE-330

## LUMP SUM BID FORM

### § 7. LISTING OF PROPOSED SUBCONTRACTORS PURSUANT TO SECTION 3020(b)(i), CHAPTER 35, TITLE 11 OF THE SOUTH CAROLINA CODE OF LAWS, AS AMENDED (See Instructions on the following page BF-2A)

Bidder shall use the below-listed Subcontractors in the performance of the Subcontractor Classification work listed:

(A) SUBCONTRACTOR LICENSE CLASSIFICATION or SUBCLASSIFICATION NAME <i>(Completed by Agency)</i>	(B) LICENSE CLASSIFICATION or SUBCLASSIFICATION ABBREVIATION <i>(Completed by Agency)</i>	(C) SUBCONTRACTOR and/or PRIME CONTRACTOR <i>(Required - must be completed by Bidder)</i>	(D) SUBCONTRACTOR'S and/or PRIME CONTRACTOR'S SC LICENSE NUMBER <i>(Requested, but not Required)</i>
<b>BASE BID</b>			
Electrical	EL	Watson Electrical	M106527
Air Conditioning	AC	Greenville Mechanical	M109131
<b>ALTERNATE #1</b>			
<b>ALTERNATE #2</b>			
<b>ALTERNATE #3</b>			

If a Bid Alternate is accepted, Subcontractors listed for the Bid Alternate shall be used for the work of both the Alternate and the Base Bid work.

## SE-330

### LUMP SUM BID FORM

#### § 8. LIST OF MANUFACTURERS, MATERIAL SUPPLIERS, AND SUBCONTRACTORS OTHER THAN SUBCONTRACTORS LISTED IN SECTION 7 ABOVE (FOR INFORMATION ONLY):

Pursuant to instructions in the Invitation for Construction Services, if any, Bidder will provide to Agency upon the Agency's request and within 24 hours of such request, a listing of manufacturers, material suppliers, and subcontractors, other than those listed in Section 7 above, that Bidder intends to use on the project. Bidder acknowledges and agrees that this list is provided for purposes of determining responsibility and not pursuant to the subcontractor listing requirements of SC Code § 11-35-3020(b)(i).

#### § 9. TIME OF CONTRACT PERFORMANCE AND LIQUIDATED DAMAGES

##### a) CONTRACT TIME

Bidder agrees that the Date of Commencement of the Work shall be established in a Notice to Proceed to be issued by the Agency. Bidder agrees to substantially complete the Work within 160 Calendar Days from the Date of Commencement, subject to adjustments as provided in the Contract Documents.

##### b) LIQUIDATED DAMAGES

Bidder further agrees that from the compensation to be paid, the Agency shall retain as Liquidated Damages the amount of \$ 150.00 for each Calendar Day the actual construction time required to achieve Substantial Completion exceeds the specified or adjusted time for Substantial Completion as provided in the Contract Documents. This amount is intended by the parties as the predetermined measure of compensation for actual damages, not as a penalty for nonperformance.

#### § 10. AGREEMENTS

- a) Bidder agrees that this bid is subject to the requirements of the laws of the State of South Carolina.
- b) Bidder agrees that at any time prior to the issuance of the Notice to Proceed for this Project, this Project may be canceled for the convenience of, and without cost to, the State.
- c) Bidder agrees that neither the State of South Carolina nor any of its agencies, employees or agents shall be responsible for any bid preparation costs, or any costs or charges of any type, should all bids be rejected or the Project canceled for any reason prior to the issuance of the Notice to Proceed.

#### § 11. ELECTRONIC BID BOND

By signing below, the Principal is affirming that the identified electronic bid bond has been executed and that the Principal and Surety are firmly bound unto the State of South Carolina under the terms and conditions of the AIA Document A310, Bid Bond, included in the Bidding Documents.

ELECTRONIC BID BOND NUMBER: \_\_\_\_\_

SIGNATURE AND TITLE: \_\_\_\_\_

**SE-330  
LUMP SUM BID FORM****CONTRACTOR'S CLASSIFICATIONS AND SUBCLASSIFICATIONS WITH LIMITATION**SC Contractor's License Number(s): Lic No. G-114953Classification(s) & Limits: BD5Subclassification(s) & Limits: HJ5, WP5, WL5, CT5

By signing this Bid, the person signing reaffirms all representation and certification made by both the person signing and the Bidder, including without limitation, those appearing in Article 2 of the SCOSE Version of the AIA Document A701, Instructions to Bidders, is expressly incorporated by reference.

BIDDER'S LEGAL NAME: Langston Construction Co. of Piedmont, LLCADDRESS: 125 Langston RoadPiedmont, SC 29673-0560TELEPHONE: (864) 295-9156EMAIL: jroberts@langstonconstr.comSIGNATURE: DATE: 8/5/2021PRINT NAME: Jim RobertsTITLE: Principal



8/5/2021

Mr. Gable Stubbs  
C/O Piedmont Technical College  
SGA Narmour Wright Design  
718 S Main Street  
Unit B  
Greenville, SC 29601

RE: Piedmont Technical College Gunsmithing Lab  
Our Proposal No: 21-121

Dear Mr. Stubbs,

This letter is to inform all interested parties that Langston Construction Company of Piedmont has acknowledged Addendums #1 (7/27/2021) and #2 (7/29/2021) for the above referenced project. Langston Construction Company also acknowledges the base bid price submitted to Piedmont Technical College of \$379,870.00 which was submitted on August 5, 2021.

We appreciate the opportunity to quote this work and look forward to working with you on this project. Please do not hesitate to contact me should you have any questions or need additional information upon your review of our bid documents.

Sincerely,

LANGSTON CONSTRUCTION COMPANY

A handwritten signature in black ink, appearing to read "A. Colantonio", with a stylized flourish at the end.

Anthony M. Colantonio  
Email: [tcolantonio@langstonconstr.com](mailto:tcolantonio@langstonconstr.com)  
Cell: 864-419-9382