



AIA® Document G701® – 2017

Change Order

PROJECT: *(Name and address)*
Holmes Campus Ventilation Upgrades
Holmes Administration Building
2500 Madison Ave.
Covington, KY 41014

CONTRACT INFORMATION:
Contract For: General Construction
Date: 11/30/2023

CHANGE ORDER INFORMATION:
Change Order Number: 003
Date: 11/26/2024

OWNER: *(Name and address)*
Covington Independent Board of
Education
25 East Seventh Street
Covington, KY 41011

ARCHITECT: *(Name and address)*
Emboss Design, PSC

906 Monmouth Street
Newport, KY 41071

CONTRACTOR: *(Name and address)*
Schrudde & Zimmerman, Inc.

1671 Park Road, Suite No. 11
Ft. Wright, KY 41011

THE CONTRACT IS CHANGED AS FOLLOWS:

(Insert a detailed description of the change and, if applicable, attach or reference specific exhibits. Also include agreed upon adjustments attributable to executed Construction Change Directives.)

Item 03-01

Rewire factory wired indicator lights on three boilers to comply with requirements of Kentucky Mechanical Code. Provide raceway, wiring, and programming to connect existing water heater to two Emergency Stop buttons, one at each egress of the boiler room. Requested by Boiler Inspector.

Cost Benefit to Owner: Required to receive boiler inspection certificate and certificate of occupancy.

ADD: \$11,981.00

Item 03-02 (RFP No. 1)

Provide materials and labor to remove existing inoperable and undersized make-up air unit and associated specialties; install two new intake louvers for combustion air; add two new unit heaters; demo electrical connection for make-up air unit; add power to new unit heaters. Requested by Engineer.

Cost Benefit to Owner: Ensures proper combustion air volume for boiler operation.

ADD: \$53,467.00

Item 03-03

Install electrical switchgear at completion of 2024/25 school year. Extend project completion date as caused by manufacturer delays in shipping required electrical switchgear package. Requested by General Contractor.

NO COST CHANGE

Item 03-04

Provide materials and labor to install three (3) automatic blowdown valves for boilers and pipe to drain cooler, a chemical pump, LMI batch tank, SS agitator, injector quill and valve. Requested by HVAC Contractor.

Provide six months of service and chemical treatment for three (3) boilers. Requested by Owner.

Provide material and labor to remove and dispose off-site three (3) DHW storage tanks, install three (3) new storage tanks, and connect tanks to existing piping system; including permits. Requested by Owner.

Cost Benefit to Owner: Automates otherwise daily manual maintenance and facilitates improved efficiency of operation moving forward; Professional service to maintain proper chemical levels to assure consistent operation of the boilers; Replaces three leaking tanks in boiler room.

ADD: \$41,121.00

TOTAL ADD: \$106,569.00

| | |
|--|-----------------|
| The original Contract Sum was | \$ 4,831,964.37 |
| The net change by previously authorized Change Orders | \$ 50,436.00 |
| The Contract Sum prior to this Change Order was | \$ 4,882,400.37 |
| The Contract Sum will be increased by this Change Order in the amount of | \$ 106,569.00 |
| The new Contract Sum including this Change Order will be | \$ 4,988,969.37 |

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User Notes:

(3B9ADA4A)

The Contract Time will be increased by two hundred eighty-seven (287) days.
The new date of Substantial Completion will be June 30, 2025

NOTE: This Change Order does not include adjustments to the Contract Sum or Guaranteed Maximum Price, or the Contract Time, that have been authorized by Construction Change Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive.

NOT VALID UNTIL SIGNED BY THE ARCHITECT, CONTRACTOR AND OWNER.

Emboss Design, PSC

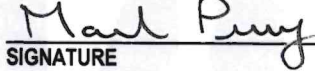
Schrudde & Zimmerman, Inc.


Covington Independent Board of
Education

ARCHITECT (Firm name)

CONTRACTOR (Firm name)

OWNER (Firm name)





SIGNATURE

Mark Perry, Sr. Project Manager
PRINTED NAME AND TITLE

Cheryl Seeger, PM
PRINTED NAME AND TITLE

PRINTED NAME AND TITLE

11/26/2024
DATE

11.27.2024
DATE

DATE

Schrudde & Zimmerman
inc.

GENERAL CONTRACTORS

TELEPHONE (859) 331-3160

1671 PARK ROAD
SUITE 11
FT. WRIGHT, KENTUCKY 41011

November 6, 2024

EMBOSS DESIGN
Attention: Mark Perry
906 Monmouth Street
Newport, KY 41071

Re: **HOLMES CAMPUS VENTILATION**
Change Request #13 – E-Stop & rewire lights on Boilers

Dear Mark,

Per Boiler Inspector, the following is the cost to provide a raceway, wiring, and programming from the existing water heater (considered a boiler) to the Emergency Stop buttons at each egress of the mechanical room, and to rewire indicator lights on boilers:

| | |
|-----------------------|--------------------|
| Hudson Piping | \$11,014.00 |
| 5% OH/Profit | \$551.00 |
| 3.6% Bond & Insurance | <u>\$416.00</u> |
| Total Proposal | \$11,981.00 |

Respectfully Submitted,

Sherry Seeger

Schrudde & Zimmerman, Inc.

HPI 1

Hudson Piping, Inc.

836 Walnut Street
Dayton, Kentucky 41074
(859) 581-7473
(859) 581-7575 (fax)

November 4, 2024

Schrudde & Zimmerman Inc.
1671 Park Road, Suite #11
Ft. Wright, KY 41011

Attn: Sherry Seger

Ref: Holmes Campus Renovations
Boiler & Wiring Changes Due to Code Issues
Hudson Piping Proposal 1879-O

Dear Sherry,

Hudson Piping Inc. respectfully requests a change to our contract for:

- Below is pricing to provide raceway, wiring, and programming from existing water heater (considered a boiler) to the Emergency Stop buttons at each egress of the mechanical room
- As required by the inspection, cost to speak with equipment manufacturer, get approval, and rewire indicator light on (3) boilers is included
- See below breakdown

Total of the Proposal..... \$11,014.⁰⁰

If you have any questions, please let us know.

Respectfully submitted,



Randy Hudson
Hudson Piping Inc.
rhudson@hudsonpiping.com
859-581-7473

ESTIMATE SUMMARY

A. LABOR:

(from T.O. Sheets - straight time only)

TOTAL
BOILER CODE ITEMS

worker class

Pipefitter

- x \$ 99.98 = \$ -

HOLMES CAMPUS

hours x rate =

worker class

Supervision

2.00 x \$ 99.98 = \$ 199.96

hours x rate =

A. TOTAL LABOR

\$ 199.96
B. MATERIALS from list abover

PVF (from Takeoff Sheets)

\$ -

EXPENDIBLES

\$ -
C. EQUIPMENT RENTALS

_____ x \$ - = \$0.00

_____ 0 x \$ - = \$0.00

hour, day, week x rate =

B. & C. TOTAL EQ & MATERIAL

\$ -

TAX (on B & C)

0%

\$ -
D. OWNED EQUIPMENT

..... 0 x \$ 200.00 =

\$ -
E. TRUCKING:

_____ 0 x \$ 45.00 =

\$ -

hour, day, week x rate =

Subtotal (A,B,C,D & E):
\$ 199.96
F. OVERHEAD:

@ 0.0% (on items A,B,C,D,& E)

\$ -
PROFIT:

@ 10.0% (on items A,B,C,D,E, & F)

\$ 20.00
Subtotal (A thru F):
\$ 219.96
G. SUBCONTRACTOR
AMOUNT
COMFORT SYSTEMS

\$ 9,033.00

MOMENTUM MECH

\$ 780.00

\$ -

Subtotal (G)
\$ 9,813.00
H. SUBCONTRACTOR MARKUP
10.0%
\$ 981.30
Subtotal
\$ 10,794.30

(markup is = or < 10%)

TOTAL COST ((A thru F) plus G and H):
\$ 11,014.26
I. MISCELLANEOUS ITEMS (allowable @ cost only)

 1. Bond extension Total 0.00% Cost x

\$0.00

2. Fees for permits, licenses, etc.

\$0.00
TOTAL COST (I):
\$ -
TOTAL COST (A thru F) + (G and H) + (I):
\$11,014.26



425 Elliott Avenue, Cincinnati, Ohio 45215
Mobile: (513) 773-5774 Fax: (513) 874-8911
Email: jeff.lyon@comfortsystemsusa.com

Date: November 1, 2024
Proposal No. B2300014DHHW

To: Randy Hudson

Re: Covington Holmes Admin Bldg – HHWS – ESTOP addition

Scope: Provide labor and materials relative to adding one (1) DHWH into the BAS System ESTOP Circuit

Comfort Systems USA is pleased to provide BAS pricing for this request:

Admin Building Steam Boiler Mechanical Room

- Add one (1) existing Domestic Hot Water Heater into the BAS System HHWS ESTOP circuit

Total price for the above scope of work is: \$9,033.00

Breakdown:

CSUSA Technical Labor = \$1,850.00

CSUSA Material = \$721.00

ESUB = \$6,462.00

EXCLUSIONS / CLARIFICATIONS

- Electrical Subcontractor included
- Hardware Engineering, As-builds included
- Programming, Alarming, Graphics included
- Checkout, Startup and Commissioning included
- Project Management and Field Coordination included
- All work shall be performed during regular business hours (M-F 7:30am – 4:00pm)
- One-year warranty is included
- Any and all scope which is not listed in this proposal is explicitly excluded

Re: Covington Holmes Admin Bldg – HHWS – ESTOP addition & wiring

Please contact me directly should you have any questions, and we appreciate this opportunity.

Respectfully,

Jeffrey W Lyon

Jeffrey W. Lyon
Senior Project Manager
Comfort Systems USA
(513) 773-5774
jeff.lyon@comfortsystemsusa.com



INVOICE

BILL TO

Hudson Piping Inc.
836 Walnut Street
Dayton, KY 41074

INVOICE # 1131**DATE 10/27/2024****DUE DATE 11/26/2024****TERMS Net 30**

| DATE | ACTIVITY | QTY | RATE | AMOUNT |
|------------|--|-----|--------|--------|
| 10/23/2024 | Labor Holmes High School Boiler estop. WO #1134 | 3 | 105.00 | 315.00 |
| 10/24/2024 | Labor | 3 | 105.00 | 315.00 |
| | Truck Charge | 2 | 75.00 | 150.00 |

Payments by check can be mailed to:

13839 Walton-Verona Rd.

Verona, KY 41092

Thank you for choosing Momentum Mechanical!

SUBTOTAL

780.00

TAX

0.00

TOTAL

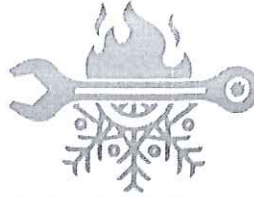
780.00

BALANCE DUE**\$780.00**

For questions regarding this invoice, please contact us
at 859-962-9374 or j.stallmeyer@momentummech.com.

Remit to:

Momentum Mechanical LLC
13839 Walton Verona Rd.
Verona, KY 41092



MOMENTUM MECHANICAL
HEATING COOLING AND REFRIGERATION

859-962-9374

Job # _____

- Complete
- Incomplete
- Warranty

| | |
|---|---|
| Customer Name: <u>Hudson Piping / Holmes H.S.</u> Address: _____ Phone: _____ | Unit <u>Boiler estop</u> Make <u>Powerflame burners Job #3</u> Model # <u>J135082, J135082</u> Serial # <u>J134495</u> |
|---|---|

Service Performed: arrived onsite Dave let me in the boiler room checked out wiring on Estop and boiler wire diagram. called west Mcclain tech support they had me call powerflame tech support. Left my number they called me back said to move light power wire from ES1 to ES2. And have original purchaser contact Rep to get wire diagram modified. Returned to site

Recommendations: made wiring changes Notified Randy hudson of completion and sent change instructions to him for diagram update.

| Materials | PO | Refrigerant | Hours | | |
|--|------------|---|--|----|----|
| | | | Reg | OT | DT |
| | | _____ lbs R- _____ New | | | |
| | | _____ lbs R- _____ Recovered | | | |
| | | Tool Charge | | | |
| | | <input type="checkbox"/> Torch | | | |
| | | <input type="checkbox"/> Recovery Machine | | | |
| | | <input type="checkbox"/> Nitrogen | | | |
| | | <input type="checkbox"/> Vacuum Pump | | | |
| | | <input type="checkbox"/> Leak Detector | | | |
| Truck Stock | QTY | | | | |
| | | | Total Summary | | |
| | | | Total Labor | \$ | |
| | | | Total Materials | \$ | |
| | | | Total Tool Charge | \$ | |
| | | | Total Refrigerant | \$ | |
| | | | Truck Charge (2) | \$ | |
| | | | Tax | \$ | |
| | | | TOTAL | \$ | |
| Momentum Mechanical's Limited Labor Warranty is in effect for 30 days after service is performed. Merchandise sold by Momentum Mechanical has been manufactured by others and may be warranted for limited time periods by the manufacturer against defects. Defects or failure of merchandise resulting from misuse or abuse are not covered by any warranty. | | | <input type="checkbox"/> Cash <input type="checkbox"/> Check <input type="checkbox"/> CC <input type="checkbox"/> Bill Account | | |

Customer Signature

Date

Customer P.O.#

From: rhudson@hudsonpiping.com
To: [Sherry Seger](#)
Subject: Holmes CO - Changes due to Boiler Code
Date: Wednesday, November 6, 2024 10:39:41 AM
Attachments: [COR 1879-O.pdf](#)

Sherry,

See attached pricing for Comfort Systems to complete the water heater E-stop wiring. I know we tried to get a second price from the EC, but he provided the below explanation if we were going to get another price from the EC:

Reminder for Sherry: She can choose to have Div-26 do the ESTOP wiring, but I will still have cost, It's not just wiring. My price is included in the attached. I will need to give you an alternate proposal if she goes with Div-26.

Tried to shave some on your scope to help you, didn't have much room.

As you know, we need to get this in front of the owner ASAP to see if we can get approval and schedule this work.

Thank you,

Randy Hudson
859-581-7473
rhudson@hudsonpiping.com

Schrudde & Zimmerman inc.

GENERAL CONTRACTORS

TELEPHONE (859) 331-3160

1671 PARK ROAD
SUITE 11
FT. WRIGHT, KENTUCKY 41011

November 7, 2024

EMBOSS DESIGN
Attention: Mark Perry
906 Monmouth Street
Newport, KY 41071

Re: **HOLMES CAMPUS VENTILATION**
Change Request #14 – RFP #01 - Boiler Make-Up Air

Dear Mark,

Per RFP #01, the following is the cost to remove access door, remove existing make-up air unit and associated specialties, add (2) new intake louvers for combustion air, and add (2) new unit heaters and tapped in a steam line to serve them; demo electrical connection for make-up air unit; keynote ED66; make electric connections for unit heaters UH-1 & UH-2; and keynote E94:

| | |
|-----------------------|--------------------|
| Hudson Piping | \$42,291.00 |
| Glenwood Electric | \$6,860.00 |
| 5% OH/Profit | \$2,458.00 |
| 3.6% Bond & Insurance | <u>\$1,858.00</u> |
| Total Proposal | \$53,467.00 |

Respectfully Submitted,

Sherry Seger

Schrudde & Zimmerman, Inc.

HPI 1

Hudson Piping, Inc.

836 Walnut Street
Dayton, Kentucky 41074
(859) 581-7473
(859) 581-7575 (fax)

November 7, 2024

Schrudde & Zimmerman Inc.
1671 Park Road, Suite #11
Ft. Wright, KY 41011

Attn: Sherry Seger

Ref: Holmes Campus Renovations
RFP-01 – Boiler Combustion Air
Hudson Piping Proposal 1879-P

Dear Sherry,


Hudson Piping Inc. respectfully requests a change to our contract for:

- Below is pricing per RFP-01 to provide and install (2) louvers, (2) unit heaters, steam and condensate piping as shown
- All demo of existing makeup air unit, piping and caps, ductwork and flues is included
- Steam condensate traps included for condensate – no specialties on steam piping (none shown)
- Scaffolding rental, setup, and teardown is included – this can be utilized by EC as well to complete power wiring and thermostat wiring
- Unit heater thermostats are line voltage – raceways, wiring, and termination is by others
- No controls work or integration is included
- Pipe insulation on steam piping is included – no insulation for steam condensate (existing is not insulated either)
- Sales tax included
- Submittal for specified Modine Unit Heaters is attached
- Unit heaters lead time is 4-6 weeks
- Louvers lead time 12-13 weeks – quick ship for 1-2 week lead time, **ADD \$1,436.00**
- See attached breakdown

Total of the Proposal..... \$40,855.00

If you have any questions, please let us know.

Respectfully submitted,


Randy Hudson
Hudson Piping Inc.
rhudson@hudsonpiping.com
859-581-7473

ESTIMATE SUMMARY

LOUVERS/UNIT HEAT
HOLMES CAMPUS

| | | | |
|--|--------------------------|--------------|--------------|
| A. LABOR: (from T.O. Sheets - straight time only) | | TOTAL | |
| worker class | <u>Pipefitter</u> 138.00 | \$ 99.98 = | \$ 13,797.24 |
| | hours | x rate = | |
| worker class | <u>Supervision</u> 2.00 | \$ 99.98 = | \$ 199.96 |
| | hours | x rate = | |
| A. TOTAL LABOR | | | \$ 13,997.20 |

| | | |
|--------------------------------------|---------------------------|-------------|
| B. MATERIALS from list abover | PVF (from Takeoff Sheets) | \$ 6,801.00 |
| | EXPENDIBLES | \$ 204.03 |

| | | | |
|-----------------------------|---------------|----------|-------------|
| C. EQUIPMENT RENTALS | | | |
| _____ | _____ | x \$ - = | \$0.00 |
| _____ | 0 | x \$ - = | \$0.00 |
| | hour,day,week | x rate = | |
| B. & C. TOTAL EQ & MATERIAL | | | \$ 7,005.03 |

| | | |
|----------------|----|-----------|
| TAX (on B & C) | 6% | \$ 420.30 |
|----------------|----|-----------|

| | | | |
|---------------------------------|---|---------------|------|
| D. OWNED EQUIPMENT | 0 | x \$ 200.00 = | \$ - |
|---------------------------------|---|---------------|------|

| | | | |
|---------------------|---------------|--------------|-----------|
| E. TRUCKING: | 4 | x \$ 65.00 = | \$ 260.00 |
| | hour,day,week | x rate = | |

| | |
|------------------------------------|--------------|
| Subtotal (A,B,C,D & E): | \$ 21,682.53 |
|------------------------------------|--------------|

| | | |
|---------------------|-------------------------------------|------|
| F. OVERHEAD: | @ 0.0% (on items A,B,C,D,& E) | \$ - |
|---------------------|-------------------------------------|------|

| | | |
|----------------|---|-------------|
| PROFIT: | @ 10.0% (on items A,B,C,D,E, & F) | \$ 2,168.25 |
|----------------|---|-------------|

| | |
|-----------------------------|--------------|
| Subtotal (A thru F): | \$ 23,850.78 |
|-----------------------------|--------------|

| | |
|--------------------------|---------------|
| G. SUBCONTRACTOR | AMOUNT |
| <u>METAL AIRWAYS</u> | \$ 13,200.00 |
| <u>VERTEX MECHANICAL</u> | \$ 2,258.00 |
| _____ | \$ - |

| | |
|---------------------|--------------|
| Subtotal (G) | \$ 15,458.00 |
|---------------------|--------------|

| | | |
|--------------------------------|-------|-------------|
| H. SUBCONTRACTOR MARKUP | 10.0% | \$ 1,545.80 |
|--------------------------------|-------|-------------|

| | |
|--|--------------|
| Subtotal | \$ 17,003.80 |
| <small>(markup is = or < 10%)</small> | |

| | |
|--|--------------|
| TOTAL COST ((A thru F) plus G and H): | \$ 40,854.58 |
|--|--------------|

I. MISCELLANEOUS ITEMS (allowable @ cost only)

| | | |
|--|---------------------|--------|
| 1. Bond extension Total | <u>0.00%</u> Cost x | \$0.00 |
| 2. Fees for permits, licenses, etc. | | \$0.00 |

| | |
|------------------------|------|
| TOTAL COST (I): | \$ - |
|------------------------|------|

| | |
|---|-------------|
| TOTAL COST (A thru F) + (G and H) + (I): | \$40,854.58 |
|---|-------------|

ESTIMATE SHEET

HUDSON PIPING, Inc.

PAGE NO. 1

JOB HOLMES

DATE November 7, 2024

LOCATION COVINGTON

COR # _____

ARCHITECT CMTA

SECTION NO. _____

ESTIMATOR RANDY HUDSON

| QTY | DESCRIPTION | UNIT PRICE | MATERIAL | FACTOR | EXT LABOR |
|--------------|---|-------------|--------------------|--------|---------------|
| 1 | DEMO MAKEUP AIR UNIT, PIPING (& CAP), IN MECH ROOM CEILING | \$ 75.00 | \$ 75.00 | 24.00 | 24.00 |
| | | | \$ - | | - |
| 2 | INSTALL UNIT HEATERS | \$ 2,406.00 | \$ 4,812.00 | 16.00 | 32.00 |
| 1 | LOT STEAM AND CONDENSATE PIPING | \$ 670.00 | \$ 670.00 | 64.00 | 64.00 |
| 2 | STEAM CONDENSATE TRAPS | \$ 222.00 | \$ 444.00 | 1.00 | 2.00 |
| | | | \$ - | | - |
| 1 | LOT OF SCAFFOLDING/SETUP/TEARDOWN ALL TRADES TO UTILIZE | \$ 800.00 | \$ 800.00 | 16.00 | 16.00 |
| | | | \$ - | | - |
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| TOTAL | | | \$ 6,801.00 | | 138.00 |



Habegger, Cincinnati OH Carrier
 CBP
 11413 Enterprise Park Drive
 Cincinnati, OH 45241
 (P) (513) 612-4708

Proposal

Project Name: Holmes Campus
Location: Covington, KY
Attention: Randy Hudson

Bid Date: 11/05/2024
Expiration Date: 12/05/2024
Proposal Number: JGRI5953

WE WISH TO PROPOSE THE FOLLOWING EQUIPMENT FOR YOUR CONSIDERATION:

| Mark For | Qty | Model Number | Description |
|----------|-----|--------------|---|
| UH-1,2 | 2 | HC 193SB01FA | Modine Steam / Hot Water Unit Heater; 193,000 Btu; 115V |
| | 2 | 23124 | Thermostat - Range 50-90F |

Pricing

Total Price for items as listed above (excluding taxes)..... \$4,812.00

Please note the following clarifications in this proposal:

- Freight Included
- Lead time is 4-6 weeks

Sincerely, Jeff Gries Commercial Sales Engineer Habegger Commercial Group -----513-305-5676 - Phone

Jeff Gries
 Habegger, Cincinnati OH Carrier CBP
 jeffgries@habeggercorp.com

TERMS:

Acceptance and Performance – Acceptance of terms in this proposal/quotation (Agreement) shall be made by The Habegger Corporation (the "Company") solely at 11413 Enterprise Park Drive, Cincinnati, OH 45241.

This Agreement is good for 30 days from its date. Prices and terms are subject to change if not accepted in writing by Buyer within this time period. Issuance of purchase orders or written authorization to proceed shall constitute acceptance. If written authorization to proceed or to ship is not received by Habegger within two months of acceptance, Habegger shall have the right to increase prices or cancel the order. Any delay in shipment caused by the Buyer or Buyer agents may result in price increases as determined by the Company.

The Company's obligation to furnish goods and services shall be limited to those described in the Company submittal data (only if such data is issued in direct connection with this order), and only to the extent that the goods and services are expressly described in this Agreement. Any and all goods or services deemed necessary to fulfill the obligations of Habegger under this Agreement not expressly included in the Agreement terms will not be furnished unless approved in writing by a Company officer. This Agreement excludes factory check, test, start-up, and/or any other owner instruction/training unless expressly requested by Buyer in the written terms. Buyer agrees to pay for such additional services as determined by the Company.

Taxes – Prices quoted do not include taxes of any kind. Any applicable gross receipts, sales, or use, Federal, State or Local or any applicable taxes and government charges will be added to the total price unless acceptable written evidence of exemption is provided by the Buyer to Habegger.

Prices and Payment – Prices in this Agreement are good for 30 days from its date. Prices are quoted **F.O.B. Shipping Point**.

The Company's obligation to perform and the price thereof under this Agreement is subject to approval of Buyer by the Company's Credit Department. Accounts in good standing are eligible for credit terms of 1% 10th PROX NET 11th, 1-1/2% per month service charge on all past due amounts (18% Annual Rate).

Limitation of Liability - The Company shall be liable for only the cost of services it incurred to perform its obligations under the terms expressly included in this Agreement. It shall not be liable for any incidental, special or consequential damages.

Habegger warrants that all services provided by the Company under this Agreement shall be performed in a workmanlike manner. This warranty is in lieu of all other warranties, express, implied or statutory including the implied warranties of merchantability and fitness for a particular purpose.

The Company shall incur no liability until products and services are paid for in full and said liability shall be limited to the terms stated in this Agreement and to the extent of the company's sole negligence. Habegger shall not be liable for any repairs, replacements or damages of any type, including incidental, special or consequential, resulting from use, misuse, and inability to use the products.

The Company shall not be liable for failure to perform when prohibited to do so by strikes, labor disputes, wars, acts of God, or Governmental restrictions, and/or restrictions of any kind by the manufacturers of materials and equipment specified in this Agreement.

The Company's liability for design and application errors shall be limited to the extent the Company performed the design in writing under the terms of this Agreement.

The Company cannot guarantee any delivery dates at this time. The company will convey and forward all factory messages for shipment. Any costs associated with equipment delays will not be the responsibility of the Company

Cancellation – If Buyer cancels any or all of this Agreement after acceptance, or fails to issue written authorization to proceed within two months of acceptance, for reasons other than default or written consent by the Company officer, Buyer shall be liable for cancellation charges and costs, including overheads and a reasonable profit.

| | | | |
|---------------------|-------|-------------------------|---------------|
| Accepted By: | _____ | Proposal Date: | 11/05/2024 |
| Name: | _____ | Proposal Number: | 1124JGRI5953 |
| Title: | _____ | PO Number: * | _____ |
| Company: | _____ | Project Name: | Holmes Campus |
| Date: | _____ | Ship To: | _____ |

⁹ No terms, conditions or provisions of the referenced Purchase Order are incorporated into this Agreement.



A MEMBER OF THE KENDALL GROUP

PCIN CASH SALE DNU
 KEY CUSTOMER NAME HERE
 KEY CUSTOMER ADDRESS HERE
 CINCINNATI OH 45241-1897

Quotation S114912858

Order Date: 11/06/24
 Terms: Net Due 30 Days
 Customer PO#
 Release #
 Ordered By: RANDY
 Phone: 859-581-7473

Ship To: 240848
 HUDSON PIPING INC
 836 WALNUT ST
 DAYTON, KY 41074-1467

Sold To: 106824
 HUDSON PIPING INC
 836 WALNUT ST
 DAYTON, KY 41074-1467

| Warehouse | Ship Via | Freight Allowed | Account Manager | Inside Salesperson |
|--|------------|-----------------|--|-----------------------|
| EGRA | UPS GROUND | Out: No In: No | HOUSE SALES ACCOUNT | JOHN SCHOENHOFT, PCIN |
| Cust Ln # | Order Qty | IO # | Description | Price / UOM |
| | 2 ea | 3018915 | C5297-24 3/4 811 IB STEAM TRAP 15 LB 1/4 ORIF ARMSTRONG *** TAXES NOT INCLUDED *** | 222.000/ea 444.00 |
| <small>This quotation is an offer to sell you the goods or services described herein on the terms set forth above and on our Terms and Conditions of Sale which are available at https://www.kendallgroup.com/legal_notices/cr by calling 800-632-5422. Your order of any goods or services identified in this quotation constitutes your acceptance of our standard Terms and Conditions of Sale. We object to any additional or different terms attached to this order, including those referenced in your order, but not limited to, any delivered electronically, and we reject any prior offers we received from you. All certificates of origin, certificates of compliance or similar documents must be made prior to or at the time of order. A request does not create a contract. Prices expire on and are subject to change after thirty (30) days. This quotation is valid for the date of the quotation only. Opened, special order or non-stock items may not be returnable.</small> | | | | 444.00 |
| Subtotal | | | | 444.00 |
| S&H CHGS | | | | TBD |
| Sales Tax | | | | TBD |
| Amount Due | | | | 444.00 |

METAL-AIRWAYS

PROJECT: HOLMES HIGH SCHOOL

DATE: 11-06-24

REQUEST #: 2

REFERENCE TO: RFP-01 - BOILER MAKE-UP AIR

CONTRACTOR: HUDSON

BASE QUOTE:

MATERIALS:
PROVIDE (2) LOUVERS: **\$7,744.00**

LABOR:
DEMO DUCTWORK ONLY & INSTALL NEW LOUVERS: **\$2,600.00**

EXPENDABLES:
ANGLE, SEALANT, ETC: **\$406.00**

ADMINISTRATION:
TAXES, COORDINATION, PROJECT MANAGEMENT, ETC: **\$2,450.00**

EXCLUSIONS:
WALL CUTTING & PATCHING
ANY ITEMS NOT INCLUDED IN THE BASE SCOPE OF WORK.

**TOTAL ADD TO CONTRACT
\$ 13,200.00
ADD FOR QUICK-SHIP
\$ 1,436.00**

ADD FOR MOTORIZED DAMPERS:

MATERIAL:
PROVIDE (2) MOTORIZES DAMPERS WITH ACTUATORS: **\$5,440.00**

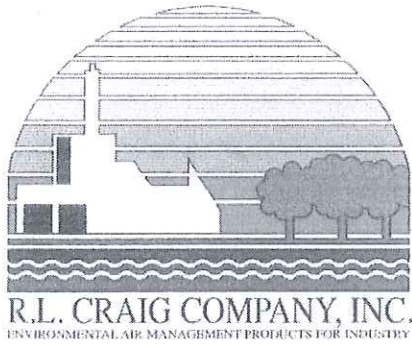
LABOR:
INSTALL (2) MOTORIZED DAMPERS WITH ACTUATORS: **\$560.00**

EXPENDABLES:
PROVIDE SLEEVES FOR MOD INSTALLATION **\$648.00**

ADMINISTRATION:
TAXES, COORDINATION, PROJECT MANAGEMENT, ETC: **\$1,652.00**

EXCLUSIONS:
ELECTRICAL/CONTROL CONDUIT OR WIRING OF ANY KIND
ANY ITEMS NOT INCLUDED IN THE BASE SCOPE OF WORK

**TOTAL ADD TO CONTRACT
\$ 8,300.00
ADD FOR QUICK-SHIP
\$ 1,360.00**



R.L. CRAIG COMPANY, INC.
 ENVIRONMENTAL AIR MANAGEMENT PRODUCTS FOR INDUSTRY
 11524 COMMONWEALTH DRIVE LOUISVILLE, KENTUCKY 40299

LOUISVILLE
 (502) 244-1600

FAX
 (502) 245-1462

LEXINGTON
 (800) 252-4235

WEB SITE
 www.rlcraigo.com

EVANSVILLE
 (800) 422-1935

Date: 6 November, 2024
Quote Number: 110624.bq
Reference: Holmes HS RFP 01 Boiler
 Make-up Air
Addenda read: ZERO
Page 1 of 1 Pages

We are pleased to quote the following for your consideration:

| <u>Quantity</u> | <u>Description</u> | <u>Total Price</u> |
|-----------------|---|--|
| 2 | GREENHECK Louvers with Color by Architect (L-1 is Hinged) – 12-13 week lead time Your cost with freight allowed to Jobsite, Kentucky..... | \$ 7,744.00 plus tax, if applicable |
| 2 | GREENHECK Motorized Dampers to Match Louver Sizes with Actuators – 8 week lead time Your cost with freight allowed to Jobsite, Kentucky..... | \$ 5,440.00 plus tax, if applicable |
| 1 | Add for 1-2 week lead time for L-2 Your cost with freight allowed to Jobsite, Kentucky..... | \$ 1,436.00 plus tax, if applicable |
| 1 | Add for 1-2 week lead time for motorized dampers Your cost with freight allowed to Jobsite, Kentucky..... | \$ 1,360.00 plus tax, if applicable |

NOTE: We are not including any material other than what is specifically listed on this quote. If additional material or accessories are desired, please request an additional quote.

*All Standard Terms and Conditions of Quotation (10 March 1997) apply.
 Net 30 Days. FOB Shipping Point. Standard Lead Time Unless Noted.
 Freight and Taxes Not Included Unless Noted.
 Pricing Subject to Change After 30 Days.*

R. L. CRAIG COMPANY, INC.

BY: Brandon Quinlan

Vertex Mechanical Insulation LLC
1020 Mehring Way W
Cincinnati, Oh 45203
Cell: 513.478.0630
jwilkening@vertex-insulation.com



11/6/2024

QUOTE# 24-001

Subject: Holmes Steam Piping Insulation Quote

We propose to complete insulation for the above job as described below for the sum of: \$ 2,258.00

Exclusions:

Overtime

Fire Stopping / labeling

Lift / Scaffolding

Our price is based on the following:

- Insulating approximately 10' 2 ½", 40' of 2" and associated fittings for steam piping with to match existing insulation
- We plan to use scaffold provided by others to access elevated work
- Our price is based on prevailing wage rates

**** This Price is good for 30 days****

Please feel free to call if you have any questions!

Thanks,

Jeff Wilkening



AccuSpec V4.57
Transaction #: 23234043

JOB TITLE: Holmes RFP

Date: 11/15/2024

Approved By:

Submittal review and approval required prior to listed unit(s) being released for production and shipment. Unit(s) configured based on information provided. The Approver is responsible for ensuring the units, options, and accessories meet the job specifications and comply with any applicable code requirements.



AccuSpec V4.57

SUBMITTAL SCHEDULE & DATA

Steam/Hot Water Unit Heaters

Job Name: Holmes RFP
Location:
Submitted by: Aaron Clark

Date: 11/15/2024
Engineer:
Architect:
Contractor:

| | | Unit Tag | |
|--|---|----------|--|
| Model Number | HC 193SB01FA | | |
| Quantity of Units | 2 | | |
| Btu/Hr Output | 275,990 | | |
| CFM | 2900 | | |
| Outlet Velocity (fpm) | 810 | | |
| Entering Air Temp. (°F) | 50 | | |
| Final Air Temp. (°F) | 135 | | |
| Fluid Type (Steam or Hot Water) | Steam | | |
| Steam Pressure (PSI) | 30 | | |
| Condensate (lb/hr) | 297 | | |
| Entering Water Temp. (°F) | N/A | | |
| Glycol % and Type | 0% | | |
| Water Flow Rate (GPM) | N/A | | |
| Water Pressure Drop (Ft of Water) | N/A | | |
| Water Temp Drop (°F) | N/A | | |
| Supply Voltage | 115/60/1 | | |
| Motor Type | Enclosed Air Over with Thermal Overload | | |
| Motor HP | 1/3 | | |
| Motor RPM | 1140 | | |
| Unit Amps ¹ | 4.2-4.6 | | |
| Options & Accessories (See Attached Pages) | | | |

Remarks _____

¹ The unit FLA may vary based on the actual motor shipped with the unit.



AccuSpec V4.57

SUBMITTAL SCHEDULE & DATA

Steam/Hot Water Unit Heaters

| Model | Description | Qty | Tag |
|--------------|-----------------------------|------------|------------|
| HC 193SB01FA | Steam/Hot Water Unit Heater | 2 | |
| | HC 193SB01FA | 2 | |
| 23124 | Thermostat - Range: 50-90°F | 2 | |



AccuSpec V4.57

STEAM/HOT WATER MODEL NOMENCLATURE

| 1,2,3 | 4,5,6 | 7 | 8 | 9,10 | 11 | 12 |
|-------|-------|---|---|------|----|----|
| HC | 193 | S | B | 01 | F | A |

1,2,3 - Model Type

HC - Horizontal Airflow Steam/Hot Water Unit Heater

4,5,6 - Input Rating

193 - 193,000 BTUH

7 - Coil Type

S - Standard

8 - Development Sequence

B - Current

9,10 - Motor and Drive Code (Power Code)

01 - 115/60/1 - Enclosed Air Over with Thermal Overload

11 - Fan Guard Style

F - Finger Proof Fan Guard

12 - Factory Installed Option

A - None



AccuSpec V4.57

GENERAL PERFORMANCE DATA



General Performance Data

2 lb. Steam, 60°F Entering Air Temperature

| Model | HC 193 |
|---|---------------|
| Btu/Hr. Output | 193,000 |
| Airflow (CFM) | 2900 |
| Outlet Velocity | 810 |
| Entering Air Temp. (°F) | 60 |
| Final Air Temp. (°F) | 121 |
| Mounting Height (Max Ft.) ¹ | 18 |
| Heat Throw (Max. Mtg. Ft.) ¹ | 38 |
| Total Unit Amps ² | 4.2-4.6 |

As Configured Conditions

| | |
|--|---------|
| Steam Pressure (PSI) | 30 |
| Entering Air Temp. (°F) | 50 |
| Btu/Hr. Output | 275,990 |
| Final Air Temp. (°F) | 135 |
| Mounting Height (Max Ft.) ¹ | 15 |
| Heat Throw (Max Ft.) ¹ | 32 |

Motor Data

| | |
|-------------------------|---|
| Horse Power | 1/3 |
| RPM | 1140 |
| Type | Enclosed Air Over with Thermal Overload |
| Motor Amps ² | 4.2-4.6 |

¹ Mounting height measured from floor to bottom of unit. Horizontal units with horizontal louvers open 30° from vertical plane. The maximum mounting height (Max Ft.) is the height above which the unit will not deliver heated air to the floor.

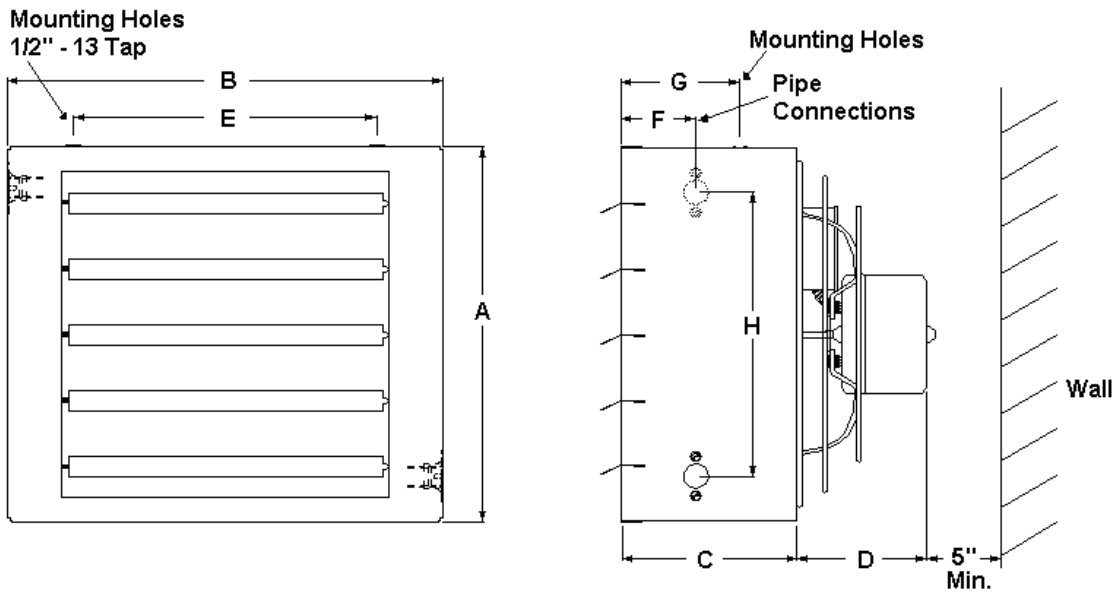
² The unit FLA and Motor amps may vary based on the actual motor shipped with the unit.



AccuSpec V4.57

DIMENSIONS – UNIT

Model HC Dimensions



Model Size HC 193 Dimensions (in inches)

| | |
|-----------------|---------|
| A | 30-1/2 |
| B | 32-1/2 |
| C | 9-1/4 |
| D ¹ | 9-1/2 |
| E | 21-1/4 |
| F | 3-5/8 |
| G | 4-3/4 |
| H | 26 |
| Connections NPT | 1-1/4 |
| Fan Diameter | 22 |
| Approx. Ship Wt | 98 lbs. |

¹ Dimension is for 115V motor.

Specifications

Core Type (Serpentine) Double
 Copper Tube Size (inches) 1
 Copper Tube Wall Thickness (inches) 0.03
 Maximum Coil Rating 150 PSI / 375°F
 Junction Box: All units include an electrical junction box either integral to the motor or attached to the unit casing.

Units

Self-contained, factory assembled, pre-wired unit consisting of cabinet with air deflection louvers, supply fan, motor, and condenser.

Casing

Casings shall be 18 gauge steel and consist of front and back halves. Both halves are joined together at the top and bottom utilizing the condenser mounting screws. Casing top is provided with threaded hanger connections for unit suspension. Fan venturi is formed in casing back half.

Coating

Electrostatically applied baked on grey-green corrosion resistant, polyester powder coat paint that meets the following tests:

1. 500 hours of salt spray as defined in ASTM B117.
2. Adhesion/crosshatch tape tests as defined in ASTM D3359, Method B, Rating 5B.
3. Will not crack or peel when test panel is bent around a 1/8 inch arbor.

Condenser

Condenser coils are of the extended surface type of serpentine design, utilizing aluminum fins and DLP-type copper tubes. Tubes are mechanically bonded to the collars of the fins. The condensers are warranted for operation at steam or hot water pressures up to 150 pounds per square inch gauge and/or temperatures up to 375°F. All coils are leak tested at 165 to 200 psig, air under water. Fins are continuous across the width and depth of the condenser and are vertically oriented to minimize the collection of dirt and dust.

Coils are of serpentine design with horizontal tubes, vertical fins and side supply and return. All tube bends are brazed. All tubes have individual expansion bends. Copper tubes are 1" O.D. with 0.03" wall thickness.

Motor

Single motor with a supply voltage of 115/60/1 and horsepower of 1/3 as indicated on the equipment schedule and manufactured in accordance with NEMA standards for continuous fan duty type applications. Must be enclosed air over and single phase motors will have built in thermal overload protection. Will be mounted to the unit with rubber vibration absorbing material. The entire length of the line voltage motor leads will be shielded and terminate in a factory supplied junction box mounted on the unit or integral to the motor.

Fan/Fan Guards

Fans AMCA rated direct drive, aluminum blade, steel hub propeller will be statically and dynamically balanced. Unit shall be equipped with a safety fan guard.

Fingerproof Fan Guard.


Air Deflectors

The unit shall be furnished with horizontal air deflectors. The deflectors are adjustable to almost any desired position for downward, straight or upward airflow.

Accessories

The following items are to be field installed in accordance with the manufacturer's instructions:

Room Thermostat: Single-stage, 16 amp @ 115V; 8 amp @ 230V. 50-90°F range.

| | | | | |
|---|---|------------------|-------------------|-------------------|
|  | | | | |
| Change Order Pricing | | | | |
| PROJECT: | Holmes High School HVAC Upgrades | DATE: | 11/7/2024 | |
| TO: | Schrudde & Zimmerman, Inc. | | | |
| ATTN: | Sherry Seger | | | |
| CONTRACTOR: | Glenwood Electric Inc. | | | |
| | 12250 Chandler Drive | | | |
| | Walton, KY 41094 | | | |
| Description of Change: RFP-01 | | | | |
| | | Labor Unit Hours | Total Labor Costs | Material Cost |
| Quantity | Description | | | Amount |
| Materials | | | | |
| | Eckart Quote | | | \$413.42 |
| | | | | \$0.00 |
| | | | | \$0.00 |
| | | | | \$0.00 |
| | | | | \$0.00 |
| | Freight/Delivery Charges | | | \$0.00 |
| | Material Subtotal: | | | \$413.42 |
| Labor | | | | |
| 60 | Electrician - regular see backup page | \$ 84.13 | \$5,047.80 | |
| 0 | 1.5 X overtime | \$ 107.27 | \$0.00 | |
| 0 | Onsite Project Manager-regular 10% of Total Hours | \$ 125.00 | \$ - | |
| 0 | 1.5 X overtime | \$ 200.00 | \$ - | |
| 8 | Supervision - regular 20% of Total Hours | \$ 93.76 | \$750.08 | |
| 0 | 1.5 X overtime | \$ 120.89 | \$0.00 | |
| | Per Diem (add correct rate) | \$ 25.00 | \$0.00 | |
| | Labor Subtotal | | | \$5,797.88 |
| Equipment: | | | | |
| | | | | \$0.00 |
| | | | | \$0.00 |
| | Equipment Subtotal | | | \$0.00 |
| Tiered Subs | | | | |
| | | | | \$0.00 |
| | | | | \$0.00 |
| | Subtotal Tiered Subs | | | \$0.00 |
| | SUBTOTAL ABOVE: | | | \$6,211.30 |
| Other Charges: | | | | |
| | Glenwood Equipment Usage | | | \$0.00 |
| | Consumables | | | \$0.00 |
| | Material Deliveries | | | \$0.00 |
| | Safety | | | \$0.00 |
| | Other Subtotal | | | \$0.00 |
| | Subtotal Labor, Material, Equipment & Other: | | | \$6,211.30 |
| | (ADD CORRECT TAX RATE) Sales Tax: | | | \$24.81 |
| | 10% markup: | | | \$623.61 |
| | Subtotal Tiered Subs: | | | \$0.00 |
| | Tiered Subs 5% Overhead & Profit | | | \$0.00 |
| | Sub Total Charges for Material, Equipment, Labor & Tiered Subs: | | | \$6,859.72 |
| | TOTAL COST | | | \$6,859.72 |



Eckart Lexington
 1440 Sunshine Lane
 LEXINGTON, KY 40505-2929
 Phone 859-303-8520
 Fax 859-523-3800



Quotation

| | |
|--|--------------|
| EXPIRATION DATE | QUOTE NUMBER |
| 11/14/2024 | S101181126 |
| Eckart Lexington 1440 Sunshine Lane LEXINGTON, KY 40505-2929 Phone 859-303-8520 Fax 859-523-3800 | PAGE NO. |
| | 1 of 1 |

QUOTE TO:

SHIP TO:

GLENWOOD ELECTRIC, INC.
 12250 CHANDLER DRIVE
 WALTON, KY 41094-9674

GLENWOOD ELECTRIC, INC.
 12250 CHANDLER DRIVE
 WALTON, KY 41094-9674

| CUSTOMER NUMBER | CUSTOMER PO NUMBER | JOB NAME / RELEASE NUMBER | SALESPERSON |
|------------------|--|---------------------------|-------------|
| 7359 | CHANGE ORDER | | Jeff Davis |
| WRITER | SHIP VIA | TERMS | SHIP DATE |
| Teresa Pfalzgraf | | Net Due 25th | 11/07/2024 |
| ORDER QTY | DESCRIPTION | UNIT PRICE | EXT PRICE |
| 180ft | CON 3/4EMT 3/4" EMT CONDUIT PIPE | 71.550/c | 128.79 |
| 10ea | RAC 2913 3/4" EMT STL INS COMP CONN | 0.500/ea | 5.00 |
| 20ea | RAC 2923 3/4" EMT STL COMP CPLG | 0.500/ea | 10.00 |
| 4ea | RAC 232 4" X 2 1/8" SQ BOX 1/2" & TKO | 1.500/ea | 6.00 |
| 4ea | RAC 752 4" BLANK SQUARE COVER FLAT | 0.560/ea | 2.24 |
| 500ft | WIC 12STRTHHNBK 12 STR THHN BLACK CU WIRE 500 | 174.260/m | 87.13 |
| 500ft | WIC 12STRTHHNWH 12 STR THHN WHITE CU WIRE 500 | 174.260/m | 87.13 |
| 500ft | WIC 12STRTHHNGN 12 STR THHN GREEN CU WIRE 500 | 174.260/m | 87.13 |

Bids expire after 1 day.

Bids do not include tax unless shown.

Additional freight charges may apply.

| | |
|-------------|--------|
| Subtotal | 413.42 |
| S&H Charges | 0.00 |
| Amount Due | 413.42 |

REQUEST FOR PROPOSAL 01

Boiler Make-up Air

| | | | |
|------------|---|--------------|---|
| ■ TO: | Schrudde & Zimmerman, Inc. 1671 Park Road, Suite 11 Ft. Wright, KY 41011 | ■ DATE: | 2024.11.04 |
| ATTENTION: | Sherry Seger | | |
| ■ FROM: | Mark Perry mperry@embossedesign.com 906 Monmouth Street Newport, KY 41071 V: 859.431.8612 • D: 859.578.6013 | ■ PROJECT: | CIPS Holmes Campus Ventilation Upgrades BG# 23-066 |
| COPIES TO: | Eric Neff, Ken Mastin | PROJECT NO.: | 22-090 |

■ WE TRANSMIT THE ATTACHED ITEMS VIA: **EMAIL**

| | | | |
|----------------|---|--------------------|--|
| PURPOSE | <input type="checkbox"/> For your use | DISPOSITION | <input type="checkbox"/> No exceptions noted |
| | <input type="checkbox"/> As requested | | <input type="checkbox"/> Exceptions noted, Revise as indicated. |
| | <input type="checkbox"/> For review and comment | | <input type="checkbox"/> REJECTED: REVISE AND RESUBMIT |
| | <input type="checkbox"/> For information | | |
| | <input type="checkbox"/> For record | | |
| | <input type="checkbox"/> For approval | | |
| | <input checked="" type="checkbox"/> For Pricing | | |

| COPIES | DATE | DESCRIPTION | PAGES |
|--|-----------|-------------|-------|
| Work associated with the following change directive shall be included on all affected record documents. The contractor shall prepare a change of work proposal with descriptive breakdowns of all additional costs if the work identified is projected to cost any additional money. No additional money shall be paid to any contractor for any work which is furnished and/or installed without receiving prior written approval for additional compensation. | | | |
| 1 | 11/4/2024 | RFP-01 | 5 |

■ REMARKS:

Please provide a proposal for the scope of work outlined below.

DRAWINGS

Mechanical

AD-M301 – HVAC ENLARGED PLANS

- Removed existing access door
- Removed existing makeup air unit and associated specialties
- Showed locations of existing louvers
- Added two new intake louvers for combustion air. The smaller one should be on a hinge
- Added two new unit heaters and tapped in a steam line to serve them

Electrical

AD-ED101 – ADMIN BUILDING LOWER LEVEL DEMOLITION PLAN

- Added demolition of electrical connection for make up air unit MAU-1.
- Added keynote ED66.

If enclosures are not as noted, please notify Emboss Design immediately.
RFP-01 Boiler Make-up Air

AD-E201 – ADMIN BUILDING LOWER LEVEL POWER & SYSTEMS PLAN

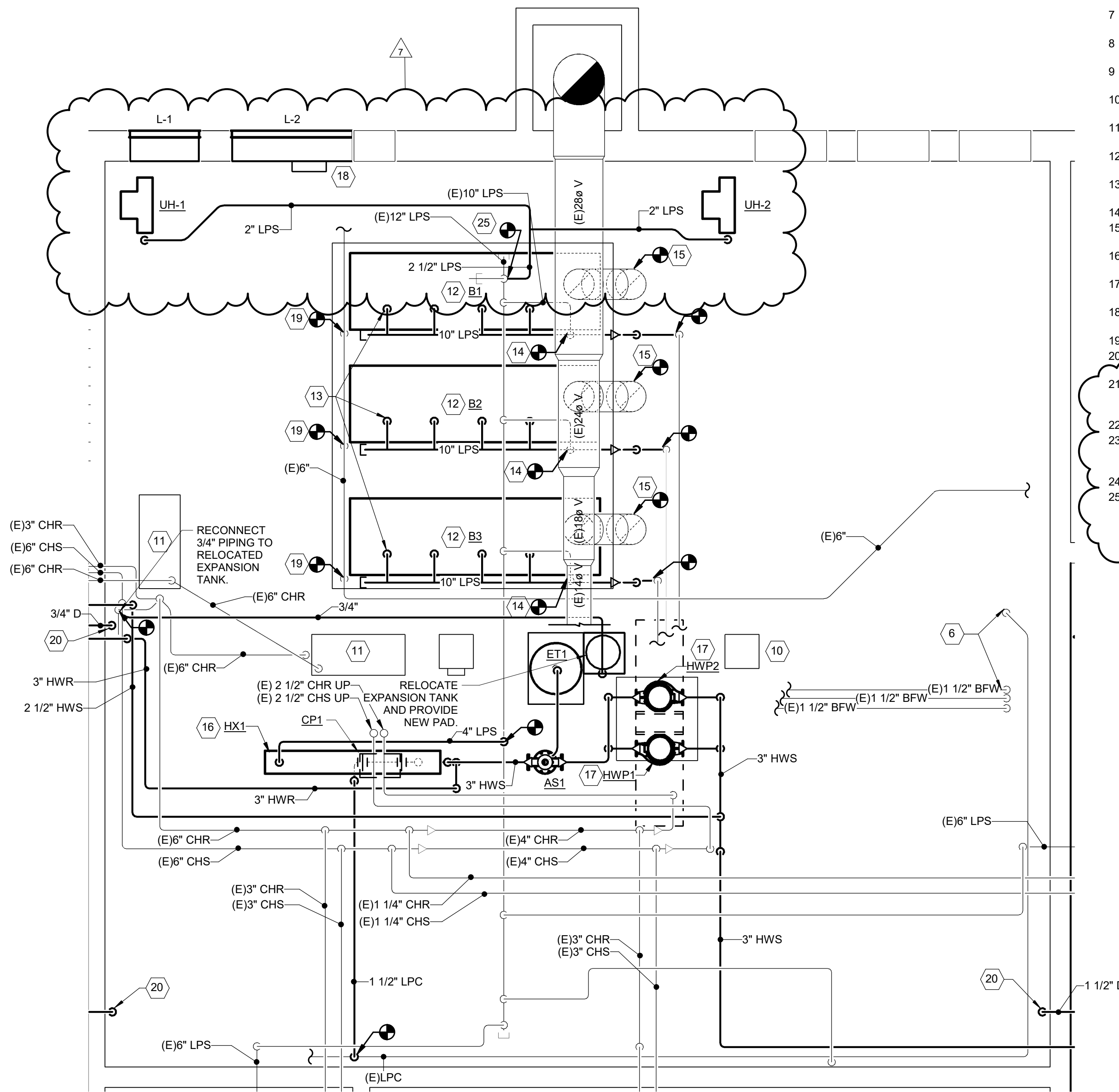
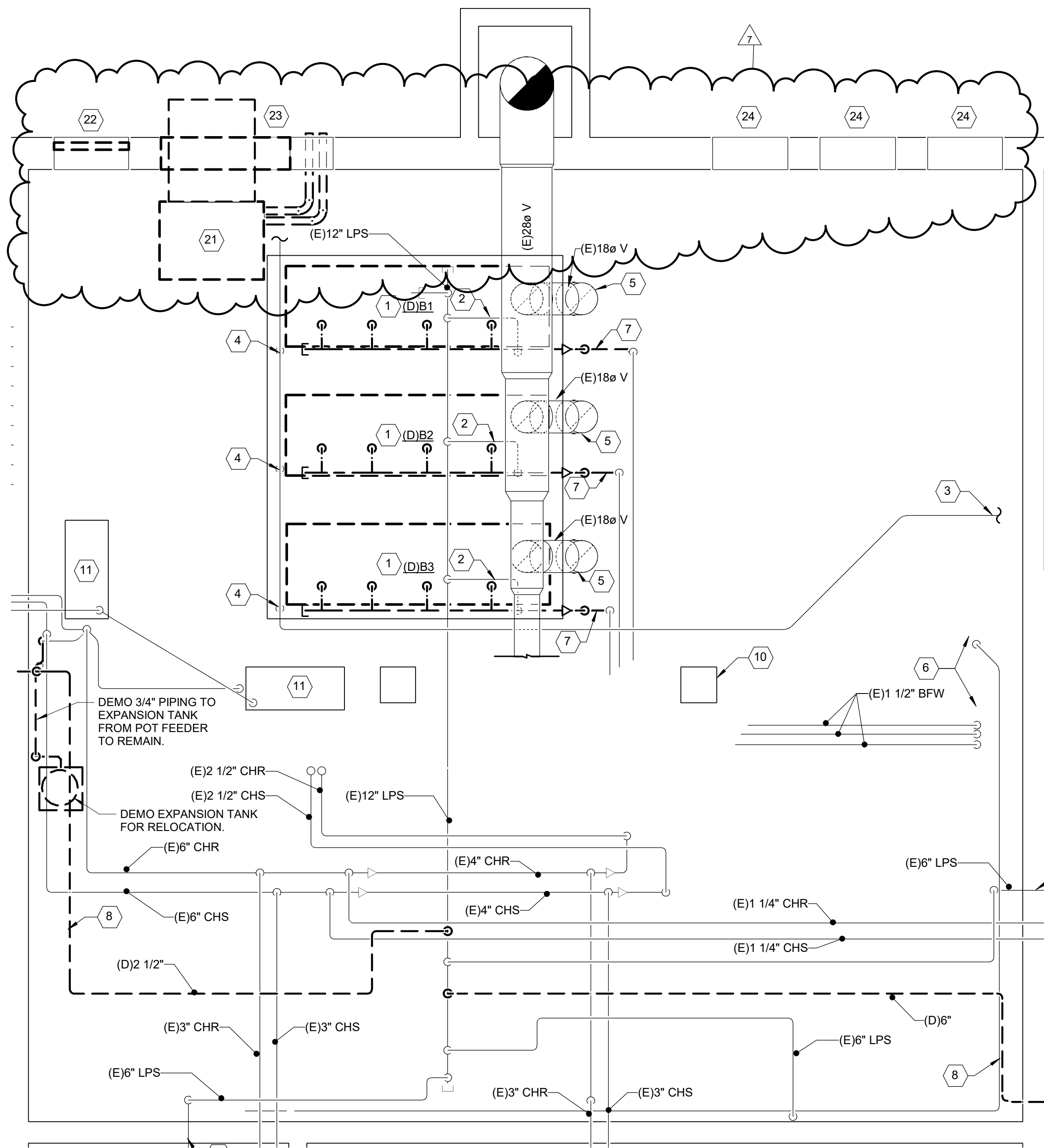
- Added electrical connections for unit heaters UH-1 and UH-2.
- Added keynote E94.

End of Request for Proposal

- Please acknowledge receipt of transmitted items.
- Return transmitted items to Emboss Design.

END

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF PCA ARCHITECTURE, P.C., AND IS NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT, WITHOUT THE WRITTEN AUTHORIZATION OF PCA ARCHITECTURE, P.C.. COPYRIGHT 1986-2022. PCA ARCHITECTURE, P.C., ALL RIGHTS RESERVED.



KEYNOTES

- 1 DEMO CAST IRON SECTIONAL STEAM BOILER. COORDINATE SYSTEM SHUTDOWN WITH SCHOOL STAFF.
- 2 INDIVIDUAL 10" STOP VALVES AND PIPING TO BOILERS TO REMAIN.
- 3 6" NATURAL GAS PIPING EXISTING TO REMAIN.
- 4 DEMO NATURAL GAS TO BOILER FROM EXISTING 4" DROP
- 5 DEMO FLUE PIPE FROM BOILER AS REQUIRED FOR BOILER REMOVAL. EXISTING FLUE PIPE, BAROMETRIC DAMPER, AND HEADERED FLUE TO CHIMNEY TO REMAIN.
- 6 EXISTING FEEDWATER PUMPS AND BOILER FEED TANK IN THIS AREA ARE EXISTING TO REMAIN.
- 7 DEMO STEAM PIPING AND FEEDWATER PIPING AS REQUIRED FOR BOILER REMOVAL.
- 8 LPS SERVING ADMIN BUILDING TO BE REMOVED. REFER TO DEMO FLOOR PLANS.
- 9 EXISTING STEAM PIPING TO TUNNELS SERVING OTHER BUILDINGS EXISTING TO REMAIN.
- 10 WATER TREATMENT SYSTEM, PIPING, AND VALVING IN THIS AREA IS EXISTING TO REMAIN.
- 11 VARIABLE PRIMARY CHILLED WATER PUMPS ARE EXISTING TO REMAIN.
- 12 INSTALL NEW BOILER ON EXISTING CONCRETE PAD.
- 13 5" LPS CONNECTION TO BOILER (TYPICAL OF 4) TO 10" LPS HEADER.
- 14 RECONNECT 10" LPS TO NEW BOILER HEADER.
- 15 RECONNECT NEW 18" FLUE CONNECTION TO EXISTING FLUE.
- 16 NEW STEAM TO HOT WATER HEAT EXCHANGER ON SUPPORT. REFER TO DETAILS.
- 17 NEW HEATING HOT WATER PUMPS ON EXISTING CONCRETE PAD. REFER TO DETAILS.
- 18 PROVIDE NEW BOILER CONTROL PANEL FOR BOILER SEQUENCING.
- 19 RECONNECT TO 4" NATURAL GAS PIPING.
- 20 INDIRECT CONDENSATE PIPING TO NEAREST FLOOR DRAIN. MAINTAIN MINIMUM 2" AIR GAP.
- 21 REMOVE EXISTING MAKEUP AIR UNIT, ASSOCIATED LOUVER, FLUE, GAS PIPING AND ELECTRICAL WIRING IN ITS ENTIRETY.
- 22 REMOVE EXISTING ACCESS DOOR.
- 23 REMOVE 6 FT SECTION OF METAL PANEL TO INSTALL NEW LOUVER. METAL PANEL USED FOR EXISTING PENETRATIONS TO REMAIN.
- 24 EXISTING LOUVER TO REMAIN.
- 25 TAP NEW 2 1/2" PIPE INTO EXISTING PIPE USED FOR TEMPORARY BOILER CONNECTION AND ROUTE TO UNIT HEATERS. TEMPORARY BOILER CONNECTION TO REMAIN FOR FUTURE USE.



EmbossDesign.com 906 Monmouth St.
(859)431-8612 Newport, KY 41071



www.cmta.com 5455 Rings Rd.
Suite 450
(614)992-1500 Dublin, OH 43017

HOLMES CAMPUS

2500 Madison Ave.
Covington, KY 41014
BG #23-062
Covington Ind. Public Schools

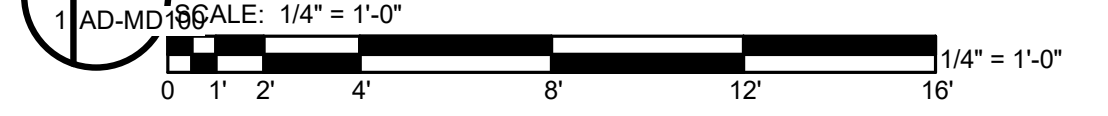
| NO. | DATE | DESCRIPTION |
|-----|------------|------------------------|
| 1 | 09/29/2023 | PERMIT & BIDDING |
| 4 | 05/10/2024 | RF#37 - HX1 LPC |
| 5 | 05/16/2024 | CHANGE DIRECTIVE NO. 5 |
| 7 | 2024.11.04 | RF# NO. 1 |

HVAC ENLARGED PLANS

22-090

AD-M301

1 HVAC ENLARGED DEMO PLAN - ADMIN - LOWER LEVEL - BOILER ROOM



2 HVAC ENLARGED NEW WORK PLAN - ADMIN - LOWER LEVEL - BOILER ROOM



UNIT HEATER SCHEDULE - STEAM

| MARK | MANUFACTURER | MODEL # | CFM | HEATING CAPACITY (MBH) | EAT (°F) | LAT (°F) | STEAM PRESSURE (PSI) | ELECTRICAL | | | REMARKS |
|------|--------------|---------|------|------------------------|----------|----------|----------------------|------------|---------|-------|---------|
| | | | | | | | | FAN HP | VOLTAGE | PHASE | |
| UH-1 | MODINE | HC-193 | 2900 | 211.6 | 50 °F | 116 °F | 3 | 0.33 | 120 V | 1 | ALL |
| UH-2 | MODINE | HC-193 | 2900 | 211.6 | 50 °F | 116 °F | 3 | 0.33 | 120 V | 1 | ALL |

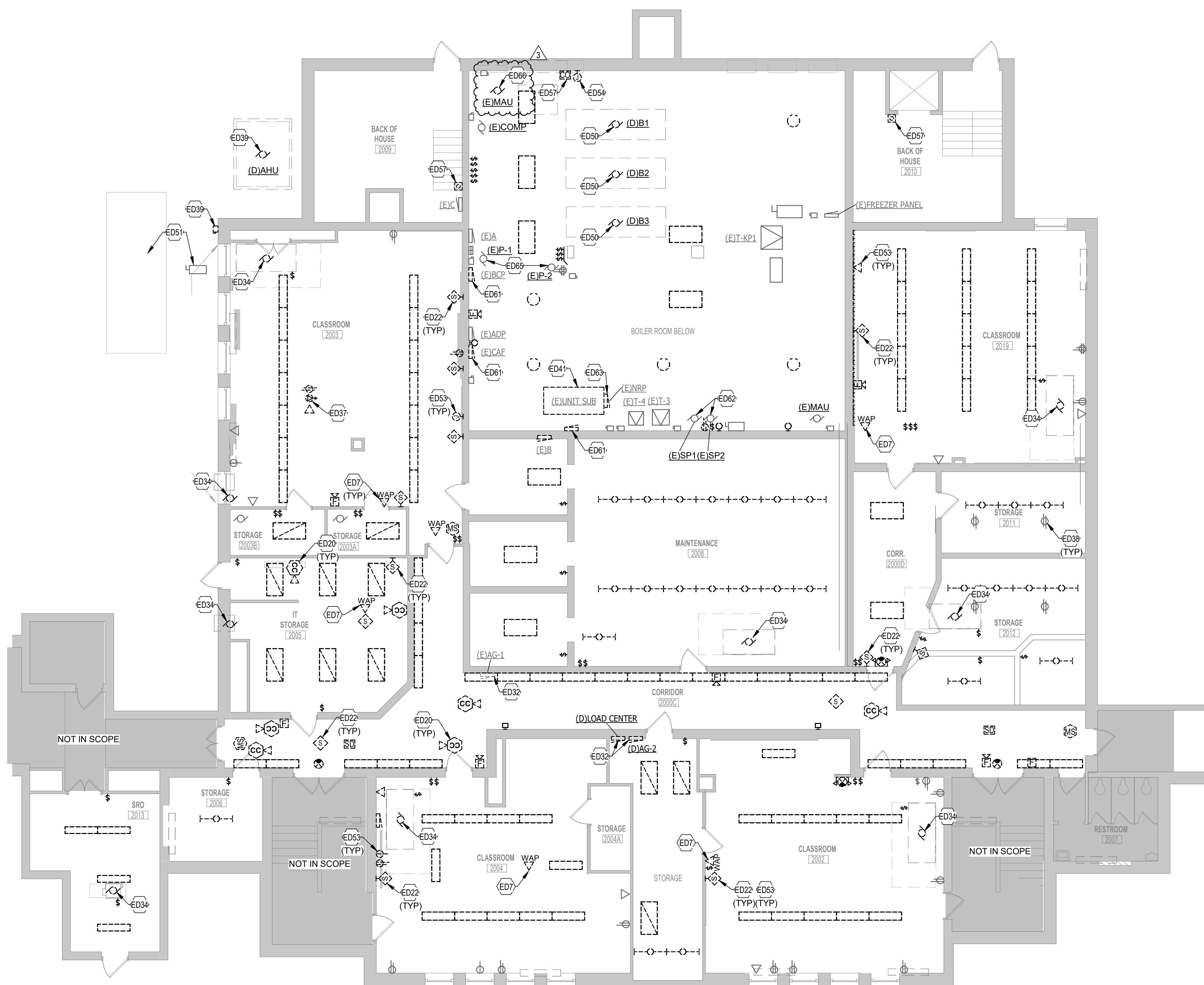
- REMARKS:**
1. SUSPENDED HORIZONTAL UNIT HEATER.
 2. MOUNT TOP OF UNIT 12" BELOW INTAKE LOUVERS.
 3. MOUNT THERMOSTAT 5'-0" AFF BELOW INTAKE LOUVERS. CONTROL HEATERS TO MAINTAIN TEMPERATURE OF 50° F.
 4. ROUTE 3/4" CONDENSATE TO NEAREST LOW PRESSURE CONDENSATE RETURN LINE.

LOUVER SCHEDULE

| MARK | MANUFACTURER | MODEL # | SERVICE | DEPTH (IN) | CONSTRUCTION | WIDTH (IN) | HEIGHT (IN) | FREE AREA | REMARKS |
|------|--------------|---------|---------|------------|--------------|------------|-------------|-----------|---------|
| L-1 | POTTORFF | ECD-545 | INTAKE | 5 | ALUMINUM | 42 | 48 | 6.20 SF | 1,2,3 |
| L-2 | POTTORFF | ECD-545 | INTAKE | 5 | ALUMINUM | 72 | 58 | 13.50 SF | 1,2 |

- REMARKS:**
1. PROVIDE WITH BIRD SCREEN.
 2. FREE AREA LISTED IS A MINIMUM. ALTERNATE LOUVER SHALL MEET OR EXCEED THIS FREE AREA.
 3. PROVIDE AS A HINGED LOUVER.

PRINT DATE: ???????



1 LOWER LEVEL - ADMIN BUILDING - ELECTRICAL DEMOLITION PLAN
 SCALE: 1/8" = 1'-0"
 0 2 4 8 16 24 32

GENERAL NOTES (DEMOLITION):

- A. DOTTED LINES INDICATE ITEMS FOR REMOVAL (UON) AND GRAY SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- B. DEVICES INDICATED WITH AN "R" SHALL BE RELOCATED. REMOVE, PROTECT, AND REINSTALL IN NEW LOCATION INDICATED ON NEW WORK PLANS. INTERCEPT AND EXTEND ALL EXISTING CABLEING TO NEW LOCATION. CLEAN AND RE-LAMP RELOCATED LUMINAIRES.
- C. THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CIRCUITS SHALL REMAIN IN "PRE-DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL PANELS AFFECTED.
- D. LOCATIONS OF DEVICES, CONNECTIONS, ETC., INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPOSING TO DO ANY PART OF THE WORK INDICATED HEREON SHALL VISIT THIS SITE AND DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPOSES.
- E. REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES / FIXTURES / ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (UON). CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING WALLS, FLOORS OR CEILINGS WHERE DEVICES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR TO RECEIVE NEW FINISHES - SEE ARCHITECTURAL PLANS).
- F. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.
- G. COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED WITH THEIR EQUIPMENT.
- H. PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED.
- I. CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILINGS AS REQUIRED WHERE DEVICES ARE BEING REMOVED OR INSTALLED.
- J. UNUSED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED IN ACCORDANCE WITH NEC REQUIREMENTS.
- K. EXISTING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRUCTION SHALL BE RELOCATED TO PERMIT INSTALLATION OF DEVICES AND EQUIPMENT SHOWN ON PLANS.
- L. CONTRACTOR SHALL SEAL ALL EXISTING AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- M. ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW TYPE-WRITTEN PANEL DIRECTORIES AND INSERT SLEEVES. PANEL DIRECTORIES SHALL NOT USE ROOM NAMES OR NUMBERS FROM THESE DRAWINGS. DIRECTORIES SHALL BE DETAILED AND COORDINATED WITH OWNER'S SUITE NUMBERS, FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION DESIGNATIONS, ETC. UNUSED BREAKERS SHALL BE IN OFF POSITION.

KEYNOTES

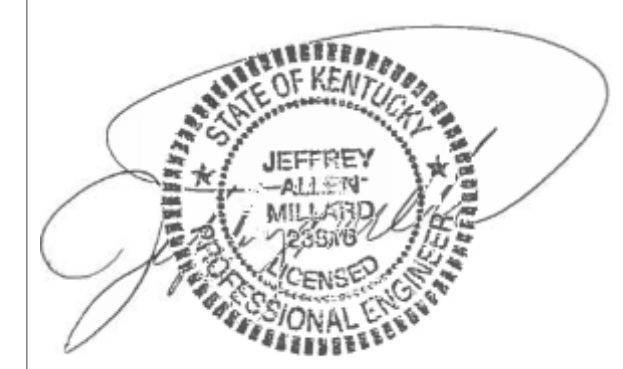
- ED7 REMOVE EXISTING WIRELESS ACCESS POINT. PROTECT DURING CONSTRUCTION FOR REINSTALLATION DURING NEW WORK. REFER TO NEW WORK PLANS FOR NEW DEVICE LOCATION.
- ED20 REMOVE EXISTING SECURITY CAMERA. PROTECT DURING CONSTRUCTION FOR REINSTALLATION DURING NEW WORK. REFER TO NEW WORK PLANS FOR NEW DEVICE LOCATION.
- ED22 REMOVE EXISTING SPEAKER IN THIS SPACE. PROTECT DURING CONSTRUCTION FOR REINSTALLATION IN SAME LOCATION DURING NEW WORK.
- ED32 DEMOLISH EXISTING PANELBOARD. MAINTAIN EXISTING BRANCH CIRCUITS FOR INSTALLATION IN NEW PANELBOARD IN SAME LOCATION. REFER TO PANELBOARD REPLACEMENT DETAIL FOR ADDITIONAL INFORMATION.
- ED34 DISCONNECT EXISTING MECHANICAL EQUIPMENT FOR REMOVAL BY M.C. DEMOLISH BRANCH CIRCUIT BACK TO LAST ACTIVE DEVICE OR SOURCE AND LABEL AS SPARE IN PANELBOARD.
- ED37 REMOVE EXISTING PROJECTOR, CEILING MOUNTED RECEPTACLE, AND CEILING MOUNTED DATA DROP. PROTECT DURING CONSTRUCTION FOR REINSTALLATION DURING NEW WORK. REFER TO NEW WORK PLANS FOR NEW DEVICE LOCATION.
- ED38 EXISTING CORD REEL TO REMAIN.
- ED39 DISCONNECT EXISTING AIR HANDLING UNIT TO BE REMOVED BY M.C. DEMOLISH EXISTING DISCONNECT AND FEEDER BACK TO SOURCE AND LABEL AS SPARE IN PANELBOARD.
- ED41 DEMOLISH EXISTING ELECTRICAL EQUIPMENT IN THIS LOCATION. MAINTAIN EXISTING FEEDERS SERVED FROM THIS EQUIPMENT AND RECONNECT TO NEW ELECTRICAL EQUIPMENT IN THIS SPACE. REWORK EXISTING FEEDERS AS REQUIRED TO SERVE NEW EQUIPMENT LOCATIONS. REFER TO NEW WORK PLANS FOR ADDITIONAL INFORMATION. COORDINATE PHASING OF WORK AND ANY NECESSARY DOWNTIME WITH OWNER. PROVIDE TEMPORARY POWER AS REQUIRED DURING CONSTRUCTION TO ACCOMMODATE EXTENDED OUTAGES.
- ED50 DISCONNECT EXISTING BOILER TO BE REMOVED BY OTHERS.
- ED51 EXISTING CHILLER AND ASSOCIATED DISCONNECT TO REMAIN.
- ED53 DEMOLISH EXISTING DEVICES AND COVERPLATES ON TEACHING WALL. EXTEND EXISTING BACKBOX TO ACCOMMODATE NEW FURRED OUT WALL IN THIS SPACE. REPLACE DEVICES AND COVER PLATES.
- ED54 DISCONNECT EXISTING BOILER CONTROL PANEL TO BE REMOVED BY OTHERS. MAINTAIN EXISTING BRANCH CIRCUIT TO SERVE NEW BOILER CONTROL PANEL.
- ED57 EXISTING EMERGENCY BOILER SHUTOFF SYSTEM TO BE REPLACED. DEMOLISH EXISTING EMERGENCY SHUTOFF PUSHBUTTON, CONTACTOR AND CARBON MONOXIDE DETECTOR. MAINTAIN EXISTING BRANCH CIRCUIT SERVING EXISTING CONTACTOR & PUSHBUTTON TO SERVE NEW DEVICE IN SAME LOCATION.
- ED61 EXISTING PANELBOARD TO BE DEMOLISHED.
- ED62 EXISTING SUMP PUMPS TO REMAIN SERVED FROM PANELBOARD TO BE DEMOLISHED. DEMOLISH EXISTING FEEDERS AND PROVIDE NEW AS CALLED OUT ON NEW WORK PLANS. REFER TO SHEET AD-E201 FOR ADDITIONAL INFORMATION.
- ED63 DEMOLISH EXISTING PANELBOARD. EXISTING FEEDERS SERVING EXISTING PANEL KP ON FLOOR ABOVE TO REMAIN. PANEL KP SHALL BE SERVED FROM NEW SWITCHBOARD AD-LDP. REWORK EXISTING FEEDERS AS REQUIRED TO ACCOMMODATE NEW EQUIPMENT LOCATION.
- ED65 EXISTING PUMPS TO REMAIN SERVED FROM ELECTRICAL EQUIPMENT TO BE DEMOLISHED. MAINTAIN EXISTING FEEDER AND FEEDER FROM NEW EQUIPMENT LOCATION AS CALLED OUT ON NEW WORK PLANS.
- ED66 DISCONNECT EXISTING MAKE-UP AIR UNIT TO BE REMOVED BY OTHERS. DEMOLISH EXISTING DISCONNECT AND REMOVE EXISTING BRANCH CIRCUIT BACK TO SOURCE.



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 Suite 450
 (614)992-1500 Dublin, OH 43017



HOLMES CAMPUS

2500 Madison Ave.
 Covington, KY 41014
 BG #23-062
 Covington Ind. Public Schools

| NO. | DATE | DESCRIPTION |
|-----|------------|------------------------|
| 1 | 09/29/2023 | PERMIT & BIDDING |
| 2 | 02/02/2024 | CHANGE DIRECTIVE NO. 3 |
| 3 | 2024-11-04 | RFP NO. 1 |
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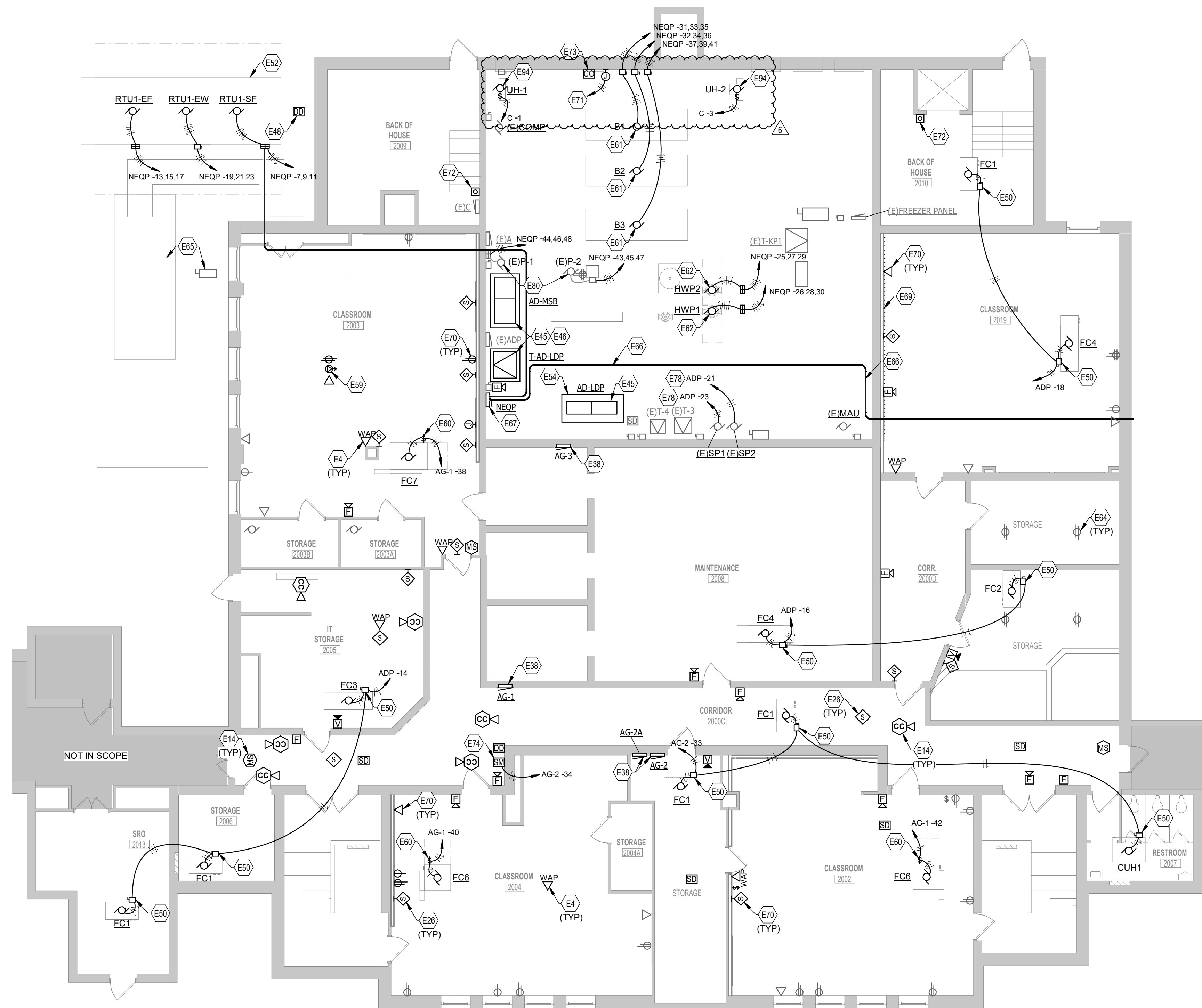
ADMIN BUILDING LOWER LEVEL DEMOLITION PLAN

22-090

AD-ED101

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PRINT DATE: ????????



1 LOWER LEVEL - ADMIN BUILDING - POWER & SYSTEMS PLAN
 SCALE: 1/8" = 1'-0"

GENERAL NOTES (POWER):

- A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
- B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 910.15(B)(3), AND UPSIZE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING.
- D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).
- E. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

KEYNOTES

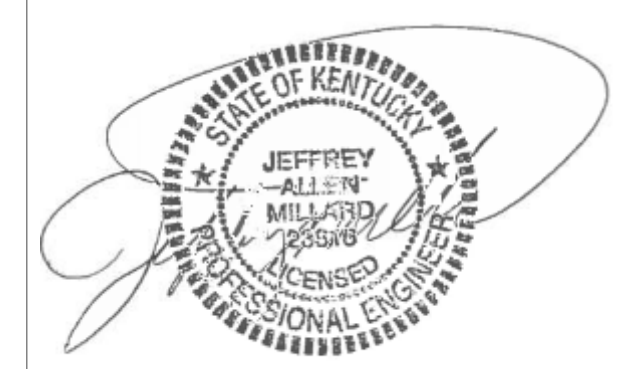
- E4 REINSTALL EXISTING WIRELESS ACCESS POINT IN THIS LOCATION. REWORK CABLING AS NEEDED TO ACCOMMODATE NEW EQUIPMENT LOCATION.
- E14 REINSTALL EXISTING SECURITY DEVICE IN THIS LOCATION AND CONNECT TO EXISTING SECURITY SYSTEM. REWORK WIRING AS NEEDED TO ACCOMMODATE NEW EQUIPMENT LOCATION.
- E26 REINSTALL EXISTING SPEAKER IN THIS LOCATION.
- E38 PROVIDE NEW PANELBOARD IN THIS LOCATION. REINSTALL EXISTING BRANCH CIRCUITS IN NEW PANELBOARD. REFER TO PANELBOARD SCHEDULES AND PANEL REPLACEMENT DETAIL FOR ADDITIONAL INFORMATION.
- E45 WIRE AND INSTALL NEW ELECTRICAL EQUIPMENT FURNISHED BY OWNER. E.C. SHALL RECEIVE DELIVERY OF OWNER PURCHASED EQUIPMENT AND INSTALL. PROVIDE DRIP PAN OVER NEW ELECTRICAL EQUIPMENT.
- E46 PROVIDE NEW 4" CONCRETE HOUSEKEEPING PAD FOR NEW ELECTRICAL EQUIPMENT.
- E48 PROVIDE DUCT SMOKE DETECTOR IN RETURN DUCT FOR SHUT DOWN OF UNIT UPON DETECTION OF SMOKE. COORDINATE MOUNTING WITH M.C.
- E50 WIRE AND INSTALL NEW FAN COIL UNIT FURNISHED BY M.C. PROVIDE 30A FUSIBLE DISCONNECT SWITCH FUSED AT 15A.
- E52 WIRE AND INSTALL NEW MECHANICAL EQUIPMENT AND VFD WITH INTEGRAL DISCONNECT FURNISHED BY M.C.
- E54 UTILIZE EXISTING CONCRETE EQUIPMENT PAD TO SERVE NEW EQUIPMENT IN THIS LOCATION.
- E59 REINSTALL PROJECTOR AND ASSOCIATED CEILING MOUNTED RECEPTACLE AND DATA IN NEW CEILING. RECONNECT TO EXISTING BRANCH CIRCUIT.
- E60 WIRE AND INSTALL NEW FAN COIL UNIT FURNISHED BY M.C. WITH INTEGRAL DISCONNECT.
- E61 WIRE AND INSTALL NEW BOILER IN THIS LOCATION FURNISHED BY M.C. CONNECT TO NEW BOILER CONTROL PANEL. PROVIDE NEW HEAVY DUTY NEMA 1 RATED 30A NON-FUSIBLE DISCONNECT.
- E62 WIRE AND INSTALL HOT WATER PUMP AND ASSOCIATED VFD WITH INTEGRAL DISCONNECT FURNISHED BY M.C. PROVIDE UNISTRUT AS REQUIRED FOR RACK MOUNTING VFD FURNISHED BY OTHERS.
- E64 EXISTING CORD REEL TO REMAIN.
- E65 EXISTING CHILLER AND ASSOCIATED DISCONNECT TO REMAIN.
- E66 CONDUIT PATHWAY FROM BOILER ROOM TO NEW ROOFTOP EQUIPMENT. REFER TO SHEET AD-E203 FOR CONTINUATION.
- E67 PROVIDE NEW PANELBOARD IN THIS LOCATION. REFER TO SINGLELINE DIAGRAM AND PANELBOARD SCHEDULES FOR ADDITIONAL INFORMATION.
- E68 REINSTALL EXISTING PLUGMOLD IN SAME LOCATION ON NEW FURRED OUT WALL.
- E70 PROVIDE NEW DEVICES AND COVERPLATES ON THIS WALL IN EXISTING BACKBOX. EXTEND EXISTING BACKBOX TO ACCOMMODATE NEW FURRED OUT WALL IN THIS SPACE. DEVICES SHALL BE FLUSH WITH NEW FURRED OUT WALL.
- E71 WIRE AND INSTALL NEW BOILER CONTROL PANEL FURNISHED BY M.C. UTILIZE EXISTING BRANCH CIRCUIT PREVIOUSLY SERVING EXISTING BOILER CONTROL PANEL.
- E72 PROVIDE NEW EMERGENCY BOILER SHUTDOWN CONTACTOR WITH PUSHBUTTON IN THIS LOCATION. UTILIZE EXISTING BRANCH CIRCUIT PREVIOUSLY SERVING EXISTING EMERGENCY SHUTDOWN DEVICE IN THIS LOCATION. REFER TO DETAIL C SHEET AD-E502 FOR ADDITIONAL INFORMATION.
- E73 PROVIDE NEW CARBON MONOXIDE DETECTOR WITH SOUNDER BASE. DEVICE SHALL SOUND AND SEND TROUBLE SIGNAL TO FIRE ALARM CONTROL PANEL UPON DETECTION OF CARBON MONOXIDE.
- E74 WIRE AND INSTALL CONNECTION FOR SMOKE DAMPER FURNISHED BY M.C. PER MANUFACTURER RECOMMENDATIONS. PROVIDE DUCT SMOKE DETECTOR WITHIN 5FT OF DAMPER FOR ACTUATION OF DAMPER UPON DETECTION OF SMOKE. COORDINATE EXACT MOUNTING LOCATION WITH M.C.
- E78 PROVIDE NEW BREAKER IN EXISTING SPACE IN EXISTING PANEL ADP TO SERVE NEW SUMP PUMP. PROVIDE NEW CONNECTION TO EXISTING SUMP PUMPS FROM NEW BREAKER. MATCH EXISTING CONDUCTOR SIZES.
- E80 UTILIZE NEW 60A-3P BREAKER IN NEW PANEL NEOP TO SERVE EXISTING PUMP. EXTEND EXISTING BREAKER AS REQUIRED TO ACCOMMODATE NEW ELECTRICAL EQUIPMENT LOCATION. PROVIDE ELECTRICAL CONNECTION TO NEW UNIT HEAT IN THIS LOCATION.



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 (614)992-1500 Dublin, OH 43017



HOLMES CAMPUS

2500 Madison Ave.
 Covington, KY 41014
 BG #23-062
 Covington Ind. Public Schools

| NO. | DATE | DESCRIPTION |
|-----|------------|------------------------|
| 1 | 09/29/2023 | PERMIT & BIDDING |
| 2 | 10/23/2023 | ADDENDUM #2 |
| 3 | 12/15/2023 | CHANGE DIRECTIVE NO. 1 |
| 4 | 02/02/2024 | CHANGE DIRECTIVE NO. 3 |
| 5 | 05/16/2024 | CHANGE DIRECTIVE NO. 5 |
| 6 | 2024.11.04 | RFP NO.1 |

ADMIN BUILDING LOWER LEVEL POWER & SYSTEMS PLAN

22-090

AD-E201

Schrudde & Zimmerman
inc.

GENERAL CONTRACTORS

TELEPHONE (859) 331-3160

1671 PARK ROAD
SUITE 11
FT. WRIGHT, KENTUCKY 41011

November 26, 2024

EMBOSS DESIGN

Attention: Mark Perry
906 Monmouth Street
Newport, KY 41071

Re: **HOLMES CAMPUS VENTILATION**
Change Request #15 – Chemical Treatment
Domestic Hot Water Storage Tank Replacement

Dear Mark,

Per your request, the following is the cost to furnish and install chemical treatment equipment (3) auto blowdown valves for boilers and pipe to drain cooler, chemical pump, LMI batch tank, SS Agitator, and injector quill and valve; and to remove & dispose of (3) DHW storage tanks; to provide 6 months of service for chemical treatment and service of boiler; to furnish and install (3) new storage tanks of similar capacity as the existing (includes permits as required):

| | |
|---|-------------------|
| Hudson Piping | \$8,708.00 |
| Chardon – Service | \$4,184.00 |
| Blau Mechanical – replace storage tanks | \$26,800.00 |
| 3.6% Bond & Insurance | <u>\$1,429.00</u> |

| | |
|-----------------------|--------------------|
| Total Proposal | \$41,121.00 |
|-----------------------|--------------------|

Respectfully Submitted,

Sherry Seger

Schrudde & Zimmerman, Inc.

HPI 1

Hudson Piping, Inc.

836 Walnut Street
Dayton, Kentucky 41074
(859) 581-7473
(859) 581-7575 (fax)

November 13, 2024

Schrudde & Zimmerman Inc.
1671 Park Road, Suite #11
Ft. Wright, KY 41011

Attn: Sherry Seger

Ref: Holmes Campus Renovations
Boiler Chemical Treatment Equipment
Hudson Piping Proposal 1879-Q

Dear Sherry,

Hudson Piping Inc. respectfully requests a change to our contract for:

- Below is pricing as requested to provide and install chemical treatment equipment as outlined below:
 - (3) automatic blowdown valves for boilers and pipe to drain cooler (near heat exchanger)
 - Chemical pump
 - LMI batch tank
 - SS Agitator
 - Provide and install injector quill and valve
- All service, testing, chemical, etc is not included in this quote
- See attached breakdown

Total of the Proposal..... \$8,708.⁰⁰

If you have any questions, please let us know.

Respectfully submitted,



Randy Hudson
Hudson Piping Inc.
rhudson@hudsonpiping.com
859-581-7473

ESTIMATE SUMMARY

11/13/2024

BOILER CHEM FEED
HOLMES CHAPMAN

| | | |
|--|------------------|-------------------------|
| A. LABOR: (from T.O. Sheets - straight time only) | | TOTAL |
| worker class | Pipefitter 20.00 | \$ 104.21 = \$ 2,084.20 |
| | hours x rate = | |
| worker class | Supervision - | \$ 104.21 = \$ - |
| | hours x rate = | |
| A. TOTAL LABOR | | \$ 2,084.20 |

| | | |
|--------------------------------------|---------------------------|-----------|
| B. MATERIALS from list abover | PVF (from Takeoff Sheets) | \$ 516.00 |
| | EXPENDIBLES 0.03 | \$ 15.48 |

| | | |
|-----------------------------|---|-----------------|
| C. EQUIPMENT RENTALS | | |
| | 0 | x \$ - = \$0.00 |
| | 0 | x \$ - = \$0.00 |

B. & C. TOTAL EQ & MATERIAL \$ 531.48

TAX (on B & C) 6% \$ 31.89

D. OWNED EQUIPMENT 0 x \$ 200.00 = \$ -

hour,day,week x rate =

E. TRUCKING: 1 x \$ 85.00 = \$ 85.00

hour,day,week x rate =

Subtotal (A,B,C,D & E): \$ 2,732.57

F. OVERHEAD: @ 0.0% (on items A,B,C,D,& E) \$ -

PROFIT: @ 10.0% (on items A,B,C,D,E, & F) \$ 273.26

Subtotal (A thru F): \$ 3,005.83

| | |
|-------------------------|---------------|
| G. SUBCONTRACTOR | AMOUNT |
| CHARDON CHEM | \$ 5,184.00 |
| | |
| | |

Subtotal (G) \$ 5,184.00

H. SUBCONTRACTOR MARKUP 10.0% \$ 518.40

Subtotal \$ 5,702.40
(markup is + or < 10%)

TOTAL COST ((A thru F) plus G and H): \$ 8,708.23

I. MISCELLANEOUS ITEMS (allowable @ cost only)

| | | | |
|--|-------|--------|--------|
| 1. Bond extension Total | 0.00% | Cost x | \$0.00 |
| 2. Fees for permits, licenses, etc. | | | \$0.00 |

TOTAL COST (I): \$ -

TOTAL COST (A thru F) + (G and H) + (I): \$8,708.23

We also recommend that a test port be put on the condensate return to enable us the ability to test the condensate monthly as a part of our service.

Chardon additionally recommends that you invest in a dual tank water softener to help protect your boiler from scale build up. Having a water softener will allow you to run the boiler at higher conductivity levels and save additional water consumption and energy costs.

A water softener is the most important mechanical component you need to help prevent scale and excessive energy costs.

We also recommend adding piping that allows you to get back as much condensate as possible. I have the monthly costs at 70% return at 180 degrees. This has made it pretty expensive for chemicals. If the condensate return is less than 70% that will only create the need to charge above what we have quoted. If you can get back more condensate and raise the feedwater temperature to it would decrease your total service and chemical by almost \$1,000.00 annually while saving on fuel and water.

1. SERVICE TECHNICIAN/SERVICE TRUCK

A service technician (not a salesperson) in a fully equipped service truck will service the boiler at Holmes, November- April. Our service technician's primary objectives are to keep the system clean, properly treated, and operating at maximum efficiency. We have a fully stocked regional warehouse and can provide same-day emergency service.

In addition, his service truck carries replacement parts for more responsive repair or replacement of broken water treatment equipment. As part of our monthly service, our service technician monitors the chemical pump and will adjust as necessary.

2. SERVICE ANALYSIS

On each monthly service call our technician will perform the following diagnostic tests and provide an iReport listing test results and service actions.

Boiler

Sulfite

Total Hardness

Inhibitor

Specific Conductance

M Alkalinity

OH Alkalinity

pH

Iron

Chlorides

Cycles

Feedwater Tank

Specific Conductance
Iron
pH
Sulfite

Makeup Water

Specific Conductance
Calcium Hardness
M Alkalinity
Chlorides

Condensate

Specific Conductance
Iron
pH
Chlorides
Sulfite

He will maintain proper chemical levels to assure consistent operation of the boiler. Consistency will be indicated and verified via the extensive iReports we provide on each service call.

3. GUARANTEED SERVICE

Chardon will provide service to your facility November-April; guaranteed.

4. PROGRAM PRICING

Will be supplied on a separate proposal

The following equipment is necessary to implement Chardon's program. The costs in red are a one-time cost for startup.

Boiler

| | |
|---|------------|
| 8. Chemical Pump | \$608.00 |
| 9. LMI batch tank | \$687.00 |
| 10. SS Agitator | \$539.00 |
| 11. Injector Quill | \$215.00 |
| 12. Field Adjustable Percentage Cycle Time Switch, 20A, SPST (120-240V) \$335 x 3 | |
| 13. 1/2" GLOBE VALVE 600LB FLOW CONTROL | \$260.00x3 |
| 14. 1/2" SKIMMER BLOWDOWN SOLENOID, 150 PSI | \$450.00x3 |

Total: \$5,184.00

COST SUMMARY

| | |
|--|------------|
| 1. One-time Chardon equipment investment | \$5,184.00 |
|--|------------|

Total \$5,184.00

While there is an initial investment required to implement Chardon's program, the benefits of clean and efficient systems, reduced maintenance costs, prolonged equipment life, and minimized energy consumption will pay for the investment many times over in the years to come.

Freight and tax is not included in the above pricing.

Please let me know if you have any questions or if I can provide any additional information.

Sincerely,

Aaron Norman

Aaron Norman
Chardon Labs
937-238-3826



ISO 9001 • An Employee Owned Company • www.chardonlabs.com • 800-848-9526

November 1, 2024
Holmes Covington School Building
2500 Madison Ave.
Covington, KY 41014

Thank you for the opportunity to provide you with a proposal for water treatment at the Holmes building.

To recap our previous discussions, Chardon Laboratories, Inc. is an ISO 9000 Certified Water Treatment Company. Superior **service** is what makes us different from every other water treatment company in this area. We are the only local water treatment company that GUARANTEES scale free systems (provided that the systems have the proper blowdown automation) and has a separate service department to provide unsurpassed service.

November-April our technician will thoroughly test the boilers, feedwater, condensate and softener. The technician will check and adjust as necessary the control equipment, handle all chemicals, provide detailed written service iReports, talk with and make recommendations (if needed) to you and even dispose of our empty chemical containers.

My product and equipment recommendations are based upon the following:

1. The information provided regarding the size and operation of the system
2. Analysis of the system and make-up water

In our conversations, we agreed that a desirable water treatment program should provide:

- A scale-free, corrosion-free system
- Monthly service with comprehensive testing and written reports
- Service, guarantees and recommendations designed to minimize energy consumption and prolong the life of the boiler equipment
- Boiler training for your staff

Water treatment is necessary for the boiler system to prevent mineral scale and corrosion.

- a. Mineral scale will form on the hottest surfaces in the boiler, act as an insulator, and decrease the efficiency of the boiler system. Scale formation can lead to costly replacements and waste fuel dollars. Your boiler will lose efficiency, and you will waste considerable energy dollars each year. 1/9" of scale will waste 16% of the boilers' annual energy bill.

Corrosion is the rusting or oxidation of metal surfaces within the system such as piping, valves, pumps, heat exchangers, etc.

Chardon has the expertise to provide you with the best service and guarantees in the water treatment industry. With consistent monitoring and accurate system evaluation, we will work with you and maintain clean, efficient, corrosion-free systems, thereby avoiding the extra costs of excessive energy bills, equipment repairs and downtime.

Although our service program is designed to minimize the amount of time you need to spend on water treatment, we believe that a working knowledge of our program and direct communications between our service department and you are vital to our mutual goal – clean, efficient, trouble-free systems. The following information outlines our program costs and recommendations:

Recommendations:

We would also recommend that the boiler be blown down daily by a staff member, but only to achieve the desired range of conductivity. This will cut down on water consumption and allow you to run the boiler at higher cycles. This will also lower your energy consumption because your feed water will not be the same temperature as city makeup water.

We recommend that the boiler conductivity be tested daily to help with necessary blowdown. We can provide daily log sheets with the proper ranges to ensure this is done correctly.

We also recommend that a test port be put on the condensate return to enable us the ability to test the condensate monthly as a part of our service.

Chardon additionally recommends that you invest in a dual tank water softener to help protect your boiler from scale build up. Having a water softener will allow you to run the boiler at higher conductivity levels and save additional water consumption and energy costs.

A water softener is the most important mechanical component you need to help prevent scale and excessive energy costs.

We also recommend adding piping that allows you to get back as much condensate as possible. I have the monthly costs at 70% return at 180 degrees. This has made it pretty expensive for chemicals. If the condensate return is less than 70% that will only create the need to charge above what we have quoted. If you can get back more condensate and

raise the feedwater temperature to it would decrease your total service and chemical by almost \$1,000.00 annually while saving on fuel and water.

1. SERVICE TECHNICIAN/SERVICE TRUCK

A service technician (not a salesperson) in a fully equipped service truck will service the boiler at Holmes, November- April. Our service technician's primary objectives are to keep the system clean, properly treated, and operating at maximum efficiency. We have a fully stocked regional warehouse and can provide same-day emergency service.

In addition, his service truck carries replacement parts for more responsive repair or replacement of broken water treatment equipment. As part of our monthly service, our service technician monitors the chemical pump and will adjust as necessary.

2. SERVICE ANALYSIS

On each monthly service call our technician will perform the following diagnostic tests and provide an iReport listing test results and service actions.

Boiler

Sulfite

Total Hardness

Inhibitor

Specific Conductance

M Alkalinity

OH Alkalinity

pH

Iron

Chlorides

Cycles

Feedwater Tank

Specific Conductance

Iron

pH

Sulfite

Makeup Water

Specific Conductance

Calcium Hardness

M Alkalinity

Chlorides

Condensate

Specific Conductance

Iron

pH

Chlorides

Sulfite

He will maintain proper chemical levels to assure consistent operation of the boiler. Consistency will be indicated and verified via the extensive iReports we provide on each service call.

3. GUARANTEED SERVICE

Chardon will provide service to your facility November-April; guaranteed.

4. PROGRAM PRICING

Chardon's guaranteed price is based on 70% condensate return at 180-degree feedwater temperature. If the condensate return is less or the feedwater temperature is lower than 180 degree feedwater temperature, Chardon reserves the right to discuss a pricing change. If you can up the temperature and capture more condensate, Chardon also will review to lower costs. The price for monthly service will be \$813.50 or \$4,881.00 annually for 6 months of service and chemical.

Tax is not included in the above pricing.

Please let me know if you have any questions or if I can provide any additional information.

Sincerely,

Aaron Norman

Aaron Norman
Chardon Labs
937-238-3826

1532 Russell St.
Covington, KY 41011

Phone: 859.291.3159
Fax: 859.581.3022
Mrabe@blaumech.com

BLAU MECHANICAL INC

November 21, 2024

Attn. Mr. Ken Mastin
Covington Independent Public Schools
25 E 7th St
Covington, KY 41011

RE: Holmes Campus - Administration Bldg
Domestic Hot Water Storage Tank Replacement

Dear Ken:

We are pleased to offer our proposal to replace the storage tanks at the above-referenced facility.

This to consist of the following:

- Remove and dispose off-site the (3) DHW storage tanks
- Furnish and install (3) new storage tanks of similar capacity as the existing
- Connect the new tanks to the existing piping system
- Necessary pipe and fittings as required
- Permits as required
- Labor to complete this installation
- Ky Sales Tax

This can be performed for the sum of Twenty-Six Thousand Eight Hundred Dollars (\$26,800.00). Equipment delivery is ten days after receipt of order, subject to prior sale.

If you should have any questions, please call.

Sincerely,
Joseph Salazar
Joseph Salazar
President