SECTION 00 91 12

ADDENDUM NUMBER 4

PARTICULARS

1.01 DATE: MARCH 1, 2022

1.02 PROJECT: PIERPONT VET TECH

1.03 OWNER: WV HIGHER EDUCATION

1.04 ARCHITECT: PICKERING ASSOCIATES

TO: PROSPECTIVE BIDDERS:

2.01 THIS ADDENDUM FORMS A PART OF THE CONTRACT DOCUMENTS AND MODIFIES THE ORIGINALPROCUREMENT DOCUMENTS DATED FEBRUARY 1, 2022, ADDENDUM NUMBER 1 DATED FEBRUARY 14, 2022, ADDENDUM NUMBER 2 DATED FEBRUARY 21, 2022 AND ADDENDUM NUMBER 3 DATED FEBRUARY 23. 2022, WITH AMENDMENTS AND ADDITIONS NOTED BELOW.

2.02 ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED IN THE BID FORM. FAILURE TO DO SO MAY DISQUALIFY THE BIDDER.

SPECIFICATIONS:

1. Form of Proposal: Replace with revised Form of Proposal attached to this Addendum – 5 pages.
2. Replace the following documents (which were partially illegible) with the revised documents, attached to this Addendum:
    a. Bid Bond
    b. Bid Bond Preparation Instructions
    c. State of WV Purchasing Affidavit
    d. Disclosure of Interested Parties to Contracts
    e. WV-72 Certified Drug-Free Workplace Report Coversheet
3. Section 01 50 00 – Temporary Facilities and Controls: Paragraph 1.11 Field Offices: Omit in its entirety, unless needed for contractor's daily use. Project meetings will be held in the adjacent Caperton Center.
4. Section 07 72 00 – Roof Accessories: Add Section 07 72 00, attached to this Addendum.
5. Section 10 51 13 – Metal Lockers: Paragraph 2.02.A. Clarification: Lockers shall be 12 inches wide.
6. Section 10 44 00 – Fire Protection Specialties: Paragraph 2.02.B.2: Revise Size to 10 pounds.
7. Section 23 09 24 – Digital Control System Points List: Add Section 23 09 24, attached to this Addendum.
8. Section 23 09 93 – Sequence of Operations for HVAC Controls: Replace in its entirety with revised Section 23 09 93, attached to this Addendum.

DRAWINGS:

1. See revisions shown bubbled on the following attached reissued 24 x 36 Drawings:
    a. Civil: C105 (Sanitary Service line tie-in information).
    b. Structural: S112 (Roof framing revision for roof hatch).
    c. Architectural: A111 & A302 (Addition of roof hatch & ladder in Storage Room 030).
    d. Electrical: E122, E130, E501, E600 & E601 (Misc. revisions).
2. Add attached 24 x 36 Electrical Drawing E123 – Site Power Plan Alt. No. 4 (light for Monument Sign).

3. Civil Drawings and Specifications: General Clarification Note: Follow all Geotechnical recommendations for over-excavation, engineered fill replacement and all subgrade preparations, typical. Refer to Geotechnical Report in the Project Manual.
4. Drawing A112 – Roof Plan: Clarification: Provide crickets on upper slope of roof hatch to direct water around roof hatch to drains. Revise location of walkway pads to extend from roof hatch to rooftop unit (same quantity of walkway pads will be required that are shown on roof plan). See attached Drawing A111 for roof hatch location.

CONTRACTOR QUESTIONS:

Q1: The site plans show the new sanitary service for the addition but does not show where it ties into the local utility service line. Can this information be provided?

A1: See attached Drawing C105 for information regarding tie-in to existing sanitary service line.

.

END OF SECTION

SECTION 00300 – FORM OF PROPOSAL

BID TO THE OWNER: Community and Technical College System of West Virginia
1018 Kanawha Boulevard, East, Suite 700
Charleston, WV 25301

PROJECT: RFB 22194
Pierpont Community & Technical College: Vet Tech Relocation

Bidder's Name: _____

The undersigned, hereinafter called "Bidder," being familiar with and understanding the Bidding Documents, and also having examined the site and being familiar with all local conditions affecting the Project, hereby proposes to furnish all labor, material, equipment, supplies and transportation, and to perform all Work in accordance with the Bidding and Contract Documents within the time set forth below for the sum of:

BASE BID: $ _____

_____

(Amount to be shown in both words and numbers. In the event of a difference between the written amount and the number amount, the written amount shall prevail.)

The Bidder, if successful and awarded a Contract, agrees that all Work is to be Substantially Complete within the below listed consecutive calendar days following receipt of Owner's written Notice to Proceed and agrees to achieve Final Completion within 30 consecutive calendar days thereafter.

CALENDAR DAYS: _____

_____

(All amounts to be shown in both words and numbers)

ALTERNATES:
The following Alternates may be added to the Base Proposal if selected by Owner. All work shown on drawings and/or specified is in Base Bid, except for such work specifically called to be an Alternate. Refer to Section 01230 - Alternates. (NOTE: In event of a discrepancy, amount in words shall govern.)

Alternate No. 1: All work associated with the construction of Resource Room 034.

Add: $ _____

_____

(Amount to be shown in both words and numbers)

Additional Calendar Days (if any) _____

_____

(All amounts to be shown in both words and numbers)

Alternate No. 2: All work associated with the enclosure under the existing canopy to create Hall 013, Offices 014, 015 and 016.

Add: $ _____

_____

(Amount to be shown in both words and numbers)

Additional Calendar Days (if any) _____

_____

(All amounts to be shown in both words and numbers)

Alternate No. 3: All work associated with the construction of Wash Rm. 032, Dry/Groom 033, and associated interior work in Hall 003 and Mech. 006.

Add: $ _____

_____

(Amount to be shown in both words and numbers)

Additional Calendar Days (if any) _____

_____

(All amounts to be shown in both words and numbers)

Alternate No. 4: All work associated with the construction of the Monument Sign in the northwest corner planting bed.

Add: $ _____

_____

(Amount to be shown in both words and numbers)

Additional Calendar Days (if any) _____

_____

RESPECTFULLY SUBMITTED:

SIGNATURE: _____ DATE: _____

Signature in Ink

NAME: _____ *Corporate Seal if Applicable*

Please Type or Print

TITLE: _____

BIDDERS NAME: _____
BIDDERS ADDRESS: _____

_____

_____

TELEPHONE: _____

EMAIL: _____
CONTRACTOR"S LICENSE NO.: _____

CONTRACTOR'S LICENSE

West Virginia Code §21-11-2 requires that all persons desiring to perform contractual work in West Virginia must be duly licensed. The West Virginia Contractor's Licensing Board is empowered to issue the contractor's license. Application for a contractor's license may be made by contacting the West Virginia Department of Labor, 1900 Kanawha Boulevard, East, Charleston, West Virginia 25305. Telephone: (304) 558-7890. West Virginia Code §21-11 requires any prospective Bidder to include the contractor's license number on their Bid. Successful Bidder will be required to furnish a copy of their contractor's license prior to issuance of a Purchase Order/Contract.

AFFIDAVITS (on the following pages) – *TO BE SUBMITTED WITH BID OR AS OTHERWISE PERSCRIBED BY LAW*

- PURCHASING AFFIDAVIT: West Virginia code §5A-3-10A states that no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than $1,000 in the aggregate. The Bidder (vendor) shall execute and submit with its bid, or as otherwise prescribed by West Virginia Code, the Purchasing Affidavit provided in the Bidding Documents.

- DRUG-FREE WORKPLACE CONFORMANCE AFFIDAVIT: West Virginia Code §21-1D-5 requires each contractor that submits a bid for the work to submit an affidavit that the contractor has a written plan for a drug-free workplace policy prior to being awarded a contract. The contractor (bidder/vendor) shall execute and submit with its bid, or as otherwise prescribed by West Virginia Code, the Drug-Free Workplace Conformance Affidavit provided in the Bidding Documents.

CERTIFIED DRUG-FREE WORKPLACE REPORT

In accordance with West Virginia Code §21-1D-7b, no less than once per year, or upon completion of the project, every contractor shall provide a certified report to the public authority which let the contract. That report must include each of the items identified in the Required Report Content section of the Certified Drug-Free Workplace Report Coversheet.

DISCLOSURE OF INTERESTED PARTIES TO CONTRACTS

Pursuant to West Virginia Code §6D-1-2, a state agency may not enter into a contract, or a series of related contracts, that has/have an actual or estimated value of $1 million or more until the business entity submits to the contracting state agency a Disclosure of Interested Parties to the applicable contract. In addition, the

business entity awarded a contract is obligated to submit a supplemental Disclosure of Interested Parties reflecting any new or differing interested parties to the contract within 30 days following the completion or termination of the applicable contract.

The Disclosure Form is available at the following URL: http://www.ethics.wv.gov/Pages/forms.aspx

VENDOR REGISTRATION AND DISCLOSURE STATEMENT

The successful Bidder must be a registered vendor with the West Virginia Department of Administration, Purchasing Division, prior to receiving a contract/purchase order. Vendor registration information is available at the following URL: http://www.state.wv.us/admin/purchase/vrc/wv1.pdf

LIQUIDATED DAMAGES

The Owner will suffer financial loss if the Work is not Substantially Complete within the Contract Time following the date established for commencement of the Work in the notice to proceed and/or purchase order. As liquidated damages, and not as a penalty, the Contractor and the Contractor's surety shall be liable for and shall pay the Owner the sum of $ 500.00 per day until Substantial Completion is achieved.

Allowances may be made for delays due to shortages of materials and/or energy resources, subject to proof by documentation, and for delays due to strikes or other delays beyond the control of the Contractor. All delays and any claim for extension of Contract Time must be properly documented in accordance with the General Conditions of the Contract for Construction, AIA Document A201-2017, and the State of West Virginia Supplementary Conditions to AIA Document A201-2017.

ADDENDA ACKNOWLEDGMENT

The undersigned hereby acknowledges receipt of the following Addenda and has taken the information contained therein into full consideration in the formulation of this Bid.

Addenda No. 1 _____

No. 2 _____

No. 3 _____

No. 4 _____

No. 5 _____

Failure to acknowledge receipt of each Addendum may be cause for rejection of the Bid.

SIGNATURE: _____ DATE: _____

Signature in Ink

LIST OF PROPOSED SUBCONTRACTORS
(To Be Completed and Submitted with Bid)

List as designated below the proposed subcontractor for each major branch of work for this bid. Also, provide the subcontractor's license number as required by the West Virginia Contractors Licensing Act. If

the branch of work is to be completed solely by the Bidder/Contractor, so indicate. If the acceptance of an alternate bid changes a subcontractor, indicate by notation below. The Bidder/Contractor may be requested to change an unsatisfactory subcontractor. The Bidder/Contractor is responsible for selecting or changing subcontractors. The Owner and Architect/Engineer may indicate their concerns about any entity listed which they have reason to believe past experience indicates that poor performance may be expected. The Bidder/Contractor has full responsibility for satisfactory execution of all work in accordance with the Contract Documents. Any change of proposed subcontractors shall be at no additional cost to the Owner, as the Bidder/Contractor has full responsibility for execution of the work. Bidder/Contractor shall have up to two hours after the bid opening to make adjustments if necessary. Owner will suffer loss should Contractor change from those listed beyond the two-hour time stipulated. Please email adjustments/modifications to Chief Procurement Officer at rich.donovan@wvhepc.edu.

Branch of Work/Material Category	Subcontractor/Supplier	Contractor License No.
1. Steel Fabricator		
2. Masonry Contr.		
3. Roof Membrane Manufacturer		
4. Roof Installer		
5. Storefront Supplier		
6. Sprinkler Contr.		
7. Plumbing Contr.		
8. Mechanical Contr.		
9. Electrical Contr.		

END OF FORM OF PROPOSAL
END OF SECTION 00300

Agency_____
REQ.P.O#_____

BID BOND

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned, _____
_____ of _____, _____, as Principal, and _____
_____of _____, _____, a corporation organized and existing under the laws of the State of ____
_____ with its principal office in the City of _____, as Surety, are held and firmly bound unto the State of West Virginia, as Obligee, in the penal sum of _____ ($_____) for the payment of which, well and truly to be made, we jointly and severally bind ourselves, our heirs, administrators, executors, successors and assigns.

The Condition of the above obligation is such that whereas the Principal has submitted to the Purchasing Section of the Department of Administration a certain bid or proposal, attached hereto and made a part hereof, to enter into a contract in writing for

_____

_____

_____

NOW THEREFORE,

(a) If said bid shall be rejected, or
(b) If said bid shall be accepted and the Principal shall enter into a contract in accordance with the bid or proposal attached hereto and shall furnish any other bonds and insurance required by the bid or proposal, and shall in all other respects perform the agreement created by the acceptance of said bid, then this obligation shall be null and void, otherwise this obligation shall remain in full force and effect. It is expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for the value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Obligee may accept such bid, and said Surety does hereby waive notice of any such extension.

WITNESS, the following signatures and seals of Principal and Surety, executed and sealed by a proper officer of Principal and Surety, or by Principal individually if Principal is an individual, this_____day of _____, 20____.

Principal Seal

_____
(Name of Principal)

By_____
(Must be President, Vice President, or
Duly Authorized Agent)

_____
(Title)

Surety Seal

_____
(Name of Surety)

_____
Attorney-in-Fact

IMPORTANT – Surety executing bonds must be licensed in West Virginia to transact surety insurance, must affix its seal, and must attach a power of attorney with its seal affixed.

BID BOND PREPARATION INSTRUCTIONS

AGENCY (A)
RFQ/RFP# (B)

(A)	WV State Agency (Stated on Page 1 "Spending Unit")
(B)	Request for Quotation Number (upper right corner of page #1)
(C)	Your Business Entity Name (or Individual Name if Sole Proprietor)
(D)	City, Location of your Company
(E)	State, Location of your Company
(F)	Surety Corporate Name
(G)	City, Location of Surety
(H)	State, Location of Surety
(I)	State of Surety Incorporation
(J)	City of Surety's Principal Office
(K)	Minimum amount of acceptable bid bond is 5% of total bid. You may state "5% of bid" or a specific amount on this line in words.
(L)	Amount of bond in numbers
(M)	Brief Description of scope of work
(N)	Day of the month
(O)	Month
(P)	Year
(Q)	Name of Business Entity (or Individual Name if Sole Proprietor)
(R)	Seal of Principal
(S)	Signature of President, Vice President, or Authorized Agent
(T)	Title of Person Signing for Principal
(U)	Seal of Surety
(V)	Name of Surety
(W)	Signature of Attorney in Fact of the Surety

NOTE 1: **Dated Power of Attorney with Surety Seal must accompany this bid bond.**

Bid Bond

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned, (C) of (D), (E), as Principal, and (F) of (G), (H), a corporation organized and existing under the laws of the State of (I) with its principal office in the City of (J), as Surety, are held and firmly bound unto The State of West Virginia, as Obligee, in the penal sum of (K) ($(L)) for the payment of which, well and truly to be made, we jointly and severally bind ourselves, our heirs, administrators, executors, successors and assigns.

The Condition of the above obligation is such that whereas the Principal has submitted to the Purchasing Section of the Department of Administration a certain bid or proposal, attached hereto and made a part hereof to enter into a contract in writing for

(M)

NOW THEREFORE

(a) If said bid shall be rejected, or

(b) If said bid shall be accepted and the Principal shall enter into a contract in accordance with the bid or proposal attached hereto and shall furnish any other bonds and insurance required by the bid or proposal, and shall in all other respects perform the agreement created by the acceptance of said bid then this obligation shall be null and void, otherwise this obligation shall remain in full force and effect. It is expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated

The Surety for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of time within which the Obligee may accept such bid: and said Surety does hereby waive notice of any such extension.

WITNESS, the following signatures and seals of Principal and Surety, executed and sealed by a proper officer of Principal and Surety, or by Principal individually if Principal is an individual, the (N) day of (O), 20(P).

Principal Seal

(R)

(Q)
(Name of Principal)

By (S)
(Must be President, Vice President, or Duly Authorized Agent)

(T)
Title

Surety Seal

(U)

(V)
(Name of Surety)

(W)
Attorney-in-Fact

IMPORTANT – Surety executing bonds must be licensed in West Virginia to transact surety insurance, must affix its seal, and must attach a power of attorney with its seal affixed.

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (*W. Va. Code* §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: _____

Authorized Signature: _____ Date: _____

State of _____

County of _____, to-wit:

Taken, subscribed, and sworn to before me this ___ day of _____, 20___.

My Commission expires _____, 20___.

AFFIX SEAL HERE **NOTARY PUBLIC** _____

West Virginia Ethics Commission

Disclosure of Interested Parties to Contracts

Pursuant to *W. Va. Code* § 6D-1-2, a state agency may not enter into a contract, or a series of related contracts, that has/have an actual or estimated value of $1 million or more until the business entity submits to the contracting state agency a Disclosure of Interested Parties to the applicable contract. In addition, the business entity awarded a contract is obligated to submit a supplemental Disclosure of Interested Parties reflecting any new or differing interested parties to the contract within 30 days following the completion or termination of the applicable contract.

For purposes of complying with these requirements, the following definitions apply:

"Business entity" means any entity recognized by law through which business is conducted, including a sole proprietorship, partnership or corporation, but does not include publicly traded companies listed on a national or international stock exchange.

"Interested party" or *"Interested parties"* means:

(1) A business entity performing work or service pursuant to, or in furtherance of, the applicable contract, including specifically sub-contractors;
(2) the person(s) who have an ownership interest equal to or greater than 25% in the business entity performing work or service pursuant to, or in furtherance of, the applicable contract. (This subdivision does not apply to a publicly traded company); and
(3) the person or business entity, if any, that served as a compensated broker or intermediary to actively facilitate the applicable contract or negotiated the terms of the applicable contract with the state agency. (This subdivision does not apply to persons or business entities performing legal services related to the negotiation or drafting of the applicable contract.)

"State agency" means a board, commission, office, department or other agency in the executive, judicial or legislative branch of state government, including publicly funded institutions of higher education: Provided, that for purposes of W. Va. Code § 6D-1-2, the West Virginia Investment Management Board shall not be deemed a state agency nor subject to the requirements of that provision.

The contracting business entity must complete this form and submit it to the contracting state agency prior to contract award and to complete another form within 30 days of contract completion or termination.

This form was created by the State of West Virginia Ethics Commission, 210 Brooks Street, Suite 300, Charleston, WV 25301-1804. Telephone: (304)558-0664; fax: (304)558-2169; e-mail: ethics@wv.gov; website: www.ethics.wv.gov.

Revised June 8, 2018

West Virginia Ethics Commission

Disclosure of Interested Parties to Contracts

(Required by *W. Va. Code* § 6D-1-2)

Name of Contracting Business Entity: _____ **Address:** _____

_____

Name of Authorized Agent: _____ **Address:** _____

Contract Number: _____ **Contract Description:** _____

Governmental agency awarding contract: _____

☐ **Check here if this is a Supplemental Disclosure**

List the Names of Interested Parties to the contract which are known or reasonably anticipated by the contracting business entity for each category below *(attach additional pages if necessary)*:

1. **Subcontractors or other entities performing work or service under the Contract**
   ☐ Check here if none, otherwise list entity/individual names below.

2. **Any person or entity who owns 25% or more of contracting entity (not applicable to publicly traded entities)**
   ☐ Check here if none, otherwise list entity/individual names below.

3. **Any person or entity that facilitated, or negotiated the terms of, the applicable contract (excluding legal services related to the negotiation or drafting of the applicable contract)**
   ☐ Check here if none, otherwise list entity/individual names below.

Signature: _____ Date Signed: _____

Notary Verification

State of _____, County of _____:

I, _____, the authorized agent of the contracting business entity listed above, being duly sworn, acknowledge that the Disclosure herein is being made under oath and under the penalty of perjury.

Taken, sworn to and subscribed before me this _____ day of _____, _____.

_____
Notary Public's Signature

To be completed by State Agency:

Date Received by State Agency: _____

Date submitted to Ethics Commission: _____

Governmental agency submitting Disclosure: _____

Revised June 8, 2018

WV-72
Approved / Revised 08/01/15

State of West Virginia
Purchasing Division

CERTIFIED DRUG-FREE WORKPLACE REPORT COVERSHEET

In accordance with ***West Virginia Code*** § 21-1D-7b, no less than once per year, or upon completion of the project, every contractor shall provide a certified report to the public authority which let the contract. That report must include each of the items identified below in the Required Report Content section.

Instructions: Vendor should complete this coversheet, attach it to the required report, and submit it to the appropriate location as follows: For contracts more than $25,000, the report should be mailed to the West Virginia Purchasing Division at 2019 Washington Street East, Charleston, WV 25305. For contracts of $25,000 or less, the vendor should mail the report to the public authority issuing the contract.

Contract Identification:

Contract Number: _____

Contract Purpose: _____

Agency Requesting Work: _____

Required Report Content: The attached report must include each of the items listed below. The vendor should check each box as an indication that the required information has been included in the attached report.

- ☐ Information indicating the education and training service to the requirements of ***West Virginia Code*** § 21-1D-5 was provided;
- ☐ Name of the laboratory certified by the United States Department of Health and Human Services or its successor that performs the drug tests;
- ☐ Average number of employees in connection with the construction on the public improvement;
- ☐ Drug test results for the following categories including the number of positive tests and the number of negative tests: (A) Pre-employment and new hires; (B) Reasonable suspicion; (C) Post-accident; and (D) Random.

Vendor Contact Information:

Vendor Name: _____ Vendor Telephone: _____

Vendor Address: _____ Vendor Fax: _____

_____ Vendor E-Mail: _____

_____

SECTION 07 72 00
ROOF ACCESSORIES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Roof hatches.

1.02 REFERENCE STANDARDS

A. 29 CFR 1910.23 - Ladders current edition.

B. 29 CFR 1910.29 - Fall Protection Systems and Falling Object Protection - Criteria and Practices Current Edition.

C. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products 2017.

D. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware 2016a.

E. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process 2020.

F. ASTM A792/A792M - Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process 2021a.

1.03 SUBMITTALS

A. Product Data: Manufacturer's data sheets on each product to be used.
   1. Preparation instructions and recommendations.
   2. Storage and handling requirements and recommendations.
   3. Installation methods.

B. Warranty Documentation:
   1. Submit manufacturer warranty.
   2. Ensure that forms have been completed in Owner's name and registered with manufacturer.
   3. Submit documentation that roof accessories are acceptable to roofing manufacturer, and do not limit the roofing warranty.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging until ready for installation.

B. Store products under cover and elevated above grade.

1.05 WARRANTY

A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.

B. Correct defective Work within a five year period after Date of Substantial Completion.

PART 2 PRODUCTS

2.01 ROOF HATCHES AND VENTS

A. Roof Hatch Manufacturers:
   1. Babcock-Davis: www.babcockdavis.com/#sle.
   2. Best Access Doors: www.bestaccessdoors.com/#sle.
   3. Bilco Company: www.bilco.com/#sle.
   4. Milcor, Inc: www.milcorinc.com/#sle.
   5. Nystrom, Inc: www.nystrom.com/#sle.

B. Roof Hatches: Factory-assembled aluminum frame and cover, complete with operating and release hardware.
   1. Style: Provide flat metal covers unless otherwise indicated.
   2. Mounting Substrate: Provide frames and curbs suitable for mounting on corrugated metal roof deck with insulation.

3. Thermally Broken Hatches: Added insulation to frame and cover; available in each manufacturer's standard, single leaf sizes; special sizes available upon request
4. For Ladder Access: Single leaf; 30 by 36 inches.

C. Frames and Curbs: One-piece curb and frame with integral cap flashing to receive roof flashings; extended bottom flange to suit mounting.
1. Material: Mill finished aluminum, 11 gauge, 0.0907 inch thick.
2. Insulation: Manufacturer's standard; 1 inch rigid glass fiber, located on outside face of curb.
3. Curb Height: 12 inches from finished surface of roof, minimum.

D. Metal Covers: Flush, insulated, hollow metal construction.
1. Capable of supporting 40 psf live load.
2. Material: Mill finished aluminum; outer cover 11 gauge, 0.0907 inch thick, liner 0.04 inch thick.
3. Insulation: Manufacturer's standard 1 inch rigid glass fiber.
4. Gasket: Neoprene, continuous around cover perimeter.

E. Safety Railing System: Roof hatch manufacturer's standard accessory safety rail system mounted directly to curb.
1. Railing: Comply with 29 CFR 1910.23 for ladder safety, with a safety factor of two.
2. Self-Closing Gate: Comply with 29 CFR 1910.29 for safe egress and fall protection through hatch opening.
3. Posts and Rails: Aluminum tubing.
4. Gate: Same material as railing; automatic closing with latch.
5. Finish: Manufacturer's standard, factory applied finish. Safety yellow.
6. Mounting Brackets: Hot dipped galvanized steel, 1/4 inch thick, minimum.
7. Fasteners: Stainless steel, Type 316.
8. Manufacturers: Same as roof hatch.

F. Roof Hatch Hardware: Type 316 stainless steel, unless otherwise indicated or required by manufacturer.
1. Lifting Mechanisms: Compression or torsion spring operator with shock absorbers that automatically opens upon release of latch; capable of lifting covers despite 10 psf load.
2. Hinges: Heavy duty pintle type.
3. Hold open arm with vinyl-coated handle for manual release.
4. Latch: Upon closing, engage latch automatically and reset manual release.
5. Manual Release: Pull handle on interior.
6. Locking: Padlock hasp on interior.

2.02 NON-PENETRATING ROOFTOP SUPPORTS/ASSEMBLIES

A. Non-Penetrating Rooftop Support/Assemblies: Manufacturer-engineered and factory-fabricated, with pedestal bases that rest on top of roofing membrane, and not requiring any attachment to roof structure and not penetrating roofing assembly.
1. Design Loadings and Configurations: As required by applicable codes.
2. Support Spacing and Base Sizes: As required to distribute load sufficiently to prevent indentation of roofing assembly.
3. Steel Components: Stainless steel, or carbon steel hot-dip galvanized after fabrication in accordance with ASTM A123/A123M.
4. Hardware, Bolts, Nuts, and Washers: Stainless steel, or carbon steel hot-dip galvanized after fabrication in accordance with ASTM A153/A153M.

PART 3 EXECUTION

3.01 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.02 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Prepare surfaces using methods recommended by manufacturer for achieving acceptable results for applicable substrate under project conditions.

3.03 INSTALLATION

A. Install in accordance with manufacturer's instructions, in manner that maintains roofing system weather-tight integrity.

3.04 CLEANING

A. Clean installed work to like-new condition.

3.05 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Date of Substantial Completion.

END OF SECTION 07 72 00

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SECTION 23 09 24
DIGITAL CONTROL SYSTEM POINTS LIST

PART 1 GENERAL

1.01

The following list shall be the minimum points required of the digital control system. It is not the intent to show all required points. If or when additional points are required to accomplish the sequences of control specified, these points shall also be provided. The point types are identified as follows:

1. DI - Contact Input (NO or NC)
2. DO - Contact Output (NO or NC)
3. AI - Analog Input
4. AO - Analog Output
5. PI - Pulsed Input

1.02 AIR HANDLING UNIT POINTS LIST:

Type	Description	Qualiity
AI	Return Air Temperature	1
AI	Mixed Air Temperature	1
AI	Supply Air Temperature	1
AI	Supply Air Static Pressure	1
DI	Supply Fan Status	1
AO	Economizer Dampers	1
AO	Supply Fan Volume Control	1
AI	Air Filter Pressure Drop	1
DI	Freezestat	1
DO	Fan System Start/Stop	1
AI	Space Temperature	*
AI	Return Air Humidity	1

*One sensor for unoccupied control, additional space sensor as shown on drawings. When DDC zone control is specified all zone thermostats shall be DDC inputs.

1.03 MINIMUM POINTS LIST FOR VAV WILL BE AS FOLLOWS:

Type	Description	Quantity
AI	Space Temperature	11
AI	Space Setpoint	11
AI	Discharge Air Temperature	11
AO	Heating stage(s)	11

1.04 GENERAL OR GLOBAL POINTS:

Type	Description	Quantity
AI	Outside Air Humidity	1
AI	Outdoor Air Temperature	1
DO	General Exhaust Fans	1
DI	General Exhaust Fans Status	1

PART 2 PRODUCTS - NOT APPLICABLE

PART 3 EXECUTION - NOT APPLICABLE

3.01 INSTALLATION

END OF SECTION 23 09 24

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SECTION 23 09 93
SEQUENCE OF OPERATIONS FOR HVAC CONTROLS

PART 1 GENERAL

1.01

All equipment (valves, dampers, actuators, controllers, etc.) required to perform the functions specified shall be provided under this ATC contract unless noted herein or elsewhere in these contract documents. Electric motor driven equipment (pumps, chillers, compressors, cooling towers, etc.) shall be provided with minimum on (run) and minimum off timers to prevent short cycling of the equipment (coordinate with equipment manufacturer's). All DDC system control points shall have a default value in case of sensor failure or logic error. All controlled devices shall fail safe on loss of control. All setpoints and parameters shall be fully adjustable from the end user / owner interface.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 UNIT HEATERS

A. Thermostat to cycle unit heater fans upon a demand for heating. Furnish all wiring between thermostats and fan motor.

3.02 VARIABLE VOLUME BOXES WITH REHEAT ELECTRIC

A. Each box shall have a electric modulating damper operator (furnished with the box) and a electric reheat coil furnished under this ATC contract. Cooling shall be controlled by modulating the volume damper, heating shall be controlled by energizing the reheat after the air volume has been throttled to a minimum.

3.03 DDC-VAV BOXES

A. The VAV box manufacturer shall provide the box with air flow taps for connection to the air flow sensor provided under this ATC work. All other control components shall be furnished by the ATC. ATC shall send to the box manufacturer the DDC controller and damper actuator for factory mounting (if the HVAC Contractor is using Trane VAV boxes the damper motor is integral with the box, coordinate accordingly).

B. VAV Shutoff Control - When the room temperature is below setpoint the box damper shall be at cooling minimum. As room temperature rises above cooling setpoint the control shall modulate the damper open to satisfy the setpoint. Box controls shall reverse action during warm-up.

C. VAV Reheat Control - When the room temperature is below setpoint the box damper shall be at heating minimum and the heating coil shall energize. As temperature rises to heating setpoint the valve modulates toward the closed position. If the room temperature rises above the heating setpoint the valve shall close. When room temperature rises above cooling setpoint the damper shall modulate from cooling minimum to maximum to maintain the cooling setpoint.

D. An override pushbutton shall be provided at each sensor thermostat to override the unoccupied schedule for a fixed (programmable) time. The DDC system shall track, log and report on the amount of time each box was overridden as well as VAV box discharge air temperature.

3.04 VARIABLE VOLUME SHUTOFF BOXES

A. Each box is furnished with a modulating damper operator and shall be controlled from a local thermostat, to vary the CFM from full CFM to shutoff.

3.05 VARIABLE VOLUME BOXES

A. A complete control package is provided by the VAV box manufacturer. Installation of the thermostat, control wiring and low voltage power supplies are included in this ATC contract. Obtain control diagrams from the box manufacturer and incorporate it into the ATC shop drawings.

3.06 GENERAL EXHAUST FANS

A. Each exhaust fan (and its respective automatic damper) where indicated on the Electric Drawing Starter Schedule shall be a separate status point of the digital control system.

3.07 MONITORING AND ALARMS

The following points shall be monitored and alarmed at the monitoring console and as otherwise specified hereinafter:

A. Point Descriptions:
   1. Current Sensing Relays - Provide for all air handling unit supply and return/exhaust fans; all general exhaust fans.
   2. High/Low Temperature Alarms on all DDC temperature sensors with off-normal messages.
   3. Fire Alarm System Inputs - Fire alarm shall be input into the digital control system for information and smoke control mode. Wiring from the digital control system inputs to the Fire Alarm System outputs shall be by this Contractor. Coordinate connection points with the Electrical Contractor.

B. When interfacing with equipment providing remote analog inputs or receiving analog outputs to the DDC system or when monitoring requires the installation of external relays at the equipment being monitored, coordinate all requirements such as range, signal condition, grounding, wiring and input impedance with the supplier of the equipment being monitored.

3.08 AIR HANDLING UNIT NO. (RTU-1)

A. Air Handling System Start/Stop - Night Setback - The air handling unit (associated supply, return and exhaust fans) shall be able to be scheduled for occupied/unoccupied 7-day and holiday operation. During the occupied mode, the temperature controls shall function as specified, during unoccupied mode the air handling unit controls shall function as specified except the outside air dampers shall remain closed. The controls shall cycle the unit to maintain a reduced space temperature of 60 degrees F.

   Initial Schedule - Unit shall operate Monday thru Friday 7:00 am to 5:00 pm, Saturday 7:00 am to 12:00 noon. Unit shall be off after scheduled hours, Sunday and all legal holidays. Coordinate exact schedule with Owner.

B. Cooling Setup Control and Cool Down - During the unoccupied time, the space temperature rises above 82 degrees F. the unit shall cycle on to cool the space down to 79 degrees F and then turn off. Outside air shall be used for cooling first unless the economizer is locked out. An optimal start program shall start the unit in advance of occupied time to ensure proper space temperatures at occupancy time. During set up or cool down operation if the economizer is inactive the associated relief and exhaust fans shall remain off and the outside air dampers shall remain closed.

C. Minimum Outside Air - This paragraph defines the operation of outside air, vent air and return air dampers (economizer dampers) to provide minimum outside air for ventilation. The phrase "Minimum" in the sequences of operation shall invoke this paragraph. Simple outside air damper sections (all damper blades operating in unison) shall open to a fixed position as determined by air balance to provide the specified minimum ventilation. Return air dampers shall remain full open and vent air dampers shall remain completely closed. Compound outside air damper section (separate operable damper blades or sections) shall have the minimum damper open fully, the maximum outside air damper and vent air damper shall be completely closed, and the return air damper shall be fully open.

   Outside air minimum shall be adjusted based on building pressure. Outdoor air shall be modulated to maintain positive building pressure of 0.05 inches w.g. (adjustable). See also Static pressure control below.

D. Morning Warm-Up and Initial Start - Air handling system shall enter a morning warm-up mode in advance of the occupied time via an optimal start sequence, the outside air dampers shall remain completely closed and the return dampers shall remain fully open and exhaust fans

shall remain off in this mode. During morning warm-up the VAV shut-off boxes shall open. This mode shall continue until the return temperature rises above 68 degrees F., at which time the economizer dampers shall be positioned to minimum and the respective exhaust fans shall start. Economizer damper control shall be delayed two minutes during start-up to prevent cabinet heat from false loading the system.

E. Safeties: The following safeties shall be provided to stop the air handling unit fan(s) and position the control devices to their "fail safe" position, i.e., outside and relief dampers closed, return dampers open, heating valves open and humidifier valves closed. Safeties shall be wired into the fan starter circuit such that the safety shall function whether the start selector switch is in the hand on or automatic position.
   1. Low Temperature Limit Cutout "Freezestats" - Shall be provided on all air handling units and installed on the leaving air face of the first coil in the air stream (unless otherwise noted) and shall stop the air handling unit fan(s) if a temperature below 38 degrees F. is detected.
   2. Smoke Detectors (installed on all return and exhaust units equal or above 2,000 cfm) - Smoke detectors shall be provided under this HVAC contract installed in the air handling unit return air, and/or the exhaust fan inlet air.
   3. Supply Duct High Static Pressure Cutout - Provide a manually reset type duct static pressure switch, set at the maximum working pressure of the ductwork, to stop the fan system (supply, return, exhaust) on a rise in duct static above setpoint.
   4. Return Duct High Negative Pressure Cutout - Provide a manual reset type duct static pressure switch, set at the maximum negative working pressure of the ductwork, to stop the fan system (supply, return, exhaust) on a fall in duct static below setpoint.

F. Outside Air: Discharge Air Reset - The Air Handling Unit controls shall provide discharge air temperature control based on the following outside air reset schedule: 0 degrees F. outside air, 62 degrees F. discharge air; 55 degrees F. outside air, 55 degrees F discharge air. All control setpoints to be fully adjustable to meet job conditions.

G. Enthalpy Economizer Control - Outside air temperature and humidity, and return air temperature and humidity shall be measured, and the enthalpy of each determined. If the enthalpy of the outside air is less than the enthalpy of the return air the economizer shall be enabled. When the outside air enthalpy is higher than the return air enthalpy and mechanical cooling is available the economizer shall be disabled.

   Economizer cycle - When the unit operates in the occupied mode, the minimum outside air shall be provided, the return air dampers shall open full and relief air dampers shall remain closed. This condition is the normal position and shall be maintained during the occupied mode except during the "economizer" cycle. During the "economizer" cycle, the amount of outside air and relief air shall be increased as required to maintain the unit discharge air temperature setpoint. Provide a mixed air sensor and low limit control set at 50 degrees F. to prevent over-opening of the fresh air dampers. All control setpoints to be full adjustable to meet job conditions.

H. Static Pressure Control - When the air handling system is operating in the economizer mode the relief air damper shall be under control of a space static pressure sensor (reference to outdoors). The control shall be proportional plus integral and shall modulate the damper to maintain a 0.05 inch w.g. positive static pressure in the space.

I. Electric Heating Coil - On a fall in discharge air temperature below setpoint the steps of electric heat shall be energized in sequence to satisfy the setpoint. Refer to drawings for number of steps. Provide a time delay between steps. Cooling shall be off before the electric heat is energized. During morning warm-up the setpoint shall be raised to 95 degrees F. (adjustable).

J. DX Cooling Coil - When the economizer is active and outside air dampers are full open to outside air and the discharge air temperature rises above setpoint, the solenoid valves and compressor stepping shall be energized in sequence to satisfy the setpoint. Provide on and off time delays between steps. When the minimum step of DX cooling is energized and the discharge air temperature falls below 55 degrees F. and the economizer is active, the economizer dampers shall modulate slowly back toward minimum position until discharge air

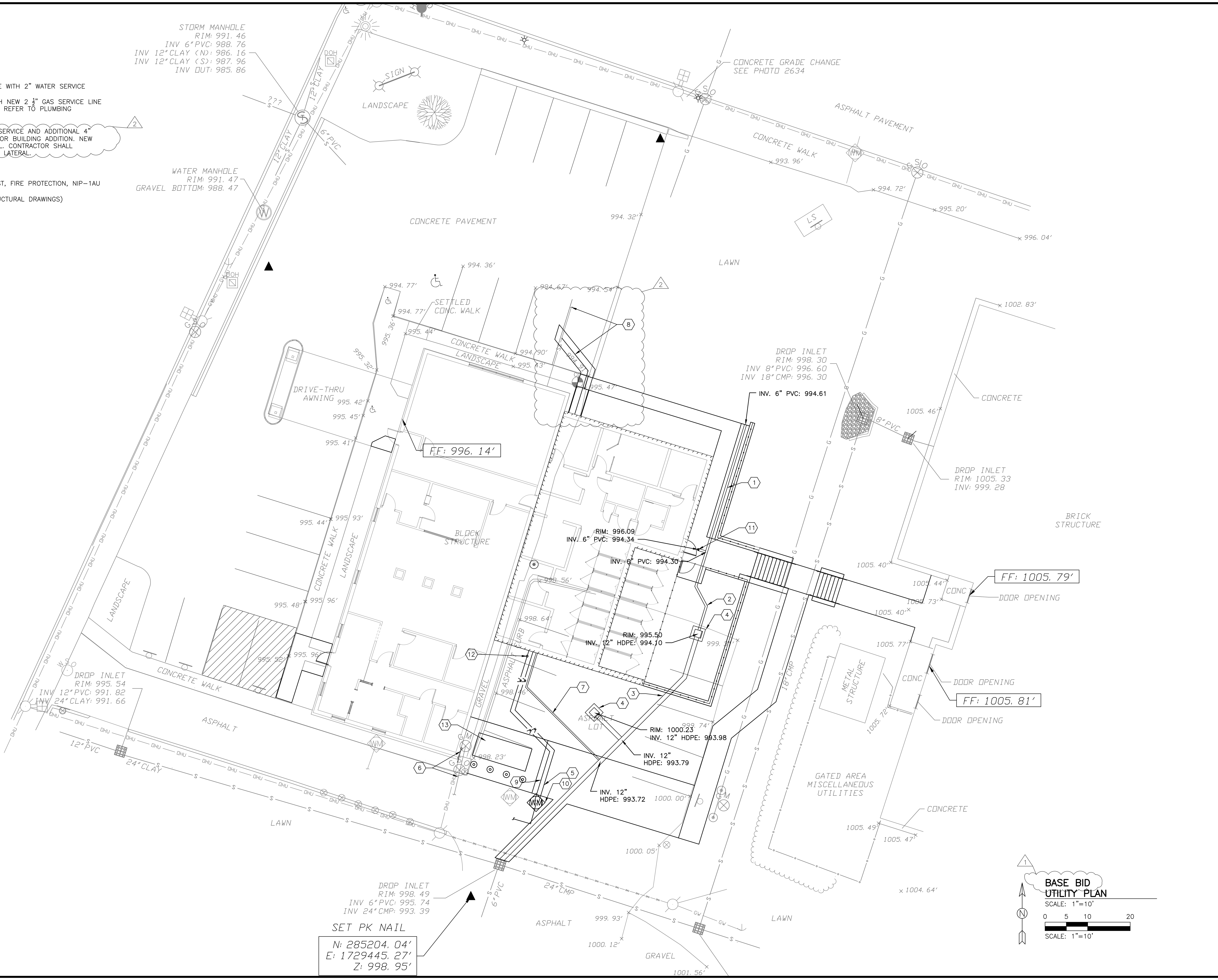
temperature rises above 55 degrees F. Provide air flow switch wired in series with cooling control to keep cooling off unless the fan is operating.

K. Fan Volume Control - The variable speed drives on the supply shall be modulated by a static pressure sensor located two-thirds distance from the supply fan and a proportional plus integral control shall provide a common control signal to the system to provide a static pressure of 1.0" w.g. (adjustable) at that point.

END OF SECTION 23 09 93

CODED NOTES:

1. 6" PERFORATED UNDERDRAIN PIPE
2. 6" PVC PIPE
3. 12" HDPE PIPE
4. CATCH BASIN
5. REPLACE EXISTING ¾" WATER SERVICE WITH 2" WATER SERVICE FROM MAINLINE TIE-IN TO BUILDING
6. REPLACE EXISTING GAS SERVICE WITH NEW 2 ½" GAS SERVICE LINE FROM MAINLINE TIE-IN TO BUILDING. REFER TO PLUMBING DRAWINGS FOR SIZE AND DETAILS.
7. ~~PROPOSED 4" STORM TIE-IN~~
8. EXISTING SANITARY WILL REMAIN IN SERVICE AND ADDITIONAL 4" SANITARY LINE WILL BE INSTALLED FOR BUILDING ADDITION. NEW LINE WILL TIE INTO EXISTING LATERAL. CONTRACTOR SHALL FIELD-VERIFY LOCATION OF EXISTING LATERAL. (2)
9. PROPOSED 4" FIRE WATER LINE
10. PROPOSED WATER METER
11. 6" WATTS FLOOR DRAIN
12. 4" PIV VALVE, NIBCO INDICATOR POST, FIRE PROTECTION, NIP-1AU (OR APPROVED EQUAL)
13. 13'X5.5' GENERATOR PAD (SEE STRUCTURAL DRAWINGS)



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Rev.	Description	By	Date
2	ISSUED FOR ADDENDUM	SLK	02/28/22
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Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
UTILITY PLAN (BASE)

SPENCER KIMBLE
REGISTERED
19167
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER

Project: 2201011
Designed By: JMC
Drawn By: JMC
Checked By: SLK
Scale: 1"=10'
Plot Date: 02/25/22
Revision: 1
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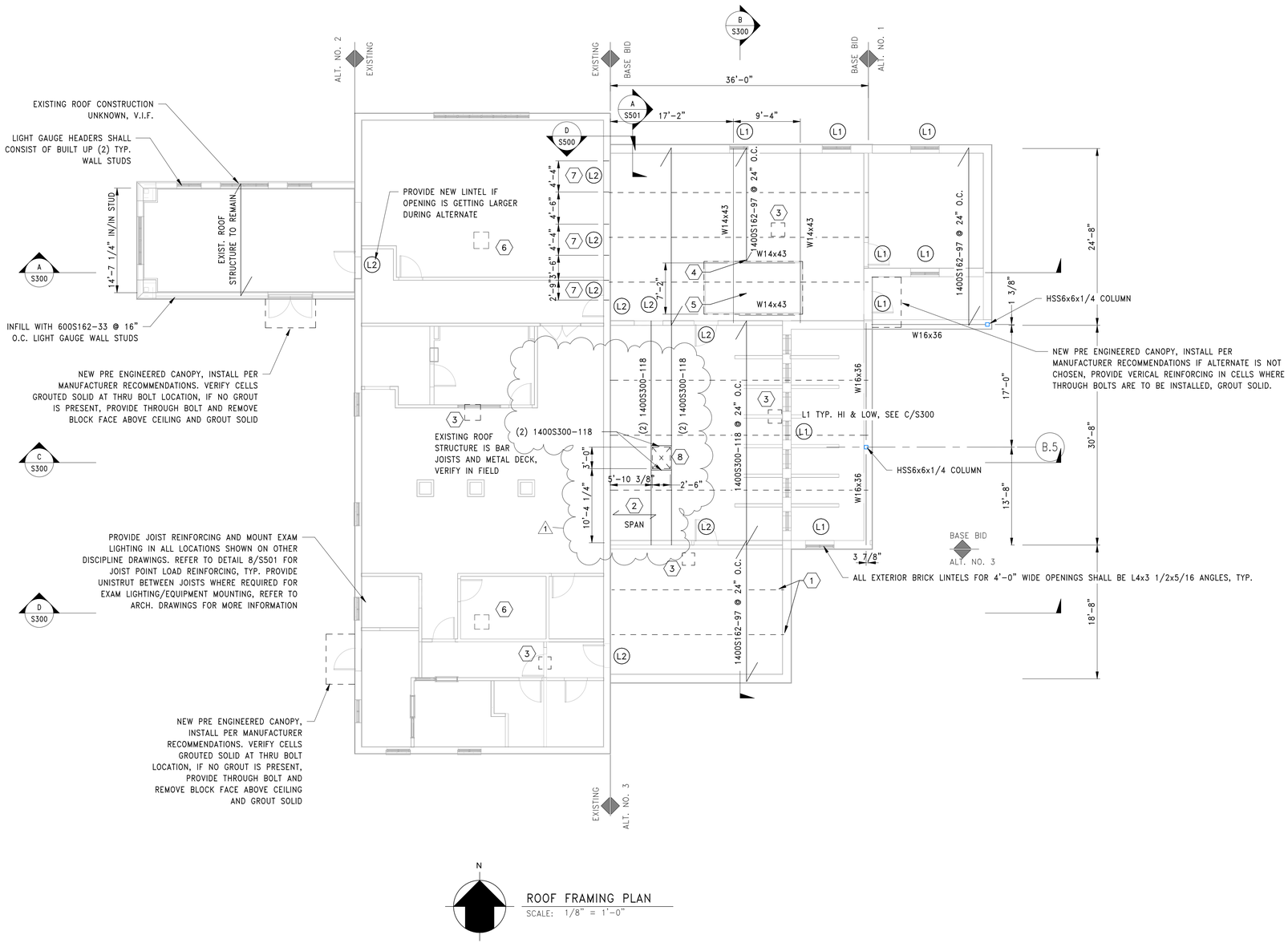

ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

NOTES:

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD PRIOR TO CONSTRUCTION AND EMOLITION, TYP.
2. DRAWINGS S001 AND S002 SHALL BE REFERENCED FOR GENERAL NOTES.
3. ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS SHALL BE REFERENCED FOR MINOR FLOOR, WALL, AND ROOF PENETRATIONS. ALL WORK SHALL BE COORDINATED WITH THE RESPECTIVE CONTRACTOR.
4. WALL, FLOOR, AND ROOF FRAMING SHALL BE IN ALIGNMENT WHERE AT ALL POSSIBLE. WHERE DIFFERING SPACINGS OCCUR, SPACING ORIGINS SHALL BE SUCH THAT A MAXIMUM NUMBER OF MEMBERS ARE ALIGNED.
5. PARTITION WALL TOP TERMINATION/SUPPORT/BRACING DETAILS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. PARTITION WALLS SHALL BE SUFFICIENTLY STIFFENED. WALLS SHALL BE EXTENDED TO STRUCTURE ABOVE (DECK, JOISTS, TRUSSES, ETC.) AND TERMINATED WITH VERTICAL-DEFLECTION-ACCOMMODATING CONNECTION, PIN-CONNECTION BRACED WITH VERTICAL KICKERS, BRACED AT CORNERS WITH HORIZONTAL KICKERS, OR TIED TOGETHER WITH STRUTS. PARTITIONS RUNNING PERPENDICULAR TO ROOF FRAMING SHALL BE SUPPORTED WITH STC OR STCT ROOF TRUSS CLIPS. (ADDITIONAL TRANSVERSE MEMBERS BETWEEN BOTTOM CHORDS SHALL BE ADDED FOR WALLS PARALLEL TO JOISTS.) UNLESS NOTED OTHERWISE, WALL STUDS AND DRYWALL SHALL EXTEND A MINIMUM OF 12" AND 4" ABOVE CEILING RESPECTIVELY. WHERE REQUIRED FOR SOUND ATTENUATION, STUDS AND ACOUSTIC BATT SHALL BE EXTENDED TO THE DECK WITH THE BATT FASTENED TO THE STUDS.
6. ALL SILL AND SOLE PLATES IN CONTACT WITH MASONRY OR CONCRETE AT EXTERIOR OR SUBGRADE LOCATIONS SHALL BE PRESERVATIVE-TREATED. IBC 2304.11 SHALL BE REFERENCED FOR FURTHER DETAILS.
7. INSULATION, REINFORCING, FLASHING, ETC MAY NOT BE SHOWN ON ALL SECTIONS OR DETAILS. HARDWARE, FASTENERS, CLIP ANGLES, ETC. MAY ALSO NOT ALL BE SHOWN ON THE SECTIONS AND DETAILS.
8. ALL EXPOSED STEEL SHALL BE GALVANIZED.
9. ALL CONNECTION DETAILS SHOWN ON THE DRAWINGS SHALL BE REVIEWED FOR CONSTRUCTABILITY BY THE FABRICATOR.
10. PROVIDE DOUBLE LIGHT GAUGE JOIST FRAMING AROUND EXHAUST FANS/SUPPORTS, BLOCKING AS REQUIRED, AND ATTACH PER MANUFACTURER SPECIFICATIONS. COORDINATE SUPPORT STEEL AND DECK OPENING WITH FAN REQUIREMENTS.
11. TOP COURSE OF ALL CMU WALLS SHALL BE BOND BEAM REINFORCED WITH (2) #5 BARS CONTINUOUS AND GROUTED SOLID.

CODED NOTES:

1. LIGHT GAUGE JOIST BRIDGING, SEE GENERAL NOTES FOR SPACING REQUIREMENTS AND TYPICAL DETAILS FOR MORE INFORMATION. PROVIDE BRIDGING AT EACH BAY IN ACCORDANCE WITH AISI AND MANUFACTURER SPECIFICATIONS. SEE BRIDGING SPACING TABLE.
2. 1" TYPE E x 24 GAUGE (1.0E24 BY VULCRAFT) OR APPROVED SIMILAR, ROOF DECK CONTINUOUS ACROSS A MINIMUM OF (2) SPANS AND BE VULCRAFT OR APPROVED EQUAL. INSTALL DECK IN ACCORDANCE WITH STEEL DECK INSTITUTE AND MANUFACTURER SPECIFICATIONS. ATTACH 36" ROOF DECK TO SUPPORT MEMBERS WITH #12 TEK SCREWS AT SIDE LAPS AND AT LEAST (1) INTERIOR RIB (18" MAX. C/C SPACING). INTERIOR DECK ENDS SHALL HAVE A MINIMUM 2" LAP AND BE CENTERED OVER SUPPORT WITH A MINIMUM 1 1/2" BEARING (OR AS RECOMMENDED BY MANUFACTURER). DECK SHALL HAVE A MINIMUM 1 1/2" PERIMETER END BEARING. END PERIMETER EDGES SHALL BE ATTACHED AT SIDE LAPS AND (2) INTERMEDIATE RIBS (12" MAX. C/C SPACING). PERIMETER EDGES AND SIDE LAPS SHALL BE ATTACHED WITH (0) ADDITIONAL INTERMEDIATE #10 TEK SCREW FASTENER AT MIDSPAN. EACH ATTACHMENT MUST RESIST THE HORIZONTAL FORCE REQUIRED TO PROVIDE ADEQUATE LATERAL BRACING FOR THE PURLINS.
3. OPENING FOR EXHAUST FAN, LOCATE AND SIZE PER MECHANICAL DRAWINGS, ENSURE ROOF FRAMING IS PRESENT AROUND OPENING PER DETAIL 9/S501, TYP.
4. ATTACH LIGHT GAUGE JOISTS TO STEEL BEAM WITH S/LBV1.68/14 WELD ON JOIST HANGER BY SIMPSON STRONG-TIE. PROVIDE 1/8"x2" EACH SIDE OF EACH TOP STRAP, FIELD WELD TO STEEL BEAM PER MANUFACTURER RECOMMENDATIONS.
5. ROOFTOP UNIT, LOCATE PER MECHANICAL. PROVIDE (4) STEEL BEAMS FRAMING AROUND UNIT CURB, MAX WEIGHT OF UNIT IS NOT TO EXCEED 9,000lbs. VERIFY FRAMING REQUIREMENTS WITH MANUFACTURER FOR SUPPORT REQUIREMENTS OF RTU, TYP.
6. EXISTING MECHANICAL ROOF OPENINGS TO BE PATCHED BACK, SIZE OF OPENING(S) UNKNOWN, VERIFY IN FIELD. SUPPLY LOOSE ROOF OPENING FRAMING ANGLES PER DETAIL 9/S501 AND PATCH BACK WITH 1" ROOF DECK, INSULATION TO MATCH EXISTING AND ROOFING PER ARCHITECTURAL.
7. OPENING FOR MECHANICAL DUCT PENETRATION, VERIFY LOCATION, ELEVATIONS AND DIMENSIONS WITH MECHANICAL DRAWINGS. PROVIDE (1) ANGLE PER 4" WIDTH OF MASONRY.
8. OPENING FOR ROOF HATCH, VERIFY LOCATION AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

LINTEL SCHEDULE	
MARK	LINTEL SIZE
L1	L5x3 1/2x3/8
L2	L6x4x3/8

NOTES:
1. ALL LINTELS ARE FOR EACH 4" UNIT WIDTH OF MASONRY, TYP.
2. ALL ANGLES SHALL HAVE THEIR SHORT LEG OUTSTANDING AND 6" MINIMUM BEARING.
3. LINTELS OVER OPENINGS IN INTERIOR MASONRY PARTITIONS NOT OTHERWISE SPECIFIED SHALL BE PRECAST CONCRETE LINTELS WITH (1) #5 BAR TOP AND BOTTOM FOR EACH 4" UNIT WIDTH OR SHALL BE L4x3 1/2x5/16 ANGLES.
4. ALL EXTERIOR MASONRY LINTELS SHALL BE GALVANIZED, TYP.

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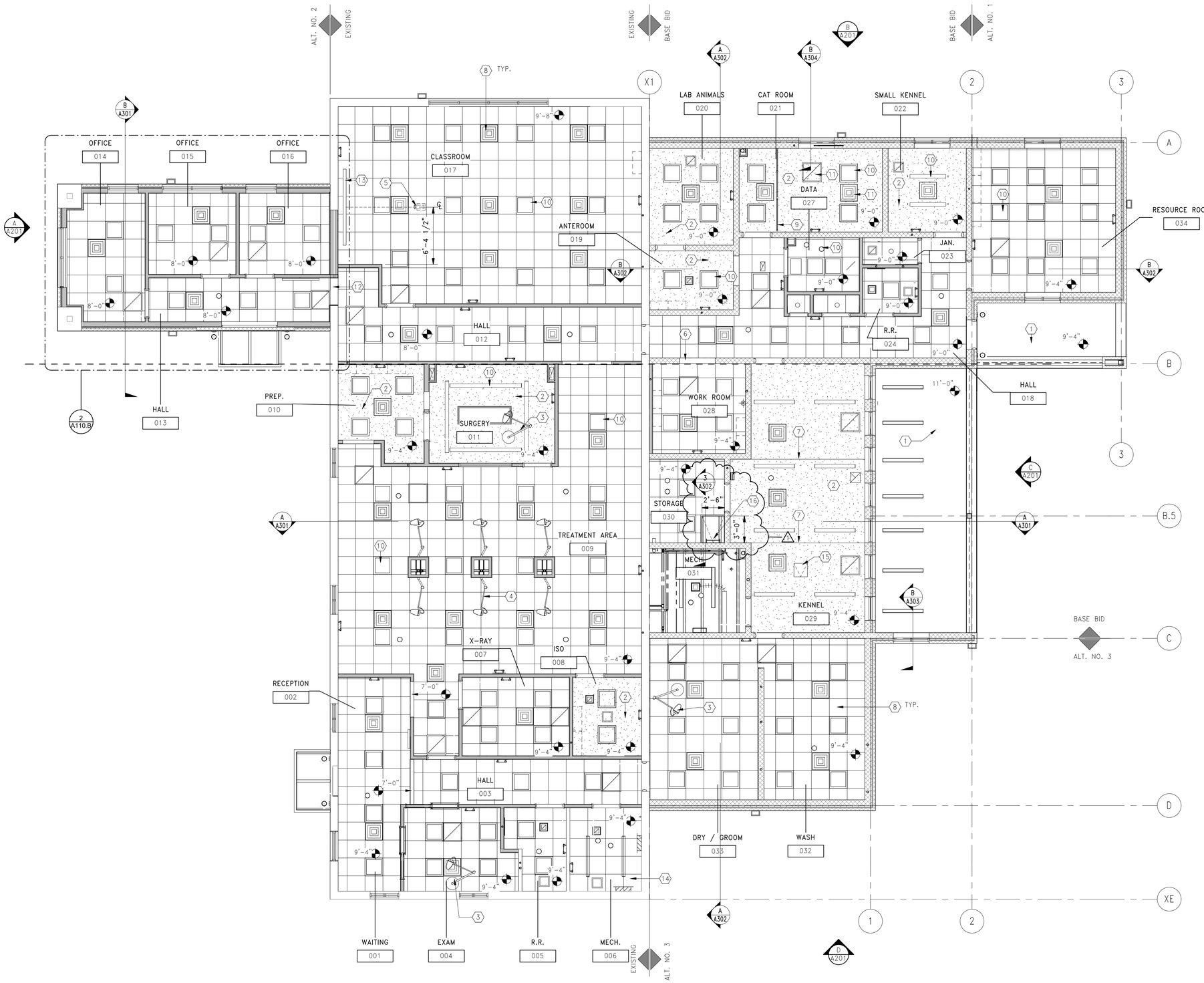
0	ISSUED FOR BID	ESS	2/01/22
1	ISSUED FOR ADDENDUM	ESS	2/23/22

Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
FRAMING PLAN

Project:	2201011
Designed By:	STC
Drawn By:	STC
Checked By:	ESS
Scale:	As indicated
Plot Date:	2/23/22
Revision:	1

Drawing Number:
S112



REFLECTED CEILING PLAN
SCALE: 3/16" = 1'-0"

GENERAL NOTES

A. SEE MECHANICAL & ELECTRICAL SHEETS FOR MORE INFORMATION
B. ALL INTERIOR LAY-IN CEILINGS SHALL BE TYPE 1, UNLESS NOTED OTHERWISE

CODED NOTES

1 ALUM. SOFFIT (NON-PERFORATED).
2 PAINTED GYP. BOARD.
3 CLG.-MTD. EXAM LIGHT. SEE EQUIP. PLANS & STRUCT. DWGS. FOR ATTACHMENT.
4 TOWER-MTD. EXAM LIGHTS.
5 CLG.-MTD. PROJECTOR MOUNT.
6 7'-4" PTD. STL. LINTEL.
7 CONTROL JOINT.
8 2 X 2 LAY-IN CEILING
9 FULL HEIGHT METAL MESH ENCLOSURE W/ 3'-0" WIDE GATE.
10 ELECTRICAL EQUIPMENT - SEE ELECTRICAL DRAWINGS.
11 MECHANICAL EQUIPMENT - SEE MECHANICAL DRAWINGS.
12 7'-0" GYP. BD. SOFFIT @ ALT. NO. 2
13 RECESSED MANUALLY-OPERATED PROJECTION SCREEN.
14 EXISTING CEILING TO REMAIN UNDER BASE BID.
15 18"x18" CEILING ACCESS PANEL.
16 ROOF HATCH & LADDER

SHEET NUMBER	SHEET NAME
A101	ADA REQUIREMENTS
A102	WALL TYPES
A110	NOTES PLAN
A110.B	NOTES PLAN - BASE BID
A111	REFLECTED CEILING PLAN
A112	ROOF PLAN
A120	DIMENSION PLAN
A140	EQUIPMENT PLAN & SCHEDULE
A141	EQUIPMENT PLAN & SCHEDULE

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Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
REFLECTED CEILING PLAN

STATE OF WEST VIRGINIA
PAMELA JO WEAN
NO. 3331
REGISTERED ARCHITECT

Project:	2201011
Designed By:	JGH
Drawn By:	JGH
Checked By:	PJW
Scale:	As indicated
Plot Date:	02/28/2022
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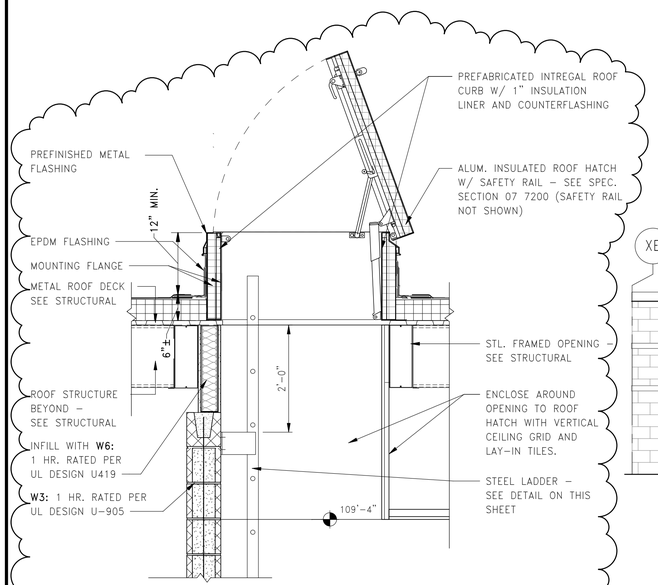
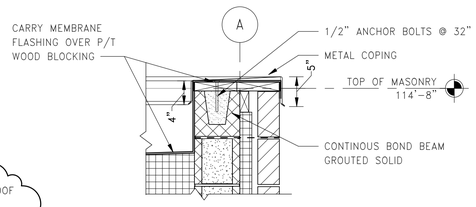
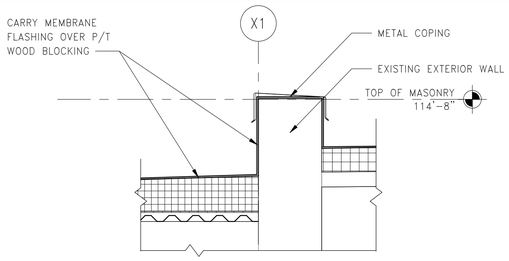
Drawing Number:
A111



3 A111 A302 ROOF HATCH DETAIL
SCALE: 3/4" = 1'-0"



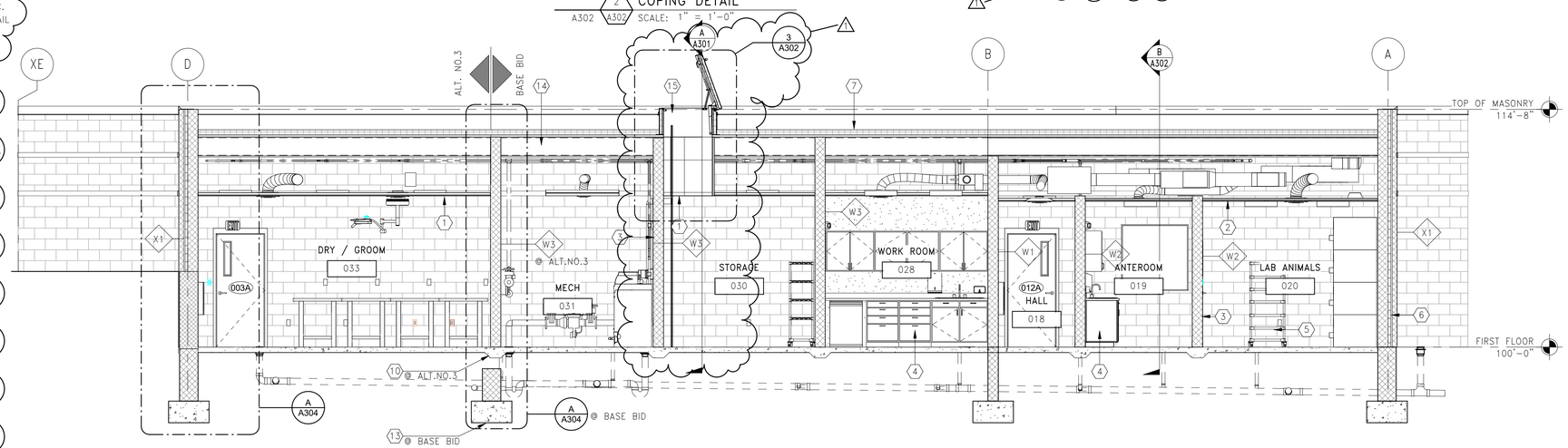
1 A304 A302 COPING DETAIL
SCALE: 1" = 1'-0"



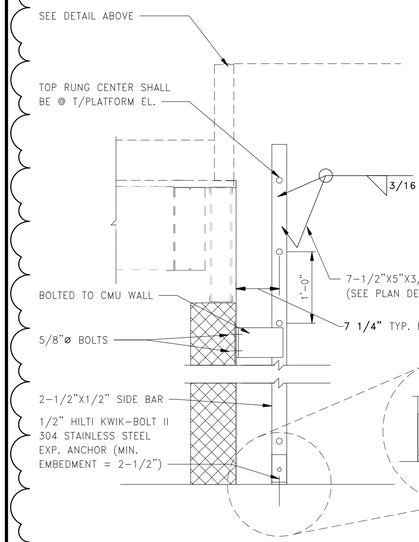
2 A302 A302 COPING DETAIL
SCALE: 1" = 1'-0"

CODED NOTES

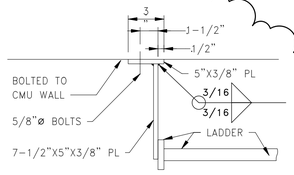
1. 2 X 2 LAY-IN CEILING
2. PAINTED GYP. BOARD.
3. 8" CMU WALLS – TYP., UNLESS NOTED OTHERWISE.
4. PLAS. LAM. CASEWORK.
5. SEE DWGS. A140 & A141 FOR EQUIPMENT– TYP.
6. TYP. EXTERIOR WALL: 8" CMU WITH 2" RIGID INSUL., 1" AIRSPACE & PTD. 4" SPLIT-FACE CMU VENEER.
7. EPDM ROOFING OVER TAPERED INSULATION.
8. METAL STUDS W/ 5/8" GYP. BD. WALLS.
9. EXISTING 2-HOUR RATED MASONRY WALL.
10. THICKENED SLAB – SEE STRUCT. DWGS.
11. ROOFTOP UNIT – SEE MECH. DWGS.
12. METAL DECK ON LT. GAUGE METAL JOISTS – SEE STRUCT. DWGS.
13. FOUNDATION WALL & CONC. FOOTING – SEE STRUCT. DWGS.
14. PAINTED EXPOSED STRUCTURE.
15. ROOF HATCH & LADDER



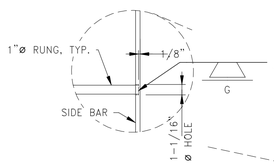
A A110 A302 BUILDING SECTION
SCALE: 1/4" = 1'-0"



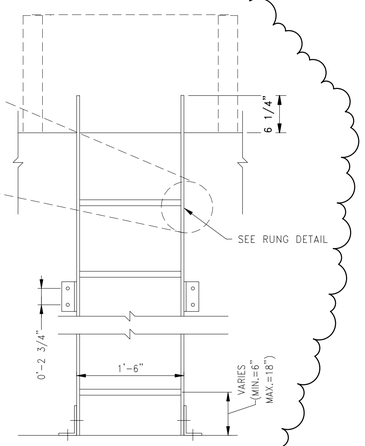
LADDER SIDE ELEVATION
SCALE: (N.T.S.)



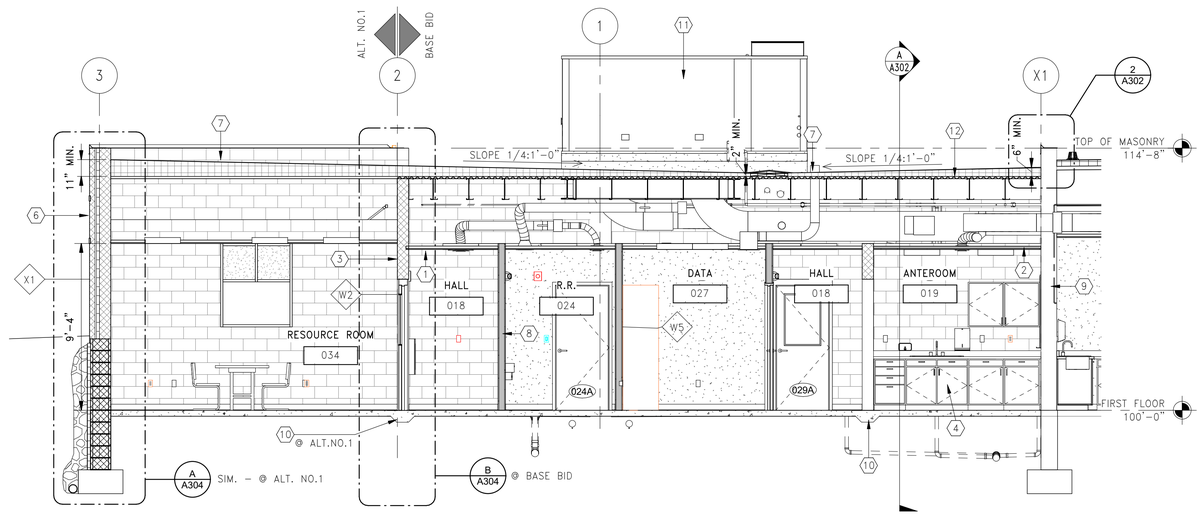
LADDER – PLAN DETAIL
SCALE: (N.T.S.)



RUNG DETAIL
SCALE: (N.T.S.)



LADDER FRONT ELEVATION
SCALE: (N.T.S.)



B A110 A302 BUILDING SECTION
SCALE: 1/4" = 1'-0"

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Rev.	Description	By	Date
0	ISSUED FOR ADDENDUM	PJW	02/28/2022
1	ISSUED FOR BID	PJW	02/01/2022

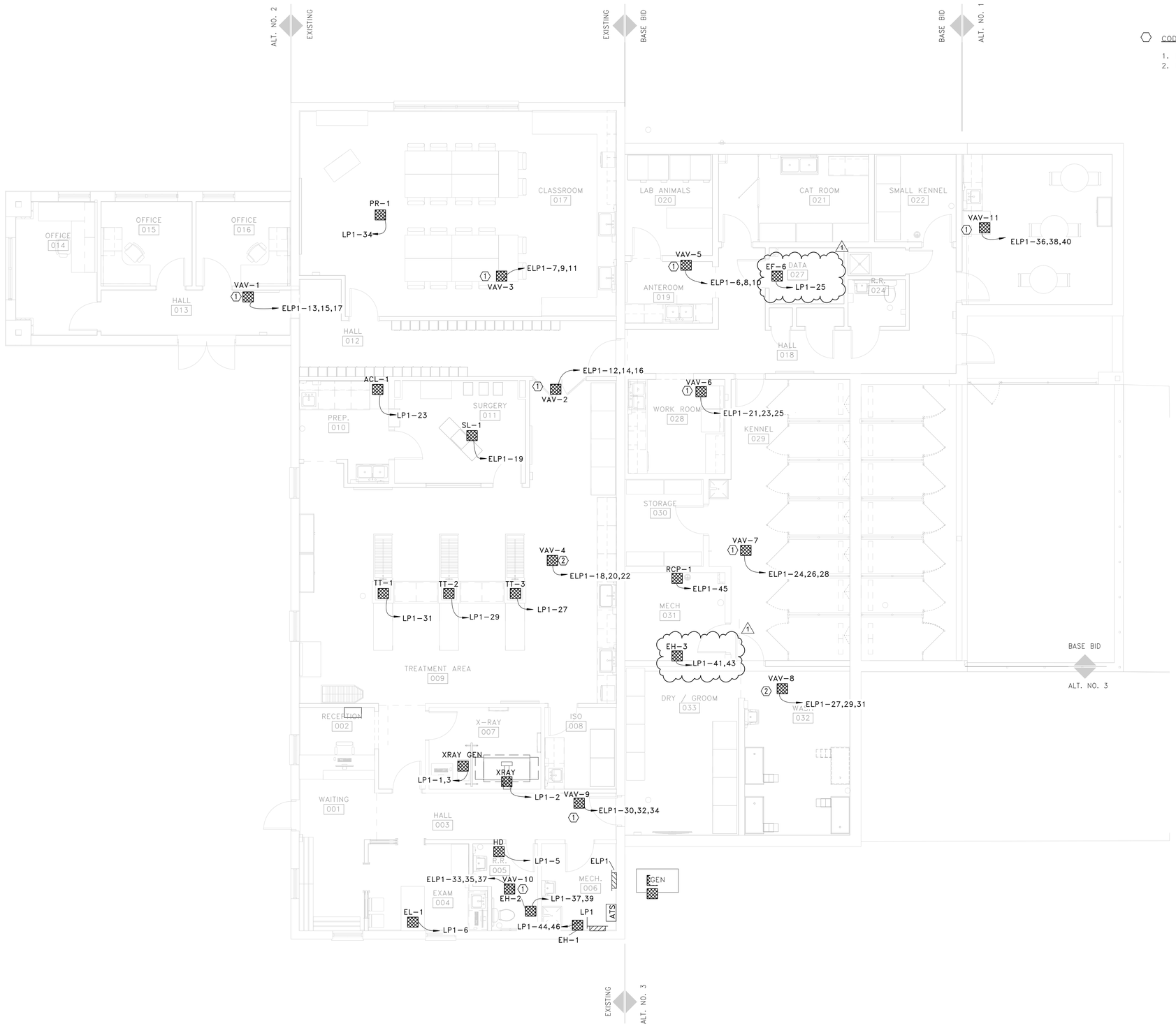
Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
BUILDING SECTION

STATE OF WEST VIRGINIA
PAMELA JO WEAN
NO. 3331
REGISTERED ARCHITECT

Project:	2201011
Designed By:	JGH
Drawn By:	JGH
Checked By:	PJW
Scale:	As indicated
Plot Date:	02/28/2022
Revision:	1

Drawing Number:
A302



CODED NOTES:

1. PROVIDE AND INSTALL 30 AMP, 3P, 240 VOLT DISCONNECT.
2. PROVIDE AND INSTALL 60 AMP, 3P, 240 VOLT DISCONNECT.

ELECTRICAL EQUIPMENT POWER PLAN

SCALE: 3/16" = 1'-0"

PICKERING ASSOCIATES
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Rev.	Description	By	Date
1	ISSUED FOR ADDENDUM	CSH	2/28/22

Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
ELECTRICAL EQUIPMENT POWER PLAN

CARL S. HENSON
REGISTERED
No. 14330
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER

Project:	2201011
Designed By:	JSS
Drawn By:	JSS
Checked By:	CSH
Scale:	3/16" = 1'-0"
Plot Date:	2/28/22
Revision:	1

Drawing Number:
E122

N

SITE POWER PLAN ALT. 4

SCALE: 1/8" = 1'-0"

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Rev.	Description	By	Date
1	ISSUED FOR ADDENDUM	CSH	2/28/22

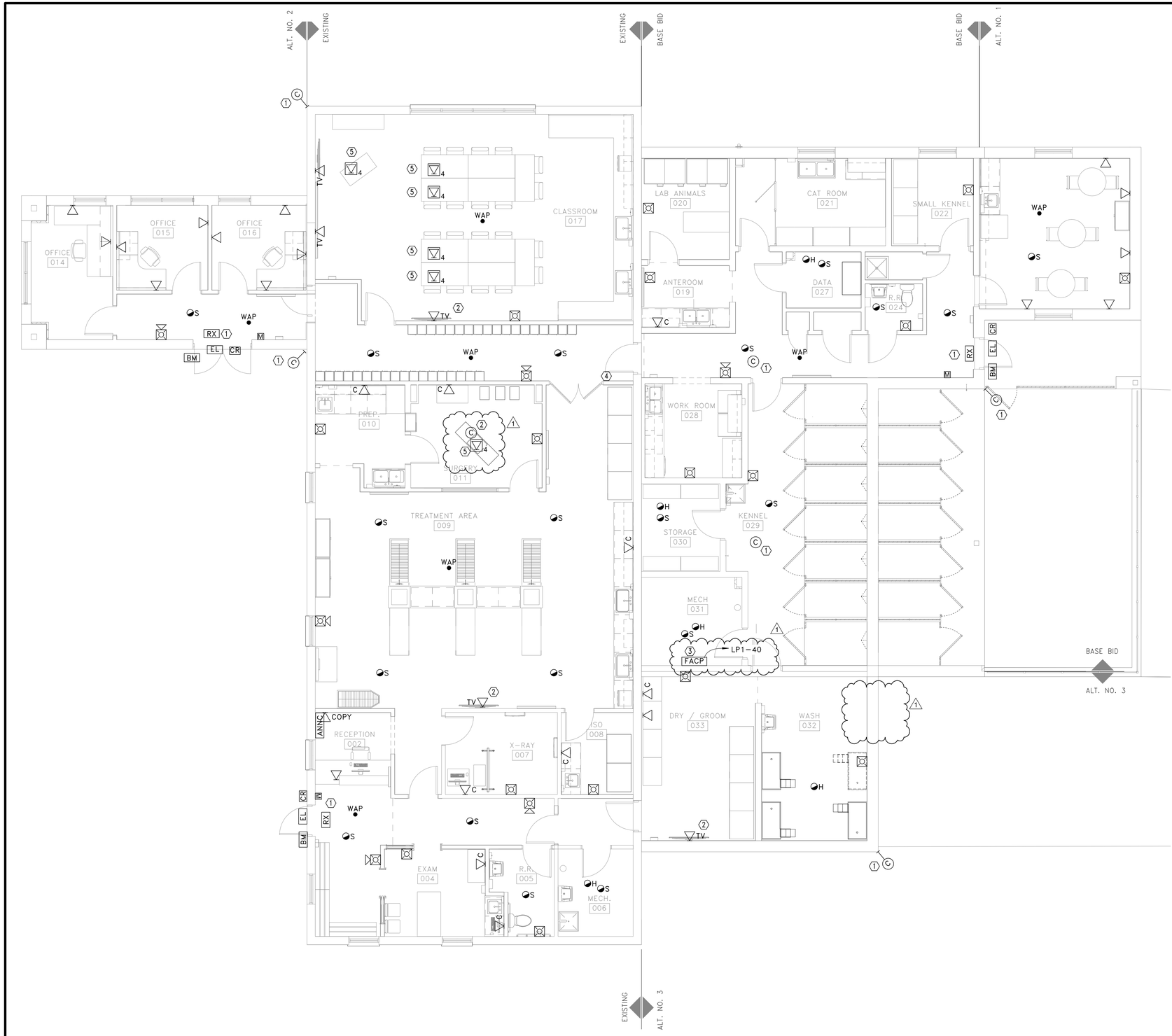
Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
SITE POWER PLAN

CARL S. HENSON
REGISTERED
No. 14330
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER

Project:	2201011
Designed By:	JSS
Drawn By:	JSS
Checked By:	CSH
Scale:	1/8" = 1'-0"
Plot Date:	2/28/22
Revision:	1

Drawing Number:
E123



SYSTEMS PLAN
SCALE: 3/16" = 1'-0"

CODED NOTES.

1. ELECTRICAL CONTRACTOR SHALL ROUGH-IN BOXES AND CONDUIT FOR SECURITY CONTRACTOR TO INSTALL DEVICES.COORDINATE LOCATIONS WITH SECURITY CONTRACTOR.
2. PROVIDE DATA CONNECTION TO CAMERA IN SURGERY. CAMERA SHALL BE CONNECTED TO TV IN TREATMENT ROOM, CLASSROOM AND GROOMING AREA.
3. CONNECT FACP TO REMOTE ANNUNCIATOR PANEL LOCATED AT MAIN ENTRANCE.
4. ELECTRICAL CONTRACTOR SHALL ROUGH-IN BOX FOR MAGNETIC HOLD-OPEN DEVICE FOR FIRE DOOR. CONNECTIONS TO BE MADE BY FIRE ALARM SYSTEM INSTALLER.
5. PROVIDE 1 INCH CONDUITS TO IN-FLOOR DATA BOXES. SUPPLY TWO DATA BOXES PER 1 INCH CONDUIT TO MAINTAIN CONDUIT FILL REQUIREMENTS.

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Rev.	Description	By	Date
1	ISSUED FOR ADDENDUM	CSH	2/28/22

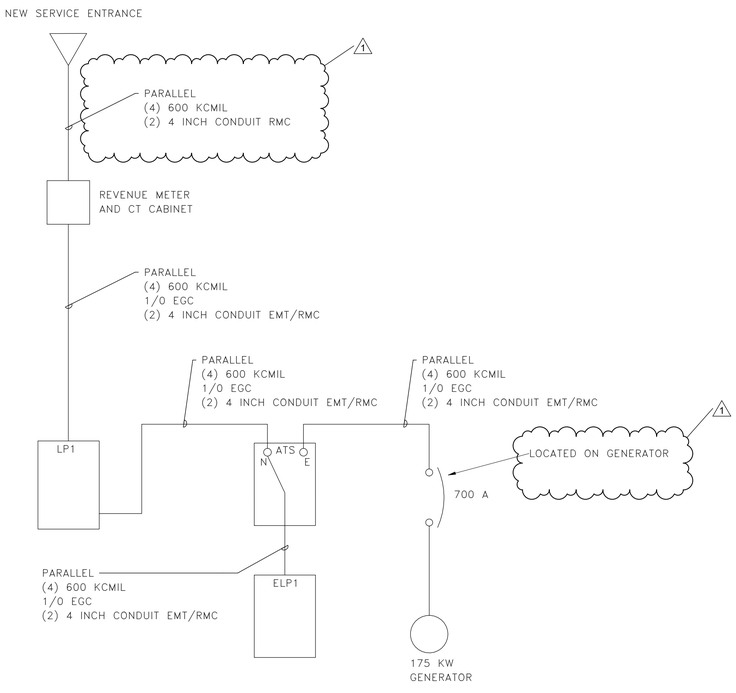
Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
SYSTEMS PLAN

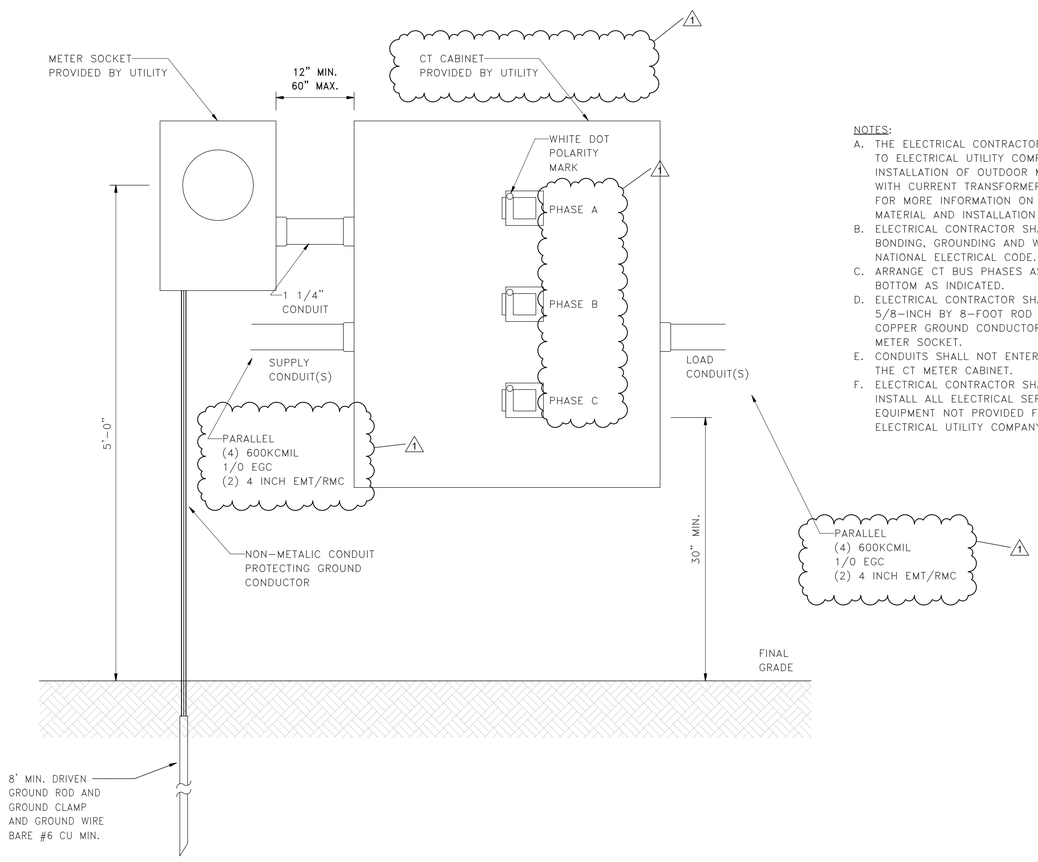
CARL S. HEASON
REGISTERED
No. 14330
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER

Project:	2201011
Designed By:	JSS
Drawn By:	JSS
Checked By:	CSH
Scale:	3/16" = 1'-0"
Plot Date:	2/28/22
Revision:	1

Drawing Number:
E130

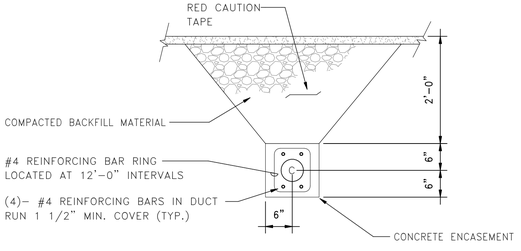


1 ELECTRICAL ONE LINE DIAGRAM
E501 SCALE: NTS



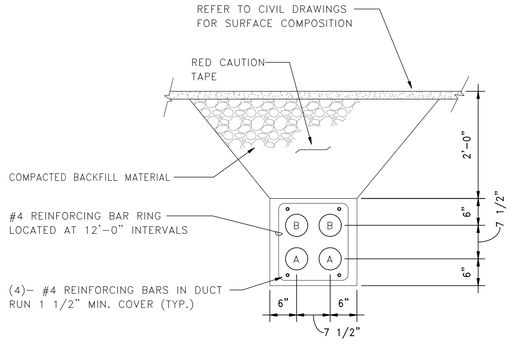
NOTES:
A. THE ELECTRICAL CONTRACTOR SHALL REFER TO ELECTRICAL UTILITY COMPANY'S INSTALLATION OF OUTDOOR METERING CABINET WITH CURRENT TRANSFORMER (CT) DETAILS FOR MORE INFORMATION ON CABINET MATERIAL AND INSTALLATION SPECIFICATIONS.
B. ELECTRICAL CONTRACTOR SHALL PROVIDE BONDING, GROUNDING AND WORK SPACE PER NATIONAL ELECTRICAL CODE.
C. ARRANGE CT BUS PHASES AS A-B-C TOP TO BOTTOM AS INDICATED.
D. ELECTRICAL CONTRACTOR SHALL FURNISH 5/8-INCH BY 8-FOOT ROD WITH A #6 AWG COPPER GROUND CONDUCTOR BONDED TO METER SOCKET.
E. CONDUITS SHALL NOT ENTER THE TOP OF THE CT METER CABINET.
F. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL ELECTRICAL SERVICE ENTRANCE EQUIPMENT NOT PROVIDED FROM THE ELECTRICAL UTILITY COMPANY.

2 ELECTRICAL SERVICE ENTRANCE
E501 SCALE: NTS



(A)- 1" SCHEDULE 80 PVC CONDUIT

A ELECTRICAL CONDUIT DUCT BANK DETAIL
E501 SCALE: NTS



(A)- 4" SCHEDULE 40 PVC CONDUIT
(B)- 1 1/2" SCHEDULE 40 PVC CONDUIT

B ELECTRICAL CONDUIT DUCT BANK DETAIL
E501 SCALE: NTS

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Rev.	Description	By	Date
1	ISSUED FOR ADDENDUM	CSH	2/28/22

Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
ELECTRICAL DETAIL DRAWINGS

CARL S. HENSON
REGISTERED
No. 14330
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER

Project:	2201011
Designed By:	JSS
Drawn By:	JSS
Checked By:	CSH
Scale:	NTS
Plot Date:	2/28/22
Revision:	1

Drawing Number:
E501

LIGHTING FIXTURE SCHEDULE

SYMBOL	VA	DESCRIPTION	LAMP DATA		MFGR	MODEL	COMMENTS
			CCT(K)	LUMENS			
A1	29.4	FLAT PANEL LED 2'X2' 0-10V DIMMING	4,000	3,930	LITHONIA	CPANL 2X2 AL01 SWW7	
A2	26.9	WET LOCATION 2X2 TROFFER	4,000	3,234	LITHONIA	2WRTL G L24 3000LM IAW AFL MVOLT GZ1 40K 80CRI WH	
B1	34	Architectural LED Suspended Linear ▯ Direct	4,000	4,000	LITHONIA	CSVT L48 AL03 MVOLT SWW3 80CRI STSL	
D1	75	1X4 SURGICAL TROFFER W/ OVERLAP DOOR FRAME. MIL STD RFI FILTER FOR LENS. ISO3 AND IP66 REATED	3,500	8,250	NEWSTAR	SS R 14 HC OA L3 35 1C S UN MS	
E		DUAL HEAD EXIT/EGERESS COMBINATION	3,200	0	ISOLITE	RLC-LED R U WH MTEB	
E1		DUAL HEAD EXIT/EGERESS COMBINATION WET LOCATION	3,200	0	ISOLITE	RWL-C EM 1 WH MTEBP EB	
F	277	EMERGENCY LIGHT	3,200	80	LITHONIA	ELM4L	
G	2	DUAL HEAD WEATHER-PROOF LED EGRESS	3,200	1,380	LITHONIA	MHV GY 1 LW	
H	49		4,000	1,800	LITHONIA	JSF 13IN 18LM 40K 90CRI MVOLT ZT WH	
K	28.5	WALL PACK	3,200	0	Acuity Brands Lighting	WDGE 2	
M	25	EXTERIOR SPECIALTY ARCHITECTURAL WALL PACK	4,000	3,021	LITHONIA	ARC1 LED P3 40K MVOLT FAO	
N	21	HIGH-PERFORMANCE LED FLOOD LUMINAIRE FOR FLAG POLE	3,200	2,965	LITHONIA	DSXF1LEDP140KWFLMVOLTVGDDBXD	

1

ELECTRICAL EQUIPMENT LIST & CONDUIT AND CABLE SCHEDULE

EQUIPMENT		LOAD INFORMATION					CONDUCTORS			CONDUIT		CONTROL			NOTES/COMMENTS
DESIGNATION	LOAD DESCRIPTION	VOLT	PHASE	(VA)	MCA	MOCP	QTY.	SIZE	EGC	SIZE	TYPE	FVNR	VFD	LOTO	
AC-1	AUTOCLAVE	120 V	1	1,200	10	20	2	12	12	3/4	RMC				NOTE 1
BC	GENERATOR BATTERY CHARGER	120 V	1	500	4.2	20	2	12	12	3/4	RMC				NOTE 2
BH	GENERATOR BLOCK HEATER	120 V	1	1,500	12.5	20	2	12	12	3/4	RMC				NOTE 2
EF-1	EXHAUST FAN	115 V	1	186.5	1.62	20	2	12	12	3/4	RMC				
EF-2	EXHAUST FAN	115 V	1	186.5	1.62	20	2	12	12	3/4	RMC				
EF-3	EXHAUST FAN	115 V	1	93.25	0.81	20	2	12	12	3/4	RMC				
EF-4	EXHAUST FAN	115 V	1	93.25	0.81	20	2	12	12	3/4	RMC				
EF-5	EXHAUST FAN	115 V	1	559.5	4.84	20	2	12	12	3/4	RMC				
EF-6	EXHAUST FAN	115 V	1	118	1.03	20	2	12	12	3/4	RMC				
EH-1	ELECTRIC HEATER	208 V	1	1,997	9.6	15	2	12	12	3/4	RMC				
EH-2	ELECTRIC HEATER	208 V	1	1,997	9.6	15	2	12	12	3/4	RMC				
EH-3	ELECTRIC HEATER	208 V	1	1,997	9.6	15	2	12	12	3/4	RMC				
EL-1	EXAM LIGHT	120 V	1	240	20	20	2	12	12	3/4	RMC				
HD	AIRBLADE HAND DRYER	120 V	1	1,404	11.7	15	2	12	12	3/4	RMC				
PR-1	PROJECTOR	120 V	1			20	2	12	12	3/4	RMC				NOTE 1
RCP-1	RECIRCULATING PUMP	120 V	1	55		20	2	12	12	3/4	RMC				
RTU-1	ROOF-TOP UNIT	208 V	3	59,374	153	175	3	4/0	6	3	RMC			Y	
SL-1	SURGERY LIGHT	120 V	1				2	12	12	3/4	RMC				NOTE 1
TT-1	TREATMENT TOWER	120 V	1	240	20	20	2	12	12	3/4	RMC				
TT-2	TREATMENT TOWER	120 V	1	240	20	20	2	12	12	3/4	RMC				
TT-3	TREATMENT TOWER	120 V	1	240	20	20	2	12	12	3/4	RMC				
VAV-1	VARIABLE AIR VOLUME TERMINAL	208 V	3	3,958	11	20	3	12	12	3/4	RMC			Y	
VAV-2	VARIABLE AIR VOLUME TERMINAL	208 V	3	8,276	23	30	1 3	10	10	3/4	RMC			Y	
VAV-3	VARIABLE AIR VOLUME TERMINAL	208 V	3	10,435 1	29	40	3	8	10	3/4	RMC			Y	
VAV-4	VARIABLE AIR VOLUME TERMINAL	208 V	3	93,780	94	60	3	6	10	1	RMC			Y	
VAV-5	VARIABLE AIR VOLUME TERMINAL	208 V	3	9,715	26	30	3	10	10	3/4	RMC			Y	
VAV-6	VARIABLE AIR VOLUME TERMINAL	208 V	3	4,318	8	20	3	12	12	3/4	RMC			Y	
VAV-7	VARIABLE AIR VOLUME TERMINAL	208 V	3	8,996 1	25	30	3	10	10	3/4	RMC			Y	
VAV-8	VARIABLE AIR VOLUME TERMINAL	208 V	3	7,556	21	30	3	10	10	3/4	RMC			Y	
VAV-9	VARIABLE AIR VOLUME TERMINAL	208 V	3	2,879	8	20	3	12	12	3/4	RMC			Y	
VAV-10	VARIABLE AIR VOLUME TERMINAL	208 V	3	5,757 1	16	20	3	12	12	3/4	RMC			Y	
VAV-11	VARIABLE AIR VOLUME TERMINAL	208 V	3	2,879	8	20	3	12	12	3/4	RMC			Y	
XRAY	XRAY TABLE	120 V	1			20	2	12	12	3/4	RMC				NOTE 1
XRAY GEN	XRAY GENERATOR	208 V	3			20	3	12	12	3/4	RMC				NOTE 1

NOTES:

1.EQUIPMENT SHOWN IS BASIS OF DESIGN. EC TO COORDINATE WITH OWNER AND EQUIPMENT PROVIDER FOR CIRCUIT LOADING AND INSTALLATION REQUIREMENTS.

2.GENERATOR BATTERY CHARGER AND BLOCK HEATER ARE BASIS OF DESIGN. COORDINATE WITH GENERATOR REQUIREMENTS.

3.

FLC = FULL LOAD CURRENT

MOCP = MAXIMUM OVERCURRENT PROTECTION DEVICE

EGC = EQUIPMENT GROUNDING CONDUCTOR

VFD = VARIABLE FREQUENCY DRIVE CONTROL

FVNR = FULL VOLTAGE NON-REVERSING STARTER, WITH OVERLOADS, CONTROL TRANSFORMER, START/ STOP PUSHBUTTONS AND AUXILIARY CONTACT

P = PARALLEL FEED

PICKERING ASSOCIATES
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Rev.	Description	By	Date
1	ISSUED FOR ADDENDUM	CSH	2/28/22

Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
ELECTRICAL SCHEDULES

CARL S. HENSON REGISTERED No. 14330 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER

Project:	2201011
Designed By:	JSS
Drawn By:	JSS
Checked By:	CSH
Scale:	NTS
Plot Date:	2/28/22
Revision:	1

Drawing Number:
E600

PANEL DESIG: LP1 — VOLTAGE: 208Y/120V 3PH 4W
LOCATION: MECH. 006 — FED FROM:
MOUNTING: SURFACE — MAIN SIZE: 800
NO. OF CKTS: 54 — 800 MAIN CIRCUIT BREAKER

ALL PHASES TO BE BALANCED WITHIN 7% USING ACTUAL CONNECTED LOAD

LOAD DESCRIPTION	(VA)	WIRE SIZE	CB/P	CKT. NUM.	A	B	C	CKT. NUM.	CB/P	WIRE SIZE	(VA)	LOAD DESCRIPTION
X-RAY GEN	0	#12	20/2	1				2	20/1	#12	0	X-RAY TABLE
				3				4	20/1	#12	911	LIGHTING
HD. HAND DRYER	1404	#12	15/1	5				6	20/1	#12	240	EXAM LIGHT EL-1
LIGHTING	499	#12	20/1	7				8	20/1	#12	1440	REC 014, 015
REC 013, 016	1080	#12	20/1	9				10	20/1	#12	350	LIGHTING
LIGHTING	1362	#12	20/1	11				12	20/1	#12	1080	REC 001,002
COPIER	1000	#12	20/1	13				14	20/1	#12	1000	REC UPPER 033
REC 009 EAST WALL	720	#12	20/1	15				16	20/1	#12	1290	REC 017 EAST WALL
REC CLASSROOM FLOOR	1080	#12	20/1	17				18	20/1	#12	970	REC 017 WEST WALL
REC 019, 020, 021	1440	#12	20/1	19				20	20/1	#12	1330	REC LOWER 033
REC RESOURCE ROOM	1440	#12	20/1	21				22	20/1	#12	1220	REC 009 WEST WALL
AUTOCLAVE, ACL-1	0	#12	20/1	23				24	20/1	#12	1080	REC 022, 024
REC 018, 027	1379	#12	20/1	25				26	20/1	#12	180	REC 032
TT-3	240	#12	20/1	27				28	20/1	#12	180	REC 007,008
TT-2	240	#12	20/1	29				30	20/1	#12	250	SCALES
TT-1	240	#12	20/1	31				32	20/1	#12	1440	REC 003,004,005,006
REC 030, 031	1260	#12	20/1	33				34	20/1	#12	0	PROJECTOR, PR-1
REC 028	360	#12	20/1	35				36	30/2	#10	6200	DRYER
EH-2	1997	#12	15/2	37				38				
				39				40	20/1	#12	600	EQUIPMENT
EH-3	1997	#12	15/2	41				42	20/1	#12	1110	RECEPTACLE
				43				44	15/2	#12	1997	EH-1
SIGN LIGHTING AND RECEPTACLE	201	#12	20/1	45				46	15/2	#12	1997	EH-1
BATTERY CHARGER	500	#12	20/1	47				48	20/1	#12	1500	BLOCK HEATER
				49				50				
				51				52				
				53				54				

N.E.C. Connected Load Summary — Breaker Options (if used)

Lighting:	3.61 KVA	Motors:	11.65 KVA	AS – Powerlink "AS" Breaker	QO – Standard "QOB" Bolt-On Bkr.
Receptacles:	36.58 KVA	Heating:	217.92 KVA	LO – Lock-On Device	HR – HACR Rated Circuit Breaker
Equipment:	0.60 KVA	Total:	270.36 KVA 750.46 A	GF – GND Fault CKT Interrupter	

PANEL DESIG: ELP1 — VOLTAGE: 208Y/120V 3PH 4W
LOCATION: MECH. 006 — FED FROM: LP1
MOUNTING: SURFACE — MAIN SIZE: 800
NO. OF CKTS: 54 — 800 MAIN CIRCUIT BREAKER

ALL PHASES TO BE BALANCED WITHIN 7% USING ACTUAL CONNECTED LOAD

LOAD DESCRIPTION	(VA)	WIRE SIZE	CB/P	CKT. NUM.	A	B	C	CKT. NUM.	CB/P	WIRE SIZE	(VA)	LOAD DESCRIPTION
RTU-1	59374	#4/0	200/3	1				2	20/1	#12	646	EF-1,-2,-3
				3				4	20/1	#12	833	EF-4,-5
				5				6				
VAV-3	10435	#8	40/3	7				8	60/3	#6	9715	VAV-5
				9				10				
				11				12				
VAV-1	3958	#12	20/3	13				14	30/3	#10	8276	VAV-2
				15				16				
				17				18				
SURGERY LIGHT SL-1	0	#12	20/1	19				20	60/3	#6	93780	VAV-4
				21				22				
VAV-6	4318	#12	20/3	23				24				
				25				26	30/3	#10	8996	VAV-7
				27				28				
VAV-8	7556	#10	30/3	29				30				
				31				32	20/3	#12	2879	VAV-9
				33				34				
VAV-10	5757	#12	20/3	35				36				
				37				38	20/3	#12	2879	VAV-11
LIGHTING IN ANIMAL AREAS	470	#12	20/1	39				40				
REC SURGERY	1440	#12	20/1	41				42	20/1	#12	1800	REFRIGERATOR RESOURCE ROOM
REFRIGERATOR WORK ROOM	1800	#12	20/1	43				44	20/1	#12	1800	REFRIGERATOR CLASSROOM
RCP-1	55	#12	20/1	45				46	20/1	#12	790	RECEPTACLE
				47				48				
				49				50				
				51				52				
				53				54				

N.E.C. Connected Load Summary — Breaker Options (if used)

Lighting:	0.47 KVA	Motors:	1.17 KVA	AS – Powerlink "AS" Breaker	QO – Standard "QOB" Bolt-On Bkr.
Receptacles:	7.99 KVA	Heating:	217.92 KVA	LO – Lock-On Device	HR – HACR Rated Circuit Breaker
Equipment:	KVA	Total:	227.56 KVA 631.64 A	GF – GND Fault CKT Interrupter	

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Rev.	Description	By	Date
1	ISSUED FOR ADDENDUM	CSH	2/28/22

Drawing Description

PIERPONT COMMUNITY & TECHNICAL COLLEGE
501 W MAIN ST. CLARKSBURG, WV
PIERPONT VET TECH RELOCATION
ELECTRICAL PANEL SCHEDULES

CARL S. HENSON REGISTERED No. 14330 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER

Project:	2201011
Designed By:	JSS
Drawn By:	JSS
Checked By:	CSH
Scale:	NTS
Plot Date:	2/28/22
Revision:	1

Drawing Number:
E601