ADDENDUM NO. 02

January 31, 2022

Perry Township Academic Center
2115 E. Southport Road
Indianapolis, IN, 46227

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications, and the Drawings dated January 5, 2022, by Schmidt Associates. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 2-1 through ADD 2-3, and attached Schmidt Associates Addendum No. 2, dated January 31, 2022, consisting of 3 pages, RFI Questions and Answers consisting of 2 pages, Preliminary Submittal Data for Vertical Unit Ventilators consisting of 19 pages, and Drawing Sheets: CL501, AF101, A-600, M1B1, M611, PS101, EP1B1, EP1C1, E612 and E613:

BID OPENING
The Bid Opening on Thursday, February 3, 2022, at 2:00 PM (local time) **will be a virtual Microsoft Teams Meeting only (no in-person attendance).** Sealed bids are to be delivered/sent to the address indicated in the Notice to Bidders.

Bid Opening Teams Meeting

Join on your computer or mobile app
Click here to join the meeting
Or call in (audio only)
+1 317-762-3960,926325203# United States, Indianapolis
Phone Conference ID: 926 325 203#
Find a local number | Reset PIN

A. **SPECIFICATION SECTION 01 12 00 MULTIPLE CONTRACT SUMMARY**

1. Paragraph 3.03A Bid Categories

A. Bid Category No. 1- General Trades

1. Delete the following specification section:

Section	01 51 60	Temporary Sanitary Facilities

2. Replace the following clarifications:

6. Owner shall designate existing toilet rooms for use by all contractors. Bid Category No. 1 Contractor shall maintain paper goods and soap stock within these existing toilet rooms and clean same at the end of each workday. This Contractor shall ensure that their field personnel and their subcontractor's personnel treat these existing facilities with respect. Any repairs required due to damage during the construction period will be split amongst the four (4) Bid Categories at the Construction Manager's discretion. Sinks in these toilet rooms shall **not** be used for the cleaning of tools, buckets, brushes, sponges, etc., use the mop sinks located in Janitor's Closets.
18. Provide temporary partitions, including secured doors into each space, as indicated on PP-001 Phasing Plan. Include an allowance of $5,000 for additional interior temporary partitions and floor protection.

3. Add the following clarifications:

28. Include a separate $38,000 allowance for brick/maintenance repairs within your Base Bid.
29. The main electrical room panels shall be replaced by Bid Category No. 3 Contractor during Spring Break 2022 (03/28/22 – 04/10/22).

B. Bid Category No. 2- Mechanical/Plumbing/Fire Protection

1. Add the following clarifications:

7. The main electrical room panels shall be replaced by Bid Category No. 3 Contractor during Spring Break 2022 (03/28/22 – 04/10/22).
8. Owner shall designate existing toilet rooms for use by all contractors. Bid Category No. 1 Contractor shall maintain paper goods and soap stock within these existing toilet rooms and clean same at the end of each workday. This Contractor shall ensure that their field personnel and their subcontractor's personnel treat these existing facilities with respect. Any repairs required due to damage during the construction period will be split amongst the four (4) Bid Categories at the Construction Manager's discretion. Sinks in these toilet rooms shall **not** be used for the cleaning of tools, buckets, brushes, sponges, etc., use the mop sinks located in Janitor's Closets.

C. Bid Category No. 3- Electrical/Technology

1. Add the following clarifications:
   5. The main electrical room panels shall be replaced by Bid Category No. 3 Contractor during Spring Break 2022 (03/28/22 – 04/10/22). Provide temporary electric distribution, as required, to maintain the operations of all contractors affected by this outage.
   6. Owner shall designate existing toilet rooms for use by all contractors. Bid Category No. 1 Contractor shall maintain paper goods and soap stock within these existing toilet rooms and clean same at the end of each workday. This Contractor shall ensure that their field personnel and their subcontractor's personnel treat these existing facilities with respect. Any repairs required due to damage during the construction period will be split amongst the four (4) Bid Categories at the Construction Manager's discretion. Sinks in these toilet rooms shall **not** be used for the cleaning of tools, buckets, brushes, sponges, etc., use the mop sinks located in Janitor's Closets.

D. Bid Category No. 4- Food Service

1. Add the following clarifications:
   2. Owner shall designate existing toilet rooms for use by all contractors. Bid Category No. 1 Contractor shall maintain paper goods and soap stock within these existing toilet rooms and clean same at the end of each workday. This Contractor shall ensure that their field personnel and their subcontractor's personnel treat these existing facilities with respect. Any repairs required due to damage during the construction period will be split amongst the four (4) Bid Categories at the Construction Manager's discretion. Sinks in these toilet rooms shall **not** be used for the cleaning of tools, buckets, brushes, sponges, etc., use the mop sinks located in Janitor's Closets.

ADDENDUM NO. 2
JANUARY 31, 2022

PREPARED BY SCHMIDT ASSOCIATES FOR:

PERRY ACADEMIC CENTER JWR RENOVATION AND IMPROVEMENTS
PERRY TOWNSHIP SCHOOLS

This Addendum consists of 3 Addendum pages and 31 attachment pages totaling 34 pages.

Acknowledge receipt of this Addendum by inserting its number on the Bid Form. Failure to do so may subject the Bid to disqualification. This Addendum is part of the Contract Documents.

Bidder is encouraged to verify with reprographer of record all Addenda issued (do not rely exclusively on third party plan room services).

PART 1 - CHANGES TO PRIOR ADDENDA (NOT APPLICABLE)

PART 2 - CHANGES TO THE PROJECT MANUAL

Modifications described herein shall be incorporated in the Project Manual. All other Work shall remain unchanged.

2.1 DIVISION 23 - HEATING, VENTILATING, AND AIR-CONDITIONING(HVAC)

A. **Section 235416 "GAS FIRED CONDENSING FURNACES"**

1. ADD Paragraph 2.2.C. as follows:

   "Honeywell thermostats shall be wi-fi enabled for remote monitoring by Owner via the internet. Provide all hardware and components to connect thermostats to the Owner's WiFi."

B. **Section 238224 "VERTICAL UNIT VENTILATORS"**

1. ADD Preliminary Submittal Data for Contractor reference to show general intent per the attached.

PART 3 - CHANGES TO THE DRAWINGS

Modifications described herein shall be incorporated in the Drawings. All other Work shall remain un-changed.

3.1 DRAWING SHEETS: ADDITIONS, DELETIONS AND REPLACEMENTS

DRAWING NO.	INDICATE ACTION: REPLACE (R), ADD (A), DELETE (D)
C-SERIES DRAWINGS	
CL501	DELETE AND REPLACE
A-SERIES DRAWINGS	
AF101	DELETE AND REPLACE
A-600	DELETE AND REPLACE
M-SERIES DRAWINGS	
M1B1	DELETE AND REPLACE
M611	DELETE AND REPLACE
P-SERIES DRAWINGS	
PS101	DELETE AND REPLACE
E-SERIES DRAWINGS	
EP1B1	DELETE AND REPLACE
EP1C1	DELETE AND REPLACE
E612	DELETE AND REPLACE
E613	DELETE AND REPLACE

3.2 A-SERIES DRAWINGS

A. **Drawing Number AD1B1**

1. DELETE Note 12 from Office 171.

B. **Drawing Number AF1A1**

1. ADD Note 22 to the two exterior doors on the west side of Unit A.

C. **Drawing Number AF1B1**

1. ADD Note 22 to the exterior door of Teacher Training 147.

D. **Drawing Number AC1A1**

1. ADD Note 16 to Corridor 102, Kitchenette 103, Corridor 104, Corridor 114, Corridor 116 and Corridor 124 as follows:

   "16. REFER TO MEP-SERIES DRAWINGS FOR NEW WORK. ALL EXPOSED DUCTWORK, CONDUIT, PIPING, ETC. IS TO BE PAINTED – TYP. OF ALL SPACES."

E. **Drawing Number A-400**

1. MODIFY Detail 2D to remove the reference to 07 17 00 -WATERPROOFING, BENTONITE.

3.3 I-SERIES DRAWINGS

A. **Drawing Number I-201**

1. MODIFY Note on detail 4D to remove reference to alternate. Acoustic Wall Panels are to be included in the Base Bid.

3.4 E-SERIES DRAWINGS

A. **Drawing Number E611**

1. ADD Note to Interior and Exterior Lighting Fixture Schedules as follows:

   "Approved Equal Manufacturers:

   i. Type F03-12 = Delviro Energy DTL-RECTR4.5 series
   ii. Type F50 = H.E. Williams 6CR-TL series
   iii. Type FH = Acclaim Lighting LN series
   iv. Type FN = MaxLite WP-AD series"

END OF ADDENDUM 2

AVAILABLE PROJECT INFORMATION

The following Contractors' Questions and Answers sheet is being made available to Bidders for informational purposes only and is not a part of the Addendum.

Perry Township Schools
Perry Academic Center JWR Renovation and Improvements
2021-064.PAC

CONTRACTOR'S QUESTIONS AND ANSWERS – ADDENDUM #2

1. Q: Door schedule page A-600 – Quite a bit of information for the frames are missing – Material, Marks.
   A: See Addendum #2

2. Q: On sheet AD1B1, the existing carpet at Office 171 is scheduled to be removed. On sheet IN1B1, no new interior work is scheduled at Office 171. Please confirm removal and/or replacement of the flooring at Office 171.
   A: See Addendum #2.

3. Q: On sheet AD1B1, the existing carpet at Student Waiting 166 and 167 is scheduled to be removed. On sheet IN1B1, no new interior work is scheduled Student Waiting 166 and 167 at Unit B.
   A: New flooring finish is indicated for 166 and 167 on IN1B1.

4. Q: Elevation 4D on I-201 calls out for an alternate to provide AWP-2 panels at Cafeteria 160 West wall. Please specify what material AWP-2 is.
   A: See Addendum #2.

5. Q: Reference the bentonite waterproofing note at Sect. 2C/A-400. Is bentonite waterproofing required at all sides and bottom of the elevator pit? Do you have a specification section? If required, we assume by Bid Category #1.
   A: See Addendum #2.

6. Q: In unit A on print TD1A2 it shows existing speakers and floor boxes with data cables to remain. I just wanted to clarify to be certain because that ends up being around 14 speakers and 130 data cables. Are the speakers and data cabling associated with print T1A2 all existing to remain? If so the Telecomm side will have no work on this print.
   A: That is correct. The speakers and data cabling in Unit A are existing to remain. There is currently no telecom work in Unit A.

7. Q: Reference details 1A and 1B/CL501. May fiber mesh be used in lieu of welded wire mesh for the standard concrete pavements (1A/CL501), similar to the heavy-duty concrete pavement (1B/CL501)?
   A: See Addendum #2.

8. Q: At Entry 101, the existing ceramic tile is scheduled to be removed in accordance with Note 15 on sheet AD1A1. Walk-off carpet is scheduled to be installed in accordance with sheet IN1A1. Is it known if the existing tile is "thick-set" or "thin-set"? Would it be acceptable to leave the tile in place and apply latex or a similar floor preparation material over the tile, installed as approved by the manufacturer, and install the walk-off carpet over the tile?

A: The setting bed of the existing tile is not known. Due to the elevation difference between the lobby floor and the adjacent floors, the tile should be removed as indicated on the drawings.

9. Q: Reference Plan Note 22 at the north entrance at Corridor 165A. This dimensional letter is not depicted on the Overall Floor Plan, sheet AF101. We interpret that this entrance is number "11". Note that there are three existing entrances at the west side of Units A and B that do not depict any entrance numbers. The overhead doors at Unit C have no entrance numbers. Please confirm that this is the designers intent.
   A: See Addendum #2.

10. Q: Per our meeting on site, there are several existing doors and frames that get removed and replaced with a more commercial grade door and frame (i.e. 106, 106A, 107 and 108). There is no material designation for these openings on the Door & Frame Schedule on sheet A-600. Please confirm. Are "knock-down" hollow metal frames acceptable for existing openings? Please confirm.
    A: See Addendum #2 for frames. See Section 08 11 13 Paragraph 2.2.B.3.C for interior door frame construction.

11. Q: If it is the intent to remove the existing door frames, the word "existing" should be removed from the "material" column under "frames". The Door & Frame Schedule Note 1 doesn't always correspond with the word "existing" and is creating confusion for suppliers. The appropriate frame material should be noted for all openings on the schedule. A new frame elevation may need to be added for openings in masonry to work coursing. Are "knock-down" frames acceptable in existing openings? Opening 193.1 is an exterior opening. A wood door is scheduled for this opening. This should be changed to hollow metal.
    A: See Addendum #2. See Section 08 11 13 Paragraph 2.2.B.3.C for interior door frame construction.

12. Q: Print T1A1 shows the main entry getting an AI phone with door release. I don't see anything calling for a card reader or composite cable to the door.
    1.) Will this door be new or retrofit?
    2.) What type of cable needs ran for the door? A composite cable for complete card access or a control cable to release the lock?
    3.) Who is responsible for the rough in?
    A: This is an existing door and hardware with and existing Aiphone and card reader. The intent is to replace the existing Aiphone in the same location as the existing and tie it in to the existing door controls.

R.E. Dimond and Associates, Inc.

Consulting Engineers

LETTER OF TRANSMITTAL

PRELIMINARY VUV SUBMITTAL. COORDINATE WITH VENDOR.

732 NORTH CAPITOL AVENUE
INDIANAPOLIS, IN 46204

TO: Skillman Corporation	DATE: 1/26/2022	D&A#: 21072
3834 S. Emerson Ave	RE: Perry Township Academic Center	
Indianapolis, IN 46203		
ATTN: Kevin Gujral		

WE ARE SENDING THE FOLLOWING:

☐ ATTACHED	☐ PLANS	☐ PRINTS	☐ LETTER
☐ SPECIFICATIONS	☒ SHOP DRAWINGS	☐ CHANGE ORDER	☐ OTHER

VIA:

☐ UPS	☒ MAIL/E-MAIL	☐ DELIVERED	☐ PICKED UP

QUANTITY	DATE	DESCRIPTION
1	1/12/2022	VUV Pre Purchase

THESE ARE TRANSMITTED AS CHECKED BELOW:

☐ FOR APPROVAL	☐ FOR YOUR USE	☐ REVIEWED AS SUBMITTED
☐ AS REQUESTED	☐ FOR REVIEW & COMMENT	☒ REVIEWED AS NOTED
☐ FOR BIDS DUE:	☐ RETURN PRINTS	☐ RETURNED FOR CORRECTIONS
☐	☐	☐ REJECTED/RESUBMIT

REMARKS:

CC:	SIGNED: Paul Gloyeske
1-D&A Files	

IF ENCLOSURES ARE NOT AS NOTED, PLEASE NOTIFY US AT ONCE AT:
PHONE: 317γ634-4672 FAX: 317γ638-8725
Paul.gloyeske@redimond.com

PROPOSAL FORM

Perry Academic Center VUV Pre-Purchase
Perry Township Schools
January 4, 2022

Base Proposal:

$ 58,950.00

The undersigned agrees to perform the services set forth in this proposal. The undersigned also covenants that he/she is fully empowered to execute and deliver this proposal on behalf of the proposer and that, if accepted by the Perry Township Schools, this proposal shall represent a lawful and binding obligation of the Proposer.

Firm Name: Engineered Air

Address: 301 E Carmel Drive Suite G 400

City, State and Zip: Carmel, IN, 46032

Phone #: 317-564-4885 Fax#: 317-564-4886

Email Address: INDianapolis e engineeredair.com or henry.berman e engineeredair.com

Prices Firm Through: Order Entry By 2/28/22 Delivery By 8/30/22

Payment Terms: NET 30

Delivery Date: 18-19 wks From Production Release

By: _____ Henry Berman
(Representative Signature) (Representative Typewritten Name)

PROVIDE PRELIMINARY SUBMITTALS WITH YOUR QUOTE.

R.E. Dimond and Associates, Inc.

Reviewed and checked only for conformance with design concepts and with information given in the Contract Documents. Approval does not release the Contractor from the responsibility to provide appropriate quantities, field measurements, dimensional stability, installation, anchorage and coordination with other trades, or release the Contractor from responsibility for deviations from the requirements of the Contract Documents, or from responsibility for errors and omissions contained thereon.

☐ Reviewed as Submitted
☒ Reviewed as Noted
☐ Rejected-Correct and Resubmit
☐ See Attached Comment Sheet(s)

By: Mike East (pg)
Date: 1/26/2022

DIVISION OF AIRTEX MANUFACTURING, INC.
INDIANA SALES
301 East Carmel Dr. Suite G-400, Carmel, IN 46032
Phone (317) 564-4885 Fax (317) 564-4886
indianapolis@engineeredair.com

To:	**Perry Township Schools**	**From:**	**Henry Berman**
Project:	**Perry Academic Center**	**Date:**	January 12, 2022
Location:	**Indianapolis, Indiana**	**Page:**	**1of 3 plus attachments**

Quote # QTC1-48-25HB

Engineered Air is pleased to provide the following scope & pricing for vertical in classroom indirect fired gas heating & air conditioning units (condensing units by others) per contract documents M1B1 dated 12/14/2021, M611 dated 12/14/2021 and specification section 23 82 24 Vertical Unit Ventilator – Pre purchase and as noted below. See unit features below.

The prices in this quotation are based on Engineered Air (EngA) terms and conditions only (attached for reference). Orders based on quotations are subject to our acceptance and price is subject to confirmation at time of order.

Quantity: (4) TAG #'s VUV A,B,C,D

Engineered Air model "RUVG" 1200 Unit Ventilator

Unit Description:

- 16-gauge steel casing, including doors and stamped return inlet louver.
- 1" Closed Cell Insulation except for lined burner section.
- Vertical Top Discharge c/w Duct Connection.
- 12" High 5 sided Insulated & Painted Unit Top Skirt Extension to Ceiling Line (shipped loose-Duct connection openings to be field cut by others).
- Blow Through Unit Configuration.
- 304 Stainless Steel Drain Pan.
- 120/1/60 PSC Direct Drive Motor c/w manual motor speed controller.
- DWDI FC Fan sized per schedule.
- 2" MERV 8 filters + (2) spare sets for each unit (3-sets total shipped loose).
- High Efficiency 81% Indirect Fired Natural Gas Heat Exchanger 2:1 Turndown. (7" Gas Inlet Pressure)
- Co-Axial Venting connection, adaptor. Coaxial duct by others
- Split-DX Cooling Coil c/w TXV valve installed on coil (Condensing Unit & Refrigeration Specialties Provided By Others).
- DX Cooling Coil connection to top of unit. (3" stub out top) .
- Natural Gas connection to stub out back of unit in piping pocket. Shut off valve and dirt leg by installing contractor.
- DDC Carel Controller c/w Unit Thermostat (Temperature Sensor w/ Night Setback option shipped loose field installed by contractor).
- Fully Modulating Economizer Section.

- Air Foil OA & RA dampers with factory mounted actuators- 2-10 volt-Spring Return.
- Complete Factory Wiring with dedicated raceway.
- Factory mounted non-fused disconnect switch.
- Door Interlock to Main Panel. Factory wired to disconnect power to unit.
- 8" Insulated & painted false back plenum section for O/A Intake. O/A opening field cut by installing contractor.
- Access doors as required with 2 cam locks per panel
- All cabinet sheet metal to be electrostatic powder coated.
- Standard Textured Santex White Finish or Color as selected by Architect from Engineered Air Standard Color Chart.

Warranty

- Standard warranty, 12 months from date of shipping or 18 months from date of startup
- Extended warranty limited parts warranty 5 years from start up.

Start-up Service

- Factory authorized start-up provided for initial start-up
- Owner training provided as specified
- Incudes (1) one additional site visit for final unit adjustment.

Items shipped loose for contractor installation:

- 2-set of extra filters (3-sets total)
- Unit Thermostat
- (1) Spare 120/1/60 motor
- (1) Spare gas valve
- 12" High 4 sided Insulated Top Skirt Extension

Items specifically excluded from this scope:

- Wiring of Room Sensor
- Unit Installation / Wiring
- Unit Piping
- Unit venting pipe / duct
- Exterior Louver
- Wall Sleeve
- 410A Refrigerant charge
- Any items not referenced in this scope
- All warranty labor

Clarifications to specifications:

Units provided are 81% per schedule but are not condensing furnaces. Specification called out ANSI standard ANSIZ21.47/CSA 2.3 which does not apply to this type of unit. Engineered Air unit is certified to ANSI Z83.8-2016 • CSA 2.6-2016, Gas unit heaters, gas packaged heaters, gas utility heaters, and gas-fired duct furnaces.

Total Base Price:

Including freight, for Four (4) units Tag # VUV A,B,C and D ..... $ 58,950.00

- Net 30 Days with Approved Credit
- All Taxes Extra
- Quotation Valid for 30 Days
- Standard Engineered Air Terms and Conditions Attached

Lead Time Guide : Estimated shipping target 18-19 weeks after written project release received at factory. For approval factory submittals with pre-production package 2-3 weeks from order entry. Actual lead times will vary subject to engineering and plant loading, and vendor component availability at time of release.

NOTE:

This Quotation/ Scope Letter (inclusively "Quote") include ONLY the design and manufacture of the goods specifically described and specified herein. The goods conform to Engineered Air ("EngA")'s standard construction methods unless specifically noted to the contrary. Buyer understands that any alteration or deviation from this Quote may alter the price of this Quote. Buyer understands that any purchase orders and/or submittals may not exceed the scope of this Quote. Further, EngA DOES NOT WARRANT OR REPRESENT THAT THE EQUIPMENT COVERED IN THIS SCOPE MEETS ANY OTHER SPECIFICATION, PROCEDURE, LAW, ORDINANCE, CODE OR REGULATION.

I am available to answer any questions regarding this quotation at your convenience.

Respectfully,

Henry Berman
Manager Indiana Sales

ENGINEERED AIR GENERAL TERMS AND CONDITIONS

5. **LIMITED WARRANTY:** EA warrants that under normal use and service, the Goods sold pursuant to this Agreement shall be free from defects in material and workmanship for the period of one (1) year from the date of initial startup or eighteen (18) months from the date of shipment, whichever expires sooner. If within this period, Buyer notifies EA in writing of any claimed defect in the Goods, and EA, at its sole discretion, finds that such Goods are not in conformity with this warranty, EA will at its option, either repair the Goods or provide a replacement therefore. Any such repair or replacement shall be at no cost to the Buyer except Buyer shall be responsible for all shipping costs incurred by either party in effecting the repair or replacement of any Goods.

6. **WARRANTY LIMITATION:** Under no circumstances shall EA be liable to, nor indemnify, Buyer or any third parties for any claims, losses, labor, expenses damages (special, indirect, incidental, or consequential) of any kind, resulting from the performance (or lack thereof) of this Agreement or the use of, or inability to use the Goods sold hereunder including, but not limited to, damages for delay, temporary heating/cooling costs, loss of goodwill, loss of profits or loss of use. Furthermore,

THE WARRANTY IN § 5 ABOVE IS IN LIEU OF ALL OTHER WARRANTIES EITHER EXPRESS OR IMPLIED. EA DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE.

7. **LIMITATION OF LIABILITY:** The parties agree that the Buyer's sole remedy under this Agreement shall be limited to the repair or replacement of any defective Goods, or, at EA's option, credit for the original price set forth above. In no circumstance, however, shall any award against EA exceed the original contract price whether awarded through arbitration or litigation.

8. **CANCELLATIONS:** The Contract resulting from this Agreement cannot be cancelled, terminated or modified in whole or in part, nor shall releases be held up by Buyer after the Goods are in process by a factory without respect to whether or not the Order is released, except with EA's consent in writing and then only upon terms and conditions to be agreed upon which shall include protection of EA against all loss direct, indirect, incidental and consequential. EA reserves the right to charge costs if EA, at its sole discretion, allows a cancellation as described above. Buyer agrees to pay any transportation costs associated with its breach of this agreement. In addition, EA reserves the right to, upon EA's option, charge costs to the Buyer for any work done on submittals even if the order is not yet in process at a factory.

9. **DELIVERY:** Time is not of the essence of this contract. Expected shipping dates provided by EA are approximate only. Even if a specified time of delivery is requested through EA's express written consent (only as provided herein), time is not made of the essence. EA shall, under no circumstance, be liable for any delay or failure to perform in whole or in part, directly or indirectly resulting from or contributed to by acts of God, war, riot, embargoes, acts of civil or military authorities, national emergencies, insurrection or riots, fires, floods, strikes, work stoppage, accidents, casualties, inability to procure supplies raw materials, delays in transportation, shortage of cars, or other causes beyond EA's control. A specified time of delivery or change in delivery location may only be requested and, approved at EA's sole discretion, if a properly executed Waiver and Release for Delivery at a Requested Time and/or Change of Delivery Destination ("Waiver and Release") is signed by the Buyer, an authorized representative of EA and attached to this Agreement and is thereby integrated for that instance alone. Nothing in the Waiver and Release shall be construed as changing or amending this Agreement that time is not of the essence.

10. **LOSS OR DAMAGE IN TRANSIT:** Delivery shall be made F.O.B. place of shipment. The carrier and Buyer shall assume all responsibility for the Goods (including assuming title and risk of loss) at the place of shipment ("F.O.B. Point"). All shipping and transportation charges shall be the responsibility of the Buyer. In case of loss or damage by the carrier or failure to receive shipment within a reasonable time, Buyer must immediately notify EA and carrier's agent at the destination. This action is necessary in order to preserve rights against the carrier and to substantiate a formal claim against the carrier, however, EA shall not be liable for any damage, loss or expense resulting from anything occurring during, or attributable to transportation. The Buyer shall pay any storage or transportation costs associated with Buyer's refusal to accept the Goods upon delivery. The destination to which the Goods shall be delivered is as stated on the front of this Agreement in the "Ship To:" section (the "Place of Delivery"). The Place of Delivery may only be modified or amended, upon EA's sole discretion, if Buyer agrees in writing to EA's Waiver and Release. A copy of said Release is only valid to change the Place of Delivery if signed by an authorized EA representative and attached to
is only valid to change the Place of Delivery if signed by an authorized EA representative and attached to this Agreement and is thereby integrated for that instance alone, otherwise, this Section shall be conclusive and govern this Agreement. Nothing in the Waiver and Release shall be construed as changing or amending this Agreement that delivery of the Goods shall be F.O.B. place of shipment.

11. **BREACH:** Any of the following acts shall constitute a breach of Buyer's obligations hereunder: (a) Default by the Buyer; (b) failure to accept conforming Goods

supplied hereunder (Goods shall be conclusively deemed conforming if such Goods comply with governing submittals as described in Section 1 & 2 of this Agreement); (c) return of any Goods shipped to Buyer hereunder without the written consent of EA; (d) filing of a voluntary petition in Bankruptcy or any preceding insolvency of Bankruptcy (including reorganization, assignment for the benefit of creditors, or the appointment of a trustee or special master); or (e) any other act by Buyer in violation of any provision of this Agreement. In the event of Breach, EA may, with or without written notice to Buyer, rescind or terminate the Buyer' Purchase Order covered by this Agreement, or any part thereof, without incurring any liability whatsoever, in addition to pursuing any other rights and remedies available to EA at law or equity. Buyer must pay all costs incurred by EA in any action brought by EA to enforce its rights under this Agreement or collect payments, including reasonable attorneys' fees.

12. **ARBITRATION: Any controversy or claim arising from or relating to this Agreement, or the breach thereof, except as otherwise specifically provided herein, shall be settled by arbitration administered by the American Arbitration Association under its Construction Industry Rules, and judgment on the award rendered by the arbitrator(s) may be entered in any court having jurisdiction thereof.** In the event that any party's claim exceeds One Million dollars ($1,000,000), exclusive of interest and attorneys' fees, the dispute shall be heard and determined by three (3) arbitrators. In this situation, the arbitrators will be selected from a panel having knowledge of the construction industry and at least on one the arbitrators selected will be an attorney. The parties may mutually agree to waive this requirement if done so in writing. **The place of any arbitration shall be in Johnson County, Kansas (U.S.A.).** If any costs are incurred by EA to force arbitration, the Buyer agrees to pay any such costs. Legal costs associated with any arbitration shall be divided based on the Arbitration Award.

13. **FORUM SELECTION AND GOVERNING LAW:** This Agreement shall be governed by and interpreted in accordance with the laws of the **State of Kansas (U.S.A.).** The parties acknowledge that this agreement evidences a transaction involving interstate commerce. The United States Arbitration Act shall govern the interpretation, enforcement and proceedings pursuant to the arbitration clause in this agreement. In the event that any judicial litigation is ever initiated arising from or related to this Agreement, the parties agree that such litigation will be brought in **Johnson County Kansas District Court (or the encompassing federal court, if removed)** and the parties waive any objection to personal jurisdiction or venue in any forum in said district.

14. **INDEMNIFICATION FOR INFRINGEMENT:** If the Goods to be manufactured are per the Buyer's specifications or plans, Buyer shall indemnify, defend and hold EA harmless from any third party claim of infringement or non-compliance of any nature with any applicable laws or regulations.

15. **CONFIDENTIALITY; LIMITED USE:** Unless otherwise agreed by EA in writing, Buyer shall keep confidential and not disclose to any third party, any confidential and/or proprietary materials provided by EA in connection with any submittals, scope letters and/or quotations, including, but not limited to any drawings, masters, software, specifications, raw materials, components, data, business information or plans, customer lists or any other customer information ("Confidential Information"). Buyer shall use Confidential Information solely as is necessary for Buyer to properly, operate, maintain or repair the Goods. Buyer shall not, without EA's written consent, directly or indirectly use

Confidential Information or information derived therefrom in performing services or providing goods to any other person or entity. Buyer may not otherwise profit, directly or indirectly, from the use, transfer, or sale of such Confidential Information. EA shall have all remedies allowed by law and equity to enforce this Provision.

16. **WAIVER:** Any waiver by EA of default or breach by Buyer shall not be deemed to be a continuing or permanent waiver of such default or any other breach of the provisions contained herein.

17. **SIGNATURES AND BINDING EFFECT:** The parties acknowledge that a signature, if required, may be in the form of facsimile or email confirmation and such shall satisfy the requirement of both a writing and a signature to be binding, otherwise this Agreement shall be binding in accordance with the terms set forth in Section 1 hereof without a signature. Buyer may also accept the Terms and Conditions of this Agreement by signing any EA Credit Application, as described above. Furthermore, the signer or author of an email/facsimile confirmation warrants and represents that such signer has the requisite authority to bind the Buyer to these terms.

DRAWING TRANSMITTAL SHEET

EngA® ENGINEERED AIR®

JOB NO Preliminary Submittal

DATE January 10, 2022

☑ **INDIANAPOLIS SALES OFFICE**
301 E. CARMEL DRIVE, SUITE G-400
CARMEL INDIANA
46032
(317) 564-4885

HEAD OFFICE & FACTORY
DESOTO KANSAS

OTHER USA SALES OFFICES
DESOTO, CLEVELAND, RICHMOND, DENVER, HOUSTON, CINCINNATI, KANSAS, CHICAGO, COLUMBUS, DALLAS, ST LOUIS, ORLANDO, OMAHA, PITTSBURGH, AUSTIN, CHARLOTTE, SAN FRANCISCO, PORTLAND, WASHINGTON, SAN DIEGO

CONTRACTOR TBD

ADDRESS

ENGINEER **RE DIMOND**

JOB NAME PERRY ACADEMIC CENTER

☑ THIS ORDER IS SUBJECT TO APPROVAL. MANUFACTURING IS HELD PENDING RETURN OF ONE APPROVED COPY OF THESE FORMS TO THE INDICATED OFFICE.

☐ THIS ORDER IS NOT SUBJECT TO APPROVAL AND IS BEING MANUFACTURED ACCORDING TO THE ATTACHED FORMS.

COPIES ENCLOSED	DESCRIPTION
1	**Preliminary Submittal Record Tags VUV A, B, C**
1	**Preliminary Submittal Record Tags VUV D**
1	**Preliminary Submittal Mechanical Dwg**
1	**Preliminary Submittal Electrical and Sequence of Operation**
1	**Installation and Operating Manual**

PER HENRY BERMAN / QV.

EngA ENGINEERED AIR

SUBMITTAL RECORD

JOB NAME: PERRY ACADEMIC CENTER JOB NO: Preliminary Submittal

CUSTOMER: ENGINEER: RE DIMOND

EngA MODEL: RUVG1200/C QTY: 3 TAG: VUV - A, B,C

SHIPPING AND APPROVAL INFORMATION

MOUNTING Indoor Base Mounted ACCESS As Per Drawing

SHIPPING WEIGHT 1100 lb OPERATING WEIGHT 1000 lb

NO. OF PIECES 2 (Unit + Back Plenum)

- CSA approval.
- Insulated outside air plenum c/w back panel

SUPPLY AIR DATA

AIR FLOW 1100 CFM FAN SIZE (1) DD11-10AT TSP 1.66 in w.c. RPM 1050

MOTOR SIZE 3/4 HP TYPE (RPM) PSC (1050) ESP 0.5 in w.c. BHP 0.53 BHP

- Supply air fan/motor c/w manual speed controller and quick connect.
- Insulated fanboard and fan scroll.

AIR OPENING DATA

AIR OPENING	LOCATION	DAMPER TYPE	OPERATION
SUPPLY AIR	Top		
RETURN AIR	Front	See Below [1]	Modulating
OUTSIDE AIR	Back	See Below [2]	Modulating

- [1] - TAMCO Series 1000 Low Leakage Aluminum Air-foil Parallel Blade
- [2] - TAMCO Series 9000 Thermally Insulated Low Leakage Aluminum Air-foil Parallel Blade
- Damper operator is supplied and installed by Engineered Air.

CONSTRUCTION DATA

UNIT CABINET	16 gauge satin coat galvanized sheet metal c/w 1" closed cell insulation on entire unit casing.
UNIT FLOOR	16 gauge satin coat galvanized sheet metal on entire unit floor.
EXTERIOR PAINT	Electrostatically applied powder coat white primer (SANTEX) color on all exterior surface including back panel.
AIRSIDE DOOR	Filter access doors on front - hinged c/w key operated camlocks with finger pull tabs.
	Burner access door on left side - hinged c/w key operated camlocks with finger pull tabs.
SERVICE DOOR	Electrical and burner access - screwed on and lift out.

ELECTRICAL DATA

POWER SUPPLY	MINIMUM CIRCUIT AMPACITY	MAXIMUM FUSE(D.E.)	MAXIMUM BREAKER
120 / 1 / 60	14.4 AMPS	20 AMPS	20 AMPS

- See Electrical Data Sheet for details.
- Unit mounted non fused disconnect switch.
- Unit installed Carel controller c/w outside air, mix air, discharge air sensors.

SUPPLY FILTER SECTION DATA - Front Loaded

FILTER TYPE Pleated Filter with MERV 8 rating

QTY/SIZE 1 - 24 x 20 x 2" QTY/SIZE

TOTAL GROSS AREA 3.33 SQ.FT. FACE VELOCITY 300 FPM

- Filters may be shipped loose or mounted in the tracks
- 2 spare sets of filters - shipped loose

Continued on page 2

EngA ENGINEERED AIR

SUBMITTAL RECORD

JOB NAME: PERRY ACADEMIC CENTER JOB NO: Preliminary Submittal

EngA MODEL: RUVG1200/C QTY: 3 TAG: VUV - A, B,C

BURNER HEATING DATA - INDIRECT FIRED (RUVG-1200)

BURNER TYPE	RUVG Series	HEAT EXCH. MATERIAL	Stainless Steel	FURNACE	RUVG-1200
FUEL	Natural Gas	INLET PRESSURE	7 in wc.	GAS FIELD CONN.	0.75"
HEAT INPUT	70,000 Btuh	HEAT OUTPUT	57000 Btuh	TEMP. RISE	48 °F

- Heat exchanger section has 1"(25 mm) 1.5 lb/ft(24 kg/m³) insulation with 22 gauge solid liner
- Low limit auto bypass; set @ 40°F (4.4°C).
- EngA (2:1) high turndown burner
- Co-axial back wall venting connection
- Beckett Stainless Steel Gas Burner
- Two pass heat exchanger c/w condensate drain connection.
- Dedicated pipe chase for incoming gas pipe.

DX COIL DATA

COIL SIZE	22.5 x 27x 4rowx 10FPI	VELOCITY	267 FPM
CAPACITY	39 MBH	AIR P.D.	0.21 in wc
ENTERING AIR DB / WB	76.9 / 54.7	LEAVING AIR DB / WB	55.7 / 54.7
SST/SCT		REFRIGERANT TYPE	R-410A
DISTRIBUTOR TYPE	(1)4-3-4	SUCTION SIZE	7/8 in
		QUANTITY	1

- DX coil c/w TX valve.
- Stainless steel drain pan c/w 7/8" diameter connection terminates 3" above the unit bottom panel.

SHIPPED LOOSE ITEMS (See filter section for filters and spare filters)

6 - PAD NTC Humidifier and Buzzer (Carel Usa ADPG003000)

12 - Filter 2 D x 24H x 20W (Merv 8) Pleated Series 400 Std Cap (Dafco Filtration Group 10389)

2 - Controller PCO5+ Small FB/BMS NO OPTO, USB, Built-In PGD1 (Carel Usa P+500BAA00ES0)

6 - Insulated 4 -sided top extension (EngA)

6 - Wall terminal c/w adjustable concentric vent pipe (EngA)

6 - Phone Cable 6 wire 150 ft (Engineered Air-satellite Plant EACONN007)

Actual coil data when confirmation of actual condenser unit selected

EngA ENGINEERED AIR

ELECTRICAL DATA

JOB NAME: PERRY ACADEMIC CENTER JOB NO: Preliminary Submittal

EngA MODEL: RUVG1200/C QTY: 3 TAG: VUV A, B,C

Power Supply	Minimum Circuit Ampacity	Terminal Block to Accept	Maximum Fuse (Dual Element)	Maximum Breaker
120 / 1 / 60	14.4 amps	14 Awg	20 AMPS	20 AMPS

Components		Model	Minimum Conductor Size	Ampacity FLA / LRA
Supply Fan Motor	PSC	3/4 HP	14 Awg	10.2
Control Xfmr			14 Awg	1.67

UNIT CONTROL PANEL(S) SHORT CIRCUIT CURRENT RATING (SCCR)
Short circuit current 5 kA rms symmetrical, 120 V maximum

WIRING DRAWING LEGEND					
APS	Air Proving Switch	DM	Damper Motor	NFD	Non Fused Disconnect
ASF	Auto Fan Switch	FR	Fan Relay	OL	Thermal Overload
AUX	Auxiliary Contact	GND	Ground	PS	Pressure Sensor
BM	Burner Motor	GV	Gas Valve	PV	Pilot Gas Valve
C	Contactor	HL	High Limit	R	Relay
CCH	Compressor Crankcase Heater	HPC	High Pressure Control	RevHL	Reverse Airflow High Limit
CFC	Condenser Fan Control	HR	Heating Relay	TB	Terminal Block
CLC	Compressor Loading Control	IGN	Ignition Control	TDF	Time Delay Fuse
CPM	Compressor Protection Module	ITP	Internal Thermo Protection	TDR	Time Delay Relay
CR	Cooling Relay	LPC	Low Pressure Control	TS	Temperature Sensor
CS	Current Sensor	M	Motor	VFD	Variable Frequency Drive
DHSS	Draft Hood Spill Switch	MV	Main Gas Valve	XFMR	Transformer

UNIT FUNCTION

Disconnect switch 'on' service switch 'on'. fire alarm contact closed (jumper if not required)

OCCUPIED MODE

Unit on/off determined by time clock schedule, or manual override at the T-stat. Time clock in 'occupied' mode Monday to Friday from 7:30 am - 4 pm. Outside air damper opens to 25% minimum position. Blower will delay on and run continuously. The Carel controller will sequence heating, economizer and, 1 stage of mechanical cooling (see note 1) to maintain the required room temperature. Outside air damper reverts to minimum position whenever heating or mechanical cooling is on. The following alarm points will stop the unit operation and requires a manual reset on the controller.

- mixed air freeze alarm
- sensor failures
- room stat off line
- high discharge air temperature alarm

ZONE RESET OF THE DISCHARGE AIR SET POINT

The discharge air setpoint schedule used to control the mixed air damper and the gas burner heat is

	Zone Temp	Discharge air setpoint
Cooling on @	74°F	55°F
Heating on @	70°F	95°F

Preliminary

(Continued on second page) DATE: Jan 10.2022 SUBMITTED BY: HENRY BERMAN / QV.

EngA ENGINEERED AIR

ELECTRICAL DATA

JOB NAME: PERRY ACADEMIC CENTER JOB NO: Preliminary Submittal

EngA MODEL: RUVG1200/C QTY: 3 TAG: (VUV A,B,C

UNIT FUNCTION CONTINUED

ECONOMIZER MODE

When in economizer mode the dampers will modulate to maintain the discharge air setpoint with a minimum damper position of 25%.

When the mixed air is less than the Mixed Air Low setpoint @ 44°F "Mixed air is Low".

If the mixed air temp is less than the mixed air freeze setpoint @ 38°F
"Unit is off on mixed air freeze protection" O/A damper closes, fan stops unit is shut down.

HEATING MODE

Heat mode is enabled when the zone temp is less than the heating setpoint @ 70°F occupied and 60°F unoccupied. Heat mode is disabled when the zone temp is greater than the heating set point plus the mode diff 2°F @ 72°F.
Blower CFM is adjustable by a unit mounted manual speed controller.
Carel controller will enable gas burner via 2-10 VDC signal to maintain the required room temperature.

If the discharge air temp is greater than the Discharge Air high limit setpoint @ 120°F, the unit will shut down and display "Unit off on High limit protection"

COOLING MODE

Carel controller will cycle 1 stage of mechanical cooling to maintain the cooling room temperature setpoint. (See note 1)

Cooling mode is enabled when the zone temp is greater than the cooling setpoint 74°F occupied and 80°F unoccupied.
Cooling mode is disabled when the zone temp is less than the cooling set point minus the mode diff (2) @ 72°F.
Blower CFM is fixed at high speed to prevent DX coil from freezing.

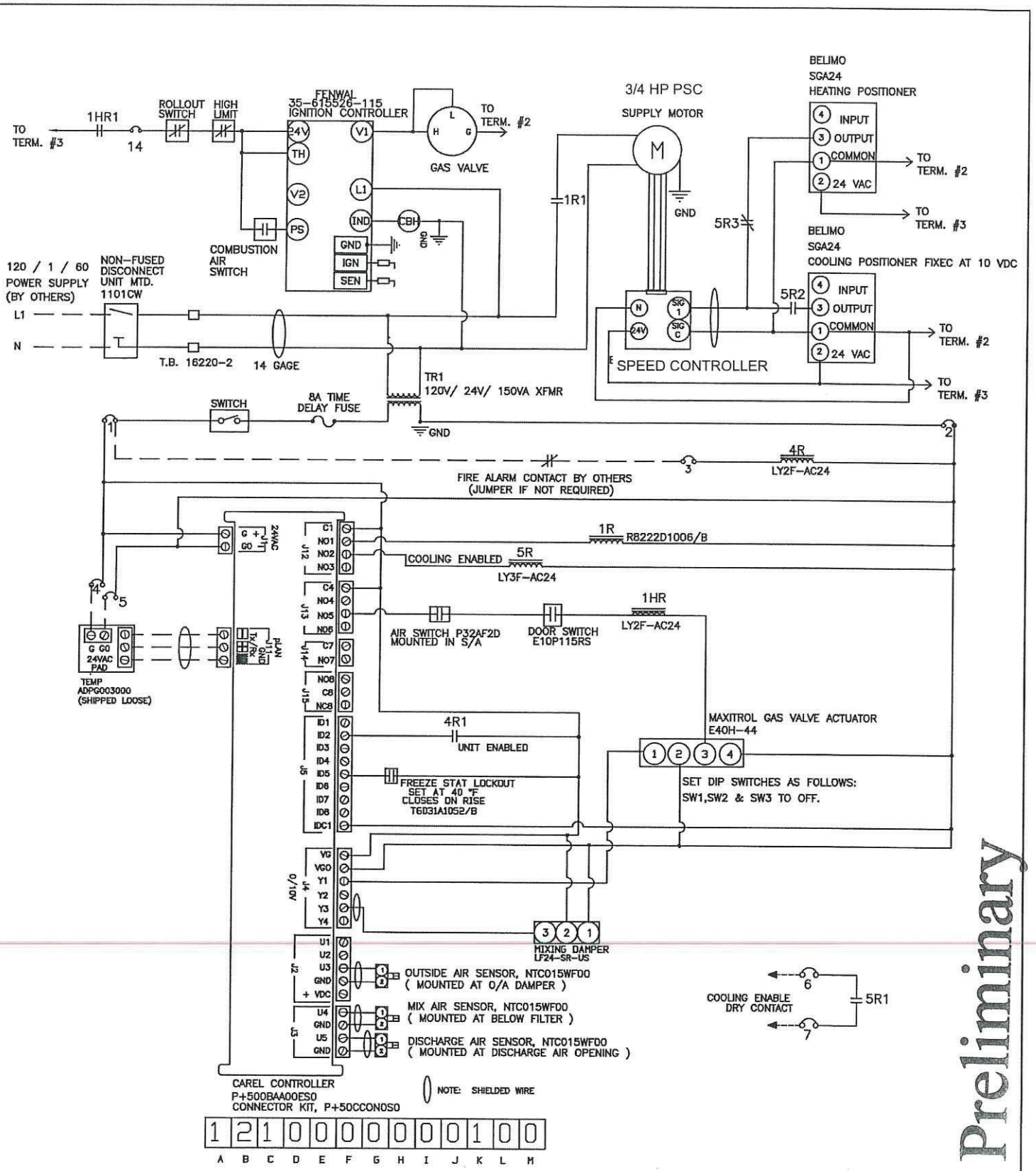
Mechanical cooling is locked out when ambient is below 50°F.
Unit in occupied or unoccupied mode, check room setpoint to room temp, if the room temp is greater than the room setpoint and Cooling Mode Delay setpoint has timed out enable cooling.

UNOCCUPIED MODE

Time clock in 'unoccupied' mode, the outside air damper closes and remains closed. With a call from the thermostat, the blower will delay on and heating or cooling mode will start to satisfy the unoccupied room setpoint. The unoccupied setpoint is +,-10°F from the occupied setpoint.

Note 1 - Refer to manuals shipped with unit for a more detailed explanation of maintenance, component(s).

DATE: Jan 10.2022 SUBMITTED BY: HENRY BERMAN / QV.



PERRY ACADEMIC CENTER

INTERNAL WIRING DIAGRAM

RUVG1200

EngA® ENGINEERED AIR®

REVISION DATE:		
DATE :	DRN BY :	DRWG NO :
	QV	

--- DENOTES FIELD WIRING. REPLACEMENT WIRE MUST BE EQUIVALENT TO ORIGINAL WIRE SUPPLIED.

EngA ENGINEERED AIR

SUBMITTAL RECORD

JOB NAME: PERRY ACADEMIC CENTER JOB NO: Preliminary Submittal

CUSTOMER: ENGINEER: RE DIMOND

EngA MODEL: RUVG1200/C QTY: 1 TAG: VUV - D

SHIPPING AND APPROVAL INFORMATION

MOUNTING Indoor Base Mounted ACCESS As Per Drawing

SHIPPING WEIGHT 1100 lb OPERATING WEIGHT 1000 lb

NO. OF PIECES 2 (Unit + Back Plenum)

- CSA approval.
- Insulated outside air plenum c/w back panel

SUPPLY AIR DATA

AIR FLOW 1200 CFM FAN SIZE (1) DD11-10AT TSP 1.66 in w.c. RPM 1050

MOTOR SIZE 3/4 HP TYPE (RPM) PSC (1050) ESP 0.5 in w.c. BHP 0.53 BHP

- Supply air fan/motor c/w manual speed controller and quick connect.
- Insulated fanboard and fan scroll.

AIR OPENING DATA

AIR OPENING	LOCATION	DAMPER TYPE	OPERATION
SUPPLY AIR	Top		
RETURN AIR	Front	See Below [1]	Modulating
OUTSIDE AIR	Back	See Below [2]	Modulating

- [1] - TAMCO Series 1000 Low Leakage Aluminum Air-foil Parallel Blade
- [2] - TAMCO Series 9000 Thermally Insulated Low Leakage Aluminum Air-foil Parallel Blade
- Damper operator is supplied and installed by Engineered Air.

CONSTRUCTION DATA

UNIT CABINET	16 gauge satin coat galvanized sheet metal c/w 1" closed cell insulation on entire unit casing.
UNIT FLOOR	16 gauge satin coat galvanized sheet metal on entire unit floor.
EXTERIOR PAINT	Electrostatically applied powder coat white primer (SANTEX) color on all exterior surface including back panel.
AIRSIDE DOOR	Filter access doors on front - hinged c/w key operated camlocks with finger pull tabs.
	Burner access door on left side - hinged c/w key operated camlocks with finger pull tabs.
SERVICE DOOR	Electrical and burner access - screwed on and lift out.

ELECTRICAL DATA

POWER SUPPLY	MINIMUM CIRCUIT AMPACITY	MAXIMUM FUSE(D.E.)	MAXIMUM BREAKER
120 / 1 / 60	14.4 AMPS	20 AMPS	20 AMPS

- See Electrical Data Sheet for details.
- Unit mounted non fused disconnect switch.
- Unit installed Carel controller c/w outside air, mix air, discharge air sensors.

SUPPLY FILTER SECTION DATA - Front Loaded

FILTER TYPE Pleated Filter with MERV 8 rating

QTY/SIZE 1 - 24 x 20 x 2" QTY/SIZE

TOTAL GROSS AREA 3.33 SQ.FT. FACE VELOCITY 300 FPM

- Filters may be shipped loose or mounted in the tracks
- 2 spare sets of filters - shipped loose

Continued on page 2

EngA ENGINEERED AIR

SUBMITTAL RECORD

JOB NAME: PERRY ACADEMIC CENTER JOB NO: Preliminary Submittal

EngA MODEL: RUVG1200/C QTY: 1 TAG: VUV - D

BURNER HEATING DATA - INDIRECT FIRED (RUVG-1200)

BURNER TYPE	RUVG Series	HEAT EXCH. MATERIAL	Stainless Steel	FURNACE	RUVG-1200
FUEL	Natural Gas	INLET PRESSURE	7 in wc.	GAS FIELD CONN.	0.75"
HEAT INPUT	70,000 Btuh	HEAT OUTPUT	57000 Btuh	TEMP. RISE	48 °F

- Heat exchanger section has 1"(25 mm) 1.5 lb/ft(24 kg/m³) insulation with 22 gauge solid liner
- Low limit auto bypass; set @ 40°F (4.4°C).
- EngA (2:1) high turndown burner
- Co-axial back wall venting connection
- Beckett Stainless Steel Gas Burner
- Two pass heat exchanger c/w condensate drain connection.
- Dedicated pipe chase for incoming gas pipe.

DX COIL DATA

COIL SIZE	25 x 27x 4rowx 12 FPI	VELOCITY	260 FPM
CAPACITY	42 MBH	AIR P.D.	0.23 in wc
ENTERING AIR DB / WB	76.9 / 54.7	LEAVING AIR DB / WB	56.0/ 55.4
SST/SCT		REFRIGERANT TYPE	R-410A
DISTRIBUTOR TYPE	(1)4-3-4	SUCTION SIZE	7/8 in
		QUANTITY	1

- DX coil c/w TX valve.
- Stainless steel drain pan c/w 7/8" diameter connection terminates 3" above the unit bottom panel.

SHIPPED LOOSE ITEMS (See filter section for filters and spare filters)

6 - PAD NTC Humidifier and Buzzer (Carel Usa ADPG003000)
12 - Filter 2 D x 24H x 20W (Merv 8) Pleated Series 400 Std Cap (Dafco Filtration Group 10389)
2 - Controller PCO5+ Small FB/BMS NO OPTO, USB, Built-In PGD1 (Carel Usa P+500BAA00ES0)
6 - Insulated 4 -sided top extension (EngA)
6 - Wall terminal c/w adjustable concentric vent pipe (EngA)
6 - Phone Cable 6 wire 150 ft (Engineered Air-satellite Plant EACONN007)

Actual coil data when confirmation of actual condenser unit selected

EngA ENGINEERED AIR

ELECTRICAL DATA

JOB NAME: PERRY ACADEMIC CENTER JOB NO: Preliminary Submittal

EngA MODEL: RUVG1200/C QTY: 1 TAG: VUV D

Power Supply	Minimum Circuit Ampacity	Terminal Block to Accept	Maximum Fuse (Dual Element)	Maximum Breaker
120 / 1 / 60	14.4 amps	14 Awg	20 AMPS	20 AMPS

Components	Model		Minimum Conductor Size	Ampacity FLA / LRA
Supply Fan Motor	PSC	3/4 HP	14 Awg	10.2
Control Xfmr			14 Awg	1.67

UNIT CONTROL PANEL(S) SHORT CIRCUIT CURRENT RATING (SCCR)
Short circuit current 5 kA rms symmetrical, 120 V maximum

WIRING DRAWING LEGEND					
APS	Air Proving Switch	DM	Damper Motor	NFD	Non Fused Disconnect
ASF	Auto Fan Switch	FR	Fan Relay	OL	Thermal Overload
AUX	Auxiliary Contact	GND	Ground	PS	Pressure Sensor
BM	Burner Motor	GV	Gas Valve	PV	Pilot Gas Valve
C	Contactor	HL	High Limit	R	Relay
CCH	Compressor Crankcase Heater	HPC	High Pressure Control	RevHL	Reverse Airflow High Limit
CFC	Condenser Fan Control	HR	Heating Relay	TB	Terminal Block
CLC	Compressor Loading Control	IGN	Ignition Control	TDF	Time Delay Fuse
CPM	Compressor Protection Module	ITP	Internal Thermo Protection	TDR	Time Delay Relay
CR	Cooling Relay	LPC	Low Pressure Control	TS	Temperature Sensor
CS	Current Sensor	M	Motor	VFD	Variable Frequency Drive
DHSS	Draft Hood Spill Switch	MV	Main Gas Valve	XFMR	Transformer

UNIT FUNCTION

Disconnect switch 'on' service switch 'on'. fire alarm contact closed (jumper if not required)

OCCUPIED MODE

Unit on/off determined by time clock schedule, or manual override at the T-stat. Time clock in 'occupied' mode Monday to Friday from 7:30 am - 4 pm. Outside air damper opens to 25% minimum position. Blower will delay on and run continuously. The Carel controller will sequence heating, economizer and, 1 stage of mechanical cooling (see note 1) to maintain the required room temperature. Outside air damper reverts to minimum position whenever heating or mechanical cooling is on. The following alarm points will stop the unit operation and requires a manual reset on the controller.

- mixed air freeze alarm
- sensor failures
- room stat off line
- high discharge air temperature alarm

ZONE RESET OF THE DISCHARGE AIR SET POINT

The discharge air setpoint schedule used to control the mixed air damper and the gas burner heat is

	Zone Temp	Discharge air setpoint
Cooling on @	74°F	55°F
Heating on @	70°F	95°F

Preliminary

(Continued on second page) DATE: Jan 10.2022 SUBMITTED BY: HENRY BERMAN / QV.

EngA ENGINEERED AIR

ELECTRICAL DATA

JOB NAME: PERRY ACADEMIC CENTER JOB NO: Preliminary Submittal

EngA MODEL: RUVG1200/C QTY: 1 TAG: VUV D

UNIT FUNCTION CONTINUED

ECONOMIZER MODE

When in economizer mode the dampers will modulate to maintain the discharge air setpoint with a minimum damper position of 25%.

When the mixed air is less than the Mixed Air Low setpoint @ 44°F "Mixed air is Low".

If the mixed air temp is less than the mixed air freeze setpoint @ 38°F
"Unit is off on mixed air freeze protection" O/A damper closes, fan stops unit is shut down.

HEATING MODE

Heat mode is enabled when the zone temp is less than the heating setpoint @ 70°F occupied and 60°F unoccupied. Heat mode is disabled when the zone temp is greater than the heating set point plus the mode diff 2°F @ 72°F.
Blower CFM is adjustable by a unit mounted manual speed controller.
Carel controller will enable gas burner via 2-10 VDC signal to maintain the required room temperature.

If the discharge air temp is greater than the Discharge Air high limit setpoint @ 120°F, the unit will shut down and display "Unit off on High limit protection"

COOLING MODE

Carel controller will cycle 1 stage of mechanical cooling to maintain the cooling room temperature setpoint. (See note 1)

Cooling mode is enabled when the zone temp is greater than the cooling setpoint 74°F occupied and 80°F unoccupied.
Cooling mode is disabled when the zone temp is less than the cooling set point minus the mode diff (2) @ 72°F.
Blower CFM is fixed at high speed to prevent DX coil from freezing.

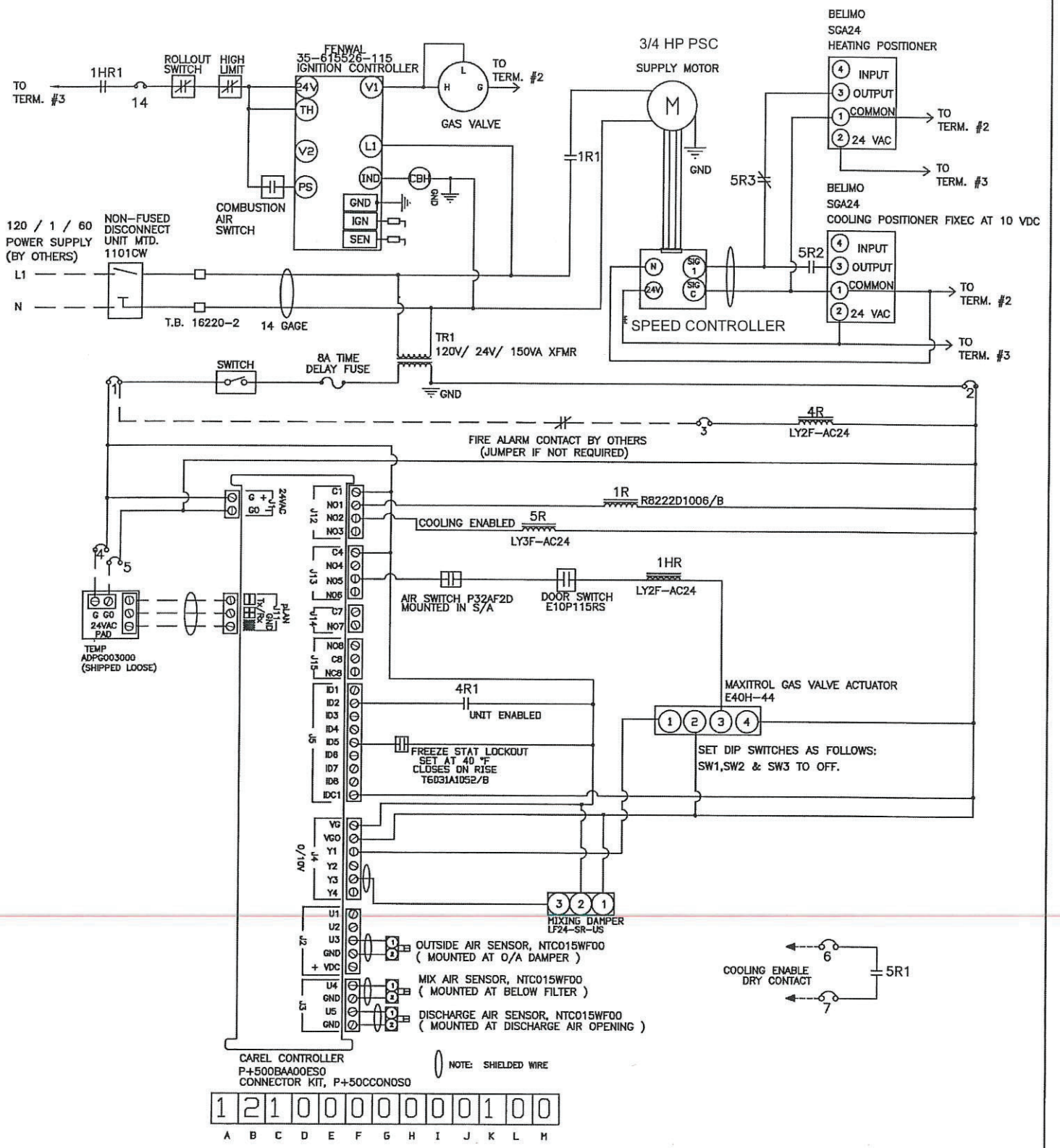
Mechanical cooling is locked out when ambient is below 50°F.
Unit in occupied or unoccupied mode, check room setpoint to room temp, if the room temp is greater than the room setpoint and Cooling Mode Delay setpoint has timed out enable cooling.

UNOCCUPIED MODE

Time clock in 'unoccupied' mode, the outside air damper closes and remains closed. With a call from the thermostat, the blower will delay on and heating or cooling mode will start to satisfy the unoccupied room setpoint. The unoccupied setpoint is +,-10°F from the occupied setpoint.

Note 1 - Refer to manuals shipped with unit for a more detailed explanation of maintenance, component(s).

DATE: Jan 10.2022 SUBMITTED BY: HENRY BERMAN / QV.



PERRY ACADEMIC CENTER

INTERNAL WIRING DIAGRAM

RUVG1200

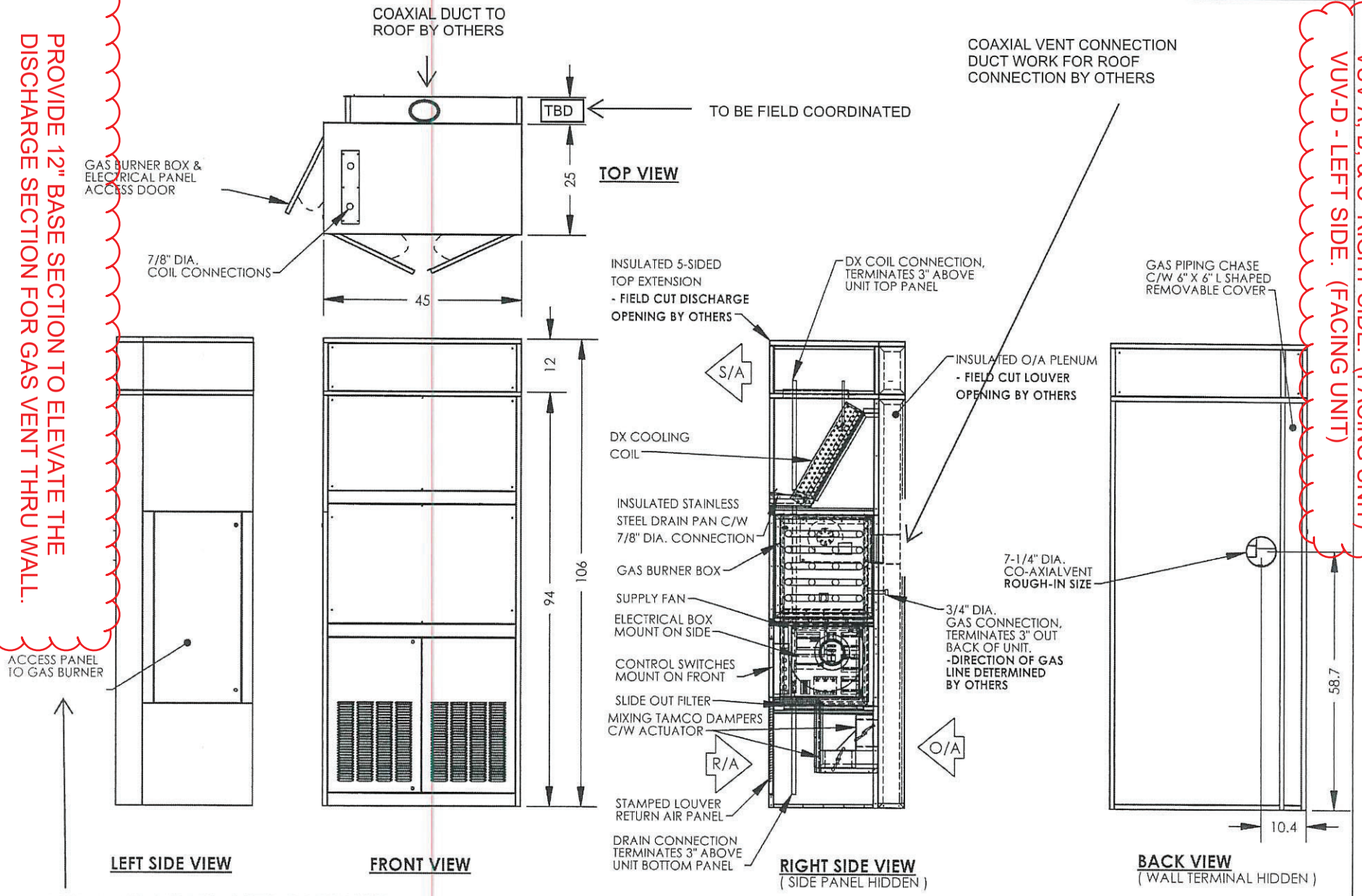
EngA® ENGINEERED AIR®

REVISION DATE:		
DATE : !	DRN BY : QV	DRWG NO :

--- DENOTES FIELD WIRING. REPLACEMENT WIRE MUST BE EQUIVALENT TO ORIGINAL WIRE SUPPLIED.

PROVIDE 12" BASE SECTION TO ELEVATE THE DISCHARGE SECTION FOR GAS VENT THRU WALL.

GAS VALVE ACCESS PANEL SHALL BE:
VUV-A, B, & C RIGHT SIDE. (FACING UNIT)
VUV-D - LEFT SIDE. (FACING UNIT)



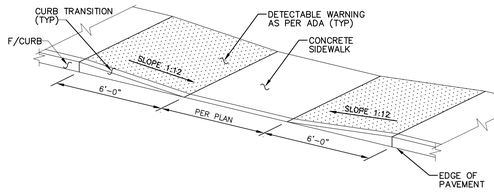
ACCESS PANEL CAN BE LOCATED ON OPPOSITE SIDE. COORDINATION WITH ENGINEER PRIOR TO SUBMITTAL COMPLETION

PERRY ACADEMIC CENTER

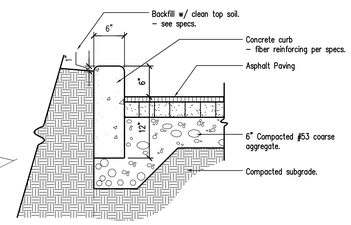
GENERAL ASSEMBLY, RUVG1200 - UP PIPING

EngA ENGINEERED AIR

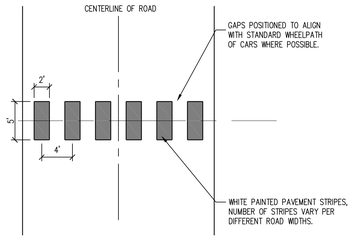
REVISIONS:		MATERIAL 16 GA. SC
DATE:	DRN.BY: QV	PRELIMINARY NOT FOR FABRICATION



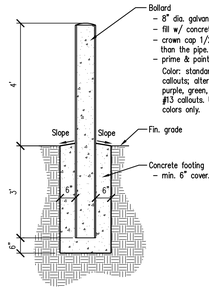
2D ADA Ramp 1
Not to Scale



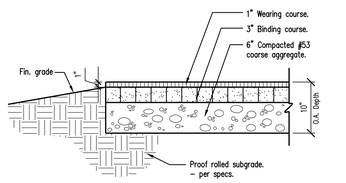
1D Straight Curb
Scale: 1" = 1'-0"



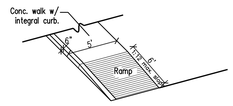
3C Crosswalk Detail
Scale: 1/8"=1'-0"



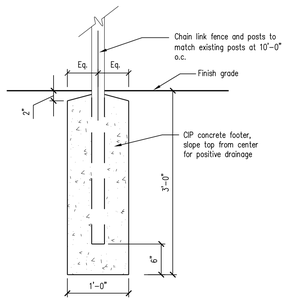
2C Pipe Bollard
Scale: 1/2" = 1'-0"



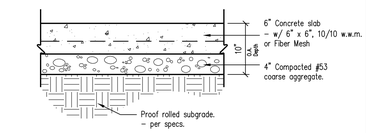
1C Standard Asphalt Pavement
Scale: 1" = 1'-0"



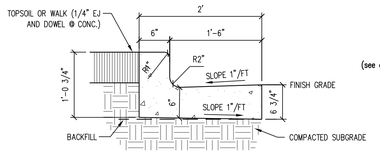
3B ADA Ramp 2
Scale: N.T.S.



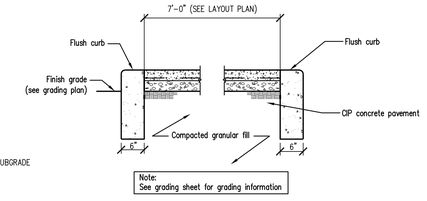
2B Fence Post Footing
Scale: 1" = 1'-0"



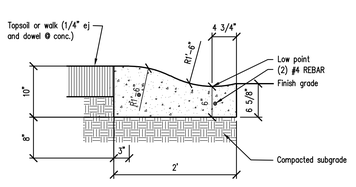
1B Heavy Duty Concrete Pavement
Scale: 1" = 1'-0"



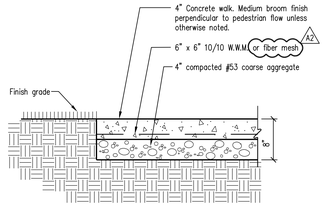
4A Straight Curb and Gutter
Scale 1" = 1'-0"



3A ADA Ramp 3
Scale N.T.S.



2A Roll Curb Section
Scale 1"=1'-0"



1A Standard Concrete Pavement
Scale 1"=1'-0"

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Project No. 2021-064.PAC
Project Date 01.05.2022
Produced JLS

KYLE E. MILLER REGISTERED NO. 19900465 STATE OF INDIANA PROFESSIONAL ENGINEER

#	Revision	Date
A2	ADDENDUM 2	01.31.2022

2115 E Southport Road
Indianapolis, IN 46227

N

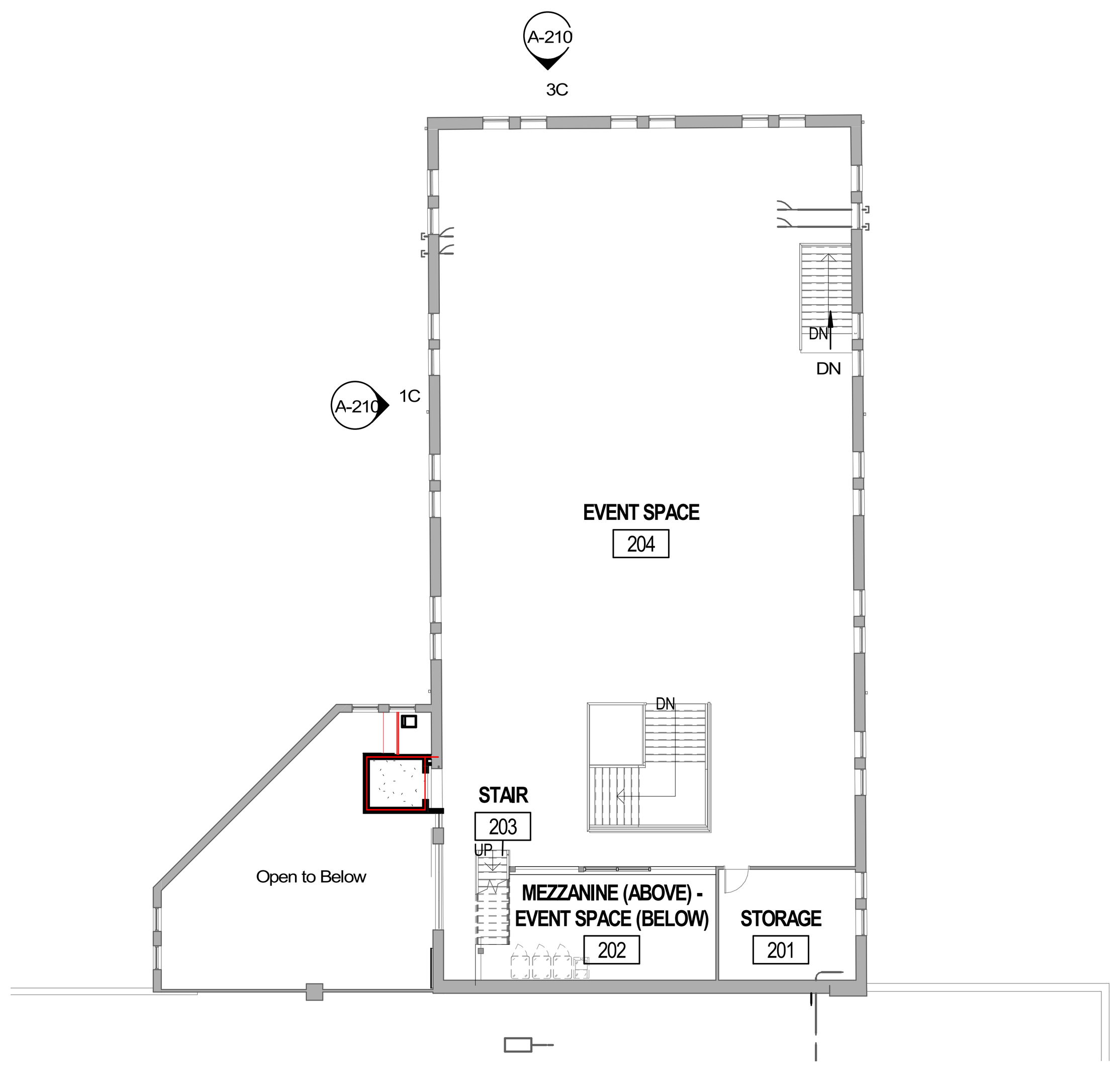
Perry Township Schools

Perry Township Schools

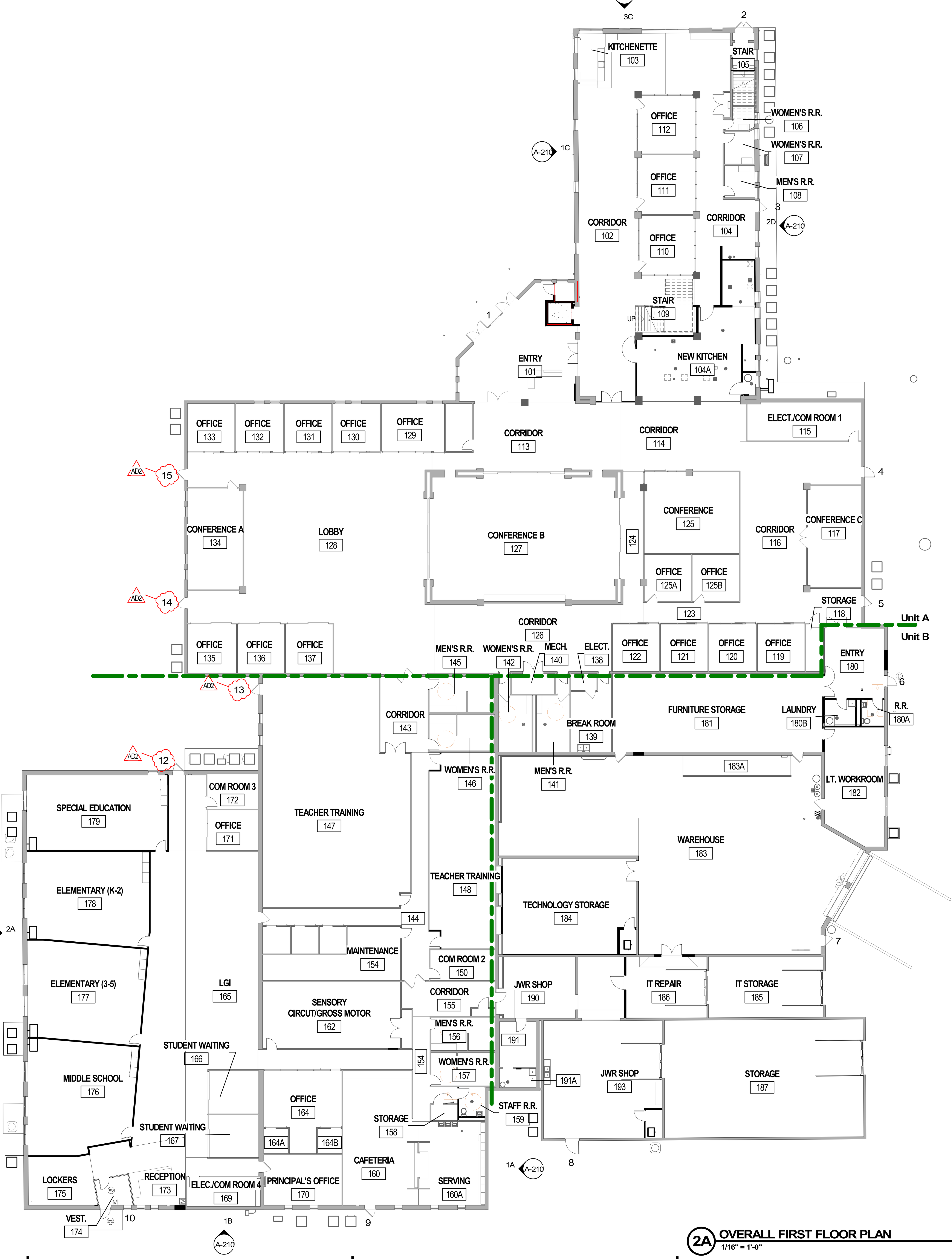
Perry Academic Center JWR Renovation and Improvements

SITE LAYOUT DETAILS

CL501



6C OVERALL SECOND FLOOR PLAN
1/16" = 1'-0"



2A OVERALL FIRST FLOOR PLAN
1/16" = 1'-0"

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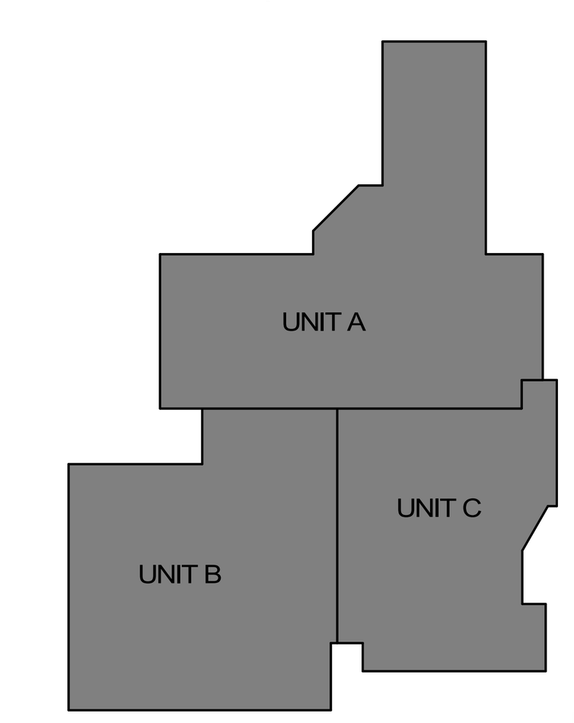
Project No. 2021-064.PAC
Project Date 01.05.2022
Produced DM

SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO. AR10400134
STATE OF INDIANA
ARCHITECT

#	Revision	Date
AD2	Addendum 2	01.31.2022

2115 E Southport Road
Indianapolis IN 46227



KEY PLAN

Perry Township Schools

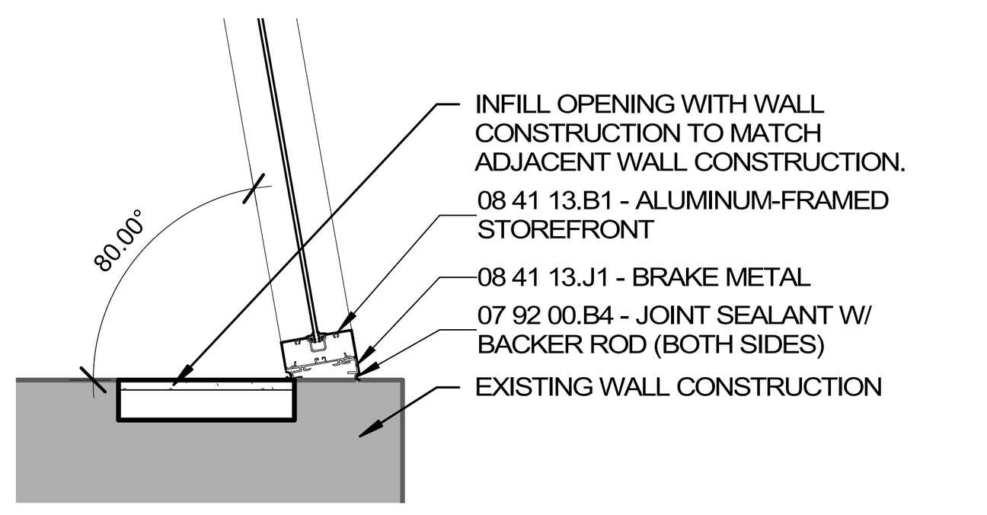
Perry Township Schools

Perry Academic Center JWR Renovation and Improvements

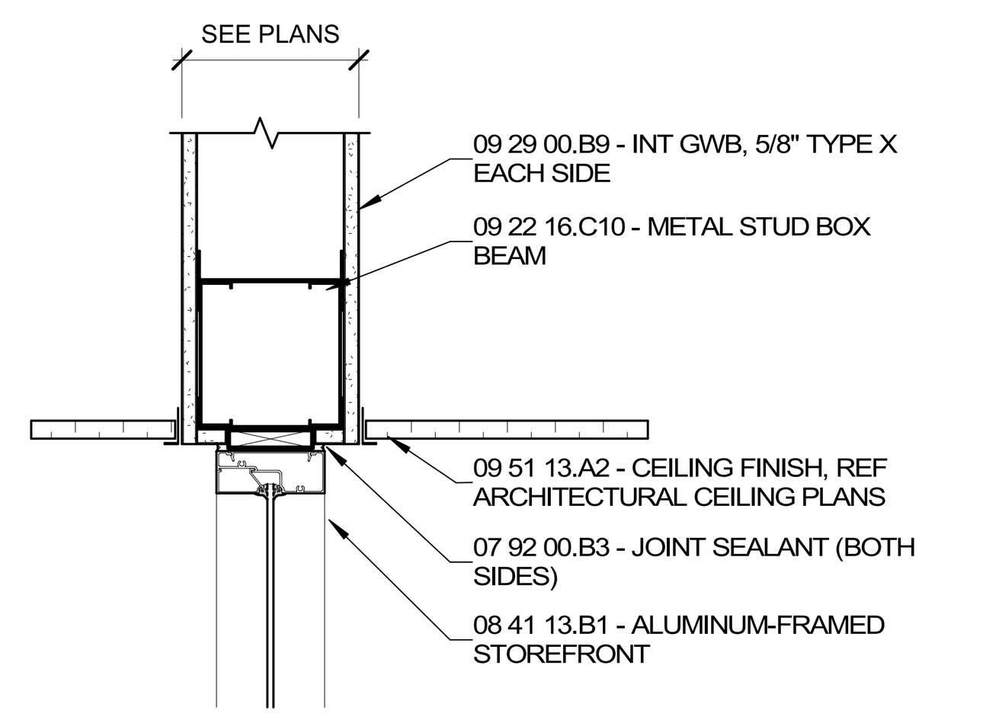
OVERALL FLOOR PLANS

AF101

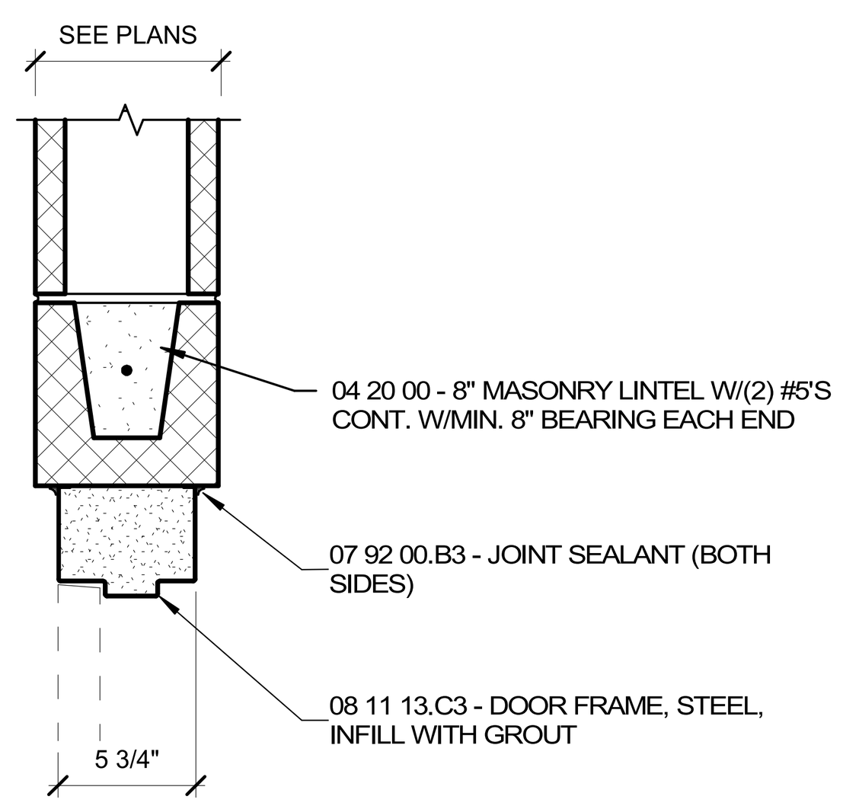
6 5 4 3 2 1



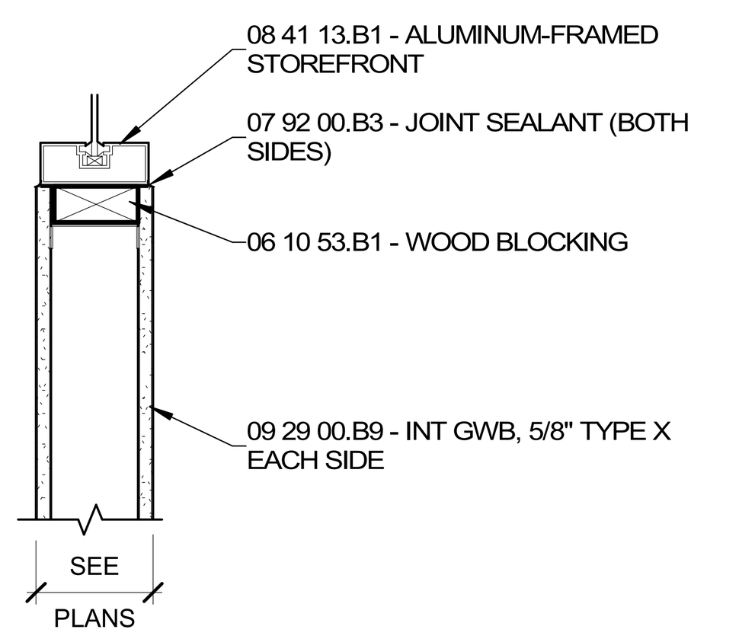
6E ENTRY JAMB DETAIL
1" = 1'-0"



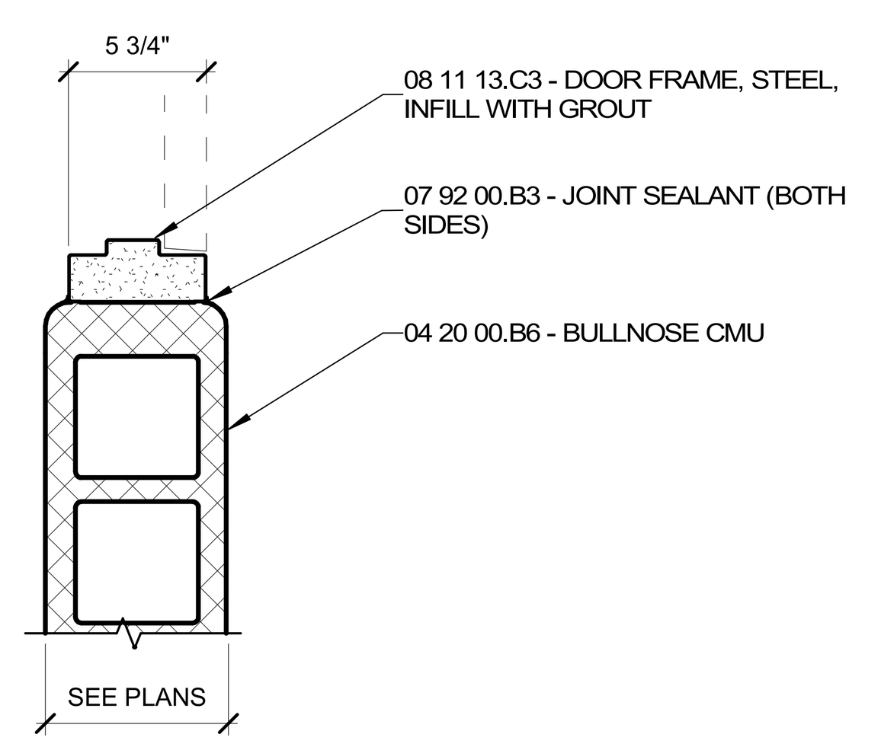
5E HEAD
1 1/2" = 1'-0"



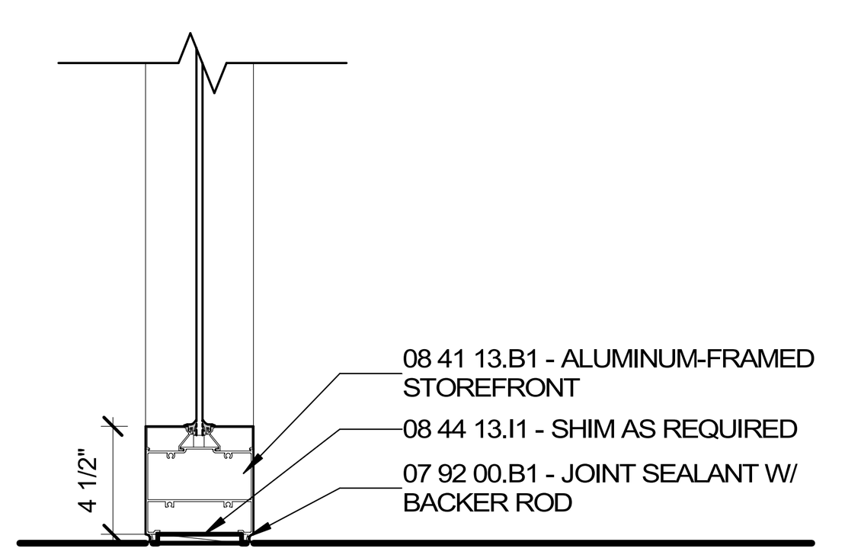
6D HEAD
1 1/2" = 1'-0"



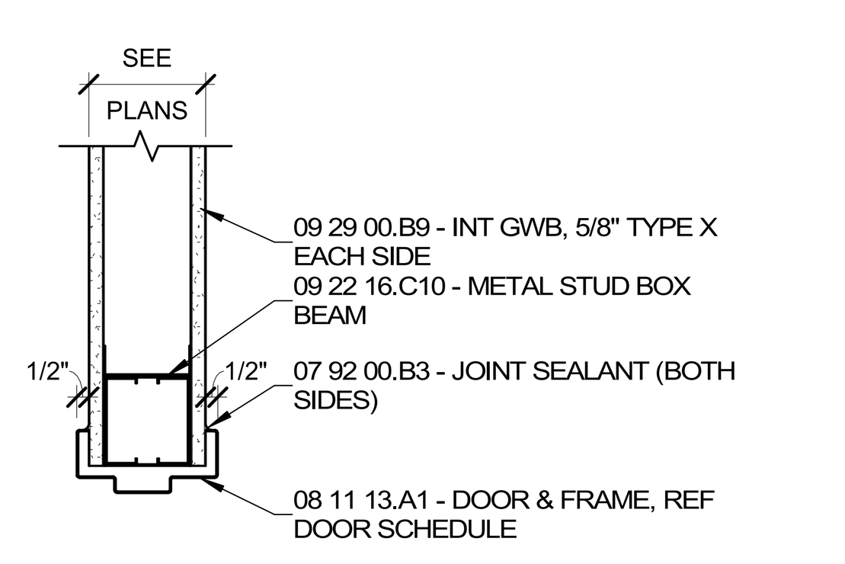
5D SILL
1 1/2" = 1'-0"



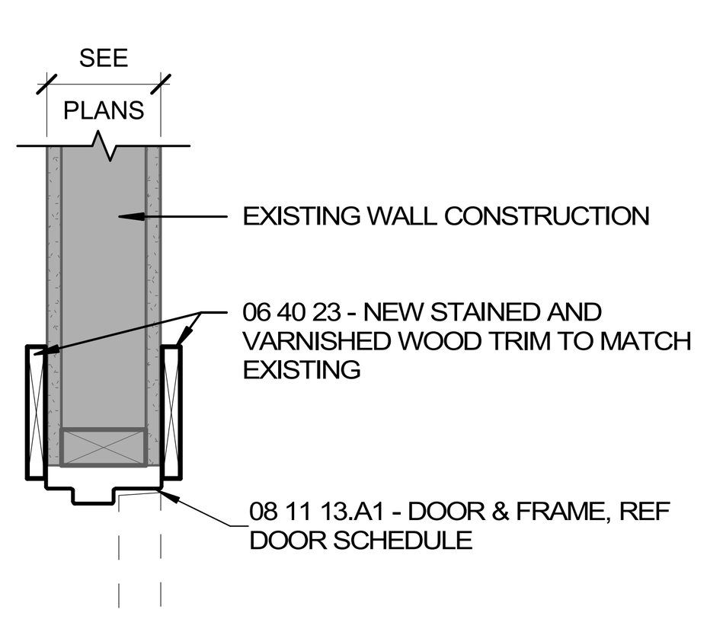
6C JAMB
1 1/2" = 1'-0"



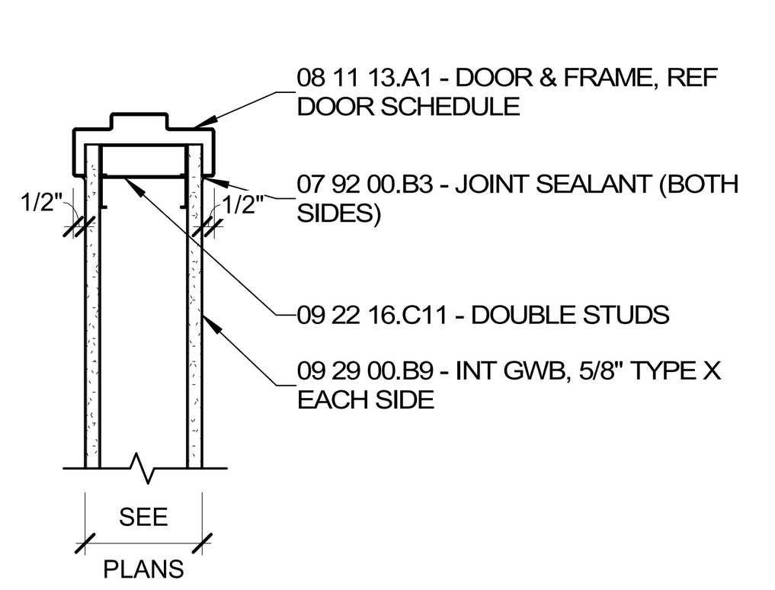
5C STOREFRONT BASE
1 1/2" = 1'-0"



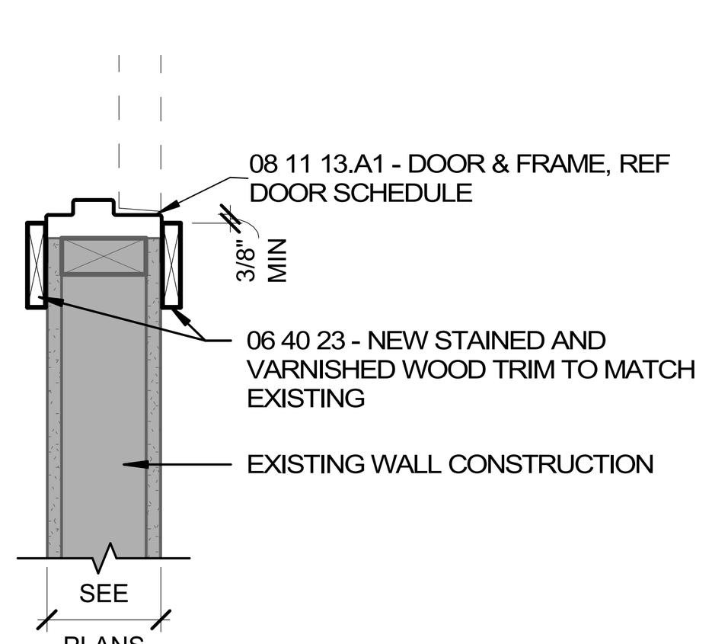
6B HEAD
1 1/2" = 1'-0"



5B HEAD IN EXISTING OPENING
1 1/2" = 1'-0"



6A JAMB
1 1/2" = 1'-0"



5A JAMB IN EXISTING OPENING
1 1/2" = 1'-0"

DOOR & FRAME SCHEDULE														
	DOOR PANEL							FRAME						
					SIZE									
MARK	TYPE	QTY	MATL	GLAZ	H	W	TH	MARK	MATL	GLAZ	LABEL	HDWR SET	NOTES	MARK
101.1	AG		TG	TG	8' - 8"	6' - 0"	3/4"		AL	TG		32	6	101.1
101A	F	1	WD	--	7' - 0"	3' - 0"	1 3/4"	F1	HM	--	90 MIN.	21		101A
104A.1	F	1	WD	--	7' - 0"	4' - 0"	1 3/4"	F1	HM	--		05		104A.1
104A.2	F	1	WD	--	7' - 0"	4' - 0"	1 3/4"	F1	HM	--		07	4	104A.2
104C	F	1	WD	--	7' - 0"	3' - 6"	1 3/4"	F1	HM	--		16		104C
106	F	1	WD	--	6' - 8"	3' - 0"	1 3/4"	F1	HM	--		03	1	106
106A	F	2	HM	--	6' - 8"	6' - 0"	1 3/4"	F1	HM	--		04	1	106A
107	F	1	WD	--	6' - 8"	3' - 0"	1 3/4"	F1	HM	--		03	1	107
108	F	1	WD	--	6' - 8"	3' - 0"	1 3/4"	F1	HM	--		03	1	108
113	AG		TG	TG	8' - 8"	6' - 0"	3/4"			TG		32		113
113A	F	1	WD	--	6' - 8"	3' - 0"	1 3/4"	F1	HM	--		11	1	113A
115	F	1	WD	--	7' - 0"	3' - 0"	1 3/4"	F1	HM	--		20	1	115
116A	DG	1	FG	IG	6' - 8" AD2	3' - 0"	1 3/4"	SF-6	AL	--		27		116A
118	F	1	WD	--	6' - 8"	3' - 0"	1 3/4"	F1	HM	--		19	1	118
126.1	F	1	WD	--	7' - 0"	3' - 0"	1 3/4"	F1	HM	--		01	1	126.1
126.2	F	1	WD	--	7' - 0"	3' - 0"	1 3/4"	F1	HM	--		01	1	126.2
139	F	1	WD	--	7' - 0"	3' - 0"	1 3/4"	F1	HM	--		02	1	139
140	F	2	HM	--	6' - 8"	6' - 0"	1 3/4"	F1	HM	--		24	1	140
145	F	1	WD	--	6' - 8"	3' - 0"	1 3/4"	F1	HM	--		01	1	145
146	F	1	WD	--	6' - 8"	3' - 0"	1 3/4"	F1	HM	--		01	1	146
147.1	N	1	WD	--	6' - 8"	3' - 0"	1 3/4"	F1	HM	--		29	1	147.1
147.2	N	2	HM	--	6' - 8"	6' - 0"	1 3/4"	F1	HM	--		31	1	147.2
148.1	N	1	WD	--	6' - 8"	3' - 0"	1 3/4"	F1	HM	--		29	1	148.1
148.2	N	1	WD	--	6' - 8"	3' - 0"	1 3/4"	F1	HM	--		29		148.2
150	F	1	WD	--	6' - 8"	3' - 0"	1 3/4"	F1	HM	--		20	1	150
154	F	1	WD	--	6' - 8"	3' - 0"	1 3/4"	F1	HM	--		06	1	154
155A	F	1	WD	--	6' - 8"	3' - 0"	1 3/4"	F1	HM	--		19	1	155A
156	F	1	WD	--	6' - 8"	3' - 0"	1 3/4"	F1	HM	--		01	1	156
157	F	1	WD	--	6' - 8"	3' - 0"	1 3/4"	F1	HM	--		01	1	157
158	F	1	WD	--	6' - 8"	3' - 0"	1 3/4"	F1	HM	--		17	4	158
159	F	1	WD	--	6' - 8"	3' - 0"	1 3/4"	F1	HM	--		03		159
162	F	1	WD	--	7' - 0"	3' - 0"	1 3/4"	F1	HM	--		13		162
163	F	2	HM	--	7' - 0"	6' - 0"	1 3/4"	F1	HM	--		22		163
169	F	1	WD	--	6' - 8"	3' - 0"	1 3/4"	F1	HM	--		18	1, 3	169
172	F	1	WD	--	7' - 0"	3' - 0"	1 3/4"	F1	HM	--		01	1	172
174	DG	1	FG	IG	7' - 0"	3' - 0"	1 3/4"	SF-7	AL	--		27	3, 5	174
175	DG		AL	TG	7' - 0"	3' - 0"	1 3/4"	SF-4	AL	TG		26	2, 5	175
176	N	1	WD	TG	7' - 0"	3' - 0"	1 3/4"	F1	HM	--		13		176
177	N	1	WD	TG	7' - 0"	3' - 0"	1 3/4"	F1	HM	--		13		177
178	N	1	WD	TG	7' - 0"	3' - 0"	1 3/4"	F1	HM	--		13		178
179	N	1	WD	TG	7' - 0"	3' - 0"	1 3/4"	F1	HM	--		13		179
180.1	F	1	HM	--	6' - 8" AD2	3' - 0"	1 3/4"	F1	HM	--		28	1, 2	180.1
180.2	F	2	HM	--	7' - 0"	6' - 0"	1 3/4"	F1	HM	--		31		180.2
180A	F	1	WD	--	7' - 0"	3' - 0"	1 3/4"	F1	HM	--		03		180A
180B	F	1	WD	--	7' - 0"	3' - 0"	1 3/4"	F1	HM	--		10		180B
181	F	2	HM	--	7' - 0"	6' - 0"	1 3/4"	F1	HM	--		23		181
182	F	1	WD	--	7' - 0"	3' - 0"	1 3/4"	F1	HM	--		08		182
184	F	2	HM	--	7' - 0"	6' - 0"	1 3/4"	F1	HM	--		25		184
184A	F	1	WD	--	7' - 0"	3' - 0"	1 3/4"	F1	HM	--		17		184A
185	OH	1	ST	--	10' - 0"	10' - 0"	3"			--		33		185
186.1	OH	1	ST	--	10' - 0"	10' - 0"	3"			--		33		186.1
186.2	F	2	HM	--	7' - 0"	6' - 0"	1 3/4"	F2	HM	--		12		186.2
187	OH	1	ST	--	12' - 0"	10' - 0"	3"			--		34		187
190	N	1	WD	--	6' - 8"	3' - 0"	1 3/4"	F1	HM	--		14		190
191	F	1	WD	--	6' - 8"	3' - 0"	1 3/4"	F1	HM	--		10		191
192	F	1	WD	--	7' - 0"	4' - 0"	1 3/4"	F1	HM	--		09		192
193.1	F	1	HM AD2	--	7' - 0"	4' - 0"	1 3/4"	F1	HM	--		30		193.1
193.2	OH	1	ST	--	10' - 0"	10' - 0"	3"			--		35		193.2
193A	F	1	WD	--	7' - 0"	3' - 0"	1 3/4"	F1	HM	--		15		193A

AD2

GENERAL NOTES

A. This Door Schedule(s) is furnished for whatever assistance it may afford the Contractor. Do not consider it as entirely inclusive. Carefully examine the Drawings (especially the Floor Plans) and the Specifications to determine the extent of door and frame quantities required (including interior borrowed lite or sidelite openings). Should any particular door, frame, or interior borrowed lite or sidelite shown on the Drawings be inadvertently omitted from this Schedule, supply same as required for similar openings.

B. The "QTY" column designates the number of leaves in the opening. The "Door Width" column designates the total width of all leaves. In multiple leaf conditions, the leaves shall equally divide the "Door Width" unless noted otherwise; however, the active leaf shall not be less than 3'-0" wide.

C. Door Type "X" denotes a frame with no door such as a borrowed lite, reference Frame Elevations.

D. An asterisk (*) in a dimension denotes a width that varies, reference plans, elevations, details and schedules.

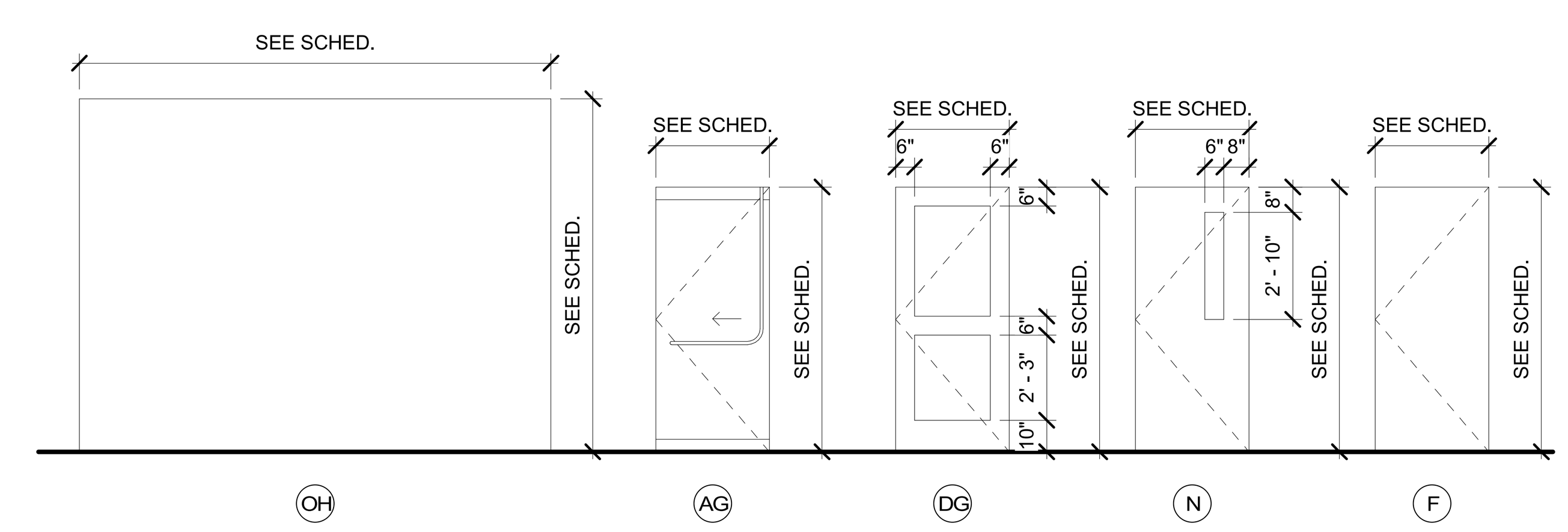
E. Verify locksets with the Owner during submittals.

ABBREVIATIONS

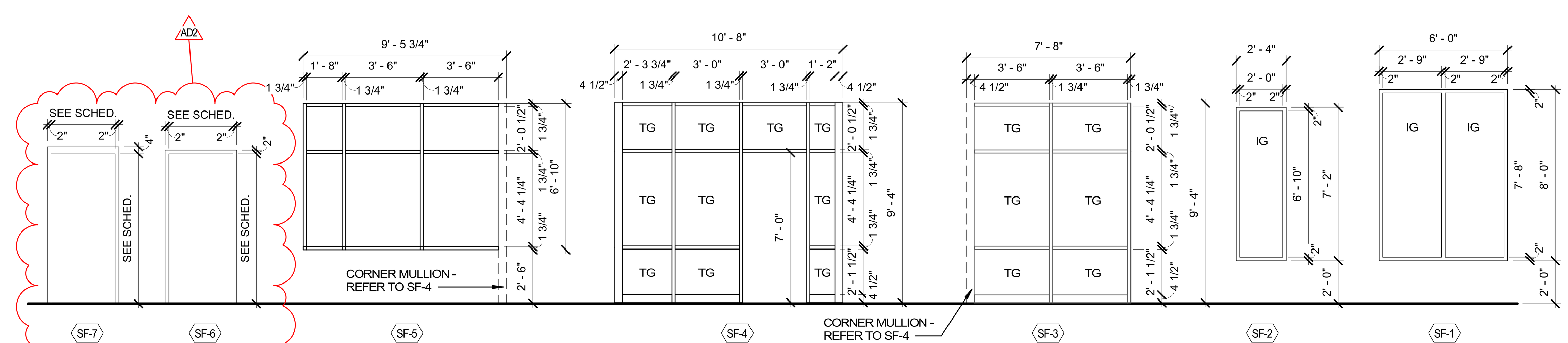
AL Aluminum
HM Hollow Metal
ST Steel
WD Wood
TG Tempered Glazing
IG Insulated Glazing
LG Laminated Glazing
FG Frosted Glazing
SP Spandrel Panel

DOOR & FRAME SCHEDULE NOTES
See Door Schedule

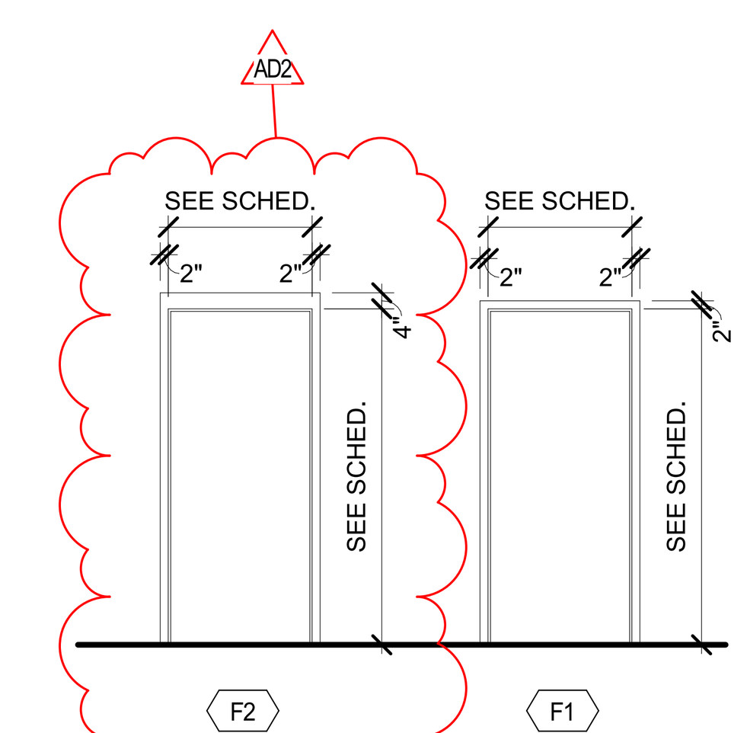
1. New door and frame in existing opening.
2. Card reader on door. Refer to T-Series drawings.
3. Existing card reader. Refer to T-Series drawings.
4. Set door in frame to allow for 180° door swing.
5. Aiphone control of door. Refer to T-Series drawings.
6. Reinstall existing door in new location. Provide new hardware as required for new installation.



5.4.602 - DOOR PANEL ELEVATIONS
1/4" = 1'-0"



5.4 - STOREFRONT ELEVATIONS
1/4" = 1'-0"



5.4.603 - FRAME ELEVATIONS
1/4" = 1'-0"

6 5 4 3 2 1

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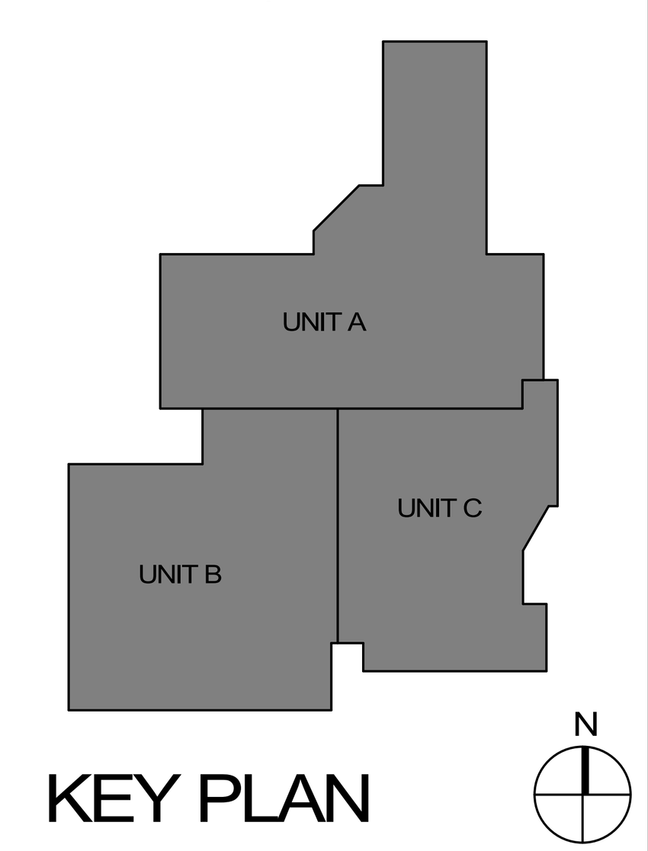
SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
AD2	Addendum 2	01.31.2022

2115 E Southport Road
Indianapolis IN 46227



KEY PLAN

Perry Township Schools

Perry Township Schools

Perry Academic Center JWR Renovation and Improvements

DOOR & FRAME SCHEDULE

A-600

RENOVATION LEGEND:

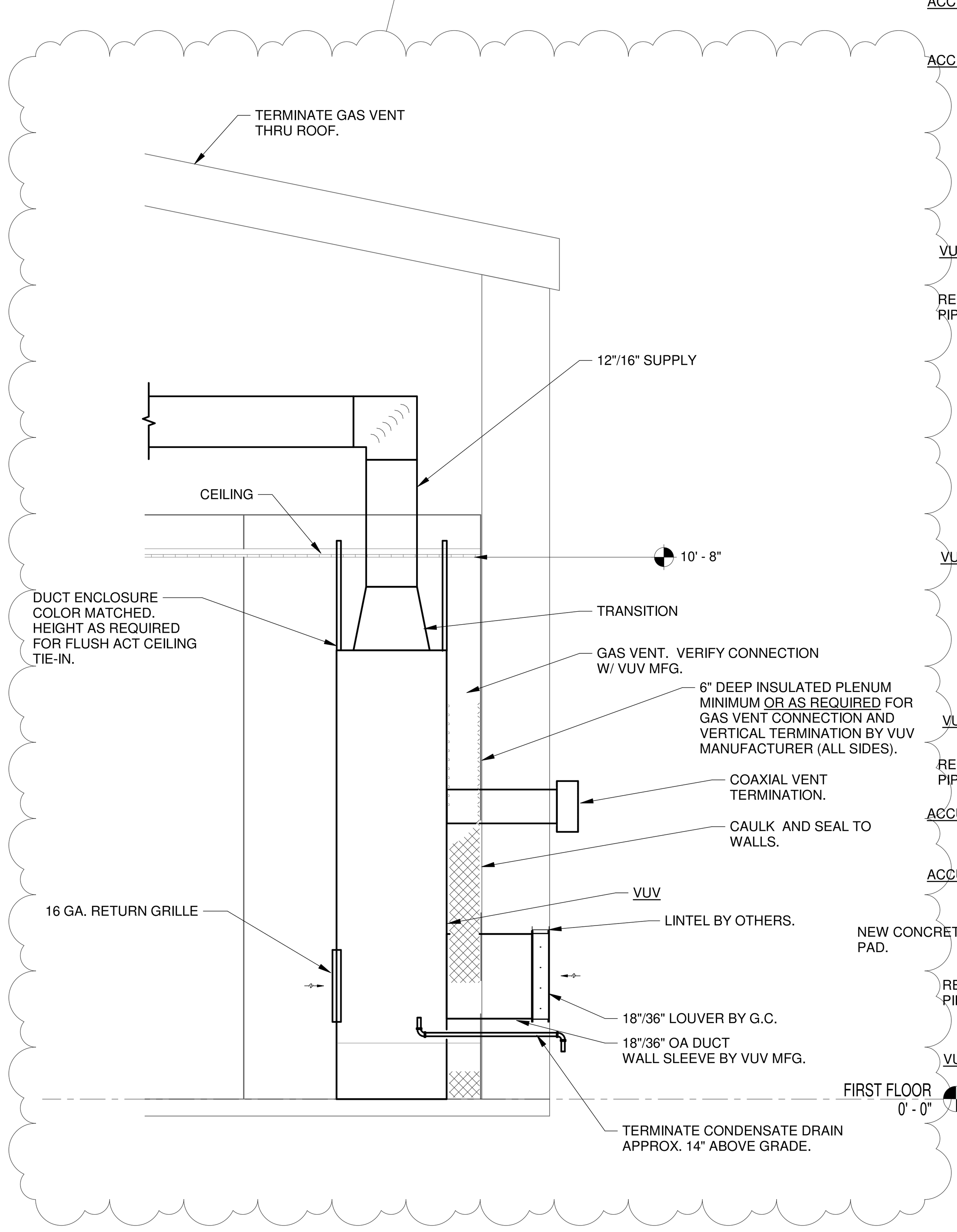
- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES - AIR DISTRIBUTION:

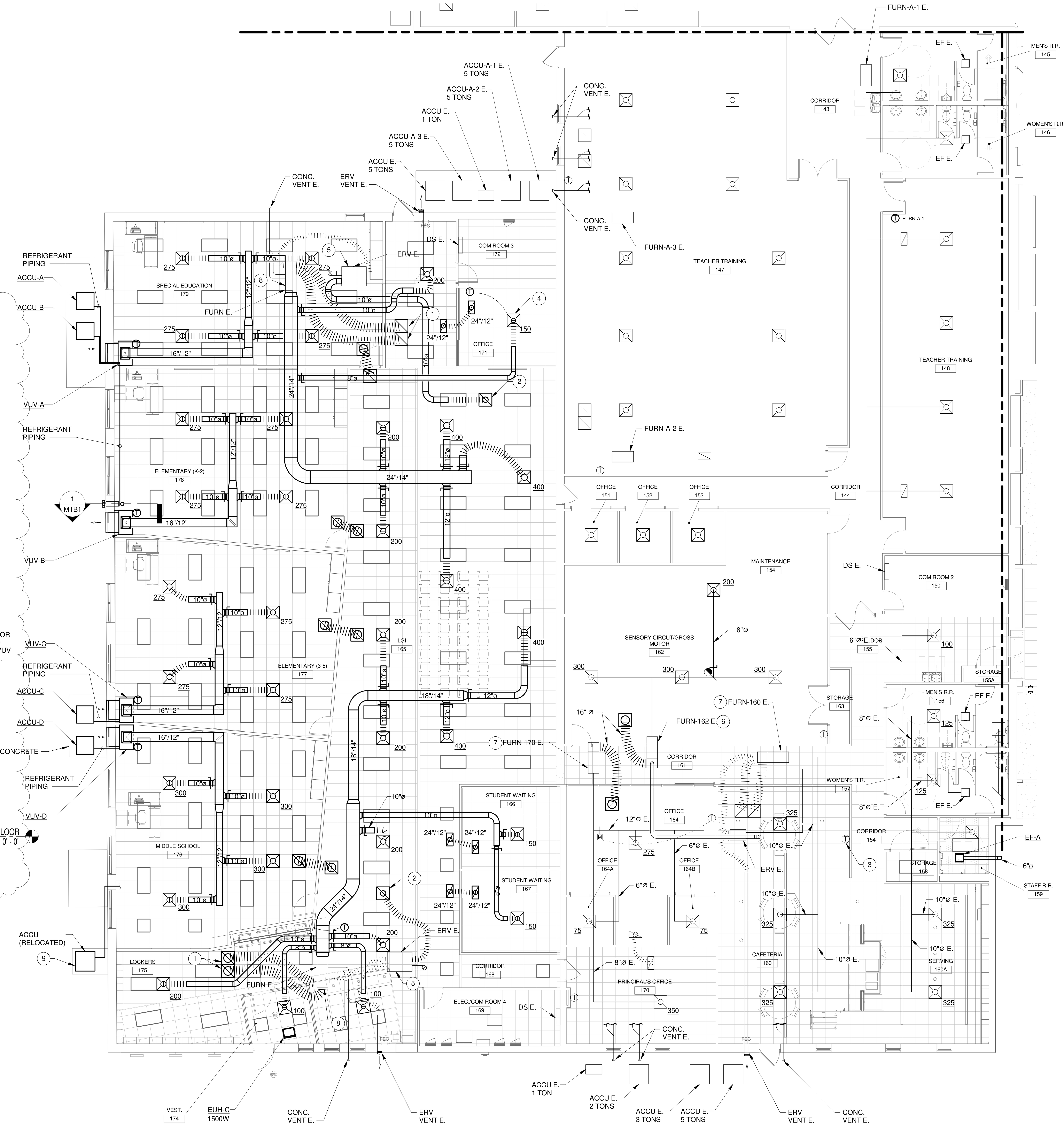
1. SEE SHEET M1A1 FOR ADDITIONAL GENERAL NOTES.

(#) PLAN NOTES:

1. REINSTALL 24"/24" FILTER RETURN AIR GRILLE AND PLENUM BOX AT APPROXIMATELY THIS LOCATION. EXTEND 16" FLEXIBLE DUCTWORK BACK TO FURNACE RETURN AIR PLENUM.
2. REINSTALL 24"/24" FILTER RETURN AIR GRILLE AND PLENUMI BOX AT APPROXIMATELY THIS LOCATION. EXTEND 10" FLEXIBLE DUCTWORK BACK TO ERV EXHAUST AIR INLET CONNECTION.
3. PROVIDE LOCKABLE SECURITY COVER OVER THERMOSTAT.
4. VAV DIFFUSER LIKE ACUTHERM THERMA-FUSER WITH REMOTE ADJUSTMENT.
5. PROVIDE TEST AND BALANCE ON EXISTING ERV.
6. PROVIDE TEST AND BALANCE ON EXISTING FURNACE. BALANCE SYSTEM O.A. TO 150 CFM.
7. PROVIDE TEST AND BALANCE ON EXISTING FURNACE. BALANCE SYSTEM O.A. TO 225 CFM.
8. PROVIDE TEST AND BALANCE ON EXISTING FURNACE. BALANCE SYSTEM O.A. TO 300 CFM.
9. REINSTALL ACCU AT THIS LOCATION ON NEW CONCRETE PAD. EXTEND EXISTING REFRIGERANT PIPING, AND CONTROL WIRE TO NEW LOCATION. PROVIDE REFRIGERANT CHARGE FOR SYSTEM.



1 VUV SECTION
SCALE: 1/2" = 1'-0"



FIRST FLOOR PLAN - UNIT B - MECHANICAL
SCALE: 1/8" = 1'-0"

NORTH

0 2 4 6 8 16 24 32

SCHMIDT ASSOCIATES
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www.schmidt-arch.com

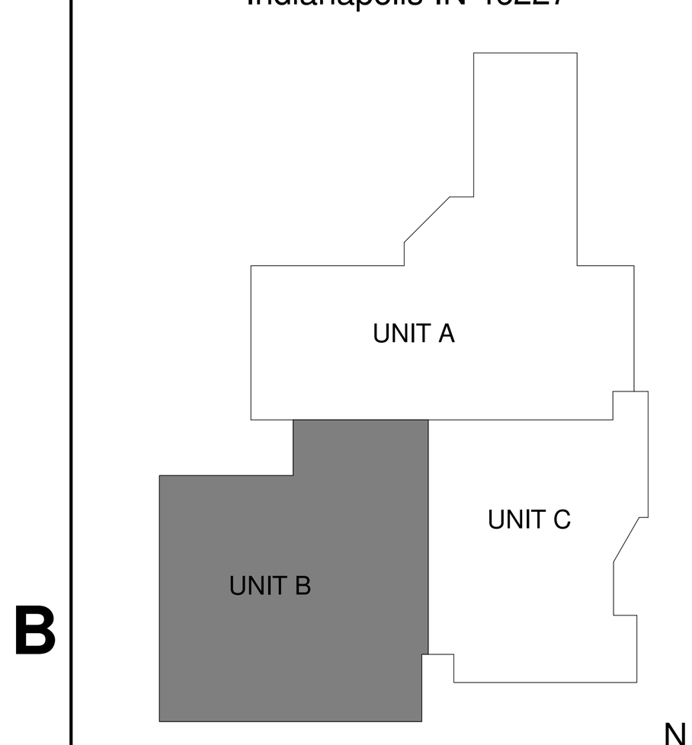
Project No. 2021-064.PAC
Project Date 01.05.2022
Produced MJE EJV

MICHAEL J. EAST REGISTERED No. 10001107 STATE OF INDIANA PROFESSIONAL ENGINEER
01/05/2022

D&A #21072
R.E. Dimond and Associates, Inc.
Consulting Engineers
732 North Capitol Avenue
Indianapolis, IN 46204
Phone: (317) 634-4672
Fax: (317) 638-8725

#	Revision	Date
2	ADDENDUM 2	01/31/2022

2115 E Southport Road
Indianapolis IN 46227



KEY PLAN

Perry Township Schools

Perry Township Schools

Perry Academic Center JWR Renovation and Improvements

FIRST FLOOR PLAN - UNIT B - MECHANICAL

M1B1

FAN SCHEDULE

MARK NO	DRAWING NAME &/OR PURPOSE	SPECIFICATION			MANUFACTURER & MODEL NO	CFM	OPERATING DATA						MOTOR DATA			WEIGHT (LBS)	REMARKS
		SECTION	NAME	EQUIPMENT TYPE			TOT STAT PRESS	RPM	BHP	SONES	DRIVE	WHEEL DIA	HP/KW	VOLTS	PHASE		
EF-A	EVENT SPACE EXHAUST	23 34 23	HVAC POWER VENTILATORS	CEILING-MOUNT VENTILATOR	GREENHECK SP-A390-VG	100	0.5	1750	-	4.5	DIRECT	-	1/15	115	1	26	UNIT MOUNTED SPEED CONTROLLER
EF-EVENT	EVENT SPACE EXHAUST	23 34 23	HVAC POWER VENTILATORS	IN-LINE CENTRIFUGAL FAN	GREENHECK SQ-95-VG	500	0.5	1725	0.11	8.5	DIRECT	-	1/6	115	1	50	WALL MOUNTED SPEED CONTROLLER

NOTES:

SF SUPPLY FAN EF EXHAUST FAN
RF RETURN FAN

VERTICAL CLASSROOM UNIT VENTILATOR SCHEDULE - (OWNER PROVIDED)

MARK NO	AREA SERVED	SPECIFICATION			MANUFACTURER & MODEL NO	COOLING (MBH)							AIR VOLUME (CFM)	SUPPLY FAN		ELECTRIC		FILTER	GAS HEATING (MBH)	REMARKS
		SECTION	NAME	EQUIPMENT TYPE		MBH	DX COIL	AMBIENT TEMP. °F	EER	EXP. VA.	COMPRESSORS			ESP	HP	VOLTS	PHASE		INPUT	
						TOTAL	EAT DB/WB		SEER		QUANTITY	TYPE	TOTAL						OUTPUT	
						SENSIBLE	LAT DB/WB						O.A.							
VUV-A	SPECIAL ED. 179	23 54 16	CLASSROOM UNIT VENTILATOR	UNIT VENTILATOR	ENGINEERED AIR - RUVG1200	---	76.9 / 66.1	95 F	----	Y	1	SCROLL	1,100	0.5"	3/4	120	1	Y	70	REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
						----	55.0 / 54.5		14				275						57	
VUV-B	ELEMENTARY (K-2) 178	23 54 16	CLASSROOM UNIT VENTILATOR	UNIT VENTILATOR	ENGINEERED AIR - RUVG1200	---	76.9 / 66.1	95 F	----	Y	1	SCROLL	1,100	0.5"	3/4	120	1	Y	70	REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
						----	55.0 / 54.5		14				275						57	
VUV-C	ELEMENTARY (3-5) 177	23 54 16	CLASSROOM UNIT VENTILATOR	UNIT VENTILATOR	ENGINEERED AIR - RUVG1200	---	76.9 / 66.1	95 F	----	Y	1	SCROLL	1,100	0.5"	3/4	120	1	Y	70	REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
						----	55.0 / 54.5		14				275						57	
VUV-D	MIDDLE SCHOOL 176	23 54 16	CLASSROOM UNIT VENTILATOR	UNIT VENTILATOR	ENGINEERED AIR - RUVG1200	---	76.9 / 66.1	95 F	----	Y	1	SCROLL	1,200	0.5"	3/4	120	1	Y	70	REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
						----	54.0 / 53.5		14				275						57	

CEILING DIFFUSER SCHEDULE

MARK NO.	SPECIFICATION NAME	MANUFACTURER AND MODEL NO.	CFM RANGE	MAX. N.C.	NECK DIA.	FACE SIZE	CEILING MODULE SIZE
50 - 120	SQUARE CEILING DIFFUSER	PRICE SCDA OR EQUAL	50 - 120	15	6"	24/24	24/24
125 - 245	SQUARE CEILING DIFFUSER	PRICE SCDA OR EQUAL	125 - 245	19	8"	24/24	24/24
250 - 325	SQUARE CEILING DIFFUSER	PRICE SCDA OR EQUAL	250 - 325	19	10"	24/24	24/24
330 - 475	SQUARE CEILING DIFFUSER	PRICE SCDA OR EQUAL	330 - 475	19	12"	24/24	24/24
480 - 645	SQUARE CEILING DIFFUSER	PRICE SCDA OR EQUAL	480 - 645	18	14"	24/24	24/24
650 - 735	SQUARE CEILING DIFFUSER	PRICE SCDA OR EQUAL	650 - 735	18	15"	24/24	24/24

EXHAUST/RETURN REGISTER SCHEDULE

MARK NO.	NOMINAL GRILLE SIZE	MAX N.C.	MAX ΔP	CFM RANGE	REMARKS
0 - 170	8/8	20	0.1"	0 - 170	
175 - 240	10/10	20	0.1"	175 - 240	-
245 - 400	12/12	20	0.1"	245 - 400	-
405 - 520	14/14	20	0.1"	405 - 520	
525 - 640	16/16	20	0.1"	525 - 640	-
645 - 830	18/18	20	0.1"	645 - 830	
835 - 1050	20/20	20	0.1"	835 - 1050	-
1055 - 1400	24/24	20	0.1"	1055 - 1400	-

AIR-COOLED CONDENSING UNIT SCHEDULE

MARK NO	EQUIPMENT SERVED	SPECIFICATION 2			MANUFACTURER & MODEL NO	COOLING (MBH)					ELECTRIC 1			POWERED 120 V CONVIENCE OUTLET	REMARKS
		SECTION	NAME	EQUIPMENT TYPE		AMBIENT TEMP. °F	EER	EXP. VA.	COMPRESSORS		MCA	VOLTS	PHASE		
							SEER		QUANTITY	TYPE	MOCP				
ACCU-A	VUV-A	23 62 01	AIR-COOLED CONDENSING UNIT	ACCU	CARRIER 24ACC442	95 F	----	Y	1	SCROLL	22.3	208	1	N	NOMINAL 3.5 TON UNIT.
							14				35.0				
ACCU-B	VUV-B	23 62 01	AIR-COOLED CONDENSING UNIT	ACCU	CARRIER 24ACC442	95 F	----	Y	1	SCROLL	22.3	208	1	N	NOMINAL 3.5 TON UNIT.
							14				35.0				
ACCU-C	VUV-C	23 62 01	AIR-COOLED CONDENSING UNIT	ACCU	CARRIER 24ACC442	95 F	----	Y	1	SCROLL	22.3	208	1	N	NOMINAL 3.5 TON UNIT.
							14				35.0				
ACCU-D	VUV-D	23 62 01	AIR-COOLED CONDENSING UNIT	ACCU	CARRIER 24ACC442	95 F	----	Y	1	SCROLL	22.3	208	1	N	NOMINAL 3.5 TON UNIT.
							14				35.0				
ACCU-1	FURN-1	23 62 01	AIR-COOLED CONDENSING UNIT	ACCU	CARRIER 24ACC436	95 F	----	Y	1	SCROLL	18.1	208	1	N	NOMINAL 3 TON UNIT.
							14				30.0				
ACCU-2	FURN-2	23 62 01	AIR-COOLED CONDENSING UNIT	ACCU	CARRIER 24ACC430	95 F	----	Y	1	SCROLL	16.8	208	1	N	NOMINAL 2.5 TON UNIT.
							14				25.0				
ACCU-3	FURN-3	23 62 01	AIR-COOLED CONDENSING UNIT	ACCU	CARRIER 24ACC430 3	95 F	----	Y	1	SCROLL	16.8	208	1	N	NOMINAL 2.5 TON UNIT.
							14				25.0				
ACCU-4	FURN-4	23 62 01	AIR-COOLED CONDENSING UNIT	ACCU	CARRIER 24ACC448	95 F	----	Y	1	SCROLL	20.8	208	1	N	NOMINAL 4 TON UNIT.
							14				35.0				
ACCU-KITCHEN	FC-A1/A2	23 62 01	AIR-COOLED CONDENSING UNIT	ACCU	DAIKIN RXTQ60TAVJUA	95 F	----	Y	1	INVERTER	29.1	208	1	N	NOMINAL 5 TON HEAT PUMP UNIT. LOW AMBIENT COOLING WIND BAFFLES.
							18				35.0				

FURNACE SCHEDULE

MARK NO	AREA SERVED	SPECIFICATION			MANUFACTURER & MODEL NO	AIR VOLUME (CFM)	SUPPLY FAN		ELECTRIC		FILTER	GAS HEATING (MBH)	REMARKS
		SECTION	NAME	EQUIPMENT TYPE		TOTAL	ESP	HP	VOLTS	PHASE		INPUT	
						O.A.						OUTPUT	
FURN-1	184 & 186	23 54 16	GAS FIRED CONDENSING FURNACE	GAS FIRED CONDENSING FURNACE	CARRIER 59SC2C080S21-20	1,500	0.5"	3/4	115	1	Y	80	PROVIDE CONDENSATE PUMP LIKE LITTLE GIANT VCMA SERIES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
						300						75	
FURN-2	180 & 182	23 54 16	GAS FIRED CONDENSING FURNACE	GAS FIRED CONDENSING FURNACE	CARRIER 59SC2C080S21-16	1,050	0.5"	3/4	115	1	Y	80	REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
						210						75	
FURN-3	181	23 54 16	GAS FIRED CONDENSING FURNACE	GAS FIRED CONDENSING FURNACE	CARRIER 59SC2C080S21-16	1,200	0.5"	3/4	115	1	Y	80	REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
						300						75	
FURN-4	190, 191, 192, & 193	23 54 16	GAS FIRED CONDENSING FURNACE	GAS FIRED CONDENSING FURNACE	CARRIER 59SC2C100S21-20	1,750	0.5"	3/4	115	1	Y	100	PROVIDE CONDENSATE PUMP LIKE LITTLE GIANT VCMA SERIES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
						390						93	

UNIT HEATER SCHEDULE

MARK NO	DRAWING NAME &/OR PURPOSE	SPECIFICATION			MANUFACTURER & MODEL NO	HEAT & ELECTRIC DATA			INSTALLED HEIGHT	STYLE	WEIGHT (LBS)	REMARKS
		SECTION	NAME	EQUIPMENT TYPE		WATTS/BTU	VOLTS	PHASE				
EUH-A	VESTIBULE HEAT	23 82 39.19	WALL AND CEILING UNIT HEATERS - ELECTRIC	UNIT HEATERS - ELECTRIC	TPI 305 SERIES	1,500	120	1	12" AFF	WALL MTD	-	PROVIDE WITH RECESSED TRIM KIT, BUILT-IN DOUBLE POLE THERMOSTAT, DISCONNECT SWITCH & SUMMER FAN SWITCH. FRONT INLET & FRONT OUTLET. COLOR TO BE SELECTED BY ARCHITECT.
EUH-B	VESTIBULE HEAT	23 82 39.19	WALL AND CEILING UNIT HEATERS - ELECTRIC	UNIT HEATERS - ELECTRIC	TPI 305 SERIES	750	120	1	12" AFF	WALL MTD	-	PROVIDE WITH RECESSED TRIM KIT, BUILT-IN DOUBLE POLE THERMOSTAT, DISCONNECT SWITCH & SUMMER FAN SWITCH. FRONT INLET & FRONT OUTLET. COLOR TO BE SELECTED BY ARCHITECT.
EUH-C	VESTIBULE HEAT	23 82 39.19	WALL AND CEILING UNIT HEATERS - ELECTRIC	UNIT HEATERS - ELECTRIC	3380 SERIESTPI	1,500	120	1	9'-3" AFF	CEILING MTD	-	PROVIDE WITH RECESSED TRIM KIT, BUILT-IN DOUBLE POLE THERMOSTAT, DISCONNECT SWITCH & SUMMER FAN SWITCH. FRONT INLET & FRONT OUTLET. COLOR TO BE SELECTED BY ARCHITECT.
PUH-A	MISC HEAT	-	-	PROPELLER UNIT HEATERS -GAS	REZNOR UDZ-60	60 MBH	120	1	9'-0" AFF	HORIZONTAL	80	TWO-STAGE GAS VALVE, CONCENTRIC ADAPTER, THERMOSTAT, SUSPENSION KIT

VRF FAN COIL UNIT SCHEDULE

MARK NO.	AREA SERVED	SPECIFICATION			MANUFACTURER & MODEL NO	CAPACITY			AIRFLOW		ELECTRICAL DATA				WEIGHT (LBS.)	REMARKS
		SECTION	NAME	EQUIPMENT TYPE		COOLING		HEATING	HI	LOW	MCA	MOCP	VOLTS	PHASE		
						THC	SHC									
FC-A1	NEW KITCHEN - 104A	23 82 19	FAN COIL UNIT	CEILING CASSETTE	DAIKIN FXFQ30TVJU	30,000	22,300	34,000	1,100	-	1.3	15	208	1	70	INCLUDE DKN WI-FI ADAPTOR FOR VRV.
FC-A2	NEW KITCHEN - 104A	23 82 19	FAN COIL UNIT	CEILING CASSETTE	DAIKIN FXFQ30TVJU	30,000	22,300	34,000	1,100	-	1.3	15	208	1	70	INCLUDE DKN WI-FI ADAPTOR FOR VRV.

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Project No. 2021-064.PAC
Project Date 01.05.2022
Produced MJE EJV

MICHAEL J. EAST REGISTERED No. 10001107 STATE OF INDIANA PROFESSIONAL ENGINEER
01/05/2022

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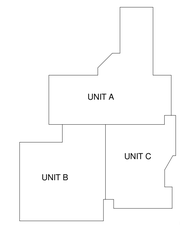
#	Revision	Date
1	VUV PRE-PURCHASE	12/23/2021
2	ADDENDUM 2	01/31/2022

2115 E Southport Road
Indianapolis IN 46227



KEY PLAN

Perry Township Schools

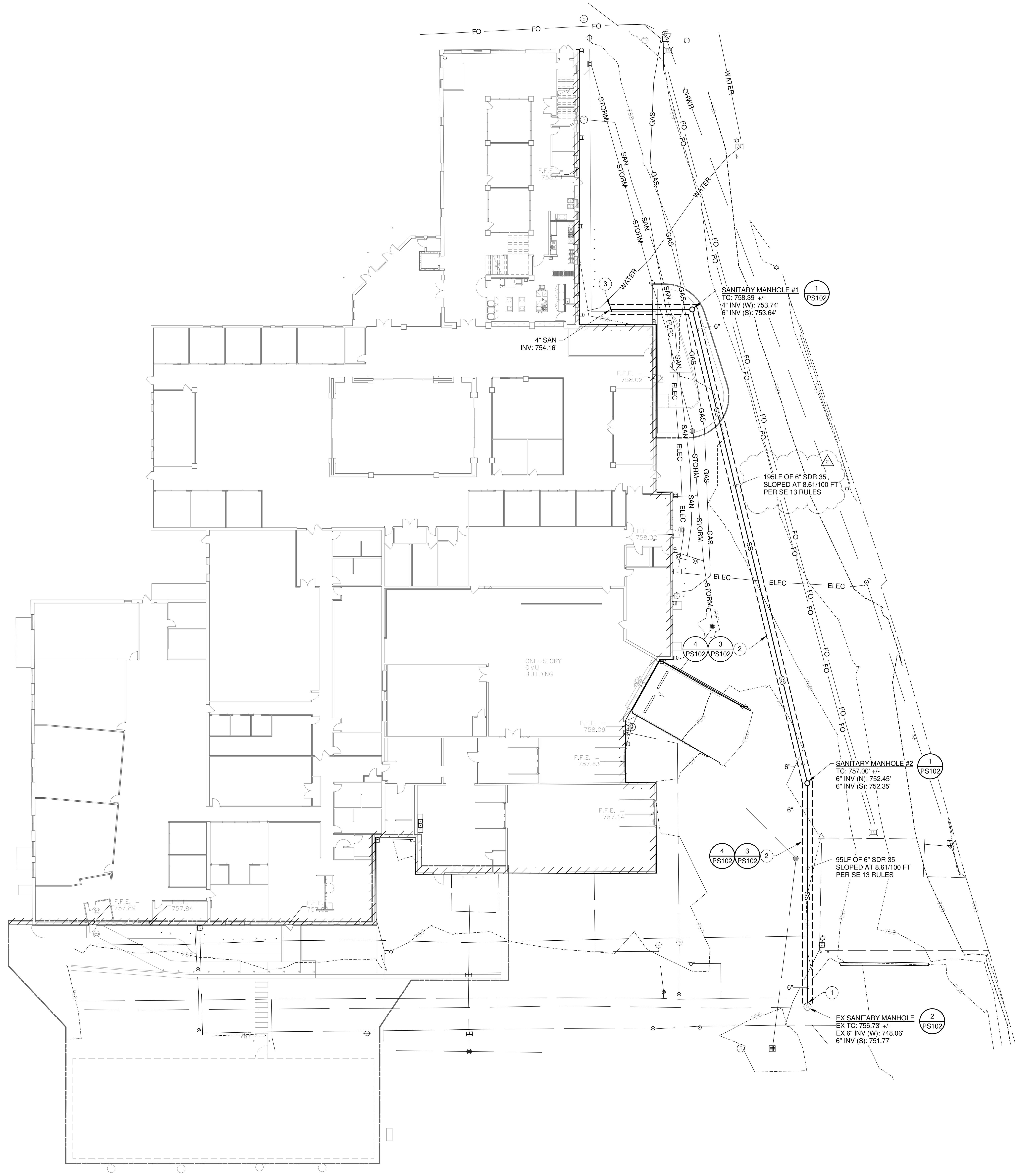
Perry Township Schools

Perry Academic Center JWR Renovation and Improvements

SCHEDULES - MECHANICAL

M611

6 5 4 3 2 1



SITE PLAN - PLUMBING

SCALE: 1" = 20'-0"

NORTH

RENOVATION LEGEND:

- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. REFER TO SHEET PM001 FOR ADDITIONAL GENERAL NOTES.

PLAN NOTES:

1. CONNECT 6" SANITARY SEWER TO EXISTING SANITARY MANHOLE.
2. SAW CUT AND PATCH ASPHALT PAVEMENT TO MATCH EXISTING. REFER TO ARCHITECTURAL SPECIFICATIONS.
3. REFER TO SHEET P411 FOR CONTINUATION OF PIPING.

SCHMIDT
ASSOCIATES
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Indianapolis, IN 46204
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Project No. 2021-064.PAC
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Produced DED VLC

MICHAEL J. EAST
REGISTERED
No. 10001107
STATE OF INDIANA
PROFESSIONAL ENGINEER

Michael J. East
01/05/2022

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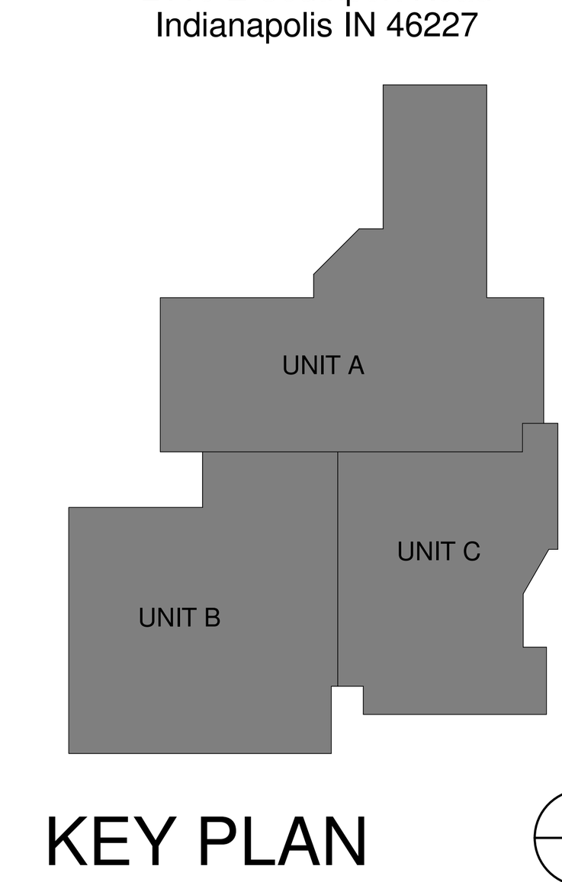
#	Revision	Date
2	ADDENDUM 2	01/31/2022

2115 E Southport Road
Indianapolis IN 46227



KEY PLAN

Perry Township Schools

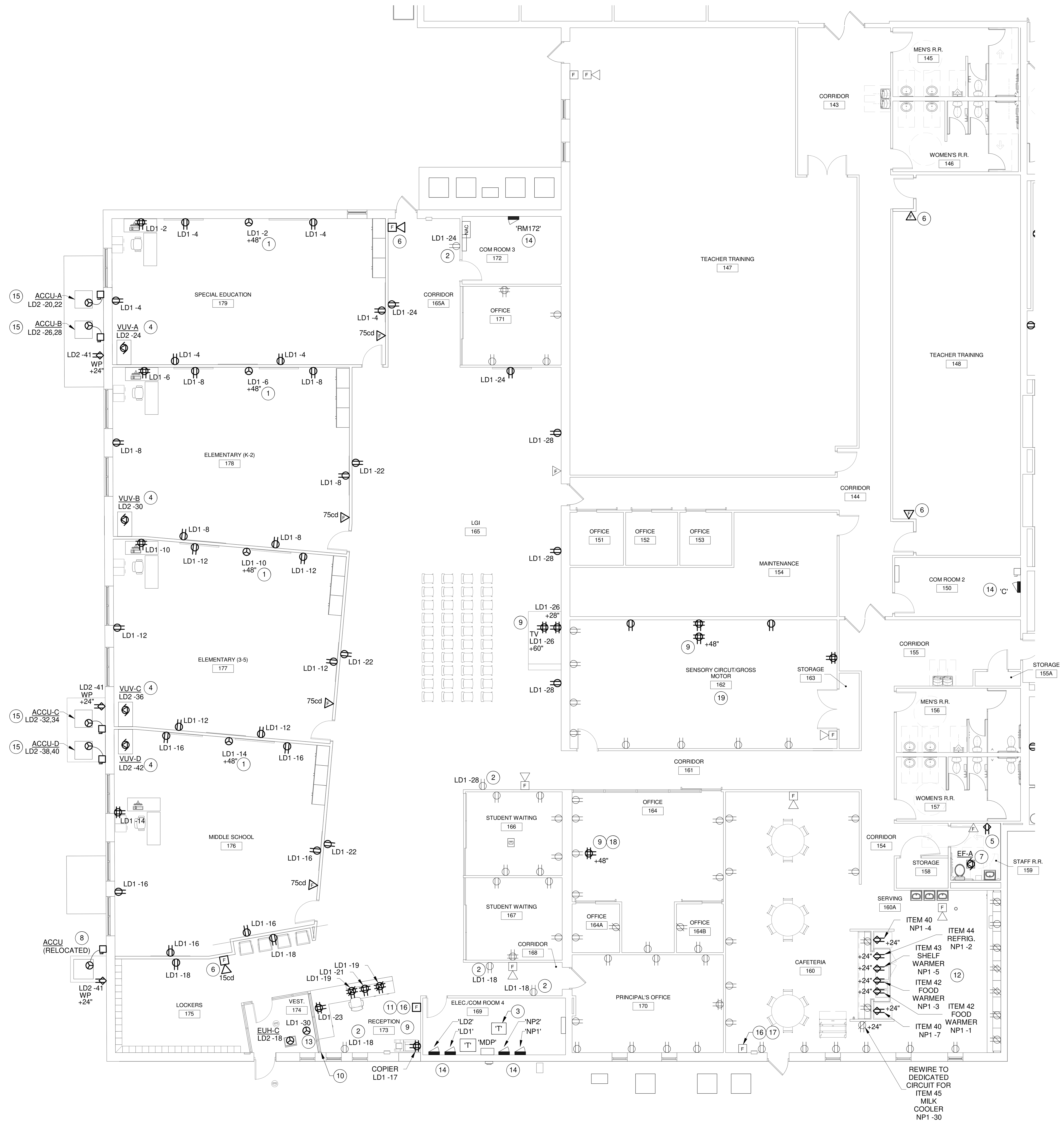
Perry Township Schools

Perry Academic Center JWR Renovation and Improvements

SITE PLAN - PLUMBING

PS101

6 5 4 3 2 1



FIRST FLOOR PLAN - UNIT B - POWER AND SIGNAL

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

NORTH

RENOVATION LEGEND:

- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. SEE E001 FOR GENERAL NOTES.
2. CIRCUIT NUMBERS INDICATED ARE FOR REFERENCE, INTENDED TO UTILIZE EXISTING BRANCH BREAKERS UNLESS OTHERWISE NOTED.

PLAN NOTES:

1. CONNECT TO SMARTBOARD. COORDINATE EXACT LOCATION AND CONNECTION IN FIELD WITH SMARTBOARD INSTALLER PRIOR TO ROUGH-IN.
2. REWIRE EXISTING RECEPTACLE TO CIRCUIT SHOWN. REPLACE DEVICE AND COVER.
3. EXISTING TRANSFORMER LOCATED ABOVE CEILING.
4. PROVIDE DEDICATED 120V CIRCUIT AND ON/OFF SWITCH AT UNIT.
5. PROVIDE NEW RECEPTACLE ON EXISTING CIRCUIT.
6. REINSTALL SALVAGED FIRE ALARM DEVICE ON NEW WALL. EXTEND EXISTING NOTIFICATION CIRCUIT WIRING.
7. EXHAUST FAN CONTROLLED BY ROOM LIGHTING SWITCH. CONNECT TO EXISTING LIGHTING CIRCUIT.
8. RELOCATED ACCU. REINSTALL SALVAGED DISCONNECT AND RECONNECT TO EXISTING 60A-3ϕ CIRCUIT.
9. VERIFY DEVICE LOCATIONS WITH OWNER.
10. PATHWAY FOR WIRING TO DEVICES AT RECEPTION DESK SHALL BE ROUTED FROM EXTERIOR WALL, THROUGH WALL BELOW VESTIBULE GLASS.
11. REINSTALL SALVAGED FIRE ALARM DEVICE ON WALL. EXTEND EXISTING INITIATING CIRCUIT WIRING. VERIFY LOCATION WITH OWNER.
12. VERIFY CIRCUITS ARE AVAILABLE. UTILIZE DEDICATED SPARE CIRCUITS AS REQUIRED.
13. PROVIDE 120V POWER TO DOOR OPERATORS AND SECURITY SYSTEM ACCESS CONTROL POWER SUPPLIES. CONNECT AS REQUIRED.
14. EXISTING PANELS TO REMAIN.
15. PROVIDE 60A-3P NEMA 3R NF DISCONNECT SWITCH AT ACCU AND WIRE WITH #8 CONDUCTORS. (2)
16. PROVIDE STI STOPPER II SERIES PROTECTIVE COVER WITH AUDIBLE ALARM ON PULL STATION.
17. LOWER EXISTING FIRE ALARM PULL STATION TO 48-INCHES AFF TO TOP OF BOX.
18. CONNECT TO EXISTING RECEPTACLE CIRCUIT.
19. CONNECT NEW WALL RECEPTACLES TO EXISTING DEMOLISHED FLOOR BOX CIRCUITS (MAXIMUM 3 DEVICES PER CIRCUIT).

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Project No.	2021-064.PAC
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Produced	TEH DK

TIMOTHY E. HILL REGISTERED No. PE19800083 STATE OF INDIANA PROFESSIONAL ENGINEER
01/05/2022

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#	Revision	Date
2	ADDENDUM 2	01/31/2022

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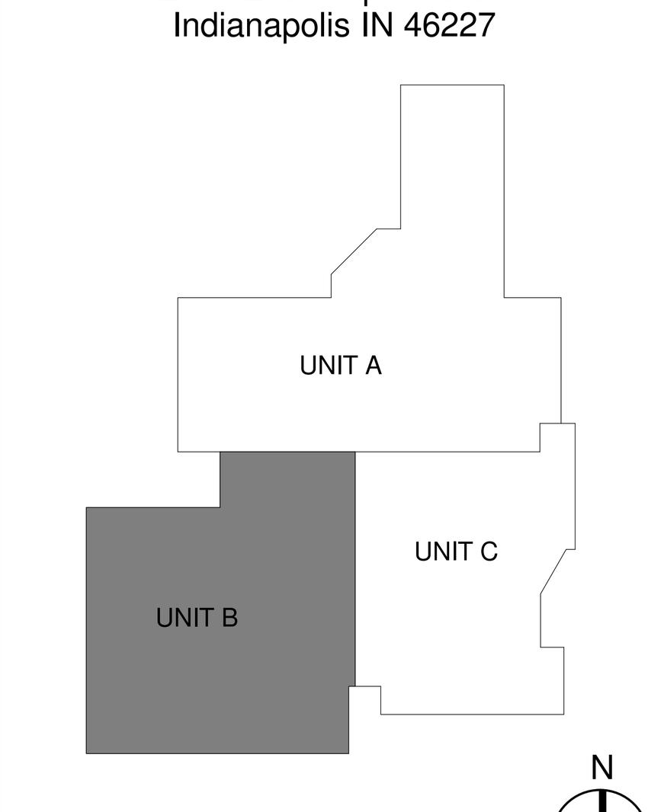


KEY PLAN

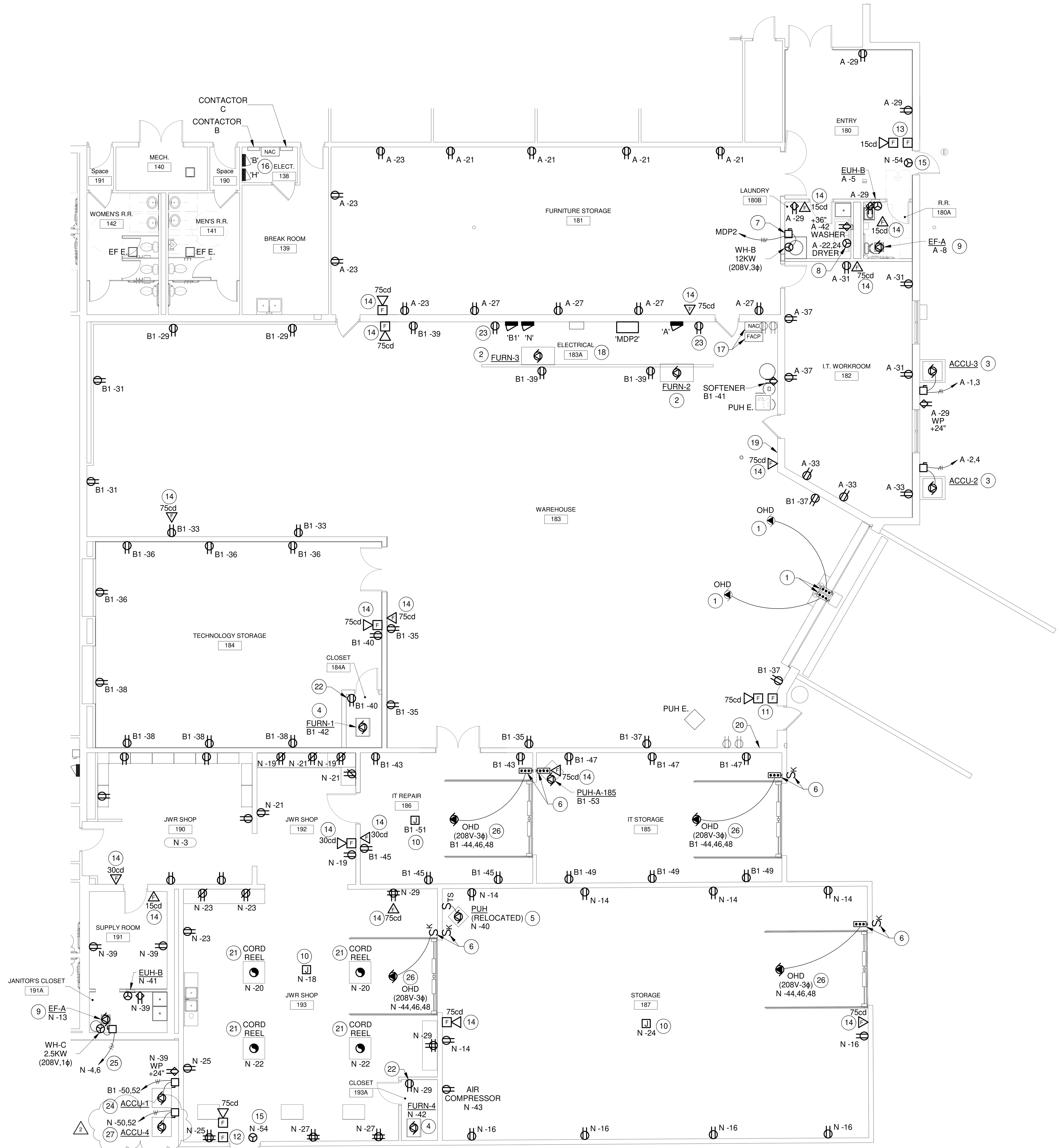
Perry Township Schools

Perry Academic Center JWR Renovation and Improvements

FIRST FLOOR PLAN - UNIT B - POWER AND SIGNAL

EP1B1

6 5 4 3 2 1



FIRST FLOOR PLAN - UNIT C - POWER AND SIGNAL

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

NORTH

RENOVATION LEGEND:

- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. SEE E001 FOR GENERAL NOTES.
2. CIRCUIT NUMBERS SHOWN ARE FOR REFERENCE.

PLAN NOTES:

1. EXISTING OVERHEAD DOOR OPERATORS.
2. CONNECT NEW FURNACE TO EXISTING FURNACE 120V DEDICATED CIRCUIT, BELIEVED TO BE FED FROM PANEL 'A.' PROVIDE BUSSMANN SSU SWITCH/PLUG FUSE ON BOTTOM OF FURNACE.
3. PROVIDE 30A-2P NF NEMA 3R DISCONNECT SWITCH WITH #10 WIRE. INSTALL AT APPROXIMATELY 5'-0" (MATCH EXISTING HEIGHT).
4. PROVIDE BUSSMANN SSU SWITCH/PLUG FUSE ON SIDE OF FURNACE.
5. PROVIDE 2-HOUR ELECTRONIC TIMER SWITCH ON WALL FOR CONTROL OF PUH, LIKE WATTSTOPPER TS-400.
6. INSTALL KEYED SWITCH OR CONTROL STATION FOR OVERHEAD DOOR OPERATOR. SEE ARCHITECT FOR SPECIFICATIONS.
7. 60A-3P NF DISCONNECT SWITCH. WIRE WITH #6 CONDUCTORS.
8. NEMA 14-30R RECEPTACLE, 30A, 120/208V, 3P, 4W. WIRE WITH #10.
9. EXHAUST FAN CONTROLLED BY ROOM LIGHTING SWITCH.
10. PROVIDE SPARE CIRCUIT TO JUNCTION BOX ON JOIST/CEILING FOR FUTURE USE.
11. INSTALL SALVAGED FIRE ALARM PULL STATION AND HORN/STROBE. EXTEND EXISTING INITIATING AND NOTIFICATION CIRCUIT WIRING.
12. INSTALL SALVAGED FIRE ALARM PULL STATION AND PROVIDE NEW HORN/STROBE TO MATCH EXISTING. EXTEND EXISTING INITIATING CIRCUIT AND NOTIFICATION CIRCUIT WIRING. ALSO PROVIDE STI STOPPER II SERIES PROTECTIVE COVER WITH AUDIBLE ALARM ON PULL STATION.
13. INSTALL SALVAGED FIRE ALARM PULL STATION AND PROVIDE NEW HORN/STROBE TO MATCH EXISTING. EXTEND EXISTING INITIATING CIRCUIT AND NOTIFICATION CIRCUIT WIRING.
14. PROVIDE NEW FIRE ALARM DEVICE. MATCH EXISTING . PROVIDE NOTIFICATION CIRCUIT WIRING.
15. PROVIDE 120V POWER FOR SECURITY SYSTEM ACCESS CONTROL POWER SUPPLY.
16. EXISTING PANELS TO REMAIN.
17. EXISTING FIRELITE MS-9050UD ADDRESSABLE FIRE ALARM CONTROL PANEL, HONEYWELL HWF2V-COM COMMERCIAL FIRE COMMUNICATOR, AND NAC TO REMAIN. REWORK AS REQUIRED.
18. SEE RISER DIAGRAM ON E601 FOR SCOPE OF WORK AT 'EAST' ELECTRICAL SERVICE.
19. LOCATION OF MAIN WATER SERVICE FOR ELECTRICAL SERVICE GROUNDING ELECTRODE CONNECTION.
20. LOCATION OF MAIN FIRE SERVICE FOR ELECTRICAL SERVICE GROUNDING ELECTRODE CONNECTION.
21. PROVIDE CORD REEL WITH 20-FOOT CORD AND QUADRIPLEX RECEPTACLE - LIKE STAGE NINJA #STX-20-4. MOUNT SECURELY FROM STRUCTURE.
22. LOCATE RECEPTACLE FOR CONVENIENCE USE AND CONDENSATE PUMP POWER. COORDINATE WITH MECHANICAL CONTRACTOR.
23. REPLACE RECEPTACLE AND WIRE. REUSE EXISTING CIRCUIT.
24. PROVIDE 30A-2P NF NEMA 3R DISCONNECT SWITCH WITH #8 WIRE (VOLTAGE DROP). INSTALL AT APPROXIMATELY 5'-0".
25. #10 WIRE (VOLTAGE DROP).
26. VERIFY OHD REQUIREMENTS PRIOR TO ROUGH-IN.
27. (2) PROVIDE 60A-2P NF NEMA 3R DISCONNECT SWITCH WITH #6 WIRE (VOLTAGE DROP) IN 1"C. INSTALL AT APPROXIMATELY 5'-0".

0 2 4 6 8 16 24 32

1 2 3 4

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2	ADDENDUM 2	01/31/2022

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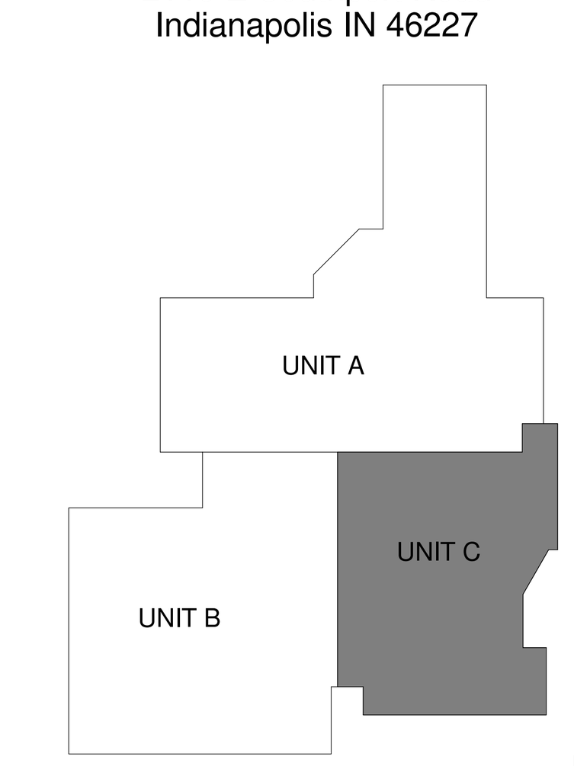

KEY PLAN

Perry Township Schools

Perry Township Schools

Perry Academic Center JWR Renovation and Improvements

FIRST FLOOR PLAN - UNIT C - POWER AND SIGNAL

EP1C1

6 5 4 3 2 1

DISTRIBUTION PANEL

PANEL ID:	MDP	**LOCATION:**	ELEC./COM ROOM 4 169
CONFIGURATION:	480Y/277V 3Φ 4-Wire+Ground	**ENCLOSURE:**	NEMA 1
MAIN:	600 A MLO	**TRIM:**	SURFACE
SCCR (AMPS RMS SYMM.):	42KAIC	**MODIFICATIONS:**	

NO.	Load Name	Rating	POLES	PHASE A	PHASE B	PHASE C
1	LD1/LD2	100 A	3	46 A	49 A	60 A
2	T TO NP1, NP2	100 A	3	13 A	12 A	5 A
3	P1 (OFF)	200 A	3	--	--	--
4	SPARE	200 A	3	--	--	--
5						
6						
7						
8						
9						
10						
11						
12						

TOTAL LOAD (VA): **TOTAL LOAD (A):**

REMARKS:

EXISTING PANELBOARD - GENERAL ELECTRIC SPECTRA-SERIES

LD2 PANELBOARD SCHEDULE

LOCATION : ELEC./COM ROOM 4 169 **SCCR (AMPS RMS SYMM):** **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground **AMP :** 225 A **MAIN :** MLO **NEMA:** Type 1 **MOUNTING :** SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	EXISTING ACCU D-1		60 A	2	0 / 0			1	--	--	SPACE	2
3						0 / 0		1	--	--	SPACE	4
5	EXISTING ERV D-1		20 A	1			0 / 0	2	60 A		EXISTING ACCU D-4	6
7	EXISTING FURNACE D-4		20 A	1	0 / 0							8
9	EXISTING ERV D-4		20 A	1		0 / 0		2	60 A		EXISTING ACCU D-3	10
11	EXISTING ERV D-3		20 A	1			0 / 0					12
13	EXISTING FURNACE D-3		20 A	1	0 / 0			2	60 A		EXISTING ACCU D-2	14
15	EXISTING FURNACE D-2		20 A	1		0 / 0						16
17	EXISTING ERV D-2		20 A	1			0 / 1500	1	20 A	1	EUH-C VEST. 174	18
19	EXISTING FURNACE D-1		20 A	1	0 / 1747			2	35 A	2	ACCU-A	20
21	SPARE		20 A	1		0 / 1747						22
23	SPARE		20 A	1			0 / 1656	1	20 A	1	VUV-A SPECIAL EDUCATION 179	24
25	SPARE		20 A	1	0 / 1747			2	35 A	2	ACCU-B	26
27	SPARE		20 A	1		0 / 1747						28
29	SPARE		20 A	1			0 / 1656	1	20 A	1	VUV-B ELEMENTARY (K-2) 178	30
31	SPARE		20 A	1	0 / 1747			2	35 A	2	ACCU-C	32
33	SPARE		20 A	1		0 / 1747						34
35	SPARE		20 A	1			0 / 1656	1	20 A	1	VUV-C ELEMENTARY (3-5) 177	36
37	SPARE		20 A	1	0 / 1747			2	35 A	2	ACCU-D	38
39	SPARE		20 A	1		0 / 1747						40
41	EXTERIOR RECEPTS - WEST SIDE		20 A	1			540 / 1656	1	20 A	1	VUV-D MIDDLE SCHOOL 176	42
				TOTALS :	6989 VA	6989 VA	8664 VA					

TOTAL CONNECTED LOAD (VA) : 22642 VA **TOTAL CONNECTED LOAD (AMPS) :** 63 A

REMARKS:

EXISTING PANELBOARD - GENERAL ELECTRIC A-SERIES

NOTES:

1. CONNECT NEW LOAD TO EXISTING BREAKER.
2. REPLACE (2) 20A-1P BREAKERS WITH A 35A-2P (GE 'THQB'). 2

LD1 PANELBOARD SCHEDULE

LOCATION : ELEC./COM ROOM 4 169 **SCCR (AMPS RMS SYMM):** **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground **AMP :** 225 A **MAIN :** MCB **NEMA:** Type 1 **MOUNTING :** SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	LIGHTING - SPECIAL ED, K-2	1	20 A	1	970 / 1360			1	20 A	1	RECEPT SPECIAL ED. 179 AV/TEACHER	2
3	LIGHTING - ELEMENTARY, MIDDLE SCHOOL	1	20 A	1		1034 / 1080		1	20 A	1	RECEPT SPECIAL EDUCATION 179	4
5	LIGHTING - ENTRY VEST, LOCKER, RECEPT.	1	20 A	1			639 / 1360	1	20 A	1	RECEPT ELEMENTARY (K-2) 178 AV/TEACHER	6
7	EXISTING DATA CLOSET OUTLETS		20 A	1	0 / 1080			1	20 A	1	RECEPT ELEMENTARY (K-2) 178	8
9	LIGHTING - LGI WEST	1	20 A	1		580 / 1360		1	20 A	1	RECEPT ELEMENTARY (3-5) 177 AV/TEACHER	10
11	LIGHTING - LGI EAST	1	20 A	1			847 / 1080	1	20 A	1	RECEPT ELEMENTARY (3-5) 177	12
13	SPARE (AFTER DEMO)		20 A	1	0 / 1360			1	20 A	1	RECEPT MIDDLE SCHOOL 176 AV/TEACHER	14
15	SPARE (AFTER DEMO)		20 A	1		0 / 1080		1	20 A	1	RECEPT MIDDLE SCHOOL 176	16
17	COPIER RECEPTION 173	1	20 A	1			1000 / 900	1	20 A	1	RECEPT CORRIDOR 168, LOCKERS, RECEPTION	18
19	COUNTEROP RECEPTS RECEPTION 173	1	20 A	1	360 / 0			1	20 A		EXISTING CONFERENCE ROOM	20
21	COUNTERTOP RECEPT RECEPTION 173	1	20 A	1		180 / 540		1	20 A	1	EAST RECEPTS LGI 165	22
23	UNDERCOUNTER RECEPT RECEPTION 173	1	20 A	1			360 / 540	1	20 A	1	RECEPT CORRIDOR 165A, LGI 165 - NORTH	24
25	SPARE (AFTER DEMO)		20 A	1	0 / 720			1	20 A	1	EAST AV RECEPTS LGI 165	26
27	SPARE (AFTER DEMO)		20 A	1		0 / 720		1	20 A	1	RECEPT LGI 165 - EAST WALL	28
29	SPARE (AFTER DEMO)		20 A	1			0 / 1000	1	20 A	1	DOOR POWER VEST. 174	30
31	SPARE (AFTER DEMO)		20 A	1	0 / 0			1	20 A		SPARE (AFTER DEMO)	32
33	SPARE (AFTER DEMO)		20 A	1		0 / 0		1	20 A		SPARE	34
35	SPARE (AFTER DEMO)		20 A	1			0 / 0	1	20 A		SPARE	36
37	EXISTING SOUTH MANAGER OFFICE		20 A	1	0 / 0			1	20 A		EXISTING NORTH MANAGER OFFICE	38
39	SPARE		20 A	1		0 / 0		1	20 A		SPARE	40
41	SPARE		20 A	1			0 / 0	1	20 A		SPARE	42
				TOTALS :	5850 VA	6574 VA	7726 VA					

TOTAL CONNECTED LOAD (VA) : 20150 VA **TOTAL CONNECTED LOAD (AMPS) :** 56 A

REMARKS:

EXISTING PANELBOARD - GENERAL ELECTRIC A-SERIES

NOTES:

1. CONNECT NEW LOAD TO EXISTING BREAKER.

NP2 PANELBOARD SCHEDULE

LOCATION : ELEC./COM ROOM 4 169 **SCCR (AMPS RMS SYMM):** **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground **AMP :** 250 A **MAIN :** MLO **NEMA:** Type 1 **MOUNTING :** SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	EXISTING LOAD		60 A	2	0 / 0			2	60 A		EXISTING LOAD	2
3						0 / 0						4
5	EXISTING LOAD		50 A	2			0 / 0	2	50 A		SPARE	6
7					0 / 0							8
9	SPARE		50 A	2		0 / 0		2	50 A		SPARE	10
11							0 / 0					12
13	SPARE		50 A	2	0 / 0			2	50 A		SPARE	14
15						0 / 0						16
17	SPARE		20 A	1			0 / 0	1	20 A		SPARE	18
19	EXISTING LOAD		30 A	2	0 / 0			2	30 A		EXISTING LOAD	20
21						0 / 0						22
23	EXISTING LOAD		30 A	2			0 / 0	2	30 A		EXISTING LOAD	24
25					0 / 0							26
27	EXISTING LOAD		30 A	2		0 / 0		2	30 A		EXISTING LOAD	28
29							0 / 0					30
31	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	32
33	EXISTING LOAD		20 A	1		0 / 0		2	15 A		EXISTING LOAD	34
35	EXISTING LOAD		20 A	1			0 / 0					36
37	SPARE		20 A	1	0 / 0			1	20 A		SPARE	38
39	SPARE		20 A	1		0 / 0		1	20 A		EXISTING LOAD	40
41	SPARE		20 A	1			0 / 0	1	20 A		SPARE	42
				TOTALS :	0 VA	0 VA	0 VA					

TOTAL CONNECTED LOAD (VA) : 0 VA **TOTAL CONNECTED LOAD (AMPS) :** 0 A

REMARKS:

EXISTING PANELBOARD - EATON PRL 3a

NOTES:

NP1 PANELBOARD SCHEDULE

LOCATION : ELEC./COM ROOM 4 169 **SCCR (AMPS RMS SYMM):** **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground **AMP :** 250 A **MAIN :** 225A MCB **NEMA:** Type 1 **MOUNTING :** SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	ITEM 42 - FOOD WARMER - SERVING 160A	1	20 A	1	1500 / 240			1	20 A	1	ITEM 44 - REFRIG. - SERVING 160A	2
3	ITEM 42 - FOOD WARMER - SERVING 160A	1	20 A	1		1500 / 1500		1	20 A	1	ITEM 40 - FOOD WARMER - SERVING 160A	4
5	ITEM 43 - SHELF WARMER - SERVING 160A	1	20 A	1			400 / 0	1	20 A		EXISTING LOAD	6
7	ITEM 40 - FOOD WARMER - SERVING 160A	1	20 A	1	1500 / 0			1	20 A		EXISTING LOAD	8
9	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	10
11	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	12
13	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	14
15	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	16
17	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	18
19	EXISTING LOAD		20 A	2	0 / 0			1	20 A		EXISTING LOAD	20
21						0 / 0		1	20 A		EXISTING LOAD	22
23	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	24
25	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	26
27	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	28
29	SPARE		20 A	1			0 / 1000	1	20 A	1	ITEM 45 - MILK COOLER	30
31	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	32
33	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	34
35	SPARE		20 A	1			0 / 0	1	20 A		SPARE	36
37	SPARE		20 A	1	0 / 0			1	20 A		SPARE	38
39	SPARE		20 A	1		0 / 0		1	20 A		SPARE	40
41	SPARE		20 A	1			0 / 0	1	--	--	SPACE	42
				TOTALS :	3240 VA	3000 VA	1400 VA					

TOTAL CONNECTED LOAD (VA) : 7640 VA **TOTAL CONNECTED LOAD (AMPS) :** 21 A

REMARKS:

EXISTING PANELBOARD - EATON PRL 3a

NOTES:

1. CONNECT NEW LOAD TO EXISTING BREAKER.

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Project No. 2021-064.PAC
Project Date 01.05.2022
Produced TEH DK

TIMOTHY E. HILL REGISTERED No. PE19800083 STATE OF INDIANA PROFESSIONAL ENGINEER
01/05/2022

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#	Revision	Date
2	ADDENDUM 2	01/31/2022

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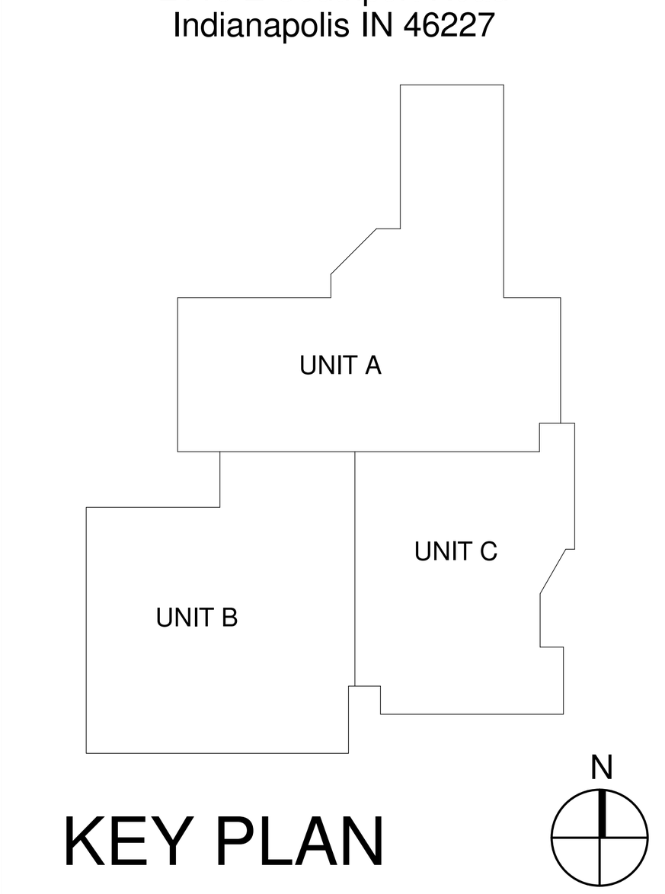

KEY PLAN

Perry Township Schools

Perry Academic Center JWR Renovation and Improvements

SCHEDULES - PANELBOARDS - SOUTH SERVICE

E612

B — PANELBOARD SCHEDULE

LOCATION : ELECT. 138 | **SCCR (AMPS RMS SYMM):** | **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground | **AMP :** 250 A | **MAIN :** MLO | **NEMA:** Type 1 | **MOUNTING :** RECESSED

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	2
3	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	4
5	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	6
7	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	8
9	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	10
11	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	12
13	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	14
15	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	16
17	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	18
19	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	20
21	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	22
23	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	24
25	SPARE		20 A	1	0 / 0			1	20 A		EXISTING LOAD	26
27	SPARE		20 A	1		0 / 0		1	20 A		EXISTING LOAD	28
29	SPARE		20 A	1			0 / 0	1	20 A		EXISTING LOAD	30
31	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	32
33	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	34
35	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	36
37	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	38
39	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	40
41	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	42
				TOTALS :	0 VA	0 VA	0 VA					

TOTAL CONNECTED LOAD (VA) : 0 VA — **TOTAL CONNECTED LOAD (AMPS) :** 0 A

REMARKS: EXISTING PANELBOARD - SIEMENS TYPE S1

NOTES:

A — PANELBOARD SCHEDULE

LOCATION : ELECTRICAL 183A | **SCCR (AMPS RMS SYMM):** 22,000 | **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground | **AMP :** 225 A | **MAIN :** MLO | **NEMA:** Type 1 | **MOUNTING :** SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	ACCU-3		25 A	2	1747 / 1747			2	25 A		ACCU-2	2
3						1747 / 1747						4
5	EUH-B R.R. 180A		20 A	1			750 / 874	1	20 A		LIGHTING - FURNITURE STORAGE	6
7	RECONNECT EXISTING LOAD		20 A	1	0 / 356			1	20 A		LIGHTING ENTRY, LAUNDRY, RR	8
9	RECONNECT EXISTING LOAD		20 A	1		0 / 437		1	20 A		LIGHTING IT WORKROOM	10
11	RECONNECT EXISTING LOAD		20 A	1			0 / 0	1	20 A		RECONNECT EXISTING LOAD	12
13	RECONNECT EXISTING LOAD		20 A	1	0 / 0			1	20 A		RECONNECT EXISTING LOAD	14
15	RECONNECT EXISTING LOAD		20 A	1		0 / 0		1	20 A		RECONNECT EXISTING LOAD	16
17	RECONNECT EXISTING LOAD		20 A	1			0 / 0	1	20 A		RECONNECT EXISTING LOAD	18
19	RECONNECT EXISTING LOAD		20 A	1	0 / 0			1	20 A		RECONNECT EXISTING LOAD	20
21	RECEPT FURNITURE STORAGE 181 NORTH		20 A	1		720 / 500		2	30 A		DRYER LAUNDRY 180B	22
23	RECEPT FURNITURE STORAGE 181 WEST		20 A	1			720 / 500					24
25	RECONNECT EXISTING LOAD		20 A	1	0 / 0			1	20 A		RECONNECT EXISTING LOAD	26
27	RECEPT FURNITURE STORAGE 181 SOUTH		20 A	1		720 / 0		1	20 A		RECONNECT EXISTING LOAD	28
29	RECEPT ENTRY 180, RR 180A, LAUNDRY 180B		20 A	1			900 / 0	1	20 A		RECONNECT EXISTING LOAD	30
31	RECEPT I.T. WORKROOM 182 EAST		20 A	1	540 / 0			1	20 A		RECONNECT EXISTING LOAD	32
33	RECEPT I.T. WORKROOM 182 SOUTH		20 A	1		540 / 0		1	20 A		RECONNECT EXISTING LOAD	34
35	RECONNECT EXISTING LOAD		20 A	1			0 / 0	1	20 A		RECONNECT EXISTING LOAD	36
37	RECEPT I.T. WORKROOM 182 WEST		20 A	1	360 / 0			1	20 A		RECONNECT EXISTING LOAD	38
39	RECONNECT EXISTING LOAD		20 A	1		0 / 0		1	20 A		RECONNECT EXISTING LOAD	40
41	RECONNECT EXISTING LOAD		20 A	1			0 / 1920	1	20 A		WASHER LAUNDRY 180B	42
				TOTALS :	4750 VA	6411 VA	5664 VA					

TOTAL CONNECTED LOAD (VA) : 16826 VA — **TOTAL CONNECTED LOAD (AMPS) :** 47 A

REMARKS: NEW OWNER-PROVIDED PANELBOARD. INSTALLED BY CONTRACTOR.

NOTES: 1. RECONNECT EXISTING BRANCH CIRCUIT WIRING FOR EXISTING LOAD TO NEW BREAKER. REWORK AS REQUIRED.

DISTRIBUTION PANEL

PANEL ID: MDP2 | **LOCATION:** ELECTRICAL 183A
CONFIGURATION: 208Y/120V 3Φ 4-Wire+Ground | **ENCLOSURE:** NEMA 1
MAIN: 1200 A MCB | **TRIM:** SURFACE
SCCR (AMPS RMS SYMM.): 65,000 | **MODIFICATIONS:**

NO.	Load Name	Rating	POLES	PHASE A	PHASE B	PHASE C
1	PANEL 'A'	200 A	3	40 A	55 A	48 A
2	PANEL 'B'	200 A	3	0 A	0 A	0 A
3	PANEL 'B1'	200 A	3	52 A	49 A	54 A
4	PANEL 'C'	200 A	3	0 A	0 A	0 A
5	PANEL 'E'	200 A	3	0 A	0 A	0 A
6	PANEL 'F'	200 A	3	0 A	0 A	0 A
7	PANGEL 'G'	400 A	3	0 A	0 A	0 A
8	PANEL 'H'	400 A	3	0 A	0 A	0 A
9	PANEL 'K' KITCHEN	400 A	3	388 A	413 A	358 A
10	PANEL 'N'	200 A	3	54 A	89 A	73 A
11	WATER HEATER WH-A 36KW	125 A	3	100 A	100 A	100 A
12	WATER HEATER WH-B 12KW	50 A	3	33 A	33 A	33 A
13	SPARE	400 A	3	--	--	--
14	SPARE	200 A	3	--	--	--
15	SPACE	--	3	--	--	--

TOTAL LOAD (VA): — **TOTAL LOAD (A):**

REMARKS:

NEW OWNER-PROVIDED PANELBOARD.

**** SEE DRAWING E411 FOR PANEL 'K' SCHEDULE ****

D — PANELBOARD SCHEDULE

LOCATION : ELECT./COM ROOM 1... | **SCCR (AMPS RMS SYMM):** | **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground | **AMP :** 125 A | **MAIN :** MLO | **NEMA:** Type 1 | **MOUNTING :** RECESSED

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	2
3	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	4
5	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	6
7	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	8
9	EXISTING LOAD		20 A	1		0 / 0		1	--	--	SPACE	10
11	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	12
13	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	14
15	EXISTING LOAD		20 A	2		0 / 0		1	20 A		EXISTING LOAD	16
17							0 / 0	1	20 A		EXISTING LOAD	18
				TOTALS :	0 VA	0 VA	0 VA					

TOTAL CONNECTED LOAD (VA) : 0 VA — **TOTAL CONNECTED LOAD (AMPS) :** 0 A

REMARKS: EXISTING PANELBOARD - SIEMENS S1

NOTES:

C — PANELBOARD SCHEDULE

LOCATION : COM ROOM 2 150 | **SCCR (AMPS RMS SYMM):** | **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground | **AMP :** 250 A | **MAIN :** MLO | **NEMA:** Type 1 | **MOUNTING :** RECESSED

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	2
3	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	4
5	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	6
7	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	8
9	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	10
11	SPARE		20 A	1			0 / 0	1	20 A		EXISTING LOAD	12
13	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	14
15	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	16
17	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	18
19	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	20
21	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	22
23	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	24
25	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	26
27	EXISTING LOAD		20 A	1		0 / 0		2	100 A		EXISTING LOAD	28
29	EXISTING LOAD		20 A	1			0 / 0					30
31	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	32
33	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	34
35	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	36
37	EXISTING LOAD		20 A	2	0 / 0			2	60 A		EXISTING LOAD	38
39						0 / 0						40
41	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	42
				TOTALS :	0 VA	0 VA	0 VA					

TOTAL CONNECTED LOAD (VA) : 0 VA — **TOTAL CONNECTED LOAD (AMPS) :** 0 A

REMARKS: EXISTING PANELBOARD - SIEMENS S1

NOTES:

B1 — PANELBOARD SCHEDULE

LOCATION : ELECTRICAL 183A | **SCCR (AMPS RMS SYMM):** 22,000 | **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground | **AMP :** 225 A | **MAIN :** MLO | **NEMA:** Type 1 | **MOUNTING :** SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	RECONNECT EXISTING LOAD		20 A	1	0 / 0			1	20 A		RECONNECT EXISTING LOAD	2
3	RECONNECT EXISTING LOAD		20 A	1		0 / 0		1	20 A		RECONNECT EXISTING LOAD	4
5	RECONNECT EXISTING LOAD		20 A	1			0 / 0	1	20 A		RECONNECT EXISTING LOAD	6
7	RECONNECT EXISTING LOAD		20 A	1	0 / 0			1	20 A		RECONNECT EXISTING LOAD	8
9	RECONNECT EXISTING LOAD		20 A	1		0 / 0		1	20 A		RECONNECT EXISTING LOAD	10
11	RECONNECT EXISTING LOAD		20 A	1			0 / 0	1	20 A		RECONNECT EXISTING LOAD	12
13	RECONNECT EXISTING LOAD		20 A	1	0 / 0			1	20 A		RECONNECT EXISTING LOAD	14
15	RECONNECT EXISTING LOAD		20 A	1		0 / 0		1	20 A		RECONNECT EXISTING LOAD	16
17	RECONNECT EXISTING LOAD		20 A	1			0 / 0	1	20 A		RECONNECT EXISTING LOAD	18
19	RECONNECT EXISTING LOAD		20 A	1	0 / 0			1	20 A		RECONNECT EXISTING LOAD	20
21	RECONNECT EXISTING LOAD		20 A	1		0 / 0		1	20 A		RECONNECT EXISTING LOAD	22
23	RECONNECT EXISTING LOAD		20 A	1			0 / 0	1	20 A		RECONNECT EXISTING LOAD	24
25	LIGHTING - CLIMATE CONT. TECH STOR		20 A	1	725 / 0			1	20 A		RECONNECT EXISTING LOAD	26
27	LIGHTING - IT STORAGE, IT REPAIR		20 A	1		874 / 0		1	20 A		RECONNECT EXISTING LOAD	28
29	RECEPT WAREHOUSE 183 NORTHWEST		20 A	1			360 / 0	1	20 A		RECONNECT EXISTING LOAD	30
31	RECEPT WAREHOUSE 183 WEST		20 A	1	360 / 0			1	20 A		RECONNECT EXISTING LOAD	32
33	RECEPT WAREHOUSE 183 SOUTHWEST		20 A	1		360 / 0		1	20 A		RECONNECT EXISTING LOAD	34
35	RECEPT WAREHOUSE 183 SOUTH		20 A	1			540 / 720	1	20 A		RECEPT TECHNOLOGY STOR. 184 NORTH	36
37	RECEPT WAREHOUSE 183 SOUTHEAST		20 A	1	540 / 720			1	20 A		RECEPT TECHNOLOGY STOR. 184 SOUTH	38
39	RECEPT WAREHOUSE 183 NORTH		20 A	1		540 / 360		1	20 A		RECEPT TECH. STOR. 184 EAST, CLOSET 184A	40
41	SOFTENER WAREHOUSE 183		20 A	1			1000 / 1656	1	20 A		FURN-1 CLOSET 184A	42
43	RECEPT IT REPAIR 186 NORTH		20 A	1	360 / 1104			3	20 A		OVERHEAD DOORS IT STORAGE 185, IT REPAIR186	44
45	RECEPT IT REPAIR 186 SOUTH		20 A	1		540 / 1104						46
47	RECEPT IT STORAGE 185 NORTH		20 A	1			540 / 1104					48
49	RECEPT IT STORAGE 185 SOUTH		20 A	1	540 / 1882			2	30 A		ACCU-1	50
51	JUNCTION BOX IT REPAIR 186		20 A	1		180 / 1882						52
53	PUH-A IT STORAGE 185		20 A	1			500 / 0	1	20 A		SPARE	54
				TOTALS :	6231 VA	5840 VA	6420 VA					

TOTAL CONNECTED LOAD (VA) : 18492 VA — **TOTAL CONNECTED LOAD (AMPS) :** 51 A

REMARKS: NEW OWNER-PROVIDED PANELBOARD. INSTALLED BY CONTRACTOR.

NOTES: 1. RECONNECT EXISTING BRANCH CIRCUIT WIRING FOR EXISTING LOAD TO NEW BREAKER. REWORK AS REQUIRED.

G — PANELBOARD SCHEDULE

LOCATION : ELECT./COM ROOM 1... | **SCCR (AMPS RMS SYMM):** | **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground | **AMP :** 400 A | **MAIN :** MLO | **NEMA:** Type 1 | **MOUNTING :** RECESSED

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	2
3	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	4
5	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	6
7	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	8
9	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	10
11	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	12
13	EXISTING LOAD		50 A	2	0 / 0			1	--	--	SPACE	14
15						0 / 0		2	15 A		EXISTING LOAD	16
17	EXISTING LOAD		50 A	2			0 / 0					18
19					0 / 0			3	100 A		PANEL 'D'	20
21	EXISTING LOAD		50 A	2		0 / 0						22
23							0 / 0					24
25	EXISTING LOAD		50 A	2	0 / 0			2	60 A		EXISTING LOAD	26
27						0 / 0						28
29	EXISTING LOAD		60 A	2			0 / 0	2	60 A		EXISTING LOAD	30
31					0 / 0							32
33	EXISTING LOAD		60 A	2		0 / 0		2	60 A		EXISTING LOAD	34
35							0 / 0					36
37	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	38
39	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	40
41	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	42
				TOTALS :	0 VA	0 VA	0 VA					

TOTAL CONNECTED LOAD (VA) : 0 VA — **TOTAL CONNECTED LOAD (AMPS) :** 0 A

REMARKS: EXISTING PANELBOARD - SIEMENS S3

NOTES:

F — PANELBOARD SCHEDULE

LOCATION : ELECT./COM ROOM 1... | **SCCR (AMPS RMS SYMM):** | **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground | **AMP :** 250 A | **MAIN :** MLO | **NEMA:** Type 1 | **MOUNTING :** RECESSED

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	2
3	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	4
5	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	6
7	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	8
9	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	10
11	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	12
13	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	14
15	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	16
17	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	18
19	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	20
21	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	22
23	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	24
25	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	26
27	EXISTING LOAD		30 A	2		0 / 0		1	20 A		EXISTING LOAD	28
29							0 / 0	1	20 A		EXISTING LOAD	30
31	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	32
33	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	34
35	EXISTING LOAD		20 A	1			0 / 0	2	60 A		EXISTING LOAD	36
37	EXISTING LOAD		20 A	1	0 / 0							38
39	EXISTING LOAD		40 A	2		0 / 0		2	60 A		EXISTING LOAD	40
41							0 / 0					42
				TOTALS :	0 VA	0 VA	0 VA					

TOTAL CONNECTED LOAD (VA) : 0 VA — **TOTAL CONNECTED LOAD (AMPS) :** 0 A

REMARKS: EXISTING PANELBOARD - SIEMENS S1

NOTES:

E — PANELBOARD SCHEDULE

LOCATION : ELECT./COM ROOM 1... | **SCCR (AMPS RMS SYMM):** | **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground | **AMP :** 250 A | **MAIN :** MLO | **NEMA:** Type 1 | **MOUNTING :** RECESSED

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	2
3	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	4
5	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	6
7	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	8
9	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	10
11	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	12
13	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	14
15	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	16
17	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	18
19	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	20
21	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	22
23	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	24
25	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	26
27	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	28
29	EXISTING LOAD		20 A	1			0 / 0	1	20 A		EXISTING LOAD	30
31	EXISTING LOAD		20 A	1	0 / 0			1	20 A		EXISTING LOAD	32
33	EXISTING LOAD		20 A	1		0 / 0		1	20 A		EXISTING LOAD	34
35	EXISTING LOAD		20 A	1			0 / 0	2	40 A		EXISTING LOAD	36
37	EXISTING LOAD		20 A	1	0 / 0							38
39	EXISTING LOAD		20 A	1		0 / 0		2	60 A		EXISTING LOAD	40
41	EXISTING LOAD		20 A	1			0 / 0					42
				TOTALS :	0 VA	0 VA	0 VA					

TOTAL CONNECTED LOAD (VA) : 0 VA — **TOTAL CONNECTED LOAD (AMPS) :** 0 A

REMARKS: EXISTING PANELBOARD - SIEMENS S1

NOTES:

PANEL SCHEDULE

PANEL # : RM172 | **TYPE :** | **SERVICE :** 120/208V 1Φ 3-Wire+Ground | **AMP :** 125 A | **MAIN :** 100A MCB | **MOUNTING :** SURFACE

CKT	DESCRIPTION	AMP	POLE	A	B	POLE	AMP	DESCRIPTION	CKT
1	EXISTING LOAD	15 A	2	0 / 0		2	100 A	MAIN	2
3					0 / 0				4
5	EXISTING LOAD	30 A	2	0 / 0		1	15 A	EXISTING LOAD	6
7					0 / 0	1	20 A	EXISTING LOAD	8
9	EXISTING LOAD	60 A	2	0 / 0		1	20 A	EXISTING LOAD	10
11					0 / 0	1	20 A	EXISTING LOAD	12
13	EXISTING LOAD	60 A	2	0 / 0		2	60 A	EXISTING LOAD	14
15					0 / 0				16
			TOTALS :	0 VA	0 VA				

TOTAL CONNECTED LOAD (VA) : 0 VA — **TOTAL CONNECTED LOAD (AMPS) :** 0 A

REMARKS:
EXISTING PANELBOARD - SIEMENS G1624ML1125 SERIES .E

N — PANELBOARD SCHEDULE

LOCATION : ELECTRICAL 183A | **SCCR (AMPS RMS SYMM):** 22,000 | **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground | **AMP :** 225 A | **MAIN :** MLO | **NEMA:** Type 1 | **MOUNTING :** SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	RECONNECT EXISTING LOAD		20 A	1	0 / 0			1	20 A		RECONNECT EXISTING LOAD	2
3	RECEPT JWR SHOP 190		20 A	1		1080 / 1250		2	20 A		WH-C - 2.5KW JANITOR'S CLOSET 191A	4
5	RECONNECT EXISTING LOAD		20 A	2			0 / 1250					6
7					0 / 0			1	20 A		RECONNECT EXISTING LOAD	8
9	RECONNECT EXISTING LOAD		20 A	2		0 / 0		1	20 A		RECONNECT EXISTING LOAD	10
11							0 / 0	1	20 A		RECONNECT EXISTING LOAD	12
13	LIGHTING - JWR SHOP, WORKRM, JANITOR		20 A	1	657 / 900			1	20 A		RECEPT STORAGE 187 NORTH	14
15	LIGHTING - JWR SHOP (SOUTH)		20 A	1		991 / 900		1	20 A		RECEPT STORAGE 187 SOUTH	16
17	LIGHTING - KIRBY WAREHOUSE		20 A	1			890 / 180	1	20 A		JUNCTION BOX JWR SHOP 193	18
19	RECEPT JWR SHOP 192		20 A	1	540 / 720			1	20 A		JWR SHOP 193 NORTH CORD REELS	20
21	RECEPT JWR SHOP 192		20 A	1		540 / 720		1	20 A		JWR SHOP 193 SOUTH CORD REELS	22
23	RECEPT JWR SHOP 193 NORTHWEST		20 A	1			540 / 180	1	20 A		JUNCTION BOX STORAGE 187	24
25	RECEPT JWR SHOP 193 SOUTHWEST		20 A	1	540 / 0			1	20 A		RECONNECT EXISTING LOAD	26
27	RECEPT JWR SHOP 193 SOUTH		20 A	1		720 / 0		1	20 A		RECONNECT EXISTING LOAD	28
29	RECEPT JWR SOP 193 EAST, CLOSET 193A		20 A	1			900 / 0	1	20 A		RECONNECT EXISTING LOAD	30
31	RECONNECT EXISTING LOAD		20 A	1	0 / 0			1	20 A		RECONNECT EXISTING LOAD	32
33	RECONNECT EXISTING LOAD		20 A	1		0 / 0		1	20 A		RECONNECT EXISTING LOAD	34
35	RECONNECT EXISTING LOAD		20 A	1			0 / 0	1	20 A		RECONNECT EXISTING LOAD	36
37	RECONNECT EXISTING LOAD		20 A	1	0 / 0			1	20 A		RECONNECT EXISTING LOAD	38
39	RECEPT WORK ROOM 191, JANITOR 191A		20 A	1		720 / 500		1	20 A		PUH STORAGE 187	40
41	EUH-B JANITOR 191A		20 A	1			750 / 1656	1	20 A		FURN-4 CLOSET 193A	42
43	AIR COMPRESSOR STORAGE 187		20 A	1	180 / 1104			3	20 A		OVERHEAD DOORS JWR SHOP 193, STORAGE 187	44
45	SPARE		20 A	1		0 / 1104						46
47	SPARE		20 A	1			0 / 1104					48
49	SPARE		20 A	1	0 / 1882			2	35 A	2	ACCU-4	50
51	SPARE		20 A	1		0 / 1882						52
53	SPARE		20 A	1			0 / 1000	1	20 A		DOOR ACCESS JWR SHOP 193 & ENTRY 180	54
				TOTALS :	6523 VA	10407 VA	8450 VA					

2

TOTAL CONNECTED LOAD (VA) : 25381 VA — **TOTAL CONNECTED LOAD (AMPS) :** 70 A

REMARKS: NEW OWNER-PROVIDED PANELBOARD. INSTALLED BY CONTRACTOR.

NOTES:
1. RECONNECT EXISTING BRANCH CIRCUIT WIRING FOR EXISTING LOAD TO NEW BREAKER. REWORK AS REQUIRED.
2. REPLACE 30A-2P BREAKER WITH 35A-2P. 2

H — PANELBOARD SCHEDULE

LOCATION : ELECT. 138 | **SCCR (AMPS RMS SYMM):** | **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground | **AMP :** 400 A | **MAIN :** MLO | **NEMA:** Type 1 | **MOUNTING :** RECESSED

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	EXISTING LOAD		20 A	3	0 / 0			3	20 A		EXISTING LOAD	2
3						0 / 0						4
5							0 / 0					6
7	EXISTING LOAD		20 A	3	0 / 0			3	20 A		EXISTING LOAD	8
9						0 / 0						10
11							0 / 0					12
13	EXISTING LOAD		20 A	1	0 / 0			3	40 A		SPARE	14
15	SPARE		20 A	1		0 / 0						16
17	SPARE		20 A	1			0 / 0					18
19	EXISTING LOAD		60 A	2	0 / 0			3	40 A		SPARE	20
21						0 / 0						22
23	EXISTING LOAD		60 A	2			0 / 0					24
25					0 / 0			1	20 A		SPARE	26
27	EXISTING LOAD		60 A	2		0 / 0		1	20 A		SPARE	28
29							0 / 0	1	20 A		SPARE	30
31	EXISTING LOAD		60 A	2	0 / 0			2	30 A		EXISTING LOAD	32
33						0 / 0						34
35	EXISTING LOAD		60 A	2			0 / 0	2	60 A		EXISTING LOAD	36
37					0 / 0							38
39	EXISTING LOAD		60 A	2		0 / 0		2	60 A		EXISTING LOAD	40
41							0 / 0					42
				TOTALS :	0 VA	0 VA	0 VA					

TOTAL CONNECTED LOAD (VA) : 0 VA — **TOTAL CONNECTED LOAD (AMPS) :** 0 A

REMARKS: EXISTING PANELBOARD - SIEMENS TYPE S3

NOTES:

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Project No. 2021-064.PAC
Project Date 01.05.2022
Produced TEH DK

TIMOTHY E. HILL REGISTERED No. PE19800083 STATE OF INDIANA PROFESSIONAL ENGINEER
01/05/2022

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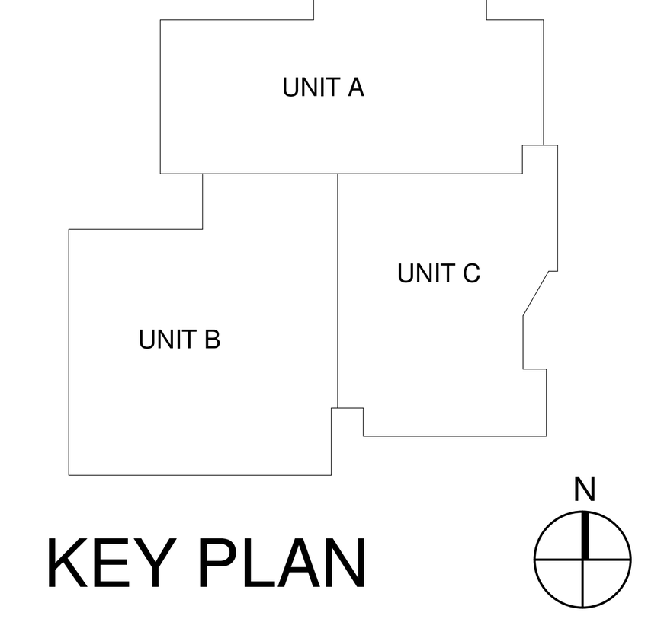
#	Revision	Date
2	ADDENDUM 2	01/31/2022

2115 E Southport Road
Indianapolis IN 46227



KEY PLAN

Perry Township Schools

Perry Township Schools

Perry Academic Center JWR Renovation and Improvements

SCHEDULES - PANELBOARDS - EAST SERVICE

E613

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