
**PHASE 1 HVAC IMPROVEMENTS AT THE
LP WILSON COMMUNITY CENTER
601 MATIANUK AVENUE
WINDSOR, CT 06095**

S/P+A PROJECT NO. 21.288

DATE: December 22, 2022

The following changes to the Drawings and Project Specifications shall become a part of the Drawings and Project Specifications; superseding previously issued Drawings and Project Specifications to the extent modified by Addendum No. 1.

General Information/Clarifications:

- Pre-Bid sign-in sheet, attached as part of this Addendum. (2 pages)
- RFI's: As indicated in the Bid RFI Log, attached as part of this Addendum. (1 page)
- The Bid Due Date has been changed to January 5, 2023, 11:00 A.M.
- Existing Roof Information: South roof is an SR Products modified built-up roof including flood coat with stones, installed in 2013, with 16 years left on warranty. North roof is Siplast modified built-up roof installed in 2004 with Two (2) years left on this warranty. Contact is Greg Rose of Simon Roofing – 860-559-5175.

Changes to the Specifications:

- Delete: Bid Form in its entirety.
- Add: Revised Bid Form, attached as part of this Addendum. (3 pages)
- Delete: Specification Section 012300 “Alternates” in its entirety.
- Add: Revised Specification Section 012300 “Alternates”, attached as part of this Addendum. (2 pages)

New Drawings:

Add: Drawing M104 “Mechanical Ceiling Work Plan”, attached as part of this Addendum.

Changes to the Drawings:

- Delete: Drawing M001, dated November 18, 2022, in its entirety.
- Add: Revised Drawing M001, dated December 21, 2022, attached as part of this Addendum.
- Delete: Drawing M102, dated November 18, 2022, in its entirety.
- Add: Revised Drawing M102, dated December 21, 2022, attached as part of this Addendum.
- Delete: Drawing M103, dated November 18, 2022, in its entirety.
- Add: Revised Drawing M103, dated December 21, 2022, attached as part of this Addendum.
- Delete: Drawing M202, dated November 18, 2022, in its entirety.

- Add: Revised Drawing M202, dated December 21, 2022, attached as part of this Addendum.
- Delete: Drawing M401, dated November 18, 2022, in its entirety.
- Add: Revised Drawing M401, dated December 21, 2022, attached as part of this Addendum.
- Delete: Drawing MD101, dated November 18, 2022, in its entirety.
- Add: Revised Drawing MD101, dated December 21, 2022, attached as part of this Addendum.
- Delete: Drawing MD102, dated November 18, 2022, in its entirety.
- Add: Revised Drawing MD102, dated December 21, 2022, attached as part of this Addendum.
- Delete: Drawing E003, dated November 18, 2022, in its entirety.
- Add: Revised Drawing E003, dated December 21, 2022, attached as part of this Addendum.
- Delete: Drawing E104, dated November 18, 2022, in its entirety.
- Add: Revised Drawing E104, dated December 21, 2022, attached as part of this Addendum.

The bid due dates are Changed by this Addendum.

The Addendum consists of ten (10) pages of 8½” x 11” text, and ten (10) pages of 30” x 42” drawings.

End of Addendum #1

**LP WILSON COMMUNITY CENTER
HVAC RENOVATION PROJECT
Walkthrough Sign-in Sheet
December 8, 2022 - 10:00 AM**

Name	Company Name & Address	Phone/Email
Lon Isaacson	Air Temp Mechanical 63 Fuller Way Berlin, CT 06037	Phone: 860-734-3062
		e-mail: lon@ctairtemp.com
Chuck Waterfield	Windsor Board of Ed 601 Matianuck Ave Windsor, CT 06095	Phone: 860-687-2000 ext. 1223
		e-mail: cwaterfield@windsorct.org
Whit Przech Buildings and Facilities Manager	Town of Windsor 275 Broad Street Windsor, CT 06095	Phone: 860-285-1870
		e-mail: przech@townofwindsorct.com
Gary Dowgewicz Town Building Management	Windsor Town Hall 275 Broad Street Windsor CT 06095	Phone: 860.285.1872
		e-mail: dowgewicz@townofwindsorct.com
		Phone:
		e-mail:
		Phone:
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		Phone:
		e-mail:

**LP WILSON COMMUNITY CENTER
HVAC RENOVATION PROJECT
Walkthrough Sign-in Sheet
December 8, 2022 - 10:00 AM**

Name	Company Name & Address	Phone/Email
Jim Peckingham	Silver/Petrucelli & Associates 3190 Whitney Ave. Hamden, CT	Phone: 203-230-9007
		e-mail: jpeckingham@silverpetrucelli.com
David St.Onge	SK Mechanical 266 Center St. Manchester, CT 06040	Phone: 860-533-2320
		e-mail: kbayha@skmechanical-llc.com
Brian Karwowski	Sav-Mor Cooling & Heating 231 Captain Lewis Dr. Southington, CT 06489	Phone: 860-621-9959
		e-mail: brian@savmorct.com
Marco Aglieco	Automated Logic 23 Village Lane Weythersfield, CT 06492	Phone: 860-488-2703
		e-mail: marco.aglieco@carrier.com
Steven Grening	West State Mechanical P. O. Box 1045 Torrington, CT 06790	Phone: 860-601-1691
		e-mail: wsm_steve@yahoo.com
Lee Scheinfeld	Action Air Systems, Inc. 131 Adams St. Manchester, CT 06042	Phone: 860-645-8838
		e-mail: lee@actionairsystems.com
Dan Gates	All State Construction 449 Cooke St. Farmington, CT 06032	Phone: 860-678-0678
		e-mail: dgates@allstateconstructioninc.com
Jason Harvey	Sav-Mor Cooling & Heating 231 Captain Lewis Dr. Southington, CT 06489	Phone: 860-621-9959
		e-mail: jay@savmorct.com



Project: **Windsor - Phase 1 HVAC Improvements at LP Wilson Community Center**

S/P+A Project #: **21.288**

RFI Deadline: **12/27/22**
Bids Due: **01/03/23**

RFI #	QUESTION	DATE RECEIVED	RESPONSE	ADDENDUM # ISSUED
001	In reviewing the bid documents, it appears that we need to complete an AIA A305-2020. Is this correct? I only see page one, not the rest of the document. Do we need to obtain the form from AIA itself to complete?	12/01/22	Page numbers on TOC for AIA A305-2020 is incorrect. Document AIA A305-2020 is now a 1-page document. Complete the document and submit Exhibits A through E along with the Bid Form.	1
002	Re: Ceiling Replacement Notes - it would help a great deal if a Reflected Ceiling Plan (RCP) could be issued to help verify the overall scope of work. Some rooms are fitted with suspended ceilings, some rooms are without these ceilings. Other notes call for painting of ceiling cassette units that are exposed in rooms without ceilings, thus the need for the RCP.	12/09/22	Refer to Drawing M104, attached as part of this Addendum.	1
003	Drawing M102 - Note #7: Bid Alternate for running DOAS-2 & DOAS-3 ductwork on roof in lieu of above existing ceilings. Bid Form only lists an Add Alternate Bid for replacement of finned tube radiation. Please clarify.	12/09/22	Refer to Revised Bid Form, and Revised Specifications Section 0123000 "Alternates", attached as part of this Addendum.	1
004	There are (2) types of roofing systems in place, one with loose stone on top, and one without. Please provide any info. on existing manufacturer's roofing warranty for both types of roofing, and contact info. for the approved roofing contractor who is authorized by the given roofing manufacturer to maintain any existing warranty.	12/09/22	South roof not a part of phase one is by SR Products modified built-up flood coat with stones installed in 2013, 16 years left on warranty. North side is Siplast modified built-up roof installed in 2004. Two years left on this warranty. Contact is Greg Rose Simon Roofing.	1
005	Please provide contact info. for local representative of Siemens Industry, for Fire Alarm System interface.	12/09/22	Jennifer Rossi SIEMENS Smart Infrastructure Siemens Industry, Inc. 104 Sebethe Drive, Cromwell, CT 06416 Main: 860-635-4113 Mobile: 860-262-4834 jennifer.rossi@siemens.com	1
006	Note (1) on drawing E102 says that there are (45) 120V circuits between the 1" & 1 1/4" conduit we need to remove/relocate. By code, we cannot accomplish that without more conduits. We are only allowed to run (3) circuits per conduit without having to upsize the wire/and or conduit. I can do what the drawing says, but there will most certainly be a change order right off the bat in this case.	12/19/22	Use of #10 AWG conductors for the 120V circuits would address any conductor derating required. Base the bids on the assumption that all 120V circuits are run with #10 AWG.	1
007	Is there a wire/conduit requirement for sizing of feeders for panels MDP-2, H-1 & H-2? Thanks.	12/12/22	See Rev-1 of Drawing E003 issued with Addendum 1.	1
008	Please provide a detail showing the area of the building that would require the existing drop ceiling to be removed and a new ceiling to be installed	12/15/22	Refer to Drawing M104, attached as part of this Addendum.	1
009	What is the distance from MDP-2 to H-1 and H-2?	2022-12-21	Approximately 235-feet to H-1. Approximately 330-feet to H-2. Measured on the shortest route parallel to building lines.	1
010	Can the bid due date be extended? Because of Christmas the previous week and New Years being observed on Monday Jan 2 nd , it will be extremely difficult to receive quotes from our vendors and have enough time to put the bid together by 11am coming off of a holiday weekend.	2022-12-21	The Bid Due Date has been extended to 11:00 AM, January 5, 2023.	1

(To be submitted in duplicate)

BIDDER: _____
Name

Address

TO: **Mr. Whit Przech**
Building & Facilities Manager
275 Broad Street, Top Floor
Windsor, CT 06095

Project: **Phase 1 HVAC Improvements at**
LP Wilson Community Center-Town of Windsor
601 Matianuk Avenue
Windsor, CT 06095

In preparing this bid, we have carefully examined the Bidding Documents for this Project. We have visited the site and noted the conditions affecting the Work.

We hereby submit our bid on the above referenced project. We are enclosing our bid surety in the amount of 10% of our base bid which will be returned to us after the award is made. Following award, we will be able to provide the required 100% Performance Bond and 100% Labor and Materials Bond from the following insurance company: _____.

We will provide the requested Certificate of Insurance from the following insurance Company:
_____.

The Bidding Documents referred to include Drawings and Project Manual dated November 18, 2022 for the above referenced project, prepared by Silver/Petrucci + Associates, Inc., Hamden, Connecticut.

We propose to perform the work described in the Bidding Documents, in keeping with definitions of Article 1 of the Instructions to Bidders, for the Base Bid Sum as follows:

Base Bid (Total Cost for Roof Replacement):

Phase 1 HVAC Improvements at LP Wilson Community Center - Windsor for a Total Cost of:

\$ _____ Dollars (\$) _____ .00).
written figure

We will commence work _____ calendar days after receipt of "Notice to Proceed" or signing of Contract. We will be able to substantially complete the project within _____ calendar days thereafter, but no later than _____, 2023.

Alternates

ADD ALTERNATE NO. 1: Replacement of all Finned Tube Radiation: For the work, methods, procedures and materials (See Section 012300 and the Construction Documents), we propose to Add to the Base Bid a total of

_____ Dollars (\$) .00)

Written figure

The project schedule will be increased by _____ calendar days to complete the work indicated under Alternate 1.

ADD ALTERNATE NO. 2: Provision of DOAS-2 Ductwork Installed on Roof: For the work, methods, procedures and materials (See Section 012300 and the Construction Documents), we propose to Add to the Base Bid a total of

_____ Dollars (\$) .00)

Written figure

The project schedule will be increased/decreased by _____ calendar days to complete the work indicated under Alternate 2.

ADD ALTERNATE NO. 3: Provision of DOAS-3 Ductwork Installed on Roof: For the work, methods, procedures and materials (See Section 012300 and the Construction Documents), we propose to Add to the Base Bid a total of

_____ Dollars (\$) .00)

Written figure

The project schedule will be increased/decreased by _____ calendar days to complete the work indicated under Alternate 3.

Exceptions: _____

If written notice of the acceptance of this Bid is mailed, telegraphed or delivered to the undersigned at the Address designated below, within ninety (90) days after the date of Bid Opening, or any time thereafter before this Bid is withdrawn, the undersigned will, within ten (10) days after the date of mailing, telegraphing or delivering of the notice, execute and deliver a contract in the Standard Form of Agreement Between the Owner and Contractor, AIA Document A101, or similar contract modified as may be mutually agreed upon.

The undersigned acknowledges that he has examined the documents, visited and examined the site as required under "Instructions to Bidders", examined the availability of labor and materials and further agrees to comply with all the requirements as to the conditions of employment and wage rates set forth by the Department of Labor.

Addenda:

The undersigned acknowledges receipt of the following addenda to the Contract Documents, listed by number and date:

Number _____, Dated: _____

Number _____, Dated: _____

Number _____, Dated: _____

Number _____, Dated: _____

Exceptions: _____

ATTACHMENTS – Attached hereto (by Contractor) is:

- 1. Bid Bond**
- 2. 100% Performance Bond**
- 3. 100% Labor and Materials Bond**

NON-COLLUSIVE BID STATEMENT

The undersigned bidder certifies that his bid is made independently and without collusion, agreement, understanding or planned course of action with any other bidder and that the contents of his bid shall not be disclosed to anyone other than his employees, agents or sureties prior to the official bid opening.

Date: _____

Signature: _____

Printed Name and Title
of Agent submitting bid: _____

Name of Company: _____

Address: _____

Telephone Number: _____ Fax Number: _____

E-mail: _____

This Bid may be withdrawn prior to the scheduled Bid Opening or any postponement thereof.

SECTION 012300 - ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
 - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

- A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated revisions to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.

- D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

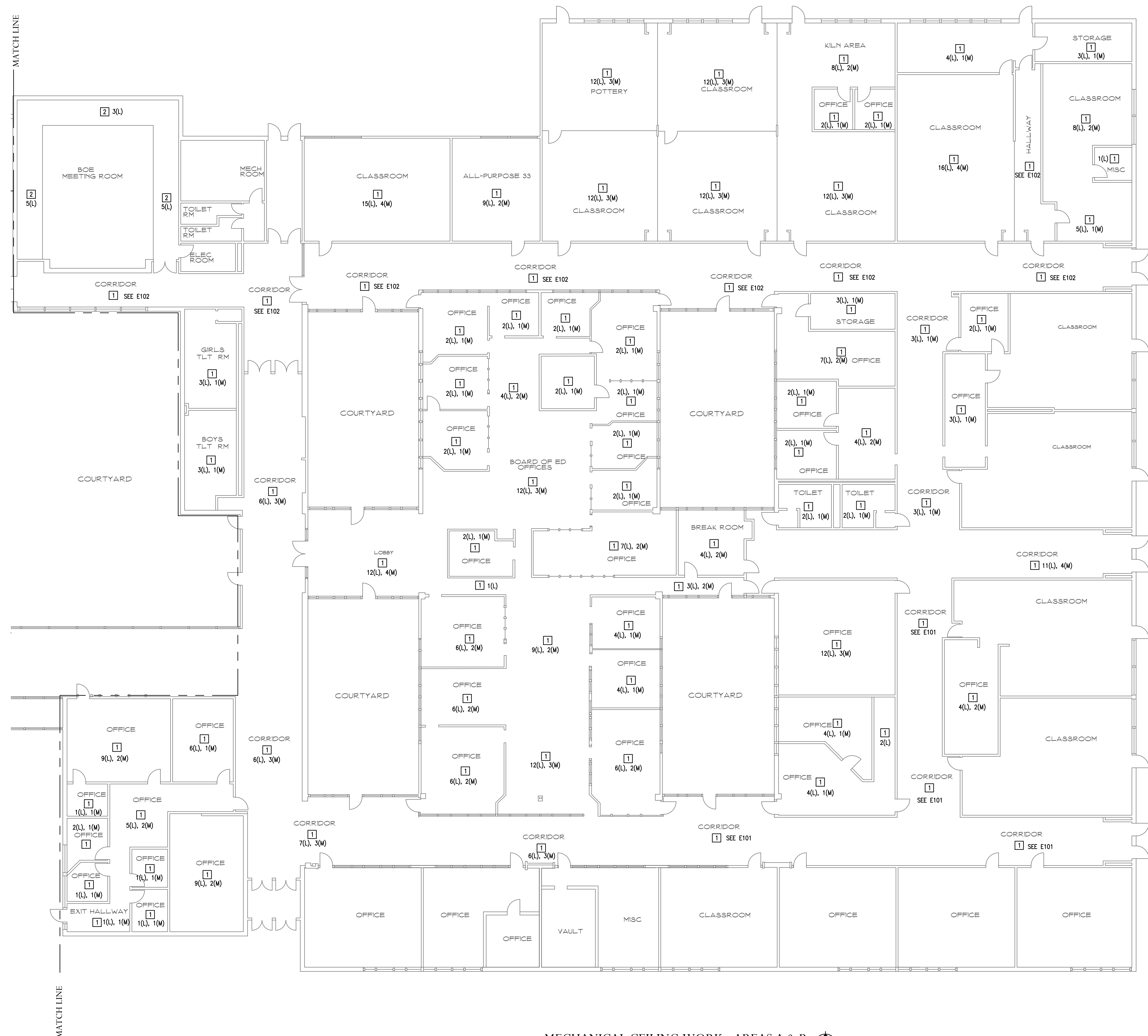
PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

- A. **ADD ALTERNATE NO. 1: Replacement of all Finned Tube Radiation:** Add to the Base Bid the labor, materials and equipment to incorporate into the scope of work replacement of all finned tube radiation, as indicated in the Specifications and the Drawings. The Work includes the provision of all related components and conditions of the finned tube radiation system, including warranty.
- B. **ADD ALTERNATE NO. 2: Provision of DOAS-2 Ductwork Installed on Roof:** Add to the Base Bid the labor, materials and equipment to incorporate into the scope of work **Provision of DOAS-2 Ductwork Installed on Roof**, as indicated in the Specifications and the Drawings. The Work includes the provision of all related components and conditions of the **DOAS-2 Ductwork Installed on Roof**, including warranty.
- C. **ADD ALTERNATE NO. 3: Provision of DOAS-3 Ductwork Installed on Roof:** Add to the Base Bid the labor, materials and equipment to incorporate into the scope of work **Provision of DOAS-3 Ductwork Installed on Roof**, as indicated in the Specifications and the Drawings. The Work includes the provision of all related components and conditions of the **DOAS-3 Ductwork Installed on Roof**, including warranty.

END OF SECTION 012300



CEILING PLAN NOTES

- 1 CEILING IN THIS ROOM/AREA IS TO BE REMOVED AND REPLACED WITH NEW GRID AND TILES UPON COMPLETION OF NEW MECHANICAL WORK. REFER TO CEILING REPLACEMENT NOTES, THIS DRAWING.
- 2 SOFFIT IN THIS ROOM IS TO BE REMOVED AND REPLACED AS REQUIRED TO REMOVE EXISTING AIR HANDLING UNIT AND DUCTWORK. REPLACE SOFFIT WITH NEW GRID AND TILES UPON COMPLETION OF NEW MECHANICAL WORK. REFER TO CEILING REPLACEMENT NOTES, THIS DRAWING.

CEILING REPLACEMENT NOTES

- 1. CONTRACTOR SHALL REMOVE CEILING TILES AND GRIDS AS REQUIRED TO PERFORM INSTALLATION OF NEW MECHANICAL SYSTEMS. REPLACE ALL CEILING TILES AND GRIDS WITH NEW MATERIALS UPON COMPLETION OF INSTALLATION.
- 2. REMOVE AND STORE ALL CEILING DEVICES IN CEILINGS BEING REMOVED. REINSTALL ALL EXISTING CEILING DEVICES IN NEW CEILINGS. DEVICES TO BE REINSTALLED INCLUDE, BUT ARE NOT LIMITED TO LIGHT FIXTURES, EXIT SIGNS, HEAT/SMOKE DETECTORS, SPEAKERS, ALARM DEVICES, REMOTE TEST SWITCHES, MOTION SENSORS, PROJECTORS, ETC. NUMBERS SHOWN IN EACH SPACE ARE FOR (L) LIGHTS AND (M) MISC MOTION SENSORS, DETECTORS, ETC.
- 3. ERECT TEMPORARY SMOKE BARRIERS WHERE REMOVAL OF CEILINGS WILL ALLOW SMOKE TO MIGRATE TO ADJACENT CORRIDORS OR EXIT ACCESS WHEN PORTIONS OF BUILDING WILL BE OCCUPIED DURING CONSTRUCTION. COORDINATE WITH FIRE DEPARTMENT.
- 4. TEMPORARILY RELOCATE SPRINKLER HEADS IN AREAS WHERE CEILINGS ARE REMOVED TO WITHIN 12" OF ROOF DECK. REINSTALL SPRINKLER HEADS IN NEW CEILING TILES.
- 5. ELECTRICAL DEVICE QUANTITIES LISTED ON THIS DRAWING ARE INTENDED TO BE IN ADDITION TO THOSE NOTED ON DRAWINGS E101 & E102, NOTE #1.

MECHANICAL CEILING WORK - AREAS A & B NORTH
SCALE: 3/32" = 1' - 0"

Project Title:
Phase 1 HVAC Improvements at the
LP Wilson Community Center - Town of Windsor
601 Matianuk Avenue
Windsor, Connecticut 06095

SILVER / PETRUCCELLI + ASSOCIATES
Architects / Engineers / Interior Designers
3190 Whitney Avenue, Hamden, CT 06518-2340
Tel. 203 230 9007 Fax. 203 230 8247
silverpetruccielli.com

Revision	Description	Date	Revised By
ISSUED FOR BIDS		11/18/2022	JP
ADDENDUM NO.1		12/21/2022	JP

Drawing Title:
**MECHANICAL
CEILING WORK PLAN
AREAS A & B**

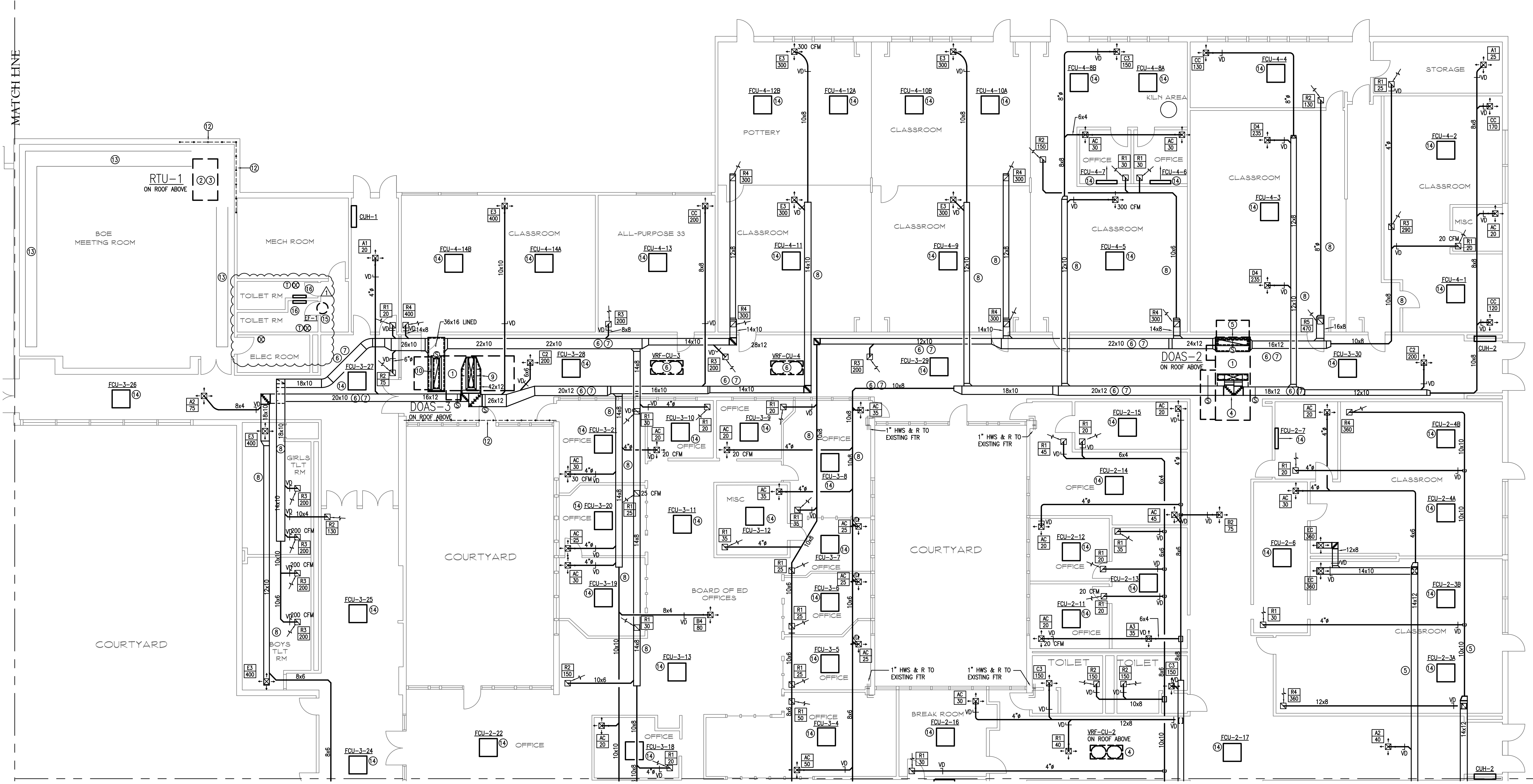
Date:
NOVEMBER 18, 2022

Scale:
AS NOTED

Drawn By:
JP

Project Number:
M104

21-288



MECHANICAL PLAN NOTES

1. INSTALL DOAS UNIT CURB MOUNTED ON ROOF ABOVE. PROVIDE FRAMED ROOF OPENINGS FOR SUPPLY AND RETURN DUCTS AND PROVIDE STRUCTURAL SUPPORT FOR ROOF CURBS. REFER TO CURB SUPPORT DETAIL, DRAWING M302. PROVIDE DUCT TRANSITIONS AND FLEXIBLE CONNECTIONS AT INLET AND DISCHARGE. PROVIDE HOT WATER SUPPLY AND RETURN PIPING UP THROUGH CURB TO HEATING COIL. REFER TO HVAC PIPING PLAN. COORDINATE EXACT LOCATION WITH EXISTING ROOF FRAMING.
2. INSTALL ROOFTOP HVAC UNIT CURB MOUNTED ON ROOF ABOVE. REFER TO CURB SUPPORT DETAIL, DRAWING M302. PROVIDE FRAMED ROOF OPENINGS FOR SUPPLY AND RETURN DUCTS. PROVIDE DUCT TRANSITIONS AND FLEXIBLE CONNECTIONS AT INLET AND DISCHARGE. PROVIDE HOT WATER SUPPLY AND RETURN PIPING UP THROUGH CURB TO HEATING COIL. COORDINATE EXACT LOCATION WITH EXISTING ROOF FRAMING.
3. PROVIDE SUPPLY AND RETURN DUCTS DOWN THROUGH ROOF TO EXISTING DUCTWORK. PROVIDE DUCT TRANSITIONS AND OFFSETS AS REQUIRED.
4. 20x12 & 18x12 SUPPLY DUCTS, COMBINE TO LINED 38x14 ELBOW UP, AND PROVIDE LINED TRANSITION TO DOAS UNIT DISCHARGE.
5. 28x10x8 RETURN LINED PLENUM. PROVIDE LINED 54x14 RETURN DUCT UP WITH TRANSITION TO DOAS UNIT INLET.
6. BASE BID: INSTALL SUPPLY & RETURN DUCTWORK ABOVE CEILING. PROVIDE DUCT OFFSETS AS REQUIRED. RELOCATE AND RAISE EXISTING PIPING, WIRING AND CONDUIT AS REQUIRED TO INSTALL DUCTWORK. REFER TO ELECTRICAL DRAWINGS FOR DETAILS RELATED TO RELOCATION OF WIRING, CABLE AND CONDUIT.
7. BID ALTERNATE: INSTALL SUPPLY & RETURN DUCTWORK ON ROOF. PROVIDE INSULATION AND WEATHERPROOF JACKET. REFER TO DUCT INSULATION SPECIFICATIONS, AND DETAILS, DRAWING M302.
8. INSTALL DUCTWORK, INDICATED SIZE OR EQUIVALENT. RUN DUCTWORK BETWEEN BEAMS AND ABOVE GIRDERS. PROVIDE BRANCH DUCT TAPS OFF BOTTOM OF DUCT MAIN WHERE REQUIRED.
9. LINED 42x14 SUPPLY DUCT, ELBOW UP AND PROVIDE LINED TRANSITION TO UNIT DISCHARGE.
10. LINED 66x14 RETURN DUCT UP FROM 56x16 PLENUM, TRANSITION UP TO UNIT INLET.
11. VRF OUTDOOR UNIT MOUNTED ON STEEL SUPPORT FRAME. REFER TO HVAC PIPING PLANS.
12. INSTALL ROOF GUARD RAIL. REFER TO DETAIL DRAWING M302.
13. CLEAN INTERIOR OF EXISTING SUPPLY AND RETURN DUCTWORK SERVING RTU-1 INCLUDING REGISTERS AND GRILLES. REFER TO DUCT CLEANING NOTES, THIS DRAWING.
14. INSTALL VRF SYSTEM INDOOR UNIT. COORDINATE EXACT LOCATION IN FIELD. REFER TO HVAC PIPING PLAN.
15. REPLACE EXISTING ROOF EXHAUST FAN ON NEW ROOF CURB. CONNECT TO EXISTING DUCTWORK & POWER WIRING.
16. REPLACE EXISTING CONNECTOR IN-KIND.

MECHANICAL PLAN - AREA B
SCALE: 1/8" = 1'-0"

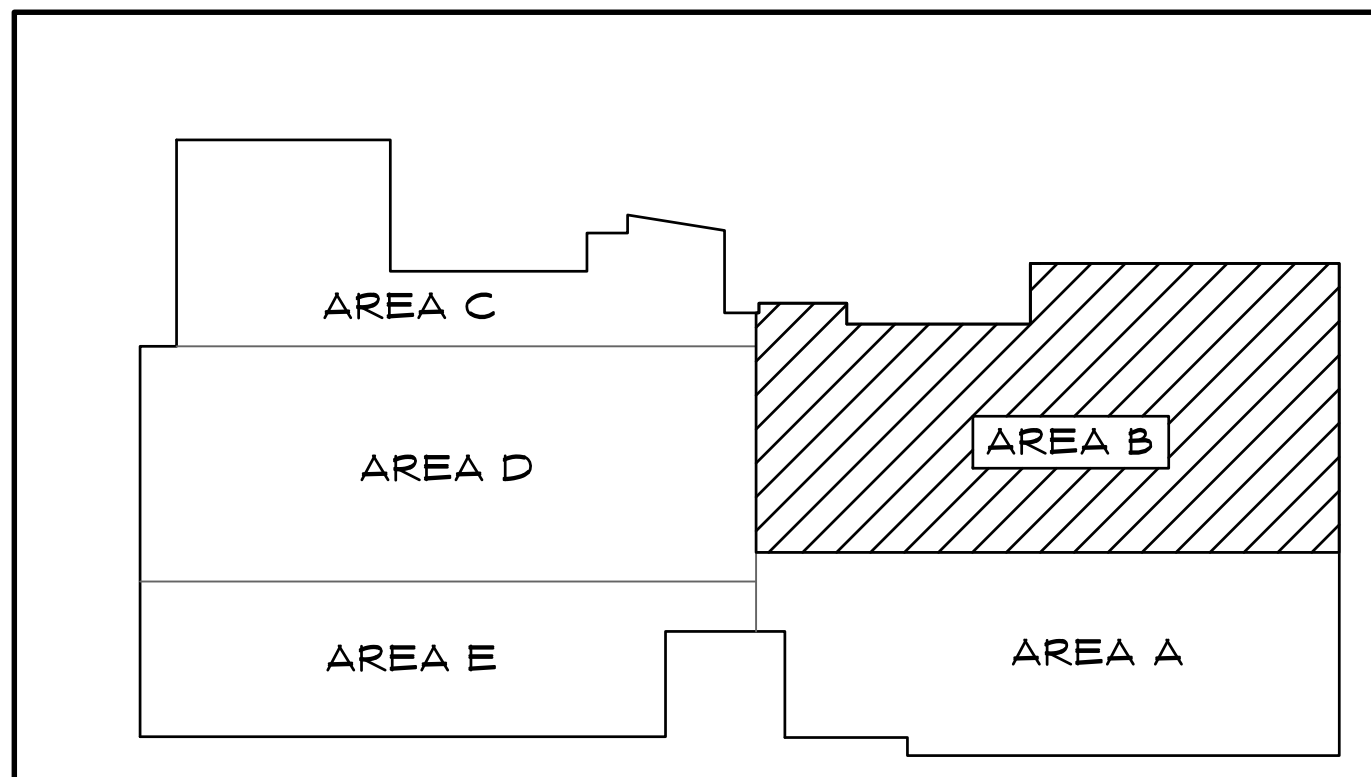


CEILING REPLACEMENT NOTES

1. CONTRACTOR SHALL REMOVE CEILING TILES AND GRIDS AS REQUIRED TO PERFORM INSTALLATION OF NEW MECHANICAL SYSTEMS. REPLACE ALL CEILING TILES AND GRIDS WITH NEW MATERIALS UPON COMPLETION OF INSTALLATION.
2. REMOVE AND STORE ALL CEILING DEVICES IN CEILINGS BEING REMOVED. REINSTALL ALL EXISTING CEILING DEVICES IN NEW CEILINGS. DEVICES TO BE REINSTALLED INCLUDE, BUT ARE NOT LIMITED TO LIGHT FIXTURES, EXIT SIGNS, HEAT/SMOKE DETECTORS, SPEAKERS, ALARM DEVICES, REMOTE TEST SWITCHES, MOTION SENSORS, PROJECTORS, ETC.
3. ERECT TEMPORARY SMOKE BARRIERS WHERE REMOVAL OF CEILINGS WILL ALLOW SMOKE TO MIGRATE TO ADJACENT CORRIDORS OR EXIT ACCESS WHEN PORTIONS OF BUILDING WILL BE OCCUPIED DURING CONSTRUCTION. COORDINATE WITH FIRE DEPARTMENT.
4. TEMPORARILY RELOCATE SPRINKLER HEADS IN AREAS WHERE CEILINGS ARE REMOVED TO WITHIN 12" OF ROOF DECK. REINSTALL SPRINKLER HEADS IN NEW CEILING TILES.

DUCT CLEANING NOTES

1. CLEAN INTERIOR OF ALL EXISTING SUPPLY AND RETURN DUCTWORK SERVING NEW EQUIPMENT INSTALLED AS WORK OF THIS PROJECT. DUCTWORK SHALL BE CLEANED IN ACCORDANCE WITH NATIONAL AIR DUCT CLEANERS ASSOCIATION (NADCA) STANDARD ACR 2013. WORK SHALL BE PERFORMED BY CONTRACTOR CERTIFIED IN DUCT CLEANING BY NADCA OR OTHER NATIONALLY RECOGNIZED INDUSTRY ORGANIZATION.
2. PROVIDE DUCT OPENINGS AS REQUIRED TO PERFORM DUCT CLEANING. CLOSE AND SEAL OPENINGS UPON COMPLETION OF WORK.



KEY PLAN
NOT TO SCALE



Phase 1 HVAC Improvements at the
LP Wilson Community Center - Town of Windsor
601 Matianuk Avenue
Windsor, Connecticut 06095



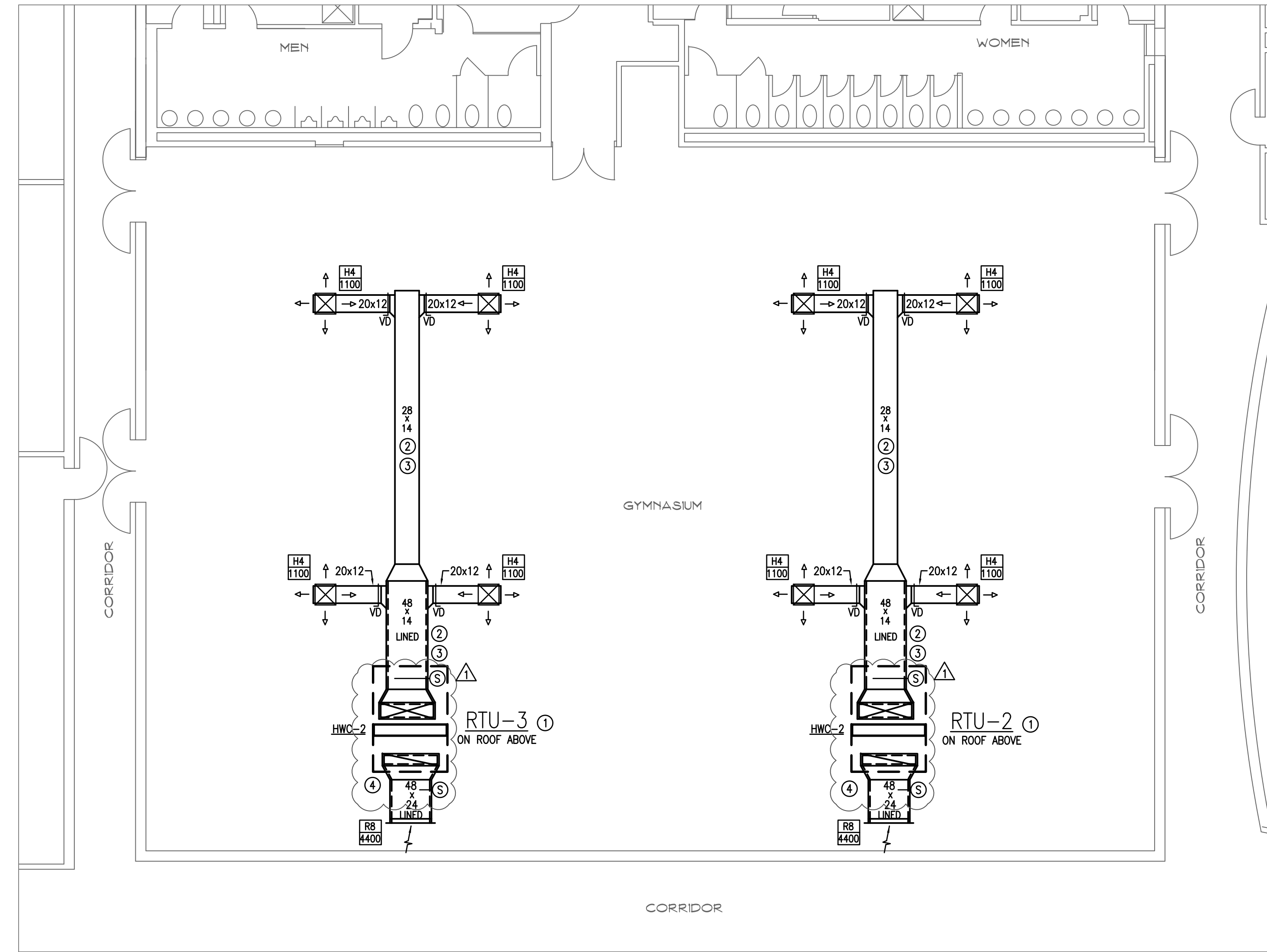
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Revision	Description	Date	Revised By
ISSUED FOR BIDS		11/18/2022	JP
ADDENDUM NO.1		12/21/2022	JP

MECHANICAL PLAN
AREA B

Date: **NOVEMBER 18, 2022**
Scale: **AS NOTED**
Drawn By: **JP**
Project Number: **21-288**

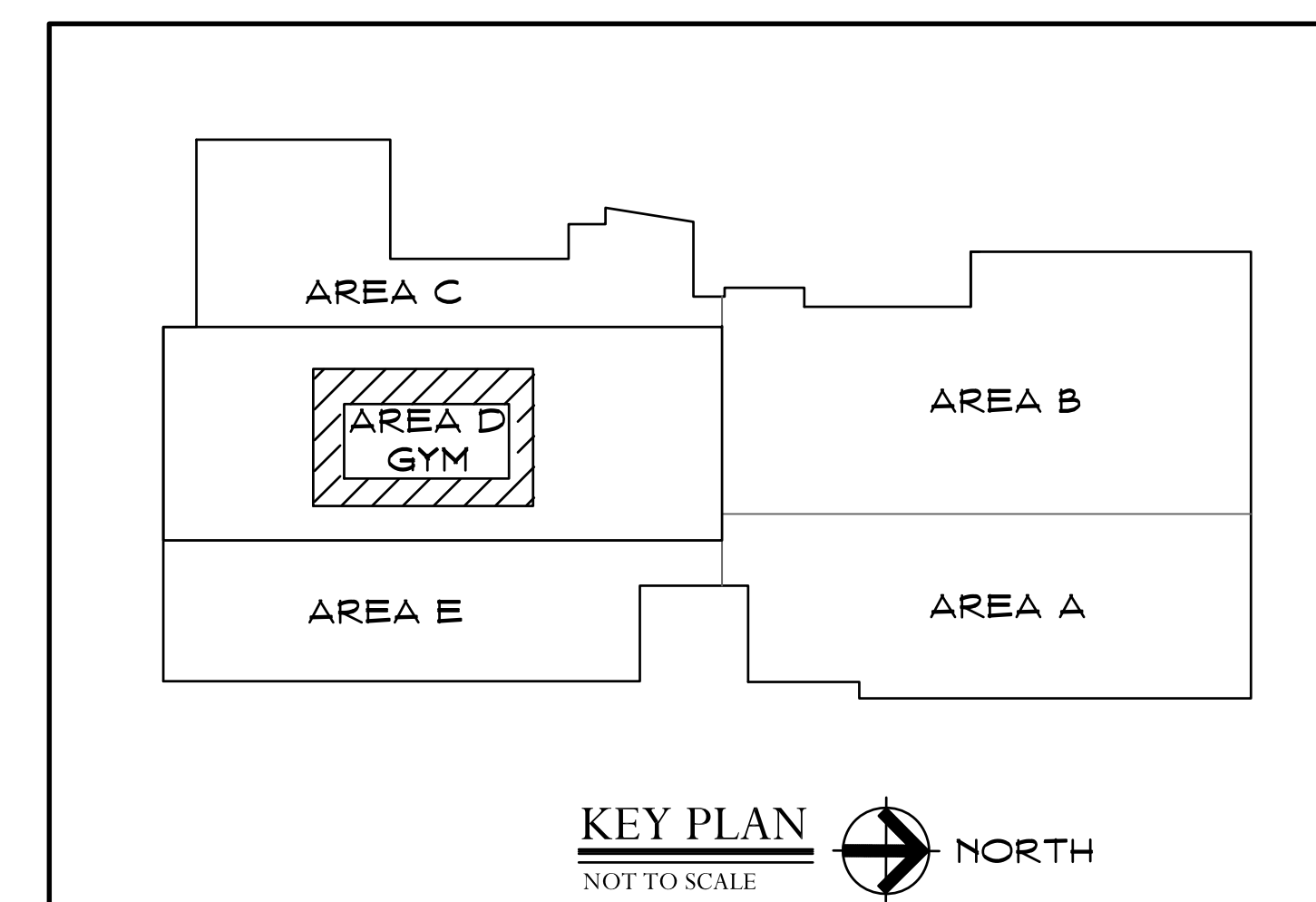
M102



MECHANICAL PLAN NOTES

- ① INSTALL RTU CURB MOUNTED ON ROOF ABOVE. REFER TO CURB SUPPORT DETAIL, DRAWING M302. PROVIDE FRAMED ROOF OPENINGS FOR SUPPLY AND RETURN DUCTS. PROVIDE LINED SUPPLY AND RETURN DUCTS WITH TRANSITIONS AND FLEXIBLE CONNECTIONS AT INLET AND DISCHARGE. PROVIDE HW PIPE VESTIBULE CURB MOUNTED AND FLASHED AND SEALED TO UNIT AND ROOF. COORDINATE EXACT LOCATION WITH EXISTING ROOF FRAMING.
- ② INSTALL DUCT MAIN BETWEEN JOISTS, INDICATED SIZE OR EQUIVALENT. RELOCATED/REWORK DIAGONAL JOIST BRACING AND TIES AS REQUIRED.
- ③ BID ALTERNATE: PROVIDE FABRIC SUPPLY DUCTS, FABRIC-AIR OR EQUAL IN LIEU OF METAL SUPPLY DUCTS.
- ④ INSTALL NEW SUPPLY AND RETURN DUCT SMOKE DETECTORS.

MECHANICAL PLAN - GYMNASIUM AREA D NORTH
SCALE: 1/8" = 1' - 0"



KEY PLAN NORTH
NOT TO SCALE

Project Title:
Phase 1 HVAC Improvements at the
LP Wilson Community Center - Town of Windsor
601 Matianuk Avenue
Windsor, Connecticut 06095



SILVER / PETRUCCI + ASSOCIATES
Architects / Engineers / Interior Designers

3190 Whitney Avenue, Hamden, CT 06518-2340
Tel. 203 230 9007 Fax. 203 230 8247
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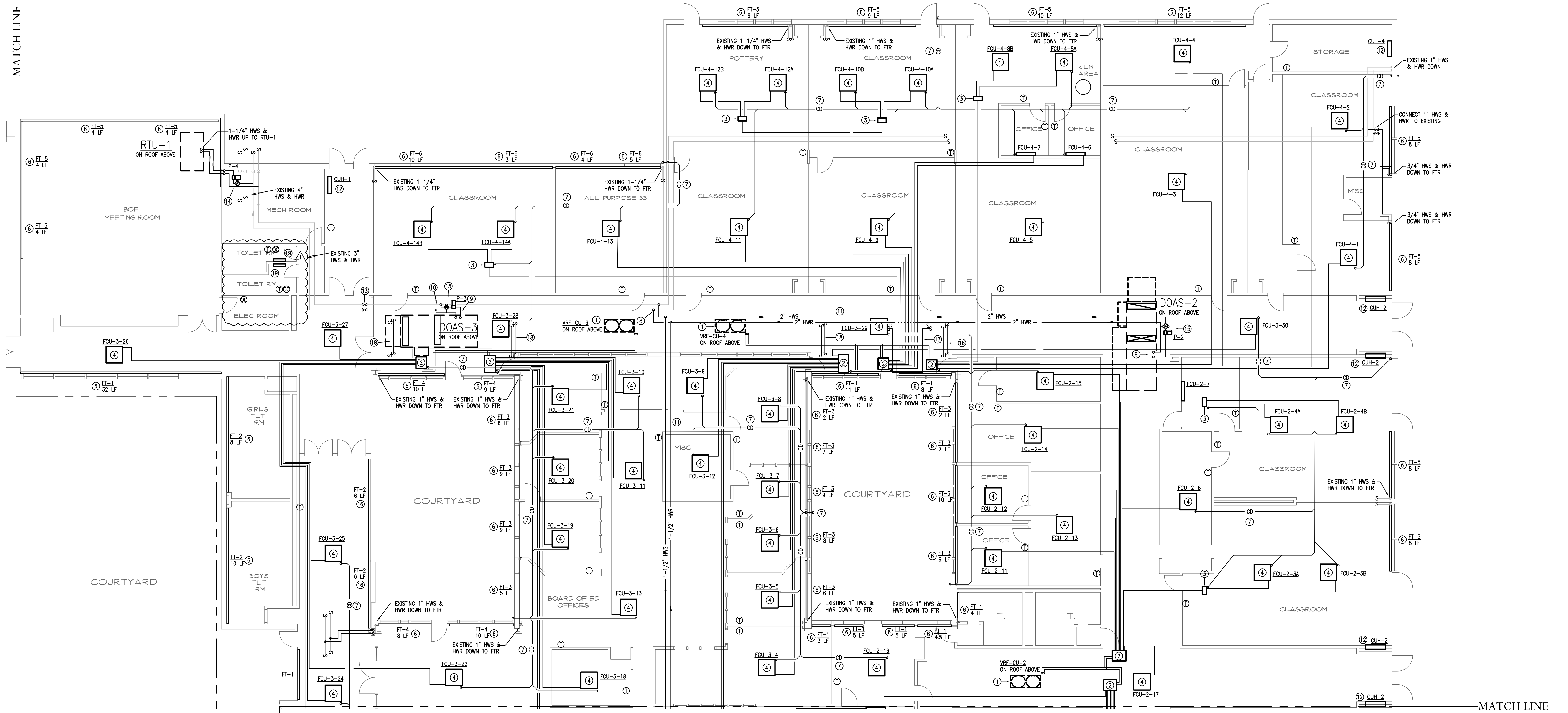
Revision	Description	Date	Revised By
ISSUED FOR BIDS		11/18/2022	JP
ADDENDUM NO.1		12/21/2022	JP

Drawing Title:

**MECHANICAL PARTIAL
PLAN - AREA D
GYMNASIUM**

Date: **NOVEMBER 18, 2022**
Scale: **AS NOTED**
Drawn By: **JP**
Project Number: **21-288**

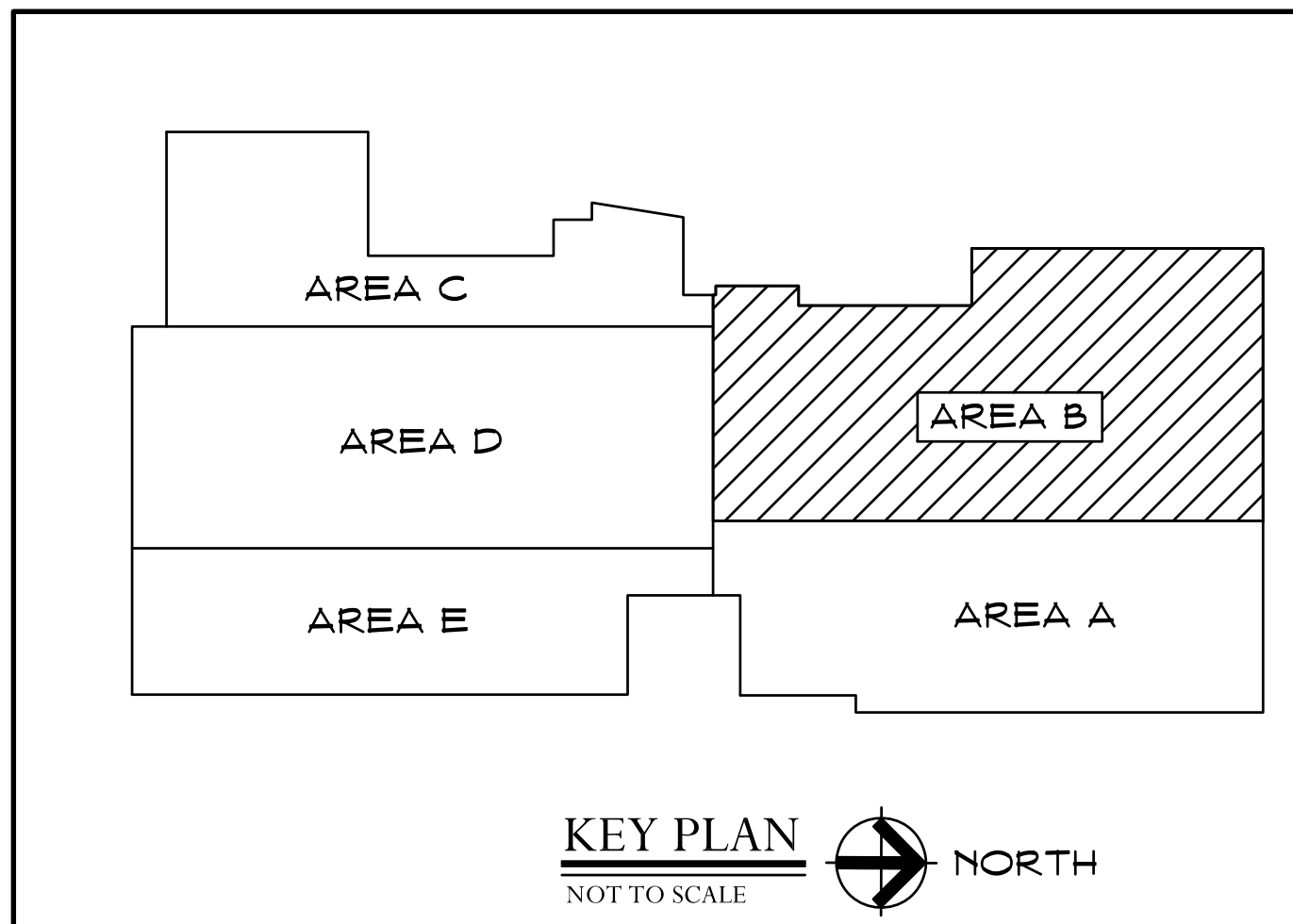
Drawing Number: **M103**



MECHANICAL PLAN NOTES

- ① VRF HEAT RECOVERY UNIT MOUNTED ON ROOF ABOVE. PROVIDE REFRIGERANT LINES THROUGH ROOF TO MULTIPORT DISTRIBUTION CONTROLLER (MDC) LOCATED IN CEILING SPACE. REFRIGERANT LINE SIZES TO BE PROVIDED BY VRF SYSTEM MANUFACTURER.
- ② INSTALL MDC ABOVE CEILING SUSPENDED FROM STRUCTURE. COORDINATE INSTALLATION WITH DUCTWORK. PROVIDE REFRIGERANT LINES FROM ROOF MOUNTED UNIT TO MDC AND LIQUID & SECTION LINES FROM MDC TO FAN COIL UNITS. PROVIDE SHUT-OFF VALVES AT EACH REFRIGERANT LINE CONNECTION. PROVIDE CONDENSATE DRAIN FROM MDC TO CONDENSATE DRAINAGE SYSTEM. REFRIGERANT LINE SIZES TO BE PROVIDED BY VRF SYSTEM MANUFACTURER.
- ③ INSTALL SUB-MDC ABOVE CEILING SUSPENDED FROM STRUCTURE. PROVIDE LIQUID & SUCTION REFRIGERANT LINES WITH SHUT-OFF VALVES AND CONNECTION TO CONDENSATE DRAINAGE SYSTEM.
- ④ INSTALL CEILING CASSETTE SUSPENDED FROM STRUCTURE. MODIFY CEILING GRID AS REQUIRED. PROVIDE LIQUID & SUCTION REFRIGERANT LINES AND CONDENSATE DRAIN.
- ⑤ INSTALL WALL HIGH MOUNTED FAN COIL UNIT. PROVIDE LIQUID & SUCTION REFRIGERANT LINES AND CONDENSATE DRAIN.
- ⑥ BID ALTERNATE: REPLACE EXISTING FINNED TUBE RADIATION, FINNED LENGTH AS INDICATED. REFER TO FINNED TUBE RADIATION DETAILS, DRAWING M302. PROVIDE NEW 2-POSITION CONTROL VALVE. PATCH, REPAIR AND RESTORE WALL FINISH TO MATCH EXISTING. BASE BID: EXISTING FINNED TUBE RADIATION TO REMAIN. REPLACE ONLY EXISTING CONTROL VALVE.
- ⑦ PROVIDE 1-1/2" CONDENSATE DRAIN PITCHED 1/8" PER FOOT TO DISCHARGE. PROVIDE 1" CONDENSATE LINE FROM EACH FAN COIL UNIT AND MDC CONNECTED TO TOP OF MAIN CONDENSATE DRAIN. PROVIDE CLEANOUT PLUG AT EACH CHANGE OF DIRECTION. DISCHARGE AT 6" ABOVE GRADE WITH SPLASH BLOCK. COORDINATE ROUTING IN FIELD.
- ⑧ CONNECT NEW 3" HWS & HWR TO EXISTING.
- ⑨ 2" HWS & HWR UP INTO UNIT COIL SECTION. CORE AND SEAL PIPE PENETRATIONS UP THROUGH FLOOR OF UNIT AS REQUIRED. COORDINATE EXACT LOCATION WITH APPROVED UNIT. INSTALL HW CIRCULATOR AND 3-WAY CONTROL VALVE IN CEILING SPACE. REFER TO HOT WATER COIL PIPING DIAGRAM, DRAWING M301.
- ⑩ CONNECT NEW 2" HWS & HWR TO EXISTING.
- ⑪ INSTALL NEW HWS & HWR PIPING ABOVE CEILING. COORDINATE ROUTING IN FIELD.
- ⑫ INSTALL NEW CUH IN PLACE OF EXISTING. CONNECT TO EXISTING HWS & HWR. MODIFY WALL OPENING AND PROVIDE FINISH TRIM PIECES AS REQUIRED.
- ⑬ REPLACE EXISTING 3" GATE VALVES.
- ⑭ 1-1/4" HWS & HWR SERVING RTU COIL. CONNECT TO EXISTING 4" HWS & HWR. CORE DRILL WALL AND ROOF PENETRATIONS AND SEAL AS REQUIRED. INSTALL HW CIRCULATOR AND 3-WAY CONTROL VALVE.
- ⑮ INSTALL HW CIRCULATOR AND 3-WAY CONTROL VALVE IN CEILING SPACE. PROVIDE DRIP PAN WITH FLOAT SWITCH.
- ⑯ INSTALL NEW FINNED TUBE RADIATION, FINNED LENGTH AS INDICATED. PROVIDE 3/4" HWS & HWR FROM EXISTING ABOVE CEILING. RUN PIPING DOWN WALL IN NEW PIPE ENCLOSURE. REFER TO FINNED TUBE RADIATION DETAIL, DRAWING M302.
- ⑰ RAISE EXISTING PIPING EXPANSION LOOP UP INTO BEAM SPACE TO ALLOW INSTALLATION OF NEW SYSTEMS.
- ⑱ RAISE EXISTING HWS & HWR PIPING UP INTO BEAM SPACE TO ALLOW INSTALLATION OF NEW SYSTEMS.
- ⑲ REPLACE EXISTING CONNECTOR IN-KIND. PROVIDE NEW CONTROL VALVE TEMPERATURE SENSOR & SHUT-OFFS.

MECHANICAL PLAN - AREA B
SCALE: 1/8" = 1' - 0"



KEY PLAN
NOT TO SCALE

Project Title:
Phase 1 HVAC Improvements at the
LP Wilson Community Center - Town of Windsor
601 Matianuk Avenue
Windsor, Connecticut 06095



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Revision	Description	Date	Revised By
ISSUED FOR BIDS		11/18/2022	JP
ADDENDUM NO.1		12/21/2022	JP

Drawing Title:
MECHANICAL PIPING PLAN AREA B

Drawing Number:
NOVEMBER 18, 2022
Scale:
AS NOTED
Drawn By:
JP
Project Number:
21-288

M202

DEDICATED OUTSIDE AIR HEAT PUMP SCHEDULE

NUMBER	AREA SERVED	MANUFACTURER AND MODEL	SUPPLY AIR FANS				EXHAUST AIR FAN				ELECTRICAL				ENERGY RECOVERY HEAT EXCHANGER										COOLING PERFORMANCE										HOT WATER COIL					HEAT PUMP PERFORMANCE			SUPPLY FILTERS		RETURN FILTERS		OPER WT (LBS)	NOTES							
			CFM LOW/HIGH	SP (IN WG) TSP	ESP	QNTY	HP EACH	CFM LOW/HIGH	SP (IN WG) TSP	ESP	QNTY	HP EACH	Volts/Phs/Hz	MCA	MOCP	TYPE	OA CFM	EXH CFM	MAX APD (IN.WG.)	SUMMER EA EAT °F DB/WB	LAT °F DB/WB	SUMMER EXH EAT °F DB/RH	LAT °F DB/WB	WINTER OA EAT °F DB/WB	LAT °F DB/WB	WINTER EXH EAT °F DB/WB	LAT °F DB/WB	COIL CFM	NET SENS MBH	NET TOTAL MBH	MRC LB/HR	ENT AIR EAT DB/WB	UNIT LVG AIR DB/WB/DP	COIL APD (IN.WG.)	MIN EER	MIN MRE (LB/KWH)	HEATING MBH	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	GPM	MAX WPD (FT.HD.)	MAX APD (IN.WG.)	HEATING MBH	AMBIENT (°F)			MIN COP	TYPE	COMBINED APD INITIAL (IN.WG.)	FINAL (IN.WG.)	TYPE	INITIAL (N.WG.)	FINAL (N.WG.)
DOAS-1	BOE AREAS A & B EAST	TRANE HORIZON MODEL OADG020C1	3560/4560	3.5	1.7	1	5.0	3560/4560	3.0	1.7	1	5.0	208/3/60	105	125	ENTHALPY WHEEL	4894	4894	0.67	95/74	80.6/67.2	75/64	89.1/71.3	8/8	51.4/46	70/58	28/28	4560	147	231	116.5	80.6/67.2	72/58.7/49.1	0.3	16.1	5.45	284	51.4	108.5	180	160	29.1	1.4	0.15	145.1	8.0	3.0	PREFILTER: MERV 8 FINAL FILTER: MERV 13	0.3	1.0	MERV 8	0.1	0.7	4800	
DOAS-2	BOE AREAS A & B WEST	TRANE HORIZON MODEL OADG015C1	2575/3350	3.25	1.7	1	3.0	2575/3350	2.8	1.7	1	3.0	208/3/60	83	100	ENTHALPY WHEEL	3611	3611	0.86	95/74	81.7/67.8	75/64	87.9/70.7	8/8	48/43	70/58	31/31	3350	112	174	85.1	81.7/67.7	72/58.8/49.2	0.4	14.9	5.06	245	47.8	114.9	180	160	25.1	1.1	0.11	112.9	8.0	3.1	PREFILTER: MERV 8 FINAL FILTER: MERV 13	0.3	1.0	MERV 8	0.1	0.7	4300	
DOAS-3	BOE AREAS A & B WEST	TRANE HORIZON MODEL OADG017C1	2975/3870	3.1	1.7	1	5.0	2975/3870	2.8	1.7	1	5.0	208/3/60	103	125	ENTHALPY WHEEL	3870	3870	0.86	95/74	80.6/67.2	75/64	89.1/71.3	8/8	51.7/46	70/58	28/27	3870	125	199	102.4	80.6/67.1	72/58.4/48.4	0.3	16.0	5.55	258	51.7	112.7	180	160	26.4	1.2	0.11	138.8	8.0	3.3	PREFILTER: MERV 8 FINAL FILTER: MERV 13	0.3	1.0	MERV 8	0.1	0.7	4700	

- NOTES:
- SUPPLY AND EXHAUST FAN LOW & HIGH CFMs INDICATED ARE FOR NORMAL VENTILATION MODE AND 30% INCREASED VENTILATION MODE. FAN STATIC PRESSURE IS AT HIGHER CFM.
 - PROVIDE 2" DOUBLE WALL CONSTRUCTION. INCLUDE INTERNAL PIPE CHASE. UNIT CASING SHALL ACCOMMODATE HOT WATER COIL PIPING AND ACCESSORIES INCLUDING CONTROL VALVES AND SHUTOFF VALVES.
 - FURNISH UNITS WITH 100% RECIRCULATION DAMPER FOR UNOCCUPIED HEATING MODE.
 - FURNISH UNITS WITH SINGLE POINT POWER CONNECTION, CONVENIENCE OUTLET.
 - FURNISH WITH VFD AND DISCONNECT SWITCH FOR SUPPLY FAN AND EXHAUST FAN.
 - FURNISH WITH ENTHALPY ENERGY RECOVERY WHEEL, HOT GAS REHEAT COIL, AND HOT WATER REHEAT COIL.
 - ALL FAN MOTOR DRIVE ASSEMBLIES SHALL BE MOUNTED ON VIBRATION ISOLATORS.
 - ENERGY WHEEL CROSS LEAKAGE SHALL BE LESS THAN 10%.
 - FURNISH WITH EXTERNAL HOT WATER PIPE CHASE CURB MOUNTED.

PACKAGED ROOFTOP HEAT PUMP SCHEDULE

SYMBOL	AREA SERVED	MANUFACTURER	SUPPLY FAN					OUTSIDE AIR (CFM)		ELECTRICAL		COOLING					HOT WATER COIL					HEAT PUMP PERFORMANCE			FILTERS		OPER. WEIGHT (LBS)	NOTES							
			TOTAL CFM	TSP	ESP	HP	DRIVE	MIN/MIN	MAX/MAX	VOLTS/Ø	MCA	MOCP	MINIMUM TOTAL (MBH)	CAPACITY SENS. (MBH)	EAT DB/WB (°F)	AMBIENT (°F)	MIN EER/IEER	CAPACITY CONTROL	HEATING MBH	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	GPM	ROWS	MAX WPD (FT.HD.)			MAX APD (IN.WG.)	HEATING MBH	AMBIENT (°F)	MIN COP @17°F	TYPE	COMBINED APD INITIAL (IN.WG.)	FINAL (IN.WG.)
RTU-1	BOE MEETING RM	TRANE WHC102	2800	2.0	1.7	5	DIRECT	100	620	208/3	46	60	101	74	79/66	95	12.0/15.5	2-STAGE	122	55	95	180	160	12	2	0.4	0.8	46	8.0	2	PREFILTER: MERV 8 FINAL FILTER: MERV 13	0.3	1.0	1500	
RTU-2	GYM	TRANE WSJ150	4400	2.7	2.1	5	BELT	500	1400	208/3	78	100	148	109	80/67	95	10.6/13.5	2-STAGE	160	56	90	180	160	16	2	1.0	0.7	75.4	8.0	2	PREFILTER: MERV 8 FINAL FILTER: MERV 13	0.3	1.0	2500	
RTU-3	GYM	TRANE WSJ150	4400	2.7	2.1	5	BELT	500	1400	208/3	78	100	148	109	80/67	95	10.6/13.5	2-STAGE	160	56	90	180	160	16	2	1.0	0.7	75.4	8.0	2	PREFILTER: MERV 8 FINAL FILTER: MERV 13	0.3	1.0	2500	

- NOTES:
- FURNISH WITH SUPPLY FAN VFD, INTAKE WEATHER HOOD, DISCONNECT SWITCH, HINGED ACCESS DOORS, 100% OA & RA DAMPERS, CO2 CONTROL, AND COMPARATIVE ENTHALPY ECONOMIZER.
 - FURNISH WITH FACTORY INSTALLED BAGNET CONTROLS.
 - FURNISH WITH FILTER SWITCH, STAINLESS STEEL CONDENSATE PAN AND CONDENSATE PAN OVERFLOW SWITCH.
 - OMITTED
 - FURNISH WITH POWER EXHAUST FANS, PROVIDE VFD FOR SUPPLY FANS.
 - PROVIDE NEW ROOF CURBS DESIGNED FOR WIND AND SEISMIC RESTRAINT REQUIREMENTS.
 - FURNISH WITH HOT WATER COILS WITH PERFORMANCE AS SCHEDULED. UNIT CONTROLS SHALL SEQUENCE COIL WITH HEAT PUMP FUNCTION.
 - FURNISH HW PIPING VESTIBULE WITH ACCESS DOOR, FLASHED AND SEALED TO UNIT CABINET AND ROOF.

COIL CIRCULATOR SCHEDULE

SYMBOL	SERVICE	TYPE	GPM	FT. HD.	MOTOR			FLUID	MANUFACTURER & MODEL	NOTES
					RPM	HP	VOLTS/Ø			
P-1	DOAS-1 HW COIL	IN-LINE	29.1	7	VARIABLE	1/6	115/1	WATER	ARMSTRONG MODEL R20-75	
P-2	DOAS-2 HW COIL	IN-LINE	25.1	7	VARIABLE	1/6	115/1	WATER	ARMSTRONG MODEL R20-75	
P-3	DOAS-3 HW COIL	IN-LINE	26.4	7	VARIABLE	1/6	115/1	WATER	ARMSTRONG MODEL R20-75	
P-4	RTU-1 HW COIL	IN-LINE	12	7	VARIABLE	1/16	115/1	WATER	ARMSTRONG MODEL H20-20	
P-5	RTU-2 HW COIL	IN-LINE	16	7	VARIABLE	1/6	115/1	WATER	ARMSTRONG MODEL R20-75	
P-6	RTU-3 HW COIL	IN-LINE	16	7	VARIABLE	1/6	115/1	WATER	ARMSTRONG MODEL R20-75	

1. PROVIDE DRIP PAN WITH FLOAT SWITCH AT EACH LOCATION ABOVE FINISHED CEILING.

CABINET UNIT HEATER SCHEDULE

SYMBOL	CFM HIGH SPD	SP (IN WG)	HP	ELECTRICAL VOLTS/Ø	HEATING CAPACITY (MBH)	EAT (°F)	EWT (°F)	GPM	ΔT (°F)	MAX ΔP (FT.HD.)	DIMENSIONS L x H x D (INCHES)	TYPE	MFR & MODEL NO.	NOTES	
															CUH-1
CUH-2	420	0	1/10	115/1	0.8	42	60	200	2.5	34	0.6	47 x 25 x 9.5	WALL RECESSED	STERLING RW04	
CUH-3	420	0	1/10	115/1	0.8	42	60	200	2.5	34	0.6	47 x 25 x 9.5	WALL SURFACE MOUNTED	STERLING W04	
CUH-4	225	0	1/15	115/1	0.8	26	60	200	2.5	21	0.5	35 x 25 x 9.5	WALL SURFACE MOUNTED	STERLING W02	
CUH-5	225	0	1/15	115/1	0.8	26	60	200	2.5	21	0.5	35 x 25 x 9.5	WALL/FLOOR MOUNTED	STERLING F02	

- NOTES:
- FURNISH THERMOSTAT, AQUASTAT, DISCONNECT SWITCH, AND SPEED CONTROL.
 - FURNISH MOTOR WITH INTERNAL THERMAL OVERLOAD PROTECTION.
 - FURNISH WITH FRONT STAMPED SUPPLY AND RETURN GRILLES.
 - FURNISH WITH INTEGRAL THERMOSTAT AND DISCONNECT SWITCH.
 - PROVIDE TRIM PIECES AS REQUIRED TO FINISH WALL OPENINGS.

SUPPLY DIFFUSER/GRILLE SCHEDULE

TAG	NECK SIZE	TYPE	CFM	MAX TOTAL PRESSURE (IN. WG.)	MAX NC	MAX NECK VEL (FPM)	MANUFACTURER & MODEL NO.	NOTES
B	6"	CEILING DIFFUSER	51-100	.10	17	500	TITUS MODEL TMS	
C	8"	CEILING DIFFUSER	101-200	.10	17	570	TITUS MODEL TMS	
D	10"	CEILING DIFFUSER	201-270	.10	17	500	TITUS MODEL TMS	
E	12"	CEILING DIFFUSER	271-400	.10	19	510	TITUS MODEL TMS	
F	14"	CEILING DIFFUSER	401-535	.10	19	500	TITUS MODEL TMS	
G	15"	CEILING DIFFUSER	536-735	.10	19	600	TITUS MODEL TMS	
H	18"	CEILING DIFFUSER	1100	.10	19	600	TITUS MODEL TMS	
WAV1	8"	VAV CEILING DIFFUSER	245	.10	20	700	TITUS MODEL T350-2	

- NOTES:
- PROVIDE BORDER FOR LAY-IN, SURFACE MOUNTED OR DUCT MOUNTED AS REQUIRED.
 - DUCT RUNOUTS, DROPS AND FLEX DUCTS TO DIFFUSERS SHALL BE NECK SIZE OR EQUIVALENT.
 - PROVIDE TRANSITION FROM DUCT RUNOUT OR FLEX DUCT TO DIFFUSER NECK WHERE REQUIRED.
 - USE FLEXIBLE DUCT CONNECTIONS TO CEILING MOUNTED DIFFUSERS ONLY, LENGTH NOT TO EXCEED 6 FEET.
 - INSTALL DUCT VOLUME DAMPERS IN BRANCH DUCTS TO ALL DIFFUSERS.
 - FURNISH VAV DIFFUSER WITH WALL MOUNTED THERMOSTAT AND BAGNET BMS INTERFACE.
 - DIFFUSERS AIR PATTERN AS INDICATED ON PLAN.
- LEGEND: TAG PATTERN (1-WAY, 2-WAY, 3-WAY 4-WAY, CORNER)

EXHAUST FAN SCHEDULE

SYMBOL	AREA SERVED	TYPE	CFM	EXTERNAL STATIC PRESS (IN. WG.)	ELECTRICAL		MAX SONES	DRIVE	MANUFACTURER & MODEL	OPERATING WEIGHT (LBS)	NOTES
					VOLTS/Ø	HP					
EF-1	TOILET & ELEC ROOMS	ROOF CENTRIFUGAL	475	0.5	120/1	1/6	10.0	DIRECT	GREENHECK G-095-VG	60	

- NOTES:
- FURNISH WITH VARIABLE SPEED EC MOTORS WITH THERMAL OVERLOAD PROTECTION.
 - FURNISH WITH ROOF CURB.
 - FURNISH WITH MOTORIZED BACKDRAFT DAMPER, BIRD SCREEN, SPEED CONTROLLER, DISCONNECT SWITCH.
 - PROVIDE OCCUPANT SENSORS (QNTY 3) INSTALLED IN EACH SPACE TO ENERGIZE FAN.

USE 650 BTUH/LF OF GLASS FINNED TUBE RADIATION SCHEDULE

SYMBOL	HEATING CAPACITY @ 160° EWT (BTUH/LF)	GPM	EWT (°F)	WPD (IN/10')	HEATING ELEMENT TUBES/FINS	FINS PER FT	TOP OF ENCLOSURE INCHES AFF	TYPE	MFR & MODEL NO.	NOTES
FT-2	1040	2.0	160	2	3/4" CU/3.25" AL	48	14	TWO TIER SLOPE TOP	SLANT-FIN 351-14	
FT-3	1040	2.0	160	2	3/4" CU/3.25" AL	48	14	TWO TIER SLOPE TOP	SLANT-FIN 351-14	WITH KNOB OPERATED DAMPER
FT-4	864	2.0	160	2	3/4" CU/3.25" AL	40	14	TWO TIER FLAT TOP	SLANT-FIN 95-10	
FT-5	1450	4.0	160	2	3/4" CU/3.25" AL	40	25	TWO TIER SLOPE TOP	SLANT-FIN JA-21	
FT-6	1450	4.0	160	2	3/4" CU/3.25" AL	40	25	TWO TIER SLOPE TOP	SLANT-FIN JA-21	WITH KNOB OPERATED DAMPER

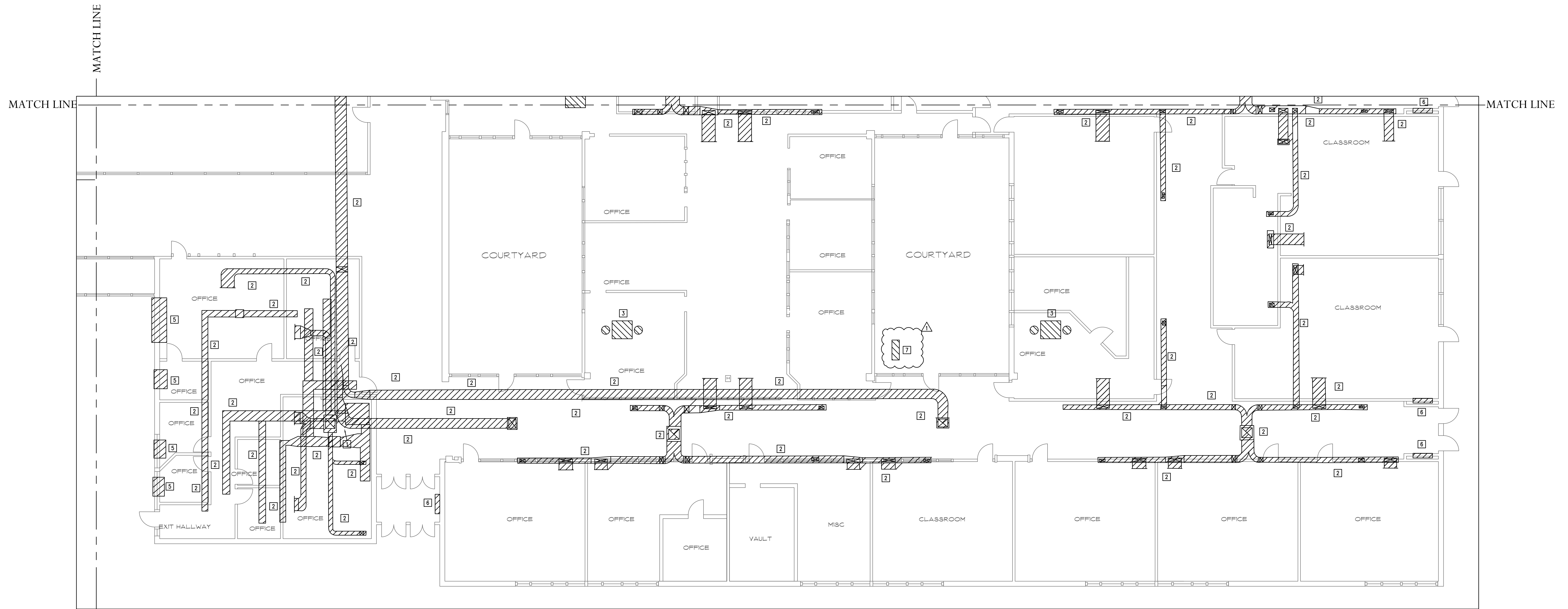
- NOTES:
- PROVIDE DIELECTRIC UNIONS FOR CONNECTIONS TO STEEL PIPE.
 - PROVIDE CONTINUOUS WALL TO WALL ENCLOSURES. COLOR TO BE SELECTED BY OWNER.
 - HEATING CAPACITY FOR 2-TIER ELEMENT IS TOTAL CAPACITY OF BOTH TIERS.
 - PROVIDE KNOB OPERATED DAMPERS FOR OFFICES.
 - FURNISH FT-4 WITH ANODIZED ALUMINUM GRILLE.

RETURN/EXHAUST GRILLE SCHEDULE

TAG	NECK SIZE	TYPE	CFM	NEG STATIC PRESSURE (IN. WG.)	MAX NC	MAX NECK VEL (FPM)	MANUFACTURER & MODEL NO.	NOTES
R2	8x8	CEILING EGGRATE GRILLE	51-185	.04	13	500	TITUS MODEL 50R	
R3	10x10	CEILING EGGRATE GRILLE	186-295	.04	13	500	TITUS MODEL 50R	
R4	12x12	CEILING EGGRATE GRILLE	296-440	.04	13	500	TITUS MODEL 50R	
R5	14x14	CEILING EGGRATE GRILLE	441-610	.04	13	500	TITUS MODEL 50R	
R6	16x16	CEILING EGGRATE GRILLE	611-810	.04	13	500	TITUS MODEL 50R	
R7	18x18	CEILING EGGRATE GRILLE	811-1240	.04	13	600	TITUS MODEL 50R	
R8	48x24	SIDEWALL RETURN GRILLE	4400	.07	17	600	TITUS MODEL 50R	

- NOTES:
- PROVIDE BORDER FOR LAY-IN, SURFACE MOUNTED OR DUCT MOUNTED AS REQUIRED.
 - DUCT RUNOUTS, DROPS AND FLEX DUCTS SHALL BE NECK SIZE OR EQUIVALENT.
 - PROVIDE TRANSITION FROM DUCT RUNOUT OR FLEX DUCT TO GRILLE NECK WHERE REQUIRED.
 - USE FLEXIBLE DUCT CONNECTIONS TO CEILING MOUNTED GRILLES ONLY, LENGTH NOT TO EXCEED 6 FEET.
 - INSTALL DUCT VOLUME DAMPERS IN BRANCH DUCTS TO ALL DIFFUSERS.
- LEGEND: TAG PATTERN





GENERAL DEMOLITION NOTES

1. PHASE DEMOLITION TO MAINTAIN SYSTEMS AND BUILDING SERVICES AS REQUIRED DURING CONSTRUCTION. COORDINATE PHASING WITH CONSTRUCTION MANAGER.
2. RECLAIM ALL REFRIGERANT PRIOR TO COMMENCING DEMOLITION OF AIR CONDITIONING EQUIPMENT.
3. PATCH, REPAIR AND SEAL ALL WALL AND ROOF OPENINGS RESULTING FROM MECHANICAL/ELECTRICAL DEMOLITION. RESTORE FINISHES WITH MATERIALS MATCHING EXISTING. PROVIDE PROTECTION FROM WEATHER DURING CONSTRUCTION.
4. REWORK PIPING, DUCT, AND ELECTRICAL CONNECTIONS FOR EQUIPMENT BEING RELOCATED.
5. ENSURE THAT POWER IS SECURED OFF PRIOR TO COMMENCING EQUIPMENT REMOVAL. SECURE POWER BACK TO PANEL FOR EQUIPMENT BEING REMOVED.
6. PROVIDE TEMPORARY CAPS OR COVERS FOR ALL OPENED PIPE, DUCT, AND CONDUIT TO PREVENT INTRODUCTION OF FOREIGN MATERIAL.
7. ALL WASTE MATERIALS AND EQUIPMENT SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF BY THE CONTRACTOR.
8. STORE OR OTHERWISE PROTECT EQUIPMENT BEING RELOCATED FROM DAMAGE DURING CONSTRUCTION.
9. ALL MECHANICAL SYSTEMS DESIGNATED FOR REMOVAL SHALL BE REMOVED IN THEIR ENTIRETY. REMOVE ALL EXISTING EQUIPMENT, PIPING, DUCTWORK, WIRING, CONTROLS, AND SUPPORTS INCLUDING HANGERS, PADS, AND FOUNDATIONS, UNLESS SPECIFICALLY INDICATED TO REMAIN.
10. SYSTEM DEMOLITION SHALL BE PHASED IN CONJUNCTION WITH CONSTRUCTION PHASING AS REQUIRED TO MAINTAIN OCCUPANCY DURING CONSTRUCTION.
11. SYSTEMS DEPICTED ARE BASED ON AS-BUILT DRAWINGS AND SITE INVESTIGATION. DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF SYSTEMS TO BE REMOVED.
12. EXISTING DOMESTIC WATER SERVICE, DOMESTIC WATER HEATING, AND DISTRIBUTION SYSTEM TO REMAIN EXCEPT WHERE OTHERWISE INDICATED.
13. REMOVE AND REPLACE CEILING AS REQUIRED TO REMOVE SYSTEMS TO BE REMOVED ABOVE CEILING.

MECHANICAL DEMOLITION PLAN NOTES

- 1 REMOVE EXISTING AIR HANDLING UNIT, RETURN FAN, AND ALL RELATED DUCTWORK, ROOF VENTS, WALL LOWERS, PIPING, WIRING/CONDUIT, CONTROLS, HANGERS, SUPPORTS AND ACCESSORIES, EXCEPT WHERE NOTED ETR. CAP HOT WATER PIPING AT MAINS. PATCH AND REPAIR WALL AND ROOF OPENINGS WITH MATERIALS MATCHING EXISTING.
- 2 REMOVE DUCTWORK, DIFFUSERS, GRILLES, ACCESSORIES, AND SUPPORTS.
- 3 REMOVE EXISTING ENERGY RECOVERY VENTILATOR, AND ALL RELATED DUCTWORK, ROOF VENTS, WIRING/CONDUIT, CONTROLS, HANGERS, SUPPORTS AND ACCESSORIES, EXCEPT WHERE NOTED ETR. PATCH AND REPAIR WALL AND ROOF OPENINGS WITH MATERIALS MATCHING EXISTING.
- 4 REMOVE EXISTING UNIT VENTILATOR, AND ALL RELATED DUCTWORK, PIPING, ROOF VENTS, WIRING/CONDUIT, CONTROLS, HANGERS, SUPPORTS AND ACCESSORIES, EXCEPT WHERE NOTED ETR. PATCH AND REPAIR WALL AND ROOF OPENINGS WITH MATERIALS MATCHING EXISTING.
- 5 REMOVE EXISTING PACKAGED TERMINAL AIR CONDITIONER, AND ALL RELATED WIRING/CONDUIT, CONTROLS, SUPPORTS AND ACCESSORIES, PATCH AND REPAIR WALL AND ROOF OPENINGS WITH MATERIALS MATCHING EXISTING.
- 6 REMOVE EXISTING CABINET UNIT HEATER, ALLOW FOR CONNECTION TO EXISTING PIPING.
- 7 REMOVE EXISTING DUCTLESS SPLIT SYSTEM AND ASSOCIATED INDOOR UNIT(S), PIPING, WIRING, CONTROLS AND SUPPORTS.

EXISTING WINDOW AIR CONDITIONERS

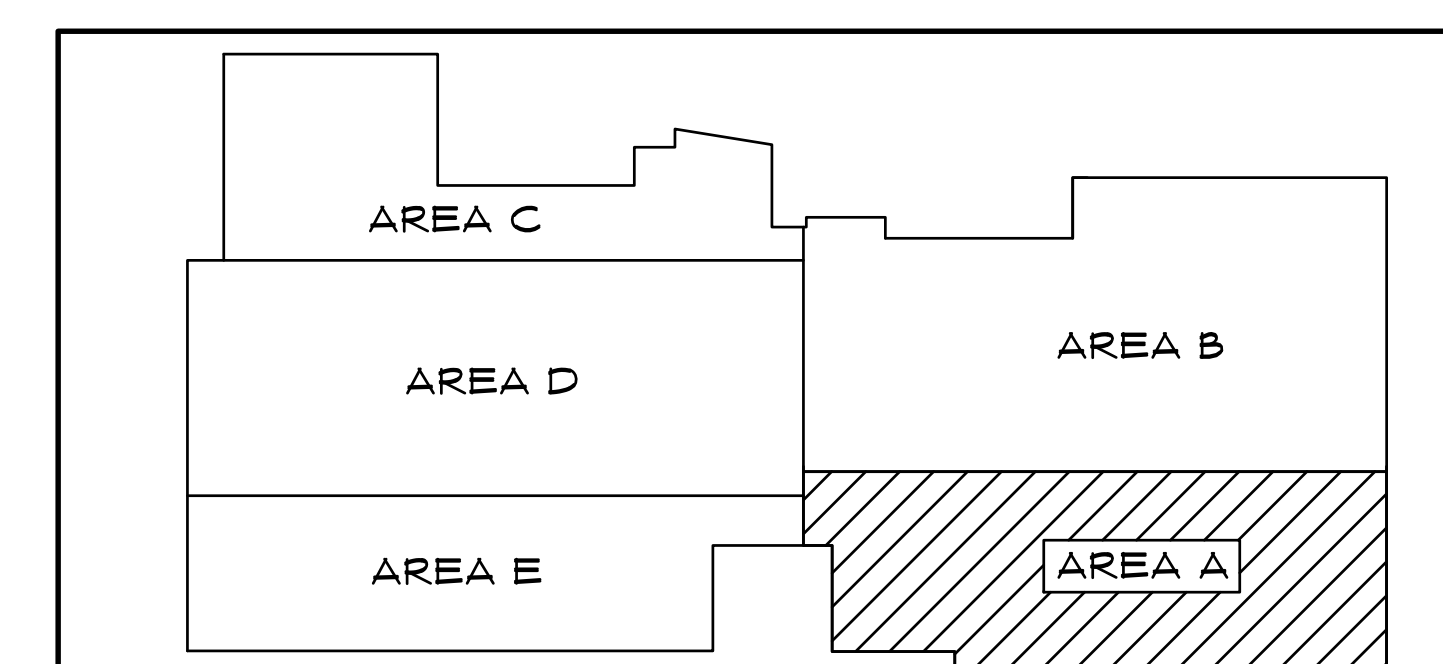
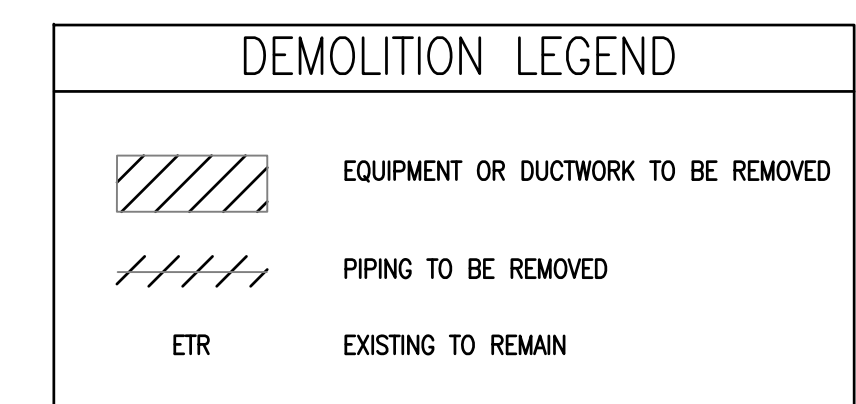
REMOVE ALL EXISTING WINDOW AIR CONDITIONERS AND RETURN TO OWNER.

CEILING DEMOLITION NOTES

1. CONTRACTOR SHALL REMOVE AND DISPOSE OF CEILING TILES AND GRIDS AS REQUIRED TO PERFORM REMOVAL OF EXISTING, AND INSTALLATION OF NEW MECHANICAL SYSTEMS.
2. REMOVE AND STORE ALL EXISTING CEILING DEVICES INCLUDING BUT NOT LIMITED TO LIGHT FIXTURES, EXIT SIGNS, HEAT/SMOKE DETECTORS, REMOTE TEST SWITCHES, SPEAKERS, ALARM DEVICES, MOTION SENSORS, PROJECTORS, ETC.
3. REINSTALL CEILING DEVICES IN NEW CEILING UPON COMPLETION OF NEW MECHANICAL AND ELECTRICAL WORK.

MECHANICAL DEMO PLAN - AREA A

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



KEY PLAN
NOT TO SCALE



Project Title:

Phase 1 HVAC Improvements at the
LP Wilson Community Center - Town of Windsor
601 Matianuk Avenue
Windsor, Connecticut 06095



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Revision Description Date Revisal By:

ISSUED FOR BIDS 11/18/2022 JP
ADDENDUM NO.1 12/21/2022 JP

Drawing Title:

**MECHANICAL
DEMOLITION PLAN
AREA A**

Date: **NOVEMBER 18, 2022**

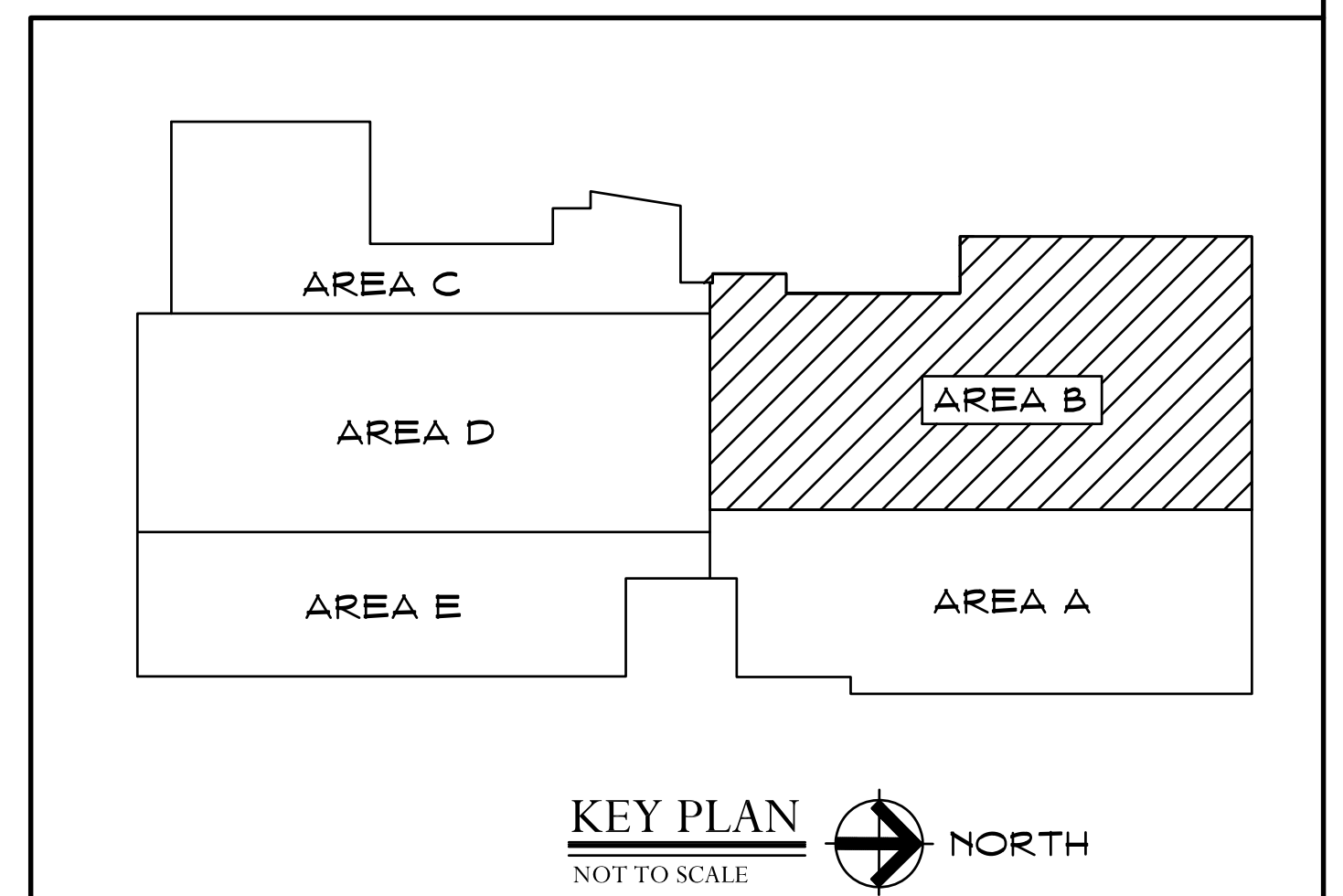
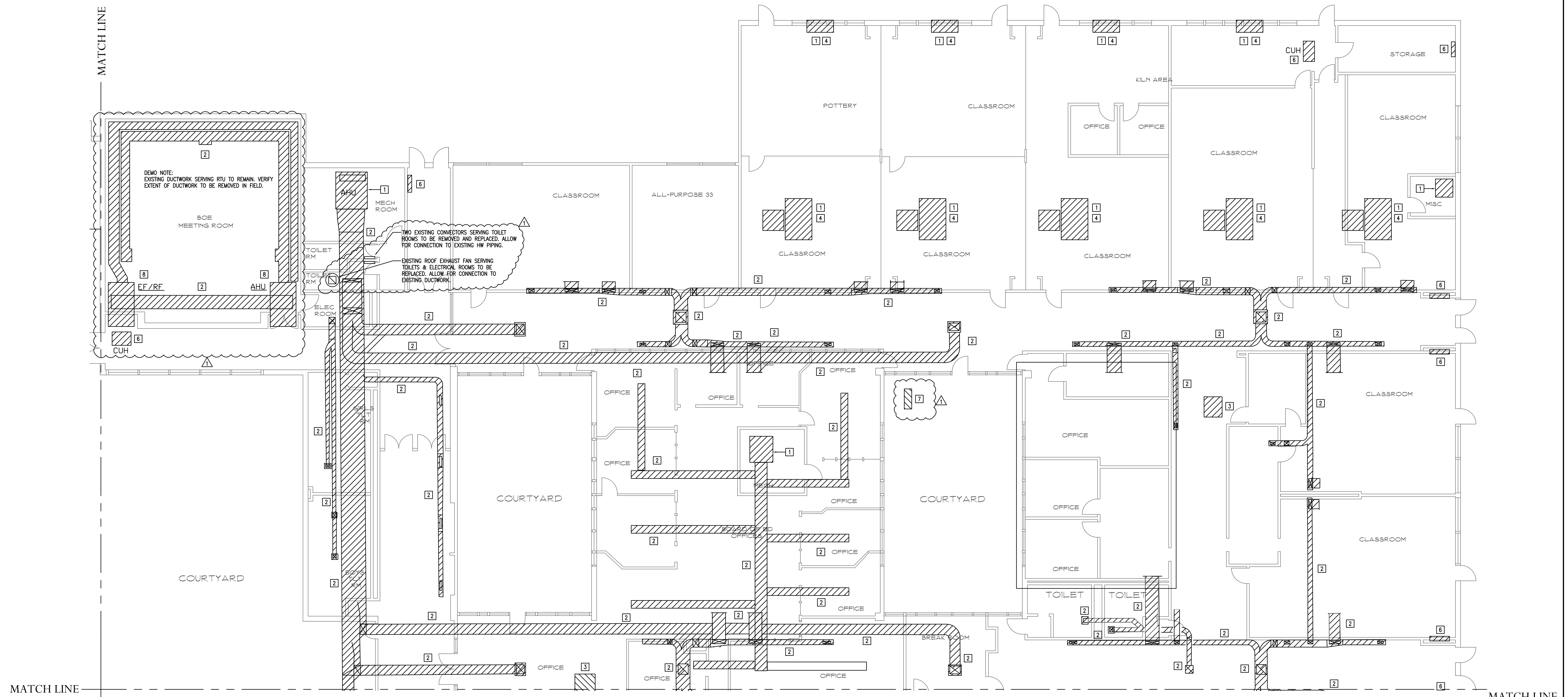
Scale: **AS NOTED**

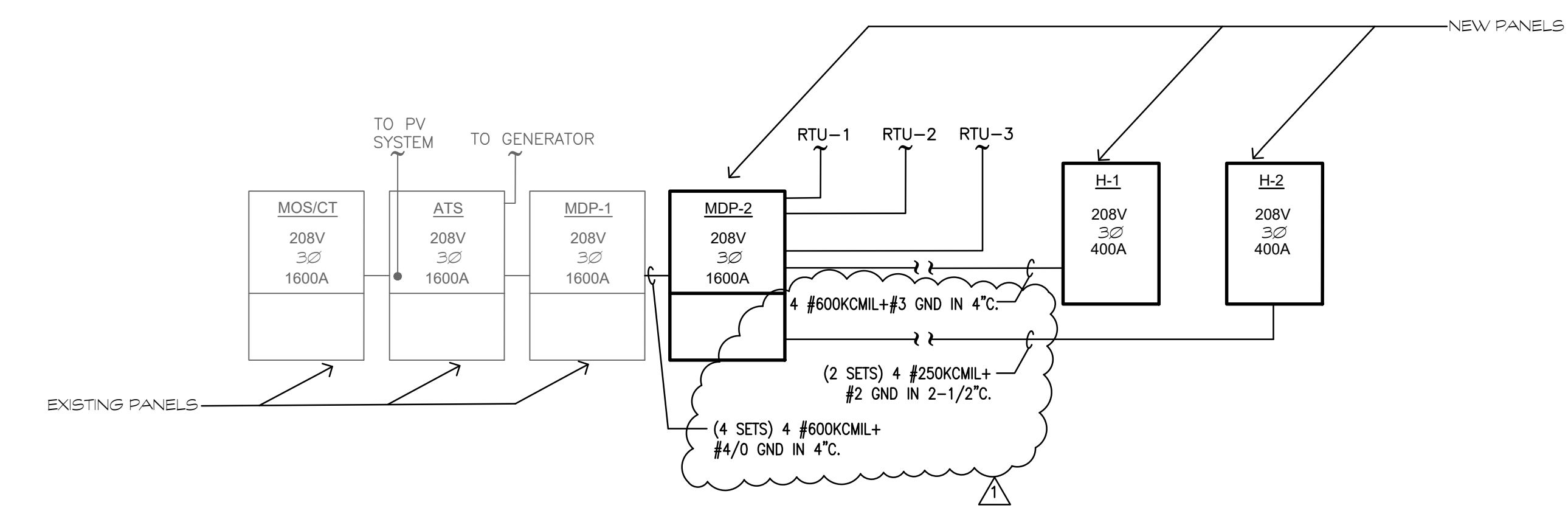
Drawn By: **JP**

Project Number: **21-288**

Drawing Number:

MD101





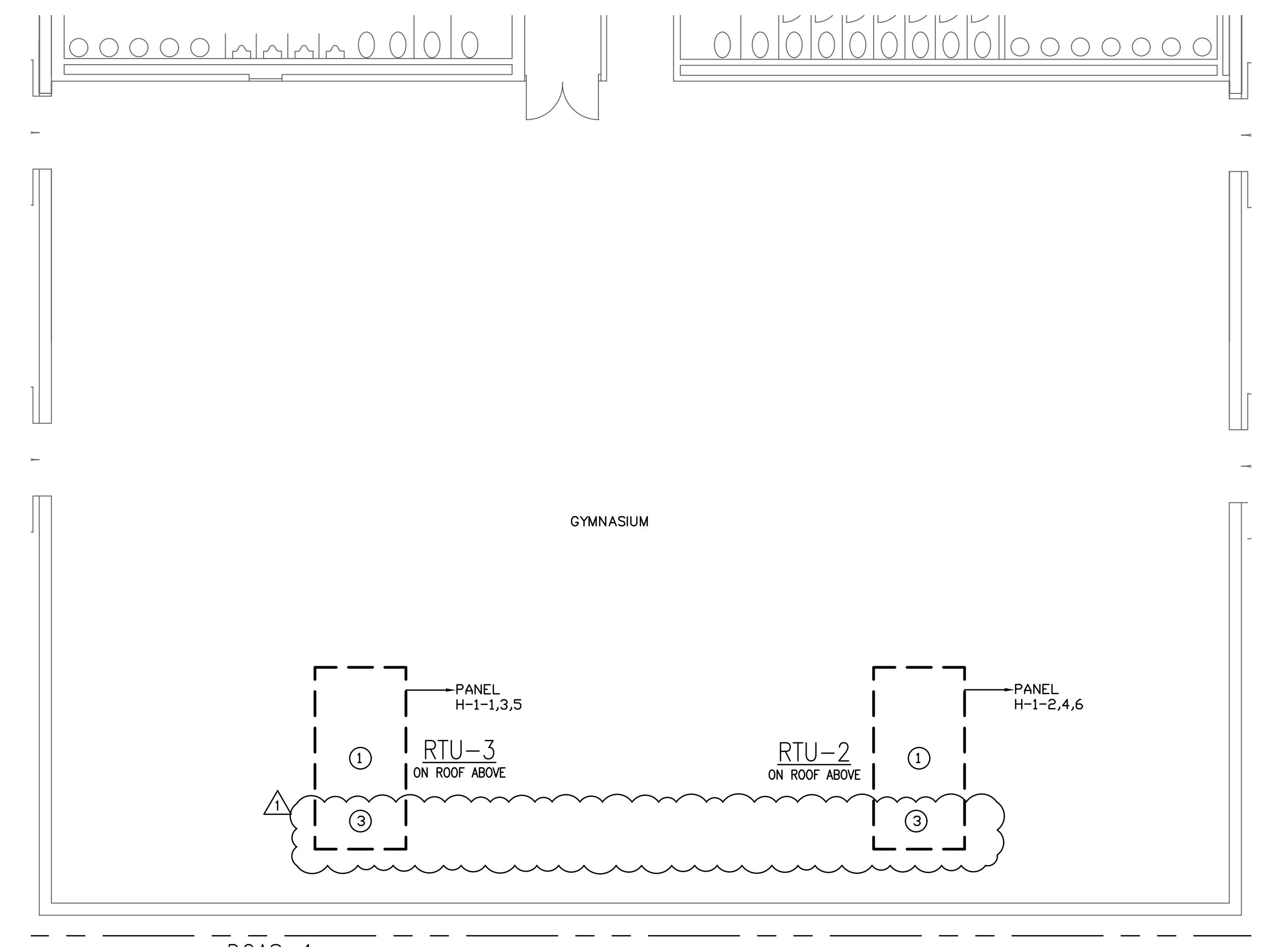
ELECTRICAL ONE-LINE RISER DIAGRAM
NOT TO SCALE



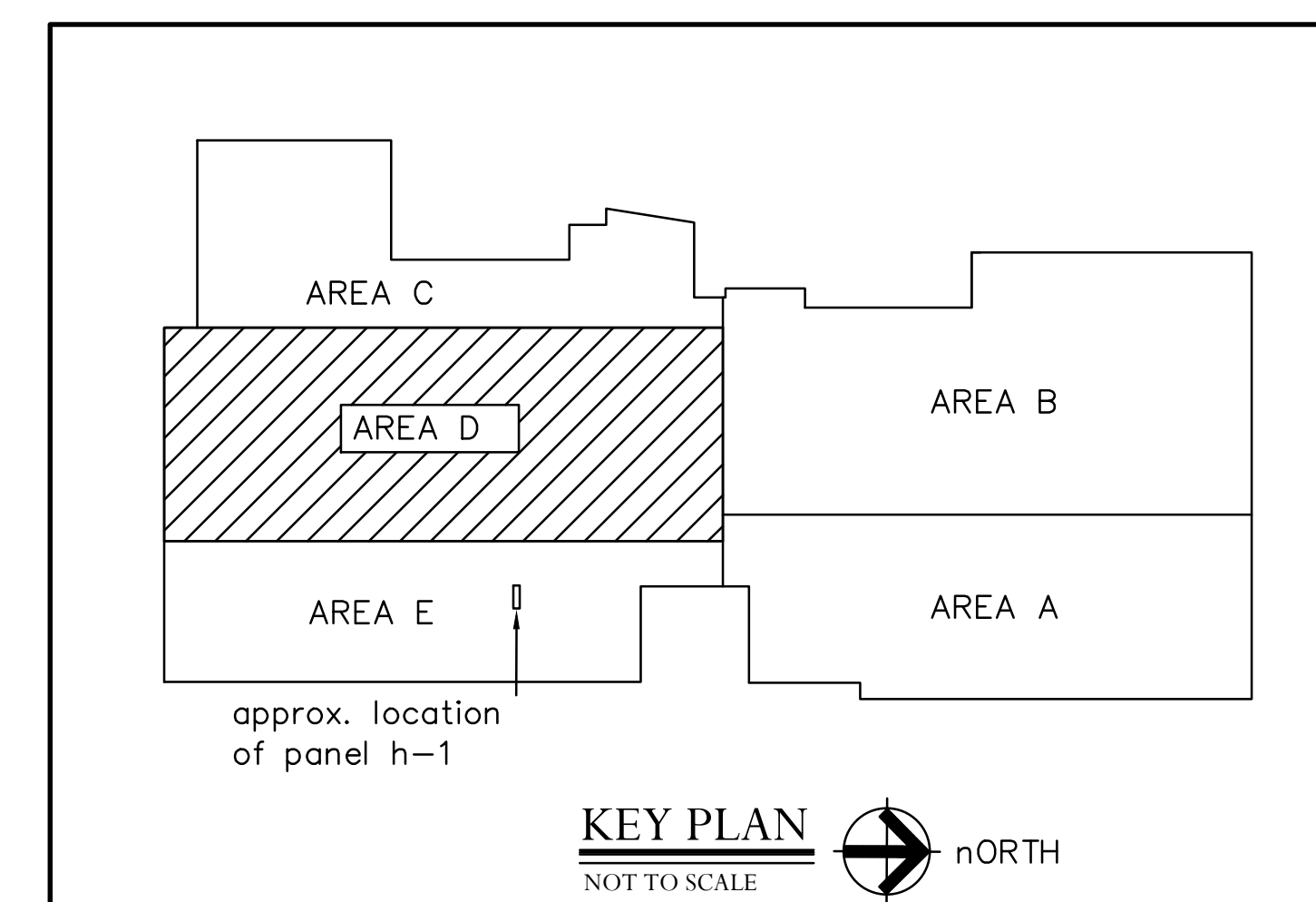
Revision	Description	Date	Revised By
1	ISSUED FOR BIDS	11/18/22	DR
	ADDENDUM #1	12/21/22	RRB

PLAN NOTES

- ① CEILINGS IN THIS AREA WILL BE IMPACTED/REMOVED TO ALLOW FOR NEW DUCTWORK ROUTING. CONTRACTOR SHALL ALLOW FOR REMOVAL AND REINSTALLATION OR TEMPORARY SUPPORT OF EXISTING LIGHT FIXTURES (ASSUME 30 FIXTURES). CONTRACTOR SHALL PROVIDE SIMILAR WORK FOR MISCELLANEOUS OTHER ELECTRICAL DEVICES (EXIT SIGNS, OCCUPANCY SENSORS, ETC) IN THIS AREA (ASSUME 8 DEVICES). CONTRACTOR SHALL PROVIDE J-HOOK SUPPORT FOR EXISTING LOW VOLTAGE AND ARMORED CABLE THAT IS CURRENTLY IMPROPERLY SUPPORTED BY THE CEILING. ALLOW FOR 2 ROWS OF HOOKS ON 5' SPACING FOR THE LENGTH OF ALL CORRIDOR AREAS WHERE CEILING REMOVAL IS REQUIRED. GROUP AND GATHER CABLES INTO SUPPORTS.
- ② CABINET UNIT HEATER TO BE REPLACED IN SAME LOCATION. DISCONNECT EXISTING 120V, 20A CIRCUIT FROM EXISTING UNIT AND RECONNECT TO NEW.
- ③ PROVIDE (2) NEW DUCT SMOKE DETECTORS FOR NEW HVAC EQUIPMENT. DETECTORS SHALL BE COMPATIBLE WITH EXISTING SIEMENS FIRE ALARM CONTROL PANEL. THESE SHALL BE INSTALLED BY THE HVAC CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR. COORDINATE EXACT LOCATION IN FIELD. PROVIDE ALL REQUIRED MATERIALS, LABOR AND PROGRAMMING TO MONITOR THE DETECTORS VIA THE FACP AND SHUT DOWN THE ASSOCIATED UNIT ON DETECTION OF SMOKE.
- ④ ROOFTOP HVAC UNIT IS PROVIDED WITH A SEPARATE COIL CIRCULATOR PUMP (120V, FRACTIONAL HP). PROVIDE CONNECTION FROM EXISTING RECEPTACLE CIRCUIT IN THIS AREA TO THE PUMP. COORDINATE RECEPTACLE OR TOGGLE DISCONNECT CONNECTION REQUIREMENT WITH EQUIPMENT FURNISHED.
- ⑤ FCU-1 & 3 UNITS SHALL BE CIRCUITED TO PANEL H-2. FCU-5 UNITS SHALL BE CIRCUITED TO PANEL H-1. REFER TO PANEL SCHEDULES FOR CIRCUIT ASSIGNMENTS.



ELECTRICAL PLAN - AREA D nORTH
SCALE: 1/8" = 1' - 0"



KEY PLAN
NOT TO SCALE nORTH

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Revision	Description	Date	Revised By
1	ISSUED FOR BIDS	11/18/22	DR
1	ADDENDUM #1	12/21/22	RRB

Drawing Title:

**ELECTRICAL PLAN
AREA D**

Date: **November 16, 2022**
Scale: **1/8" = 1'-0"**
Drawn By: **DR**
Project Number: **21-288**

E104