



















































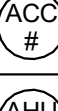
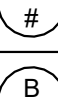
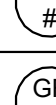

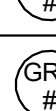




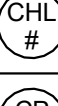
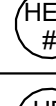

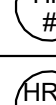
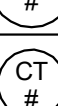
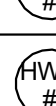

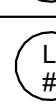


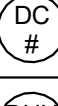
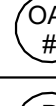

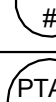

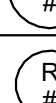




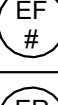
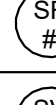

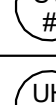

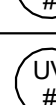




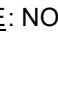
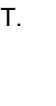








MECHANICAL GENERAL NOTES	
1.	THE DRAWINGS INDICATE THE GENERAL SCOPE OF WORK ASSOCIATED WITH THE INSTALLATION OF HVAC EQUIPMENT AND SYSTEMS, BUT ARE NOT NECESSARILY INCLUSIVE OF ACTUAL CONDITIONS. THE FULL EXTENT OF THE WORK SHALL BE DETERMINED IN THE FIELD BASED ON THE ACTUAL CONDITIONS ENCOUNTERED AND AS REQUIRED FOR THE SATISFACTORY EXECUTION OF THE NEW WORK.
2.	THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE EQUIPMENT AND SYSTEMS IN ACCORDANCE WITH THE PROJECT CONSTRUCTION SCHEDULE.
3.	THE CONTRACTOR SHALL COORDINATE THE INSTALLATION AND SCHEDULING OF THEIR WORK WITH ALL OTHER TRADES (PLUMBING, ELECTRICAL, GENERAL ETC.). ANY CONFLICTS DUE TO FAILURE OF THIS CONTRACTOR TO COORDINATE WORK WITH OTHER TRADES SHALL BE THEIR RESPONSIBILITY TO RESOLVE.
4.	ALL CUTTING OF WALLS, FLOORS, ROOFS, AND CEILINGS, AS REQUIRED TO INSTALL DUCTWORK, PIPING, ROOF CURBS ETC. SHALL BE PERFORMED BY THIS CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. PATCHING SHALL MATCH EXISTING METHODS, MATERIALS OF CONSTRUCTION, AND ADJACENT FINISHES.
5.	THE CONTRACTOR SHALL PROVIDE ALL METHODS AND MATERIALS FOR SUPPORTING ALL EQUIPMENT, PIPING, AND DUCTWORK FURNISHED UNDER THIS CONTRACT. IN AREAS OF BAR JOIST CONSTRUCTION ALL PIPING, DUCTWORK, AND SUSPENDED EQUIPMENT WITH A CONCENTRATED LOAD (I.E. HANGERS) IN EXCESS OF 150 LBS. SHALL BE SUPPORTED FROM THE TOP CHORD OF THE BAR JOISTS. DO NOT HANG ANY PIPING OR DUCTWORK FROM THE ROOF DECK.
6.	VERIFY THE FINAL MOUNTING HEIGHTS AND LOCATIONS OF LOUVERS, BRICK VENTS, CABINET HANGERS, SIDEWALL GRILLES AND REGISTERS, AND ALL OTHER VISIBLE EQUIPMENT WITH THE ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS.
7.	COORDINATE FINAL CEILING GRILLE AND DIFFUSER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS, FIRE PROTECTION PLANS, AND ELECTRICAL/TECHNOLOGY PLANS.
8.	SEAL ALL DUCT AND PIPING PENETRATIONS OF FIRE AND SMOKE RATED PARTITIONS AND FLOORS WITH FIRE STOPPING MATERIALS AS SPECIFIED IN THE DIVISION 1 SPECIFICATIONS, WHERE FIRESTOPPING MATERIALS ARE NOT SPECIFIED IN DIVISION 1, ALL FIRESTOPPING MATERIALS SHALL BE U.L. LISTED FOR USE AND AS MANUFACTURED BY 3M OR EQUAL.
9.	PROVIDE ACOUSTICAL SEALS AROUND ALL DUCTWORK AND PIPING PENETRATIONS OF INTERIOR ACOUSTICALLY RATED PARTITIONS. REFER TO THE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ACOUSTICAL PARTITIONS.
10.	PROVIDE AUTOMATIC AIR VENTS ON ALL PIPING SYSTEM HIGH POINTS AND DRAIN VALVES ON ALL LOW POINTS.
11.	PROVIDE SHUT-OFF VALVES AND FILL AND DRAIN PORTS TO PERMIT CHEMICAL CLEANING AND FLUSHING.
12.	PROVIDE PIPING SWING JOINTS AT ALL CONNECTIONS TO PIPING MAINS.
13.	ALL ADJUSTABLE THERMOSTATS, SENSORS AND SWITCHES INTENDED FOR NORMAL USE BY THE BUILDING'S OCCUPANTS SHALL BE MOUNTED 48" A.F.F. TO THE TOP OF THE DEVICE IN ACCORDANCE WITH ADA REQUIREMENTS.
14.	DO NOT UTILIZE AIR HANDLING EQUIPMENT AND DUCTED AIR SYSTEMS FURNISHED UNDER THIS CONTRACT AS A MEANS OF TEMPORARY HEAT DURING CONSTRUCTION. OBTAIN WRITTEN APPROVAL FROM THE ENGINEER PRIOR TO PLACING EQUIPMENT IN SUSTAINED OPERATION.
15.	BOTTOM OF DUCT AND BOTTOM OF PIPE ELEVATIONS ARE FOR REFERENCE ONLY. FINAL ELEVATIONS ARE SUBJECT TO ACTUAL FIELD CONDITIONS. FIELD VERIFY ALL CLEARANCES AND DIMENSIONS PRIOR TO FABRICATING AND INSTALLING DUCTWORK AND PIPING. COORDINATE DUCT AND PIPING INSTALLATIONS WITH ALL OTHER TRADES TO AVOID INTERFERENCE WITH LIGHT FIXTURES, SPRINKLERS, SPEAKERS, ETC.
16.	ALL DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS. FIELD VERIFY ACTUAL CLEARANCES AND CONDITIONS PRIOR TO FABRICATING DUCTWORK. DO NOT ORDER FIRE DAMPERS UNTIL VERIFYING ACTUAL CONDITIONS AND DIMENSIONS.
17.	SUBMIT SHEET METAL SHOP DRAWINGS TO SCALE 3/8" = 1'-0". DETAILING DUCTWORK, HVAC EQUIPMENT AND DIFFUSERS. SHOP DRAWINGS SHALL BE DIMENSIONED. SHALL INDICATE DUCT ELEVATIONS, AND SHALL DEPICT CEILING GRID, STRUCTURAL STEEL, LIGHT FIXTURES, SPRINKLER HEADS, AND PLUMBING AND HVAC PIPING MAINS.
18.	THE CONTRACTOR SHALL FURNISH ALL ACCESS DOORS IN WALLS AND PLASTER CEILINGS AS REQUIRED TO ACCESS VOLUME DAMPERS, FIRE DAMPERS, AND OTHER SERVICEABLE DEVICES. ACCESS DOORS SHALL BE UL LISTED WHEN INSTALLED IN RATED CONSTRUCTION. FIELD VERIFY ACCESS DOOR LOCATIONS AND SIZES WITH ARCHITECT.
19.	PROVIDE LOCATION/IDENTIFICATION MARKING ON CEILING T-BAR GRIDS (OR ON CEILING ACCESS DOORS AS APPLICABLE) JUST BELOW CONCEALED SHUT-OFF VALVES, CONTROL VALVES, AND HVAC EQUIPMENT.
20.	ALL ROUND DUCTWORK SHALL BE ROUND SPIRAL DUCT EXCEPT WHERE NOTED AS FLEXIBLE. ROUND FLEXIBLE DUCTWORK IS LIMITED TO DUCTIONS ONLY AS SHOWN ON THE DRAWINGS. MAXIMUM LENGTH SHALL NOT EXCEED 6'-0".
21.	THE CONTRACTOR SHALL COORDINATE THE RIGGING, MOVING AND HOISTING OF EQUIPMENT FURNISHED UNDER THIS CONTRACT WITH EXISTING ARCHITECTURAL CONSTRAINTS.
22.	DUCT SMOKE DETECTORS SHALL BE FURNISHED BY E.C., INSTALLED BY H.C. WIRING TO SHUT DOWN UNIT/ CLOSE DAMPER SHALL BE BY H.C. AND WIRING TO FIRE ALARM PANEL SHALL BE BY E.C.
23.	THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATIONS OF FLOOR DRAINS IN MECHANICAL ROOMS WITH OTHER TRADES.
24.	CONCRETE EQUIPMENT PADS ON MECHANICAL ROOM FLOORS SHALL BE REINFORCED WITH 4X4 WWM AND DOWELED TO THE FLOOR.
25.	ALL CONDENSATE AND CLEAN, CLEAR WATER FROM MECHANICAL EQUIPMENT MUST BE PIPED TO A DRAIN CONNECTED TO THE STORM SYSTEM AND NOT SANITARY.
26.	ALL REFRIGERANT PIPE SIZES SHALL BE VERIFIED BY THE CONDENSING UNIT MANUFACTURER.
27.	PROVIDE FLEXIBLE CONNECTIONS IN DUCTWORK AND PIPING AT ALL LOCATIONS WHERE DUCTWORK AND PIPING CROSS HORIZONTAL OR VERTICAL BUILDING EXPANSION JOINTS. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING EXPANSION JOINT LOCATIONS.

MECHANICAL SYMBOLS & ABBREVIATIONS			
G.C.	GENERAL CONTRACTOR	C.D.	CONDENSATE DRAIN
H.C. / M.C.	MECHANICAL CONTRACTOR	F.D.	FLOOR DRAIN
E.C.	ELECTRICAL CONTRACTOR	RS	REFRIGERANT SUCTION
P.C.	PLUMBING CONTRACTOR	RL	REFRIGERANT LIQUID
S/A	SUPPLY AIR	—HWS—	HOT WATER SUPPLY
R/A	RETURN AIR	----HWR----	HOT WATER RETURN
T/A	TRANSFER AIR	—CWS—	CHILLED WATER SUPPLY
E/A	EXHAUST AIR	----CWR----	CHILLED WATER RETURN
O/A	OUTSIDE AIR	—O/S—	CONDENSER WATER SUPPLY
A.F.F.	ABOVE FINISHED FLOOR	----CR----	CONDENSER WATER RETURN
AL	ACOUSTICAL LINING	—FOS—	FUEL OIL SUPPLY
O.E.D.	OPEN END DUCT	----FOR----	FUEL OIL RETURN
NC	NORMALLY CLOSED	—LPS—	LOW PRESSURE STEAM SUPPLY
NO	NORMALLY OPEN	----LPR----	LOW PRESSURE STEAM RETURN
DISC	DISCONNECT SWITCH	 	GATE/BUTTERFLY VALVE
	REMOVE EXISTING	 	BALL VALVE
	CONNECT TO EXISTING	 	BALANCING VALVE
	SUPPLY AIR DIFFUSER/DROP/RISE	 	3-WAY ATC VALVE
	RETURN AIR GRILLE/DROP/RISE	 	2-WAY ATC VALVE
	EXHAUST AIR GRILLE/DROP/RISE	 	AUTOMATIC FILL VALVE
	SMOKE MOUNTED SMOKE DETECTOR	 	RELIEF VALVE
	TEMPERATURE/HUMIDITY SENSOR	 	CHECK VALVE
	CARBON DIOXIDE SENSOR	 	TRIPLE DUTY VALVE
	SWITCH	 	STRAINER
	PRESSURE SENSOR	 	PIPE ANCHOR
	VOLUME DAMPER		PIPE GUIDE
	ATC	 FC	FLEXIBLE CONNECTION
	BACKDRAFT DAMPER	 	THERMOMETER
	SMOKE DAMPER	 	PRESSURE GAUGE
	ACCESS PANEL	 	OSSY VALVE
	FIRE DAMPER	 	PRESSURE REDUCING VALVE
	DIFFERENTIAL PRESSURE SENSOR		UNION

NOTE: NOT ALL SYMBOLS & ABBREVIATIONS SHOWN ARE USED ON THIS PROJECT

DESIGN CODE COMPLIANCE	
PA - UCC	PENNSYLVANIA UNIFORM CONSTRUCTION CODE; 2018
IBC	ICC - INTERNATIONAL BUILDING CODE; 2018
IMC	ICC - INTERNATIONAL MECHANICAL CODE; 2018
IEEC	ICC - INTERNATIONAL ENERGY CONSERVATION CODE; 2018
IFGC	ICC - INTERNATIONAL FUEL GAS CODE; 2018
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NEC	NATIONAL ELECTRIC CODE; 2017

MECHANICAL EQUIPMENT TAGS			
	AMBIENT AIR CLEANER # = MARK		FAN COIL UNIT # = MARK
	AIR-COOLED CHILLER # = MARK		FUEL OIL TRANSFER PUMP # = MARK
	AIR HANDLING UNIT # = MARK		FAN POWERED VAV BOX # = MARK
	BOILER # = MARK		GAS FURNACE # = MARK
	BLOWER COIL UNIT # = MARK		GRAVITY RELIEF VENT # = MARK
	CONVECTOR # = MARK		GAS-FIRED UNIT HEATER # = MARK
	CABINET HEATER # = MARK		HUMIDIFIER # = MARK
	WATER-COOLED CHILLER # = MARK		HEAT EXCHANGER # = MARK
	CONDENSATE PUMP # = MARK		HEAT PUMP # = MARK
	COMPUTER ROOM AC UNIT # = MARK		HEAT RECOVERY UNIT # = MARK
	COOLING TOWER # = MARK		HOT WATER COIL # = MARK
	CONDENSING UNIT # = MARK		LOUVER # = MARK
	CHILLED WATER COIL # = MARK		MAKE-UP AIR UNIT # = MARK
	DUST COLLECTOR # = MARK		OUTSIDE AIR INTAKE # = MARK
	DEHUMIDIFICATION UNIT # = MARK		PUMP # = MARK
	DUCT SILENCER # = MARK		PACKAGED TERMINAL AC UNIT # = MARK
	DUCTLESS SPLIT SYSTEM # = MARK		RADIATION # = MARK
	ELECTRIC CABINET HEATER # = MARK		RETURN FAN # = MARK
	ELECTRIC DUCT COIL # = MARK		ROOFTOP AIR HANDLING UNIT # = MARK
	EXHAUST FAN # = MARK		SUPPLY FAN # = MARK
	ELECTRIC RADIATION # = MARK		SMOKE VENT # = MARK
	ENERGY RECOVERY UNIT # = MARK		UNIT HEATER # = MARK
	ELECTRIC UNIT HEATER # = MARK		UNIT VENTILATOR # = MARK
	ELECTRIC WALL HEATER # = MARK		VAV BOX # = MARK
	EXPANSION TANK # = MARK		GRILLE / DIFFUSER TAG V = VOLUME

NOTE: NOT ALL TAGS SHOWN ARE USED ON THIS PROJECT

CONTRACTOR RESPONSIBILITY

FLOOR: MECHANICAL CONTRACTOR TO CUT FLOOR AS REQUIRED BY THE DOCUMENTS AND TO REPAIR FLOOR TO SUBFLOOR LEVEL AND PREPARE A SMOOTH SUBSTRATE FOR FINAL FLOORING FINISH WHEN WORK IS COMPLETE. GENERAL CONTRACTOR TO PROVIDE FINISH FLOOR MATERIAL AND TO FLASH PATCH AS REQUIRED TO PREPARE FLOOR SURFACE FOR FLOOR TILE. WHERE EXISTING FLOORING IS REMOVED, GENERAL CONTRACTOR SHALL REMOVE MASTIC AND UNDERLAYMENT TO PROVIDE A LEVEL SUBSTRATE FOR INSTALLATION OF NEW FLOOR BY GENERAL CONTRACTOR. GENERAL CONTRACTOR TO PREPARE FLOOR AS REQUIRED TO OBTAIN SMOOTH FINISHED SURFACE.

WALLS: ALL WALL OPENINGS IN VISIBLE AREAS OF THE FINAL DESIGN WILL BE PATCHED BY GENERAL CONTRACTOR. FOR ALL OPENINGS IN AREAS NOT VISIBLE IN FINAL DESIGN (I.E. ABOVE CEILINGS) THE MECHANICAL CONTRACTOR WILL CUT HOLES AND PATCH FOR THEIR RESPECTIVE SCOPE OF WORK. GENERAL CONTRACTOR TO PATCH WALLS AT EXISTING LIGHT SWITCH LOCATIONS. COORDINATE WITH ELECTRICAL CONTRACTOR.

CEILING: GENERAL CONTRACTOR TO REMOVE ALL CEILING TILES AND GRID AND REINSTALL NEW CEILING AND GRID IN ALL SCOPE OF WORK AREAS AFTER MECHANICAL CONTRACTOR WORK IS COMPLETE. EACH INDIVIDUAL CONTRACTOR WILL BE REQUIRED TO CUT THEIR OWN CEILING TILES FOR THEIR RESPECTIVE DEVICES.

ROOF: MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL ROOF CURBS FOR MECHANICAL EQUIPMENT AND CUT ROOF PENETRATIONS AS REQUIRED FOR MECHANICAL CONTRACTOR SCOPE. GENERAL CONTRACTOR TO PROVIDE AND INSTALL FLASHING AND FLASHING FLASHING FLASHING FLASHING FLASHING FLASHING FLASHING. GENERAL CONTRACTOR SHALL COORDINATE REQUIRED STEEL AT OPENINGS WITH MECHANICAL PLANS. ROOFING CONTRACTOR TO PATCH AND FLASH NEW ROOF AROUND ALL PENETRATIONS AND OPENINGS. ROOFING CONTRACTOR TO PROVIDE TEMPORARY WEATHER PROTECTION AS REQUIRED AT ALL PENETRATIONS AND OPENINGS.

CONCRETE PADS: MECHANICAL CONTRACTOR TO PROVIDE ALL CONCRETE EQUIPMENT AND MAINTENANCE PADS, EXCEPT WHERE NOTED TO BE BY OTHER CONTRACTOR.

GENERAL: MECHANICAL CONTRACTOR SHALL CUT ALL REQUIRED OPENINGS. GENERAL CONTRACTOR TO PATCH VISIBLE OPENINGS.

REFER TO SPECIFICATIONS SECTION 011200 MULTIPLE CONTRACT SUMMARY FOR SCOPE OF WORK.



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CONTACT PERSON: PM Name

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MEP & FP

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phone: 610.694.8020
CONTACT PERSON: Jeff Machik, PE

Project:

Mary C. Howse
Elementary

Project Address:

641 Boot Road
West Chester, PA 19380

Sheet Title:

COVER SHEET - HVAC

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

TO STARTING WORK:
Any party who relies in part or whole on the content of

these Construction Documents shall, before beginning any work, be responsible for fully inspecting the complete set of Contract Documents, including all Drawings, Specifications, and Addenda, for completeness, conflicts, scope of work, and suitability for constructing the building. All parties relying on these documents represent that they have expertise in the area of their responsibility and are knowledgeable regarding industry standards, product requirements and code requirements and that they are qualified to read, understand and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the Architect in writing. **All parties who begin work hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.**

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[illegible]

BHA Job Number: 22-114

Scale: NO SC

Drawn By: LSH

Checked By: JRM

Approved _____

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Project:

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Sheet Title:

PHASING PLAN - PHASE 1

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

TO STARTING WORK:
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[illegible]

BHA Job Number: 22-114

Scale: $1/16" = 1'-0"$

Drawn By: LSH

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Approved By:	JRM

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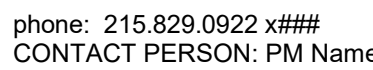
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① PHASING PLAN - PHASE 1
1/16" = 1'-0"



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Project:

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Sheet Title:

PHASING PLAN - PHASE 2

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

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BHA Job Number: 22-114

Scale: $1/16" = 1'-0"$

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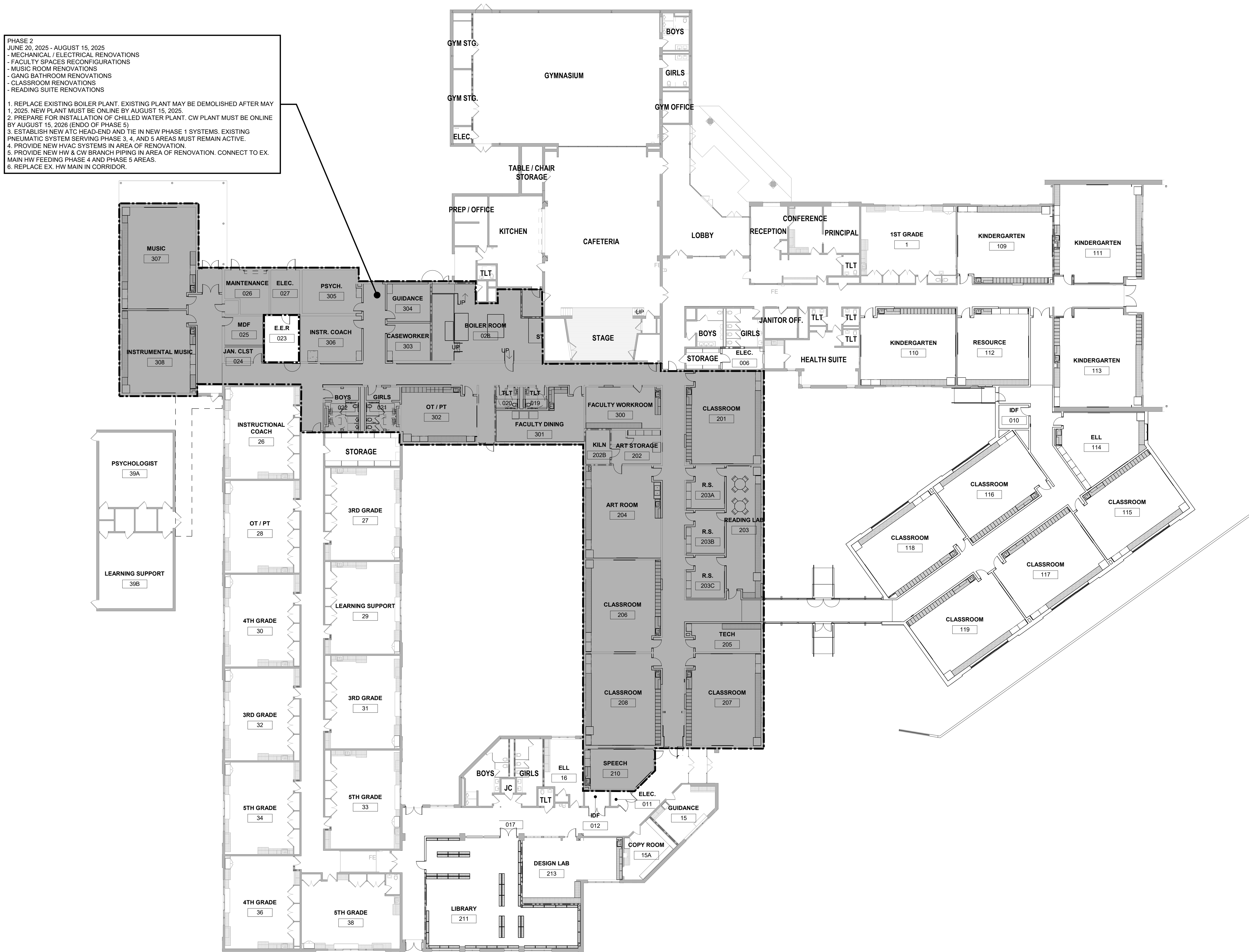
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① PHASING PLAN - PHASE 2
1/16" = 1'-0"



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Elementary

Sheet Title:

PHASING PLAN - PHASE 3

Se3

TO STARTING WORK:
 Answer each of the following questions carefully on the content of

Any party who relies in part or whole on the content or interpretation of these documents, including any drawings, specifications, and Addenda, for completeness, conflict of scope of work, and suitability for constructing the building, All parties relying on these documents represent that they have expertise in the area of their responsibility and are knowledgeable regarding industry standards, product requirements and code requirements and therefore are qualified to fully evaluate and interpret the content of these documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the Architect in writing. **All parties who begin work hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.**

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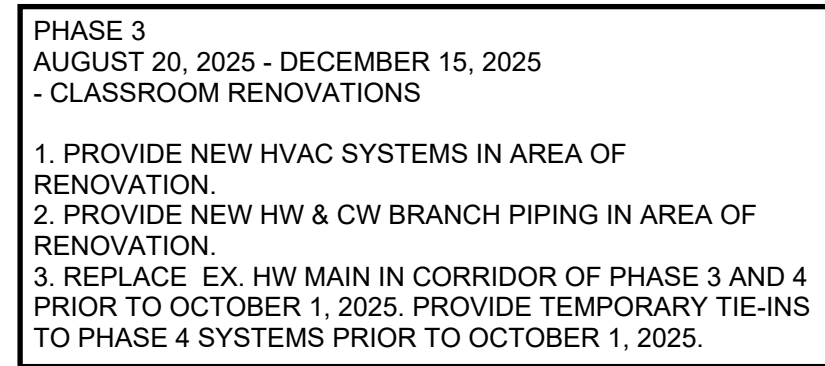
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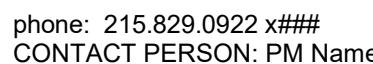
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① PHASING PLAN - PHASE 3
1/16" = 1'-0"



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Project:

Mary C. Howse
Elementary

Project Address:
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West Chester, PA 19380

Sheet Title:

PHASING PLAN - PHASE 4

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

TO STARTING WORK:
Any party who relies in part or whole on the content of these Construction Documents shall, before beginning construction, conduct a diligent inspection of the complete set of Contract Documents, including all Drawings, Specifications, and Addenda, for completeness, conflict of scope of work, and suitability for constructing the building. All parties relying on these documents represent that they have expertise in the area of their responsibility and are qualified to understand and interpret the standards, product requirements and code requirements and therefore are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the Architect in writing. The parties who bestow shall hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

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① PHASING PLAN - PHASE 4
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Project:

Mary C. Howse
Elementary

Project Address:
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West Chester, PA 19380

Sheet Title:

PHASING PLAN - PHASE 5

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

TO STARTING WORK:
Any party who relies in part or whole on the content of these Construction Documents shall, before beginning any work, be responsible for fully inspecting the complete set of Construction Documents including all Drawings, Specifications, and Addenda, for completeness, conflict, scope of work, and suitability for constructing the building. All parties relying on these documents represent that they have expertise in the area of their responsibility and are knowledgeable regarding industry standards, product requirements, and code requirements and therefore are qualified to fully understand and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the Architect. By signing and submitting this form, I hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

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① PHASING PLAN - PHASE 5
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Project:
**Mary C. Howse
Elementary**

Project Address:
**641 Boot Road
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Sheet Title:
FLOOR PLAN - AREA C

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR TO STARTING WORK

Any party who relies in part or whole on the content of these Construction Documents shall, before beginning any work, be responsible for fully inspecting the complete set of Contract Documents, including all Drawings, Specifications, and Addenda, for completeness, conflicts, scope of work, and suitability for constructing the building. All parties relying on these documents represent that they have expertise in the area of their responsibility and are knowledgeable regarding industry standards, product requirements and code requirements and therefore are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the Architect in writing. All parties who begin work hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

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Release	Date	Comments	△
	03.24.2023	SCHEMATIC DESIGN	
	05.28.2023	DESIGN DEVELOPMENT	
	07.28.2023	80% CD SET	
	09.19.2023	90% CD SET	
	10.31.2023	BID SET	

BHA Job Number: 22-114

Scale: As indicated

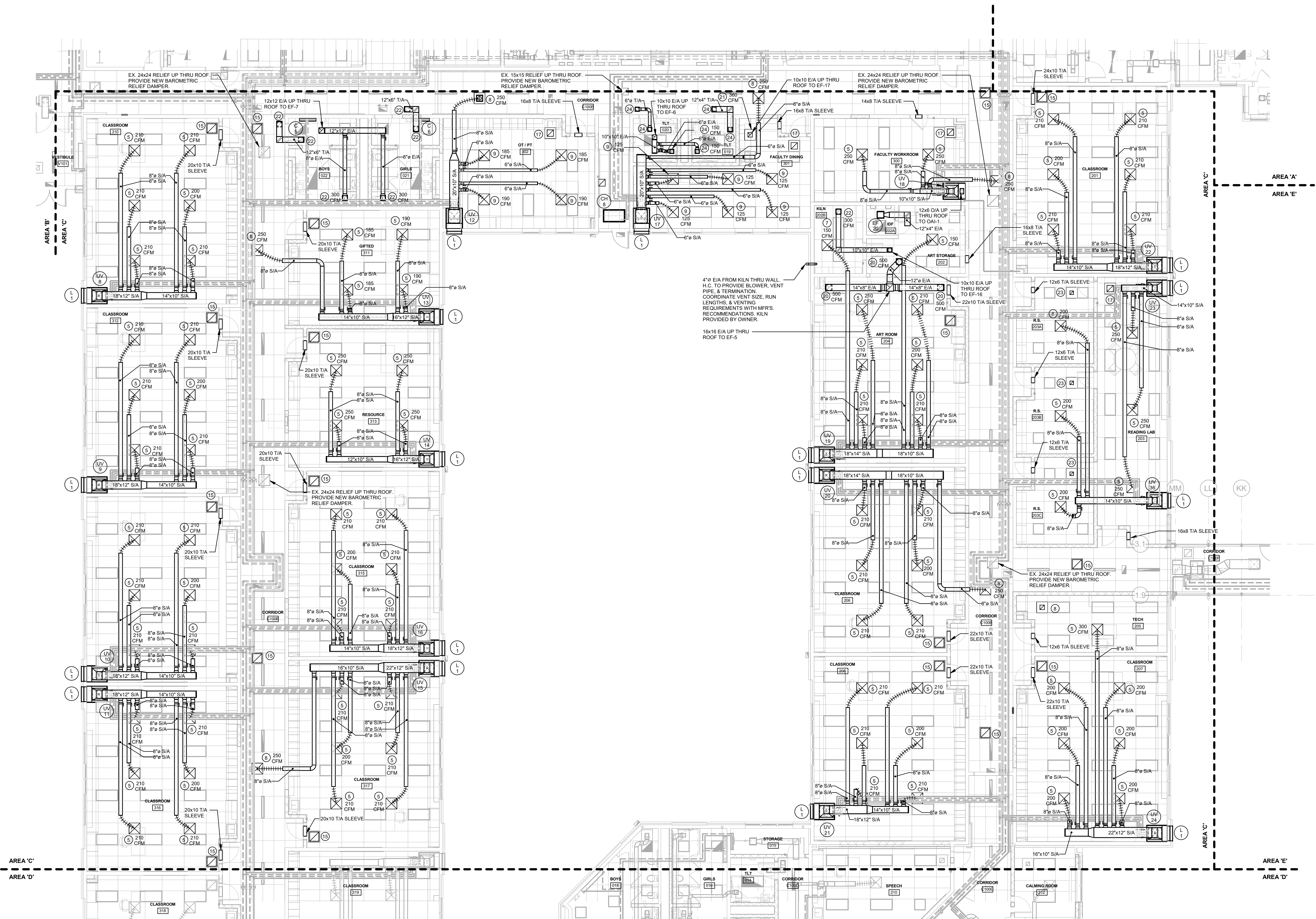
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Checked By: JRM

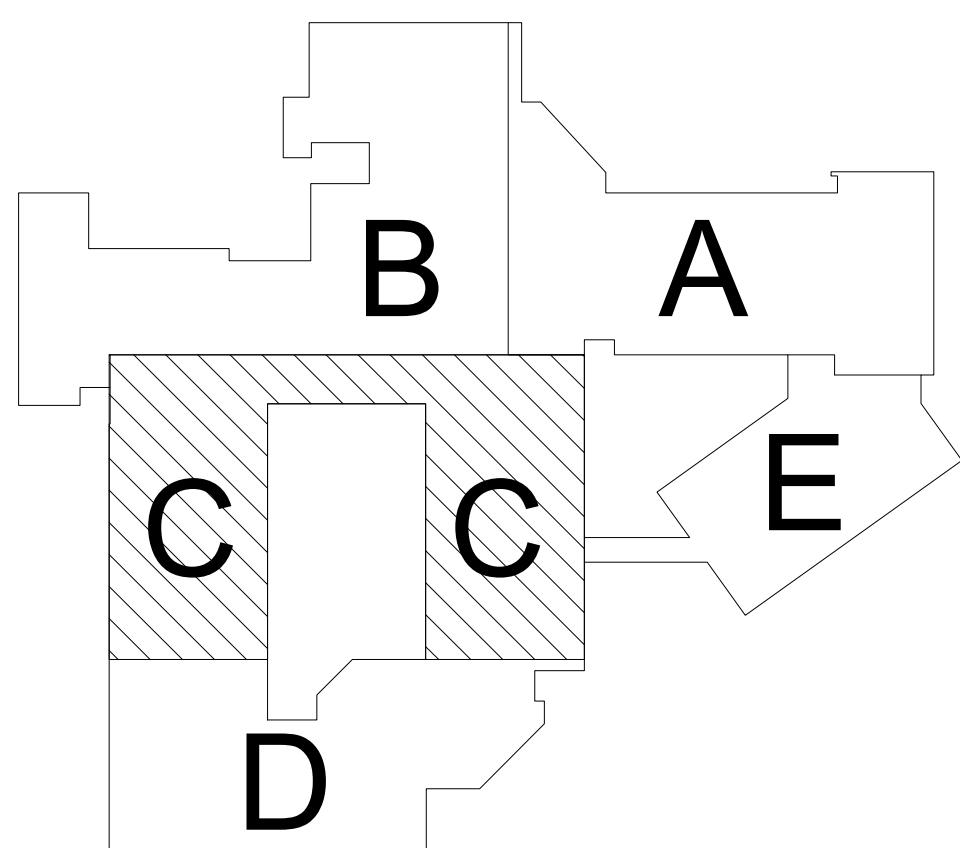
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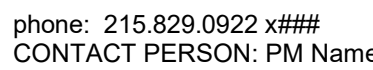
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1 FLOOR PLAN - AREA C
1/8" = 1'-0"



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West Chester Area School District
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CONTACT PERSON: Charles J. Olivo, PE

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phone: 856.310.1491
CONTACT PERSON: Brian D. McGlade, PE

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Snyder Hoffman Associates, Inc
phone: 610.694.8020
CONTACT PERSON: Jeff Machik, PE



BHA Job Number: 22-114

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Approved By: JRM

Sheet No

■

1

1

11

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phone: 215.829.0922 x###
CONTACT PERSON: PM Name

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Project:
Mary C. Howse Elementary

Project Address:
**641 Boot Road
West Chester, PA 19380**

Sheet Title:
FLOOR PLAN - AREA E

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR TO STARTING WORK
Any party who relies in part or whole on the content of these Construction Documents shall, before beginning any work, be responsible for fully inspecting the complete set of Contract Documents, including all Drawings, Specifications, and Addenda, for completeness, conflicts, scope of work, and suitability for constructing the building. All parties relying on these documents represent that they have expertise in the area of their responsibility and are knowledgeable regarding industry standards, product requirements and code requirements and therefore are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the Architect in writing. All parties who begin work hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

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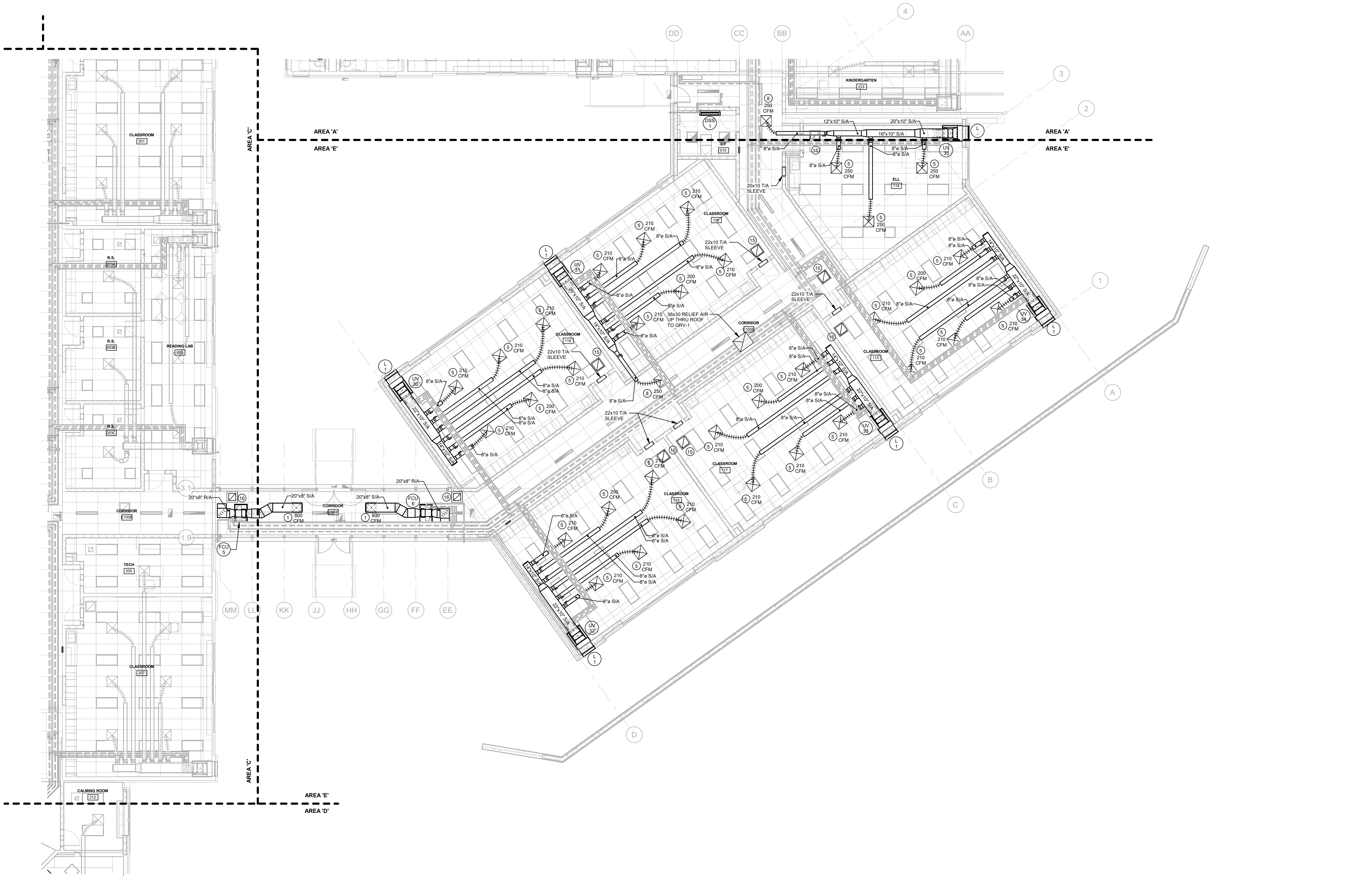
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Release	Date	Comments	Δ
	03.24.2023	SCHEMATIC DESIGN	
	05.28.2023	DESIGN DEVELOPMENT	
	07.28.2023	60% CD SET	
	09.19.2023	90% CD SET	
	10.31.2023	BID SET	

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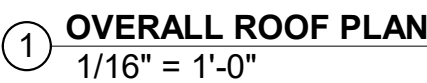
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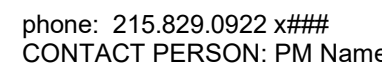
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Project:

Mary C. Howse
Elementary

Project Address:
641 Boot Road
West Chester, PA 19380

Sheet Title:

FLOOR PLAN - AREA A
- ATC & PIPING

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

TO STARTING WORK:
Any party who relies in part or whole on the content of these Construction Documents shall, before beginning work, conduct a reasonable inspection of the complete set of Contract Documents, including all Drawings, Specifications, and Addenda, for completeness, conflict of scope of work, and suitability for constructing the building. All parties relying on these documents represent that they have expertise in the area of their responsibility and that they are familiar with the project's standards, product requirements and code requirements and therefore are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the Architect in writing. By signing and submitting this, the parties hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

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Date	Comments	△
05.26.2023	DESIGN DEVELOPMENT	
07.28.2023	60% CD SET	
09.19.2023	90% CD SET	
10.31.2023	BID SET	

BHA Job Number: 22-114

Scale: As indicated

Drawn By: LSH

Checked By: JRM

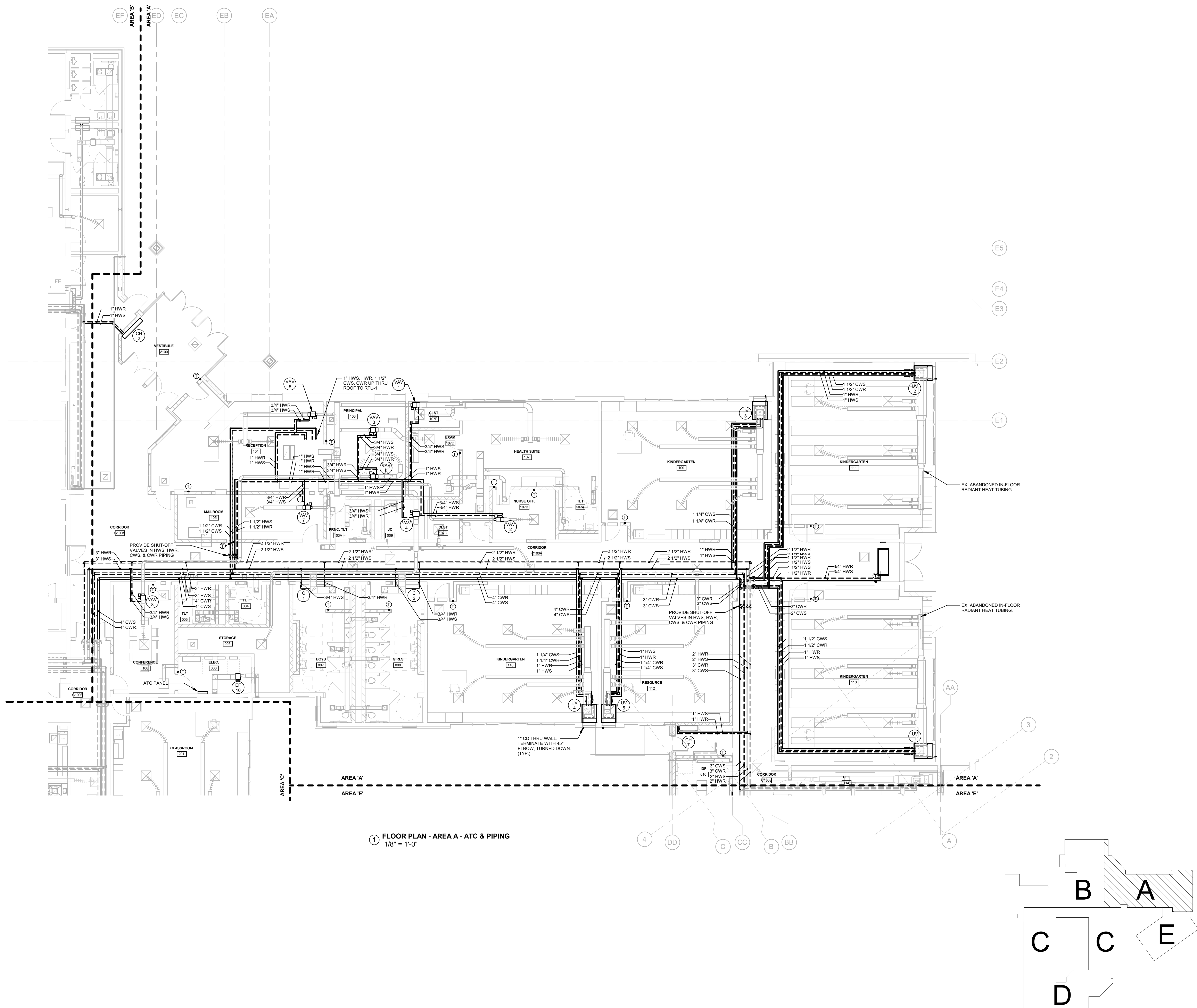
Approved By: JRM

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H3.01A

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Project:
**Mary C. Howse
Elementary**Project Address:
**641 Boot Road
West Chester, PA 19380**Sheet Title:
**FLOOR PLAN - AREA B
- ATC & PIPING**

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR TO STARTING WORK

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	06.26.2023	DESIGN DEVELOPMENT	
	07.28.2023	80% CD SET	
	09.19.2023	90% CD SET	
	10.31.2023	BID SET	

BHA Job Number: 22-114

Scale: As indicated

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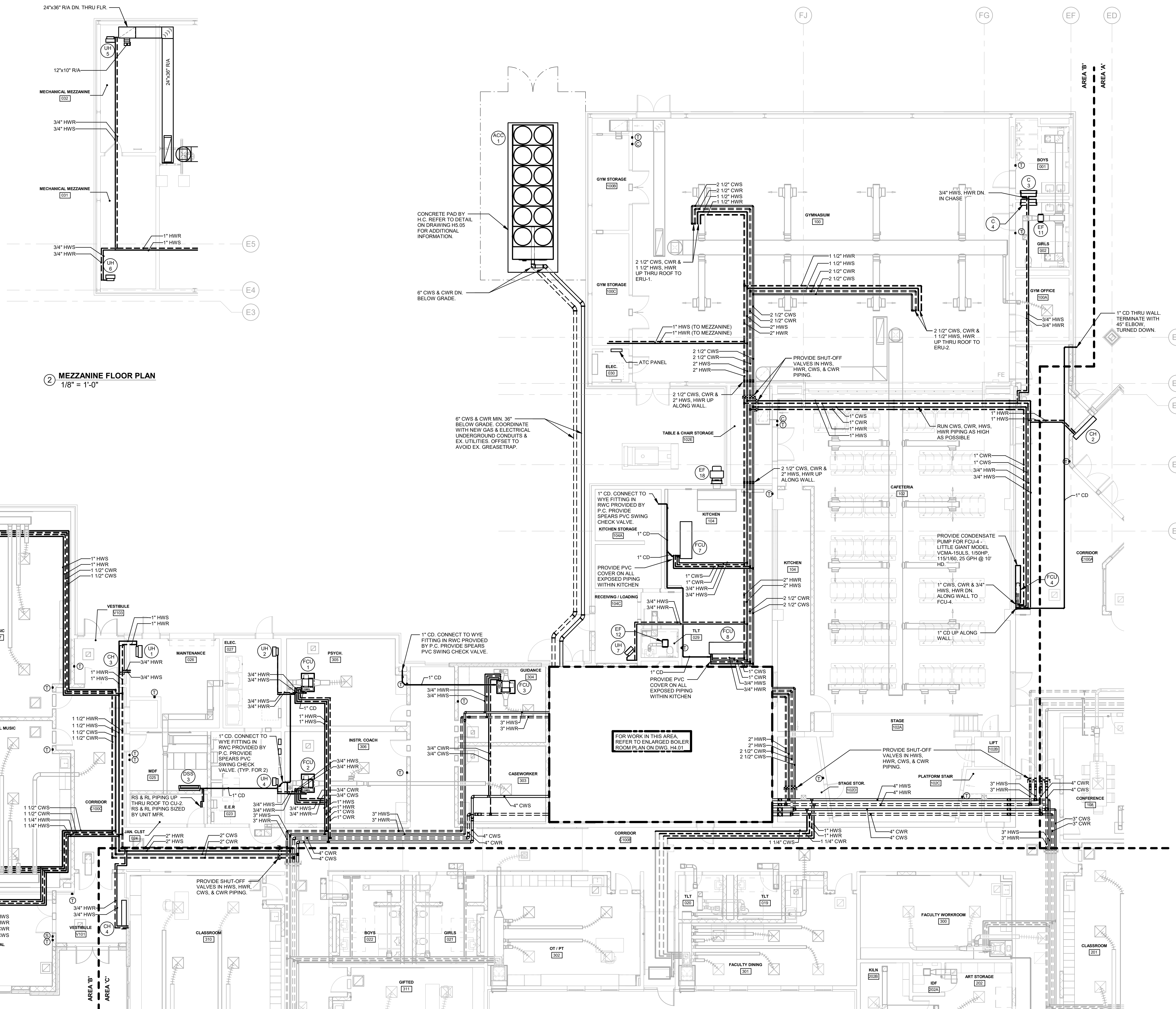
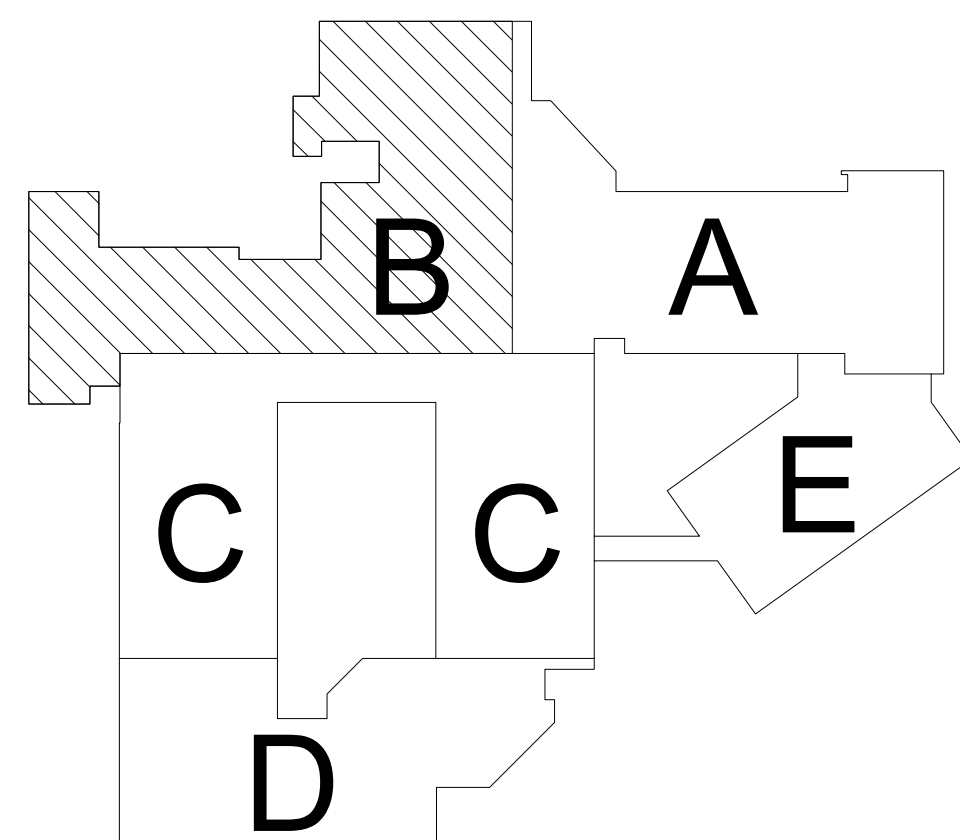
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Sheet No.

H3.01B

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**1 FLOOR PLAN - AREA B - ATC & PIPING**
1/8" = 1'-0"**2 MEZZANINE FLOOR PLAN**
1/8" = 1'-0"

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Project:
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Elementary

Project Address:
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West Chester, PA 19380

Sheet Title:
FLOOR PLAN - AREA C
- ATC & PIPING

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

TO STARTING WORK:
Any party who relies in part or whole on the content of these Construction Documents shall, before beginning any work, be responsible for fully inspecting the complete set of documents, including but not limited to Drawings, Specifications, and Addenda, for completeness, conflicts, scope of work, and suitability for constructing the building. All parties relying on these documents represent that they have expertise in the area of their responsibility and are responsible regarding industry standards, product requirements, and code requirements, and therefore are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the Architect. By signing these documents, all parties hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

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BHA Job Number: 22-114

Scale: As indicated

Drawn By: LSH

Checked By: JRM

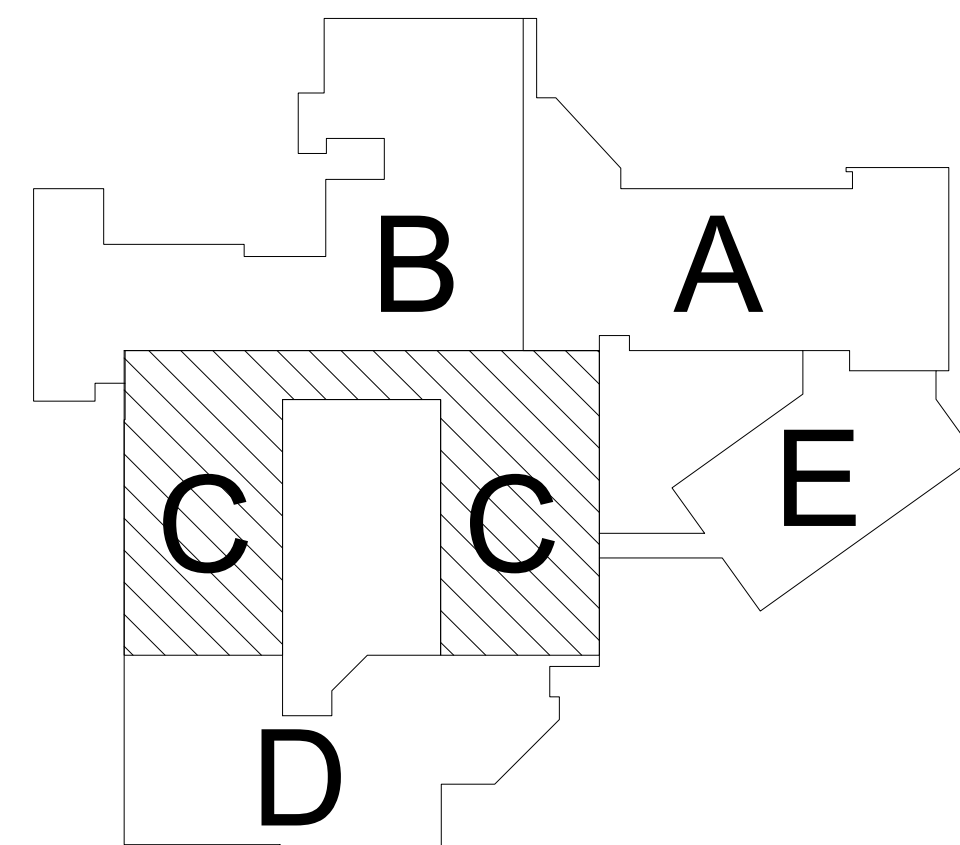
Approved By: JRM

Sheet No

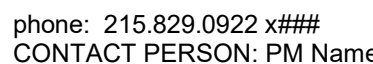
H3.01C

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① **FLOOR PLAN - AREA C - ATC & PIPING**
1/8" = 1'-0"



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West Chester Area School District
phone: 484.266.1281
CONTACT PERSON: Damon Gonzaga

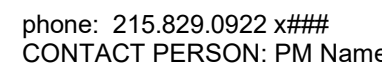
CIVIL ENGINEER
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CONTACT PERSON: Charles J. Olivo, PE

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MEP & FP
Snyder Hoffman Associates, Inc
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Project:

Mary C. Howse
Elementary

Project Address:
641 Boot Road
West Chester, PA 19380

Sheet Title:

FLOOR PLAN - AREA E
- ATC & PIPING

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

TO STARTING WORK:
Any party who relies in part or whole on the content of these Construction Documents shall, before beginning any work, be responsible for fully inspecting the complete set of these Documents, including all Drawings, Specifications, and Addenda, for completeness, conflict, scope of work, and suitability for constructing the building. All parties relying on these documents represent that they have expertise in the area of their responsibility and are knowledgeable regarding industry standards, product requirements, and building requirements and therefore are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the Architect. By signing these documents, the parties hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

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Release		
Date	Comments	△
05.26.2023	DESIGN DEVELOPMENT	
07.28.2023	60% CD SET	
09.19.2023	90% CD SET	
10.31.2023	BID SET	

BHA Job Number: 22-114

Scale: As indicated

Drawn By: LSH

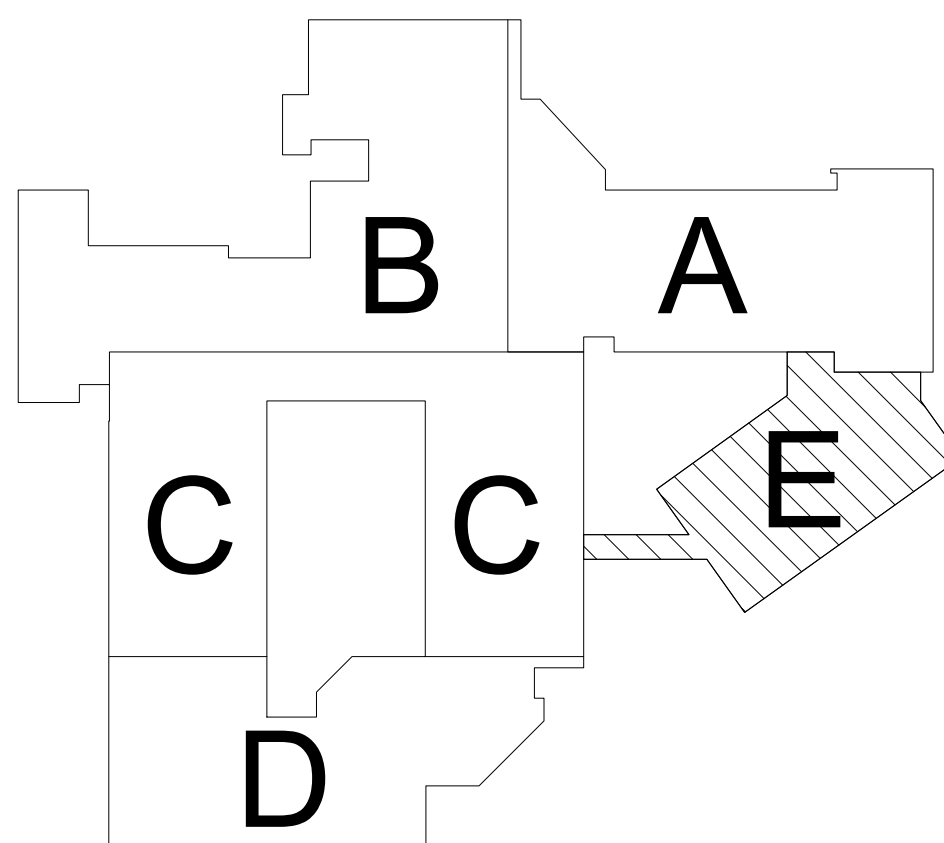
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Sheet No

H3.01E

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CONTACT PERSON: Jeff Mach



Mary C. Howse
Elementary

Project Address:
641 Boot Road
West Chester, PA 19380

Sheet Title:
ENLARGED BOILER
ROOM 028 PLAN

Seal

Any party who relies in part or whole on the content of these Construction Documents shall, before beginning any work, be responsible for fully inspecting the complete set of Contract Documents, including all Drawings, Specifications, and Addenda, for completeness, conflicts, omissions, and errors, and for determining the proper scope of work, and suitability for constructing the building. All parties relying on these documents represent and warrant that they have expertise in the area of their responsibility and are knowledgeable regarding industry standards, product requirements and code requirements and that they are qualified to fully evaluate and interpret the Construction Documents. All parties relying on these documents warrant that they have begun and will continue to make diligent efforts to identify and resolve all requests for clarifications or additional information to the Architect in writing. All parties who begin work hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

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[illegible]

Scale: $1/4" = 1'-0"$

Checked By: JRM

Sheet No. _____

■

H4.01

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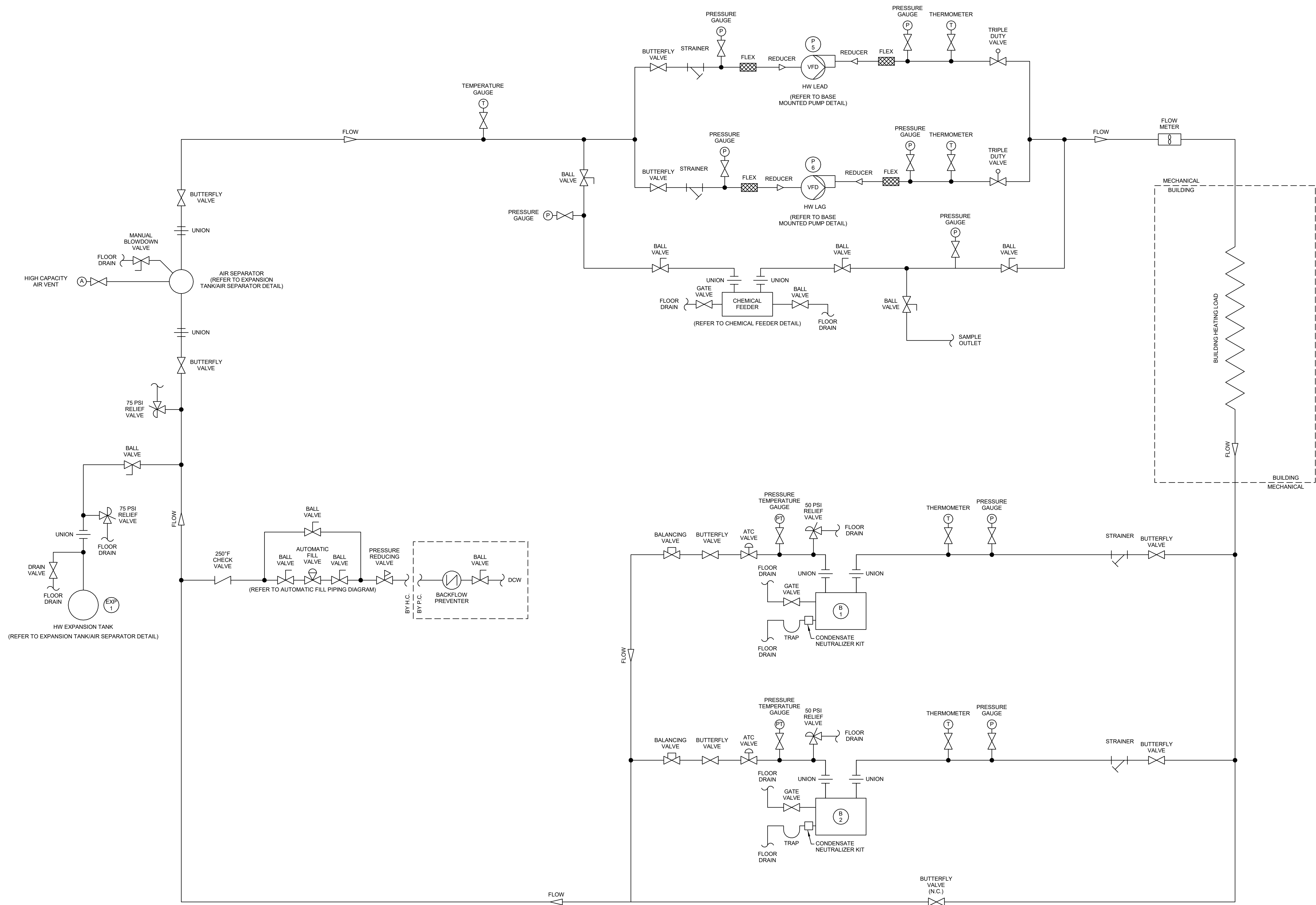
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Project:
Mary C. Howse
Elementary

Project Address:
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West Chester, PA 19380

Sheet Title:
HOT WATER PLANT
SCHEMATIC

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

TO STARTING WORK:
Any party who relies in part or whole on the content of the Contract Documents shall, before beginning any work, be responsible for fully inspecting the complete set of Contract Documents, including all Drawings, Specifications, and Addenda, for completeness, conflicts, scope of work, and suitability for constructing the building. All parties relying on these documents represent and warrant that they are experts in their responsibility and have adequate knowledge regarding industry standards, product requirements and code requirements and therefore are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarification and additional information to the Architect in writing. All parties to the work hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

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Release		
Date	Comments	
23.24.2023	SCHEMATIC DESIGN	△
05.26.2023	DESIGN DEVELOPMENT	
07.28.2023	60% CD SET	
09.19.2023	90% CD SET	
0.31.2023	BID SET	

BHA Job Number: 22-114

Scale:

Drawn By: LSH

Checked By: JRM

Approved By: JRM

Sheet No.

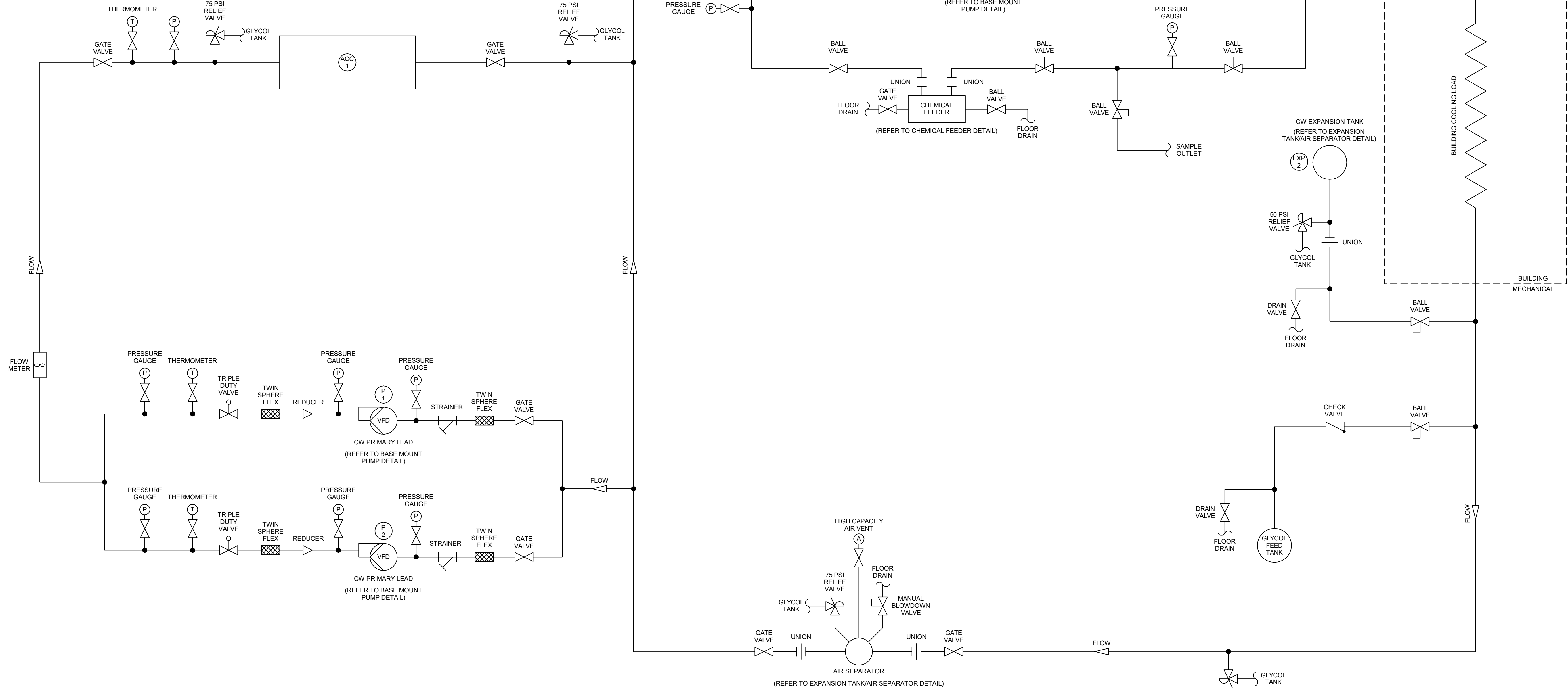
H5.01

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STRUCTURAL ENGINEER
Baker, Ingram & Associates
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CONTACT PERSON: Brian D. McGlade, PE



Project Address:
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West Chester, PA 19380

CHILLED WATER PLAN SCHEMATIC

Sea

TO STARTING WORK:
Any party who relies in part or whole on the content of these Construction Documents shall, before beginning work, make a diligent and full inspection of the complete set of Contract Documents, including all Drawings, Specifications, and Addenda, for completeness, conflicts of scope of work, and suitability for constructing the building. All parties relying on these documents represent and warrant their expertise in the area of their responsibility and acknowledge their responsibility for understanding and applying all applicable building codes, standards, product requirements and code requirements and that therefore are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarification or change in writing to the Architect in writing. All parties who begin work hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

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[illegible]

Scale:

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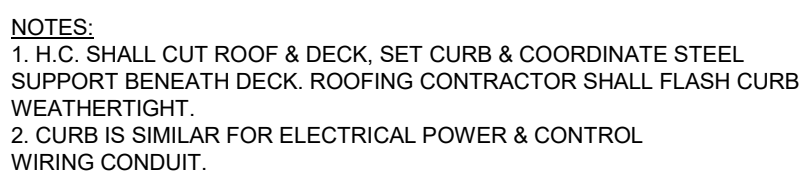
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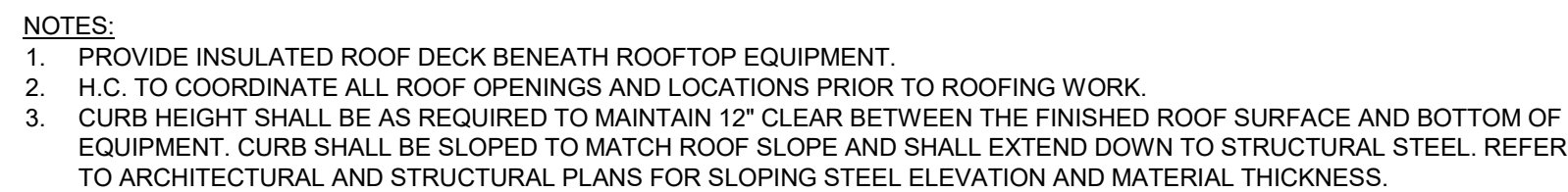
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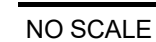
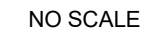
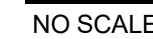
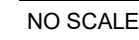
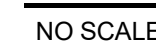
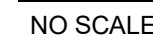
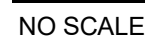
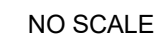
NOT FOR CONSTRUCTION

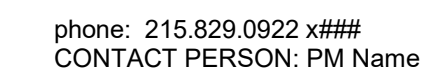
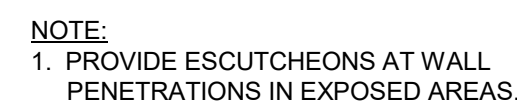
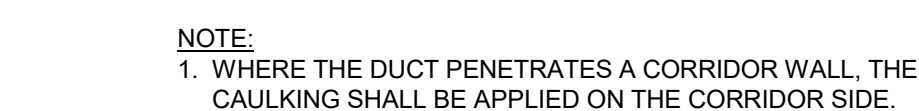
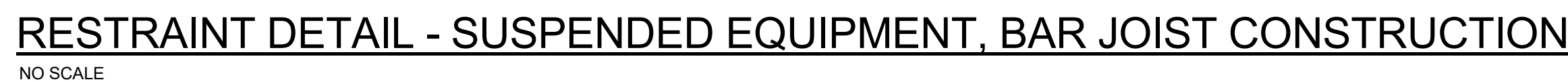


NO SCALE



NO SCALE





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phone: 610.694.8020
CONTACT PERSON: Jeff Machik, PE

Project:
Mary C. Howse
Elementary

Project Address:
641 Boot Road
West Chester, PA 19380

Sheet Title:

DETAILS

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR TO STARTING WORK:
Any party who relies in part or whole on the content of these Construction Documents shall, before beginning any work, be responsible for fully inspecting the complete set of the Construction Documents, including the Specifications, and Addenda, for completeness, conflicts, scope of work, and suitability for constructing the building. All parties relying on these documents represent that they are experienced in the area of their responsibility and are knowledgeable regarding industry standards, product requirements and code requirements and therefore are qualified to fully evaluate and interpret the Construction Documents. After reviewing the Construction Documents, prior to beginning work, submit all requests for clarifications and additional information to the Architect in writing. All parties who begin work hereby certify that the documents are suitable for the intended purposes noted in specific written exception beforehand.

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BHA Job Number: 22-114

Scale:

Drawn By: I SH

Checked By: JRM

Approved By: JRM

Sheet No.

H5.05

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phone: 215.829.0922 x####
CONTACT PERSON: PM Name

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Project:

Mary C. Howse
Elementary

Project Address:
641 Boot Road
West Chester, PA 19380

Sheet Title:

DETAILS

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

TO STARTING WORK:
Any party who relies in part or whole on the content of these Construction Documents shall, before beginning and during the course of inspecting the complete set of Contract Documents, including all Drawings, Specifications, and Addenda, for completeness, conflicts of scope of work, and suitability for constructing the building. All parties relying on these documents represent that they have expertise in the area of their responsibility and are responsible to the parties who are bound, product requirements and code requirements and therefore are qualified to fully evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the architect in writing. The parties who are bound hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

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BHA Job Number: 22-114

Scale

Drawn By: LSH

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UN #		UN = UNIT VENTILATOR # = MARK		VERTICAL CLASSROOM UNIT VENTILATOR SCHEDULE																																
TAG NO.	AREA SERVED	MFR.	MODEL	CFM	ESP"	MIN. O/A CFM	LOUVER L x W	CW COOLING COIL										HW HEATING COIL										SUPPLY FAN			FILTER	OPERATING WEIGHT	FLA	MCA	MOP	NOTES
								EAT°F		LAT°F		SENS TOTAL MBH		EWT°F	LWT°F	GPM	PSI	ROWS	EAT°F		LAT°F		SENS TOTAL MBH		EWT°F	LWT°F	GPM	PSI	ROWS	CFM						
DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	DB	WB						DB	WB	DB	WB	DB	WB							DB	WB	DB	WB	DB	WB
UV-1	KINDERGARTEN 113	AIREDALE	UVV60	1500	0.50	425	32x16	79.8	66.7	55.0	53.6	40.32	60.06	42.0	51.0	13.40	7.04	6	51.6	90.0	64.56	140.0	120.2	6.80	3.76	1	1500	3/4	120/160	MERV-13	759 LBS	11.10	13.50	20	1-10,12,17	
UV-2	KINDERGARTEN 111	AIREDALE	UVV60	1500	0.50	425	32x16	79.8	66.7	55.0	53.6	40.32	60.06	42.0	51.0	13.40	7.04	6	51.6	90.0	64.56	140.0	120.2	6.80	3.76	1	1500	3/4	120/160	MERV-13	759 LBS	11.10	13.50	20	1-10,12,17	
UV-3	KINDERGARTEN 109	AIREDALE	UVV50	1250	0.50	425	32x16	80.8	67.4	55.0	53.7	34.94	52.69	42.0	50.6	12.20	5.92	6	47.9	90.0	59.34	140.0	119.4	6.00	2.90	1	1250	1/2	120/160	MERV-13	759 LBS	7.70	9.20	15	1-10,13,17	
UV-4	KINDERGARTEN 110	AIREDALE	UVV50	1250	0.50	425	32x16	80.8	67.4	55.0	53.7	34.94	52.69	42.0	50.6	12.20	5.92	6	47.9	90.0	59.34	140.0	119.4	6.00	2.80	1	1250	1/2	120/160	MERV-13	759 LBS	7.70	9.20	15	1-10,13,17	
UV-5	RESOURCE 112, CORRIDOR C100A	AIREDALE	UVV40	1000	0.50	320	32x16	80.4	67.2	55.0	53.5	27.55	42.10	42.0	51.2	9.20	3.58	6	49.2	90.1	46.01	140.0	113.4	3.60	0.71	1	1000	1/2	120/160	MERV-13	759 LBS	7.70	9.20	15	1-10,13,17	
UV-6	MUSIC 307	AIREDALE	UVV60	1500	0.50	450	32x16	80.1	66.9	55.0	53.6	40.78	61.04	42.0	51.0	13.60	7.23	6	50.5	90.1	66.59	140.0	121.0	7.30	4.43	1	1500	3/4	120/160	MERV-13	759 LBS	11.10	13.50	20	1-10,13	
UV-7	INSTRUMENTAL MUSIC 308, CORRIDOR C100C	AIREDALE	UVV60	1500	0.50	450	32x16	80.1	66.9	55.0	53.6	40.78	61.04	42.0	51.0	13.60	7.23	6	50.5	90.1	66.59	140.0	121.0	7.30	4.43	1	1500	3/4	120/160	MERV-13	759 LBS	11.10	13.50	20	1-10,13	
UV-8	CLASSROOM 310	AIREDALE	UVV50	1250	0.50	410	32x16	80.6	67.3	55.0	53.7	34.78	52.41	42.0	50.6	12.20	5.92	6	48.7	90.0	58.09	140.0	118.8	5.70	2.47	1	1250	1/2	120/160	MERV-13	759 LBS	7.70	9.20	15	1-10,13	
UV-9	CLASSROOM 312	AIREDALE	UVV50	1250	0.50	410	32x16	80.6	67.3	55.0	53.7	34.78	52.41	42.0	50.6	12.20	5.92	6	48.7	90.0	58.09	140.0	118.8	5.70	2.47	1	1250	1/2	120/160	MERV-13	759 LBS	7.70	9.10	15	1-10,13	
UV-10	CLASSROOM 314	AIREDALE	UVV50	1250	0.50	410	32x16	80.6	67.3	55.0	53.7	34.78	52.41	42.0	50.6	12.20	5.92	6	48.7	90.0	58.09	140.0	118.8	5.70	2.47	1	1250	1/2	120/160	MERV-13	759 LBS	7.70	9.20	15	1-10,13	
UV-11	CLASSROOM 316	AIREDALE	UVV50	1250	0.50	410	32x16	80.6	67.3	55.0	53.7	34.78	52.41	42.0	50.6	12.20	5.92	6	48.7	90.0	58.09	140.0	118.8	5.70	2.47	1	1250	1/2	120/160	MERV-13	759 LBS	7.70	9.20	15	1-10,13	
UV-12	OT/P 302, CORRIDOR C100B	AIREDALE	UVV40	1000	0.50	190	32x16	78.2	65.5	55.0	53.5	25.18	36.08	42.0	51.3	7.80	2.69	6	57.7	90.1	35.84	140.0	108.9	2.40	0.16	1	1000	1/2	120/160	MERV-13	759 LBS	7.70	9.20	15	1-11	
UV-13	GIFTED 311, CORRIDOR C100B	AIREDALE	UVV40	1000	0.50	260	32x16	79.4	66.4	55.0	53.5	26.43	39.13	42.0	51.2	8.50	3.12	6	53.1	90.2	41.40	140.0	111.2	3.00	0.39	1	1000	1/2	120/160	MERV-13	759 LBS	7.70	9.20	15	1-10,13	
UV-14	RESOURCE 313	AIREDALE	UVV40	1000	0.50	260	32x16	79.4	66.4	55.0	53.5	26.43	39.13	42.0	51.2	8.50	3.12	6	53.1	90.2	41.40	140.0	111.2	3.00	0.39	1	1000	1/2	120/160	MERV-13	759 LBS	7.70	9.20	15	1-10,13	
UV-15	CLASSROOM 315	AIREDALE	UVV50	1250	0.50	410	32x16	80.6	67.3	55.0	53.7	34.78	52.41	42.0	50.6	12.20	5.92	6	48.7	90.0	58.09	140.0	118.8	5.70	2.47	1	1250	1/2	120/160	MERV-13	759 LBS	7.70	9.20	15	1-10,13	
UV-16	CLASSROOM 317, CORRIDOR C100B	AIREDALE	UVV60	1500	0.50	460	32x16	80.2	67.0	55.0	53.6	40.95	61.57	42.0	51.0	13.70	7.33	6	50.1	90.1	67.36	140.0	121.3	7.50	4.70	1	1500	3/4	120/160	MERV-13	759 LBS	11.10	13.50	20	1-10,13	
UV-17	FACULTY, DINING 301 CORRIDOR C100B	AIREDALE	UVV40	1000	0.50	260	32x16	79.4	66.4	55.0	53.5	26.43	39.13	42.0	51.2	8.50	3.12	6	53.1	90.2	41.40	140.0	111.2	3.00	0.39	1	1000	1/2	120/160	MERV-13	759 LBS	7.70	9.20	15	1-11	
UV-18	FACULTY WORKROOM 300, CORRIDOR C100B	AIREDALE	UVV30	750	0.50	150	OAI-7	78.4	65.6	55.0	54.0	19.08	26.35	42.0	55.5	3.90	0.94	6	57.0	90.8	28.08	140.0	107.5	1.80	0.02	1	750	1/2	120/160	MERV-13	759 LBS	7.70	9.20	15	1,2,4-9,11,16	
UV-19	ART ROOM 204, KILN 202B, ART STORAGE 202	AIREDALE	UVV60	1500	0.50	520	32x16	80.9	67.5	55.0	53.5	42.09	64.48	42.0	51.0	14.30	7.93	6	47.5	90.1	72.20	140.0	123.1	8.90	6.85	1	1500	3/4	120/160	MERV-13	759 LBS	11.10	13.50	20	1-10,13	
UV-20	CLASSROOM 206, CORRIDOR C100B	AIREDALE	UVV60	1500	0.50	450	32x16	80.1	66.9	55.0	53.6	40.78	61.04	42.0	51.0	13.60	7.23	6	50.5	90.1	66.59	140.0	121.0	7.30	4.43	1	1500	3/4	120/160	MERV-13	759 LBS	11.10	13.50	20	1-10,13	
UV-21	CLASSROOM 208	AIREDALE	UVV50	1250	0.50	410	32x16	80.6	67.3	55.0	53.7	34.78	52.41	42.0	50.6	12.20	5.92	6	48.7	90.0	58.09	140.0	118.8	5.70	2.47	1	1250	1/2	120/160	MERV-13	759 LBS	7.70	9.20	15	1-10,13	
UV-22	CLASSROOM 201	AIREDALE	UVV50	1250	0.50	410	32x16	80.6	67.3	55.0	53.7	34.78	52.41	42.0	50.6	12.20	5.92	6	48.7	90.0	58.09	140.0	118.8	5.70	2.47	1	1250	1/2	120/160	MERV-13	759 LBS	7.70	9.20	15	1-10,13	
UV-23	READING LAB 203	AIREDALE	UVV30	750	0.50	180	32x16	79.1	66.1	55.0	53.9	19.61	27.73	42.0	54.3	4.50	1.14	6	54.4	90.8	30.42	140.0	108.3	2.00	0.06	1	750	1/2	120/160	MERV-13	759 LBS	7.70	9.20	15	1-10,13	
UV-24	CLASSROOM 207, TECH 205	AIREDALE	UVV60	1500	0.50	450	32x16	80.1	66.9	55.0	53.6	40.78	61.04	42.0	51.0	13.60	7.23	6	50.5	90.1	66.59	140.0	121.0	7.30	4.43	1	1500	3/4	120/160	MERV-13	759 LBS	11.10	13.50	20	1-10,13	
UV-25	CLASSROOM 319	AIREDALE	UVV50	1250	0.50	410	32x16	80.6	67.3	55.0	53.7	34.78	52.41	42.0	50.6	12.20	5.92	6	48.7	90.0	58.09	140.0	118.8	5.70	2.47	1	1250	1/2	120/160	MERV-13	759 LBS	7.70	9.20	15	1-10,13	
UV-26	CLASSROOM 318	AIREDALE	UVV50	1250	0.50	410	32x16	80.6	67.3	55.0	53.7	34.78	52.41	42.0	50.6	12.20	5.92	6	48.7	90.0	58.09	140.0	118.8	5.70	2.47	1	1250	1/2	120/160	MERV-13	759 LBS	7.70	9.20	15	1-10,13	
UV-27	CLASSROOM 320	AIREDALE	UVV60	1500	0.50	410	32x16	79.6	66.6	55.0	53.5	40.11	59.81	42.0	50.9	13.40	7.04	6	52.2	90.0	63.36	140.0	119.7	6.50	3.39	1	1500	3/4	120/160	MERV-13	759 LBS	11.10	13.50	20	1-10,13	
UV-28	CLASSROOM 321	AIREDALE	UVV50	1500	0.50	410	32x16	80.6	67.3	55.0	53.7	34.78	52.41	42.0	50.6	12.20	5.92	6	48.7	90.0	58.09	140.0	118.8	5.70	2.47	1	1250	1/2	120/160	MERV-13	759 LBS	7.70	9.20	15	1-10,13	
UV-29	RESOURCE 209, CORRIDOR C100D	AIREDALE	UVV50	1250	0.50	330	32x16	79.5	66.4	55.0	53.7	33.16	48.15	42.0	50.7	11.10	4.99	6	52.8	90.0	51.92	140.0	115.4	4.40	1.27	1	1250	1/2	120/160	MERV-13	759 LBS	7.70	9.20	15	1-10,11	
UV-30	CLASSROOM 118	AIREDALE	UVV50	1250	0.50	410	32x16	80.6	67.3	55.0	53.7	34.78	52.41	42.0	50.6	12.20	5.92	6	48.7	90.0	58.09	140.0	118.8	5.70	2.47	1	1250	1/2	120/160	MERV-13	759 LBS	7.70	9.20	15	1-10,14	
UV-31	CLASSROOM 116	AIREDALE	UVV50	1500	0.50	410	32x16	80.6	67.3	55.0	53.7	34.78	52.41	42.0	50.6	12.20	5.92	6	48.7	90.0	58.09	140.0	118.8	5.70	2.47	1	1250	1/2	120/160	MERV-13	759 LBS	7.70	9.20	15	1-10,14	
UV-32	CLASSROOM 119, CORRIDOR C100E	AIREDALE	UVV60	1500	0.50	450	32x16	80.1	66.9	55.0	53.6	40.78	61.04	42.0	51.0	13.60	7.23	6	50.5	90.1	66.59	140.0	121.0	7.30	4.43	1	1500	3/4	120/160	MERV-13	759 LBS	11.10	13.50	20	1-10,14	
UV-33	CLASSROOM 117	AIREDALE	UVV50	1250	0.50	410	32x16	80.6	67.3	55.0	53.7	34.78	52.41	42.0	50.6	12.20	5.92	6	48.7	90.0	58.09	140.0	118.8	5.70	2.47	1	1250	1/2	120/160	MERV-13	759 LBS	7.70	9.20	15	1-10,14	
UV-34	CLASSROOM 115	AIREDALE	UVV50	1250	0.50	410	32x16	80.6	67.3	55.0	53.7	34.78	52.41	42.0	50.6	12.20	5.92	6	48.7	90.0	58.09	140.0	118.8	5.70	2.47	1	1250	1/2	120/160	MERV-13	759 LBS	7.70	9.20	15	1-10,14	
UV-35	ELL 114, CORRIDOR C100E	AIREDALE	UVV40	1000	0.50	450	32x16	82.7	68.9	55.0	53.4	30.05	48.40	42.0	51.1	10.6	4.59	6	40.8	90.1	56.36	140.0	118.7	5.50												

NOTES:

1. OUTSIDE SUMMER DESIGN: 92°DB, 75°WB. ROOM DESIGN: 75°DB, 50% RH.
2. OUTSIDE WINTER DESIGN: 11°DB. ROOM DESIGN: 70°DB.
3. PROVIDE TRAPPED CONDENSATE DRAIN THROUGH EXTERIOR WALL TO GRADE.
4. FURNISH THREE SETS 1" THICK PLEATED FILTERS.
5. FACTORY PIPING PACKAGE TO INCLUDE PT PLUGS, AIR VENT, DRAIN WITH HOSE BIB, TWO SHUT-OFF VALVES, A CIRCUIT SETTER AND STRAINER. THE UNIT VENTILATOR MANUFACTURER WILL FACTORY MOUNT THE ATC VALVES (PROVIDED BY THE ATC SUBCONTRACTOR). THE ATC VALVES ARE NOT PROVIDED BY THE UNIT VENTILATOR MANUFACTURER.
6. PROVIDE FACTORY PAINTED TRIM PIECES BETWEEN UNIT AND EXISTING WALL. TRIM PIECES TO BE CUT IN FIELD FOR EACH UNIT. SEE PLANS AND SECTIONS. WHERE REQUIRED, CONTRACTOR SHALL FABRICATE ENCLOSURES TO SAFE OFF UNITS TO STRUCTURE.
7. PROVIDE DISCONNECT SWITCH.
8. PROVIDE 4 PIPE SYSTEM WITH ECONOMIZER. CHILLED WATER SHALL CONTAIN 25% PROPYLENE GLYCOL.
9. PROVIDE 11" REAR EXHAUST BY UNIT MANUFACTURER.
10. CONTRACTOR SHALL COORDINATE LOUVER MOUNTING HEIGHT IN FIELD.
11. PROVIDE 6" HIGH 3-SIDED DISCHARGE SHROUD. FIELD VERIFY HEIGHT REQUIRED TO CONCEAL PIPING AND DUCT TO CEILING.
12. PROVIDE 14" HIGH 3-SIDED DISCHARGE SHROUD. FIELD VERIFY HEIGHT REQUIRED TO CONCEAL PIPING AND DUCT TO CEILING.
13. PROVIDE 18" HIGH 3-SIDED DISCHARGE SHROUD. FIELD VERIFY HEIGHT REQUIRED TO CONCEAL PIPING AND DUCT TO CEILING.
14. PROVIDE 24" HIGH 3-SIDED DISCHARGE SHROUD. FIELD VERIFY HEIGHT REQUIRED TO CONCEAL PIPING AND DUCT TO CEILING.
15. PROVIDE 2-WAY ACOUSTICALLY LINED DISCHARGE PLENUM WITH 30x10 DIFFUSER ON THE FRONT AND 14x10 DIFFUSER ON THE LEFT SIDE.
16. PROVIDE CONDENSATE PUMP, LITTLE GIANT MODEL VCM4MAL-S, 150 GPD @ 1151/60, 25 GPM @ 10' HD.
17. UNIT SHALL BE PRE-PURCHASED BY THE SCHOOL DISTRICT AND TURNED OVER TO THIS CONTRACTOR FOR DELIVERY ACCEPTANCE AND INSTALLATION. THE INFORMATION ABOVE IS FOR REFERENCE ONLY.

4

U

CFM

= TAG
V = VOLUME

GRILLE, REGISTER, & DIFFUSER SCHEDULE

TAG	MFR	MODEL	SIZE	PATTERN	TYPE	MOUNT	FINISH	MAX N.C.	NOTES
1	TITUS	TDC	18x18	2-WAY OPPOSITE	SUPPLY	LAY-IN	BWE	25	1
2	TITUS	TDC	12x12x12" DIA. NECK	4-WAY	SUPPLY	LAY-IN	BWE	25	1
3	TITUS	TDC	12x12x10" DIA. NECK	4-WAY	SUPPLY	LAY-IN	BWE	25	1
4	TITUS	TDC	12x12x10" DIA. NECK	2-WAY CORNER	SUPPLY	LAY-IN	BWE	25	1
5	TITUS	TDC	12x12x8" DIA. NECK	4-WAY	SUPPLY	LAY-IN	BWE	25	1
6	TITUS	TDC	12x12x8" DIA. NECK	3-WAY	SUPPLY	LAY-IN	BWE	25	1
7	TITUS	TDC	12x12x8" DIA. NECK	2-WAY CORNER	SUPPLY	LAY-IN	BWE	25	1
8	TITUS	TDC	12x12x8" DIA. NECK	2-WAY OPPOSITE	SUPPLY	LAY-IN	BWE	25	1
9	TITUS	TDC	9x9x6" DIA. NECK	4-WAY	SUPPLY	LAY-IN	BWE	25	1
10	TITUS	TDC	6x6x6" DIA. NECK	4-WAY	SUPPLY	LAY-IN	BWE	25	1
11	TITUS	TDC	6x6x6" DIA. NECK	3-WAY	SUPPLY	LAY-IN	BWE	25	1
12	TITUS	TDC	6x6x6" DIA. NECK	1-WAY	SUPPLY	LAY-IN	BWE	25	1
13	TITUS	301RL	18x6	SINGLE DEFLECTION	SUPPLY	SURFACE	BWE	25	1
14	TITUS	301RL	14x6	SINGLE DEFLECTION	SUPPLY	SURFACE	BWE	25	1
15	TITUS	350RL	20x20	3/4" BLADE SPACING 35° DEFLECTION	RETURN, EXHAUST, TRANSFER	LAY-IN	BWE	25	1
16	TITUS	350RL	16x16	3/4" BLADE SPACING 35° DEFLECTION	RETURN, EXHAUST, TRANSFER	LAY-IN	BWE	25	1
17	TITUS	350RL	14x14	3/4" BLADE SPACING 35° DEFLECTION	RETURN, EXHAUST, TRANSFER	LAY-IN	BWE	25	1
18	TITUS	350RL	14x14	3/4" BLADE SPACING 35° DEFLECTION	RETURN, EXHAUST, TRANSFER	SURFACE	BWE	25	1
19	TITUS	350RL	12x12	3/4" BLADE SPACING 35° DEFLECTION	RETURN, EXHAUST, TRANSFER	LAY-IN	BWE	25	1
20	TITUS	350RL	12x12	3/4" BLADE SPACING 35° DEFLECTION	RETURN, EXHAUST, TRANSFER	SURFACE	BWE	25	1
21	TITUS	350RL	10x10	3/4" BLADE SPACING 35° DEFLECTION	RETURN, EXHAUST, TRANSFER	LAY-IN	BWE	25	1
22	TITUS	350RL	10x10	3/4" BLADE SPACING 35° DEFLECTION	RETURN, EXHAUST, TRANSFER	SURFACE	BWE	25	1
23	TITUS	350RL	8x8	3/4" BLADE SPACING 35° DEFLECTION	RETURN, EXHAUST, TRANSFER	LAY-IN	BWE	25	1
24	TITUS	350RL	8x8	3/4" BLADE SPACING 35° DEFLECTION	RETURN, EXHAUST, TRANSFER	SURFACE	BWE	25	1
25	TITUS	350RL	6x6	3/4" BLADE SPACING 35° DEFLECTION	RETURN, EXHAUST, TRANSFER	SURFACE	BWE	25	1
26	TITUS	350RL	18x6	3/4" BLADE SPACING 35° DEFLECTION	RETURN, EXHAUST, TRANSFER	SURFACE	BWE	25	1
27	TITUS	350RL	14x8	3/4" BLADE SPACING 35° DEFLECTION	RETURN, EXHAUST, TRANSFER	SURFACE	BWE	25	1
28	TITUS	350RL	14x6	3/4" BLADE SPACING 35° DEFLECTION	RETURN, EXHAUST, TRANSFER	SURFACE	BWE	25	1
29	TITUS	350RL	12x6	3/4" BLADE SPACING 35° DEFLECTION	RETURN, EXHAUST, TRANSFER	SURFACE	BWE	25	1
30	TITUS	350RL	8x4	3/4" BLADE SPACING 35° DEFLECTION	RETURN, EXHAUST, TRANSFER	SURFACE	BWE	25	1
31	TITUS	350RL-HD	24x72	3/4" BLADE SPACING 35° DEFLECTION	RETURN, EXHAUST, TRANSFER	SURFACE	BWE	25	1
32	TITUS	350RL-HD	30x48	3/4" BLADE SPACING 35° DEFLECTION	RETURN, EXHAUST, TRANSFER	SURFACE	BWE	25	1

NOTES:

1. PROVIDE BORDERS COMPATIBLE WITH ADJACENT SURFACES AND CEILING FINISHES



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Mary C. Howse
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SCHEDULES

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR TO STARTING WORK:
Any party who relies in part or whole on the content of any construction documents shall, before beginning any work, be responsible for fully inspecting the complete set of Contract Documents, including all Drawings, Specifications, and Addenda, for completeness, conflicts, scope of work, and suitability for constructing the project. Each party shall be deemed to represent that they have expertise in the area of their responsibility and are knowledgeable regarding industry standards, product requirements and code requirements and shall be responsible for identifying and interpreting the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the architect in writing. All parties shall be deemed to hereby certify that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

Warning: Actual conditions may vary from conditions shown on this drawing. Confirm all information in the field before proceeding with any work and notify the Architect in writing if a variation is discovered.

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Date	Comments	△
03.24.2023	SCHEMATIC DESIGN	
05.26.2023	DESIGN DEVELOPMENT	
07.28.2023	60% CD SET	
09.19.2023	90% CD SET	
10.31.2023	BID SET	

BHA Job Number: 22-114

Scale:

Drawn By: LSH

Checked By: JRM

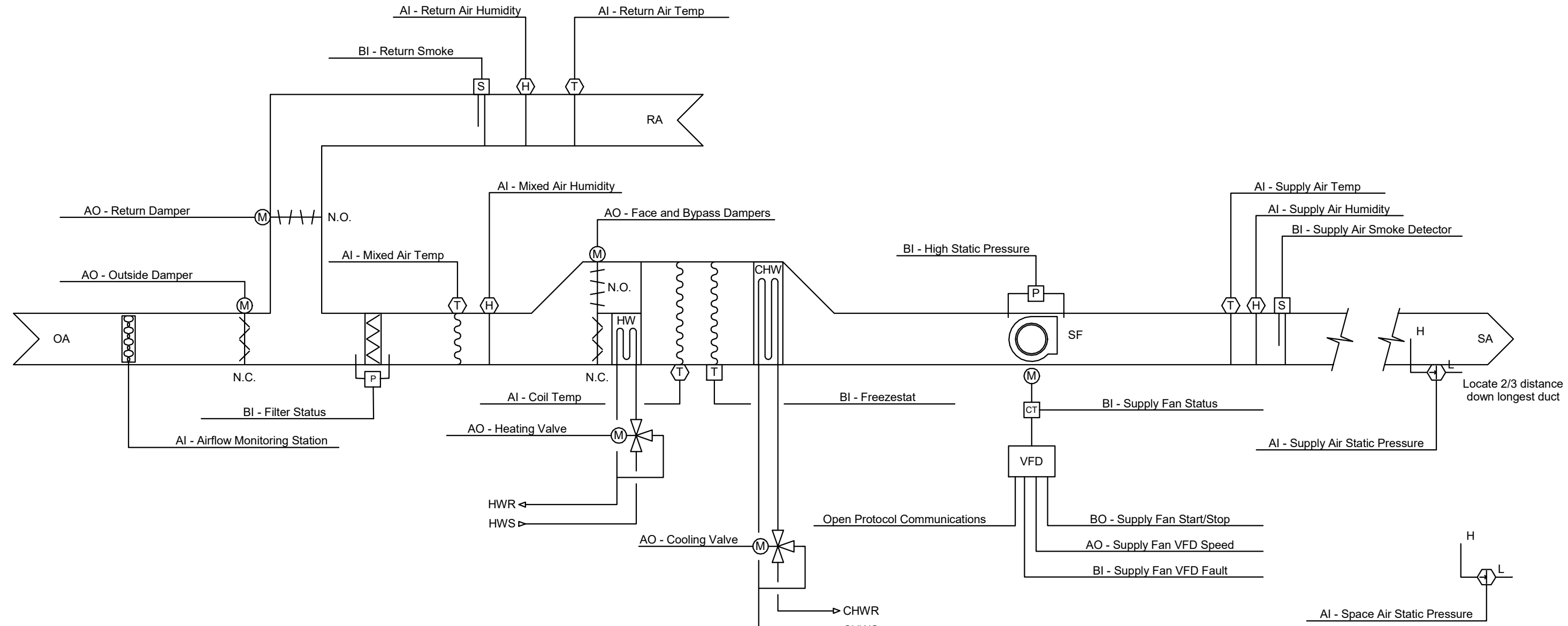
Approved By: JRM

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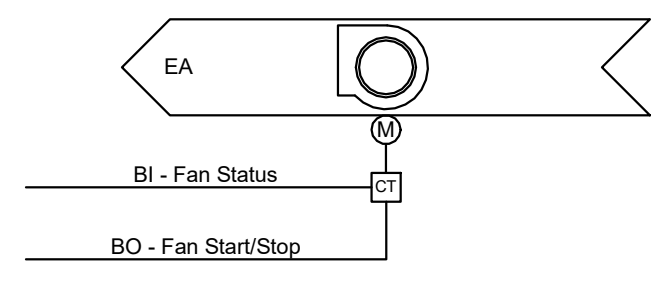
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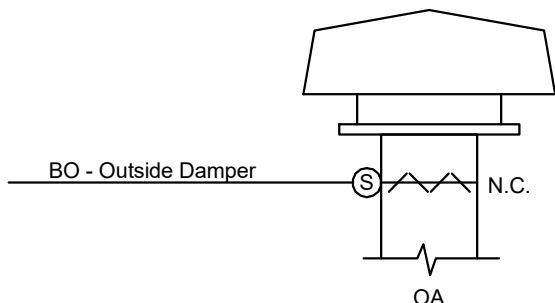
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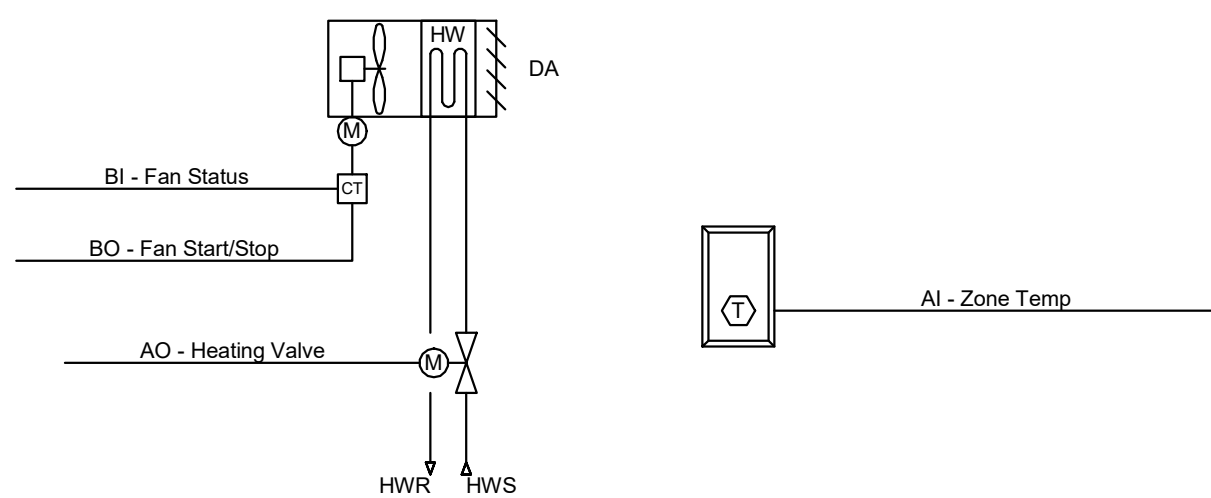
ENERGY RECOVERY UNIT CONTROL SCHEMATIC (ERU-1 & ERU-2)



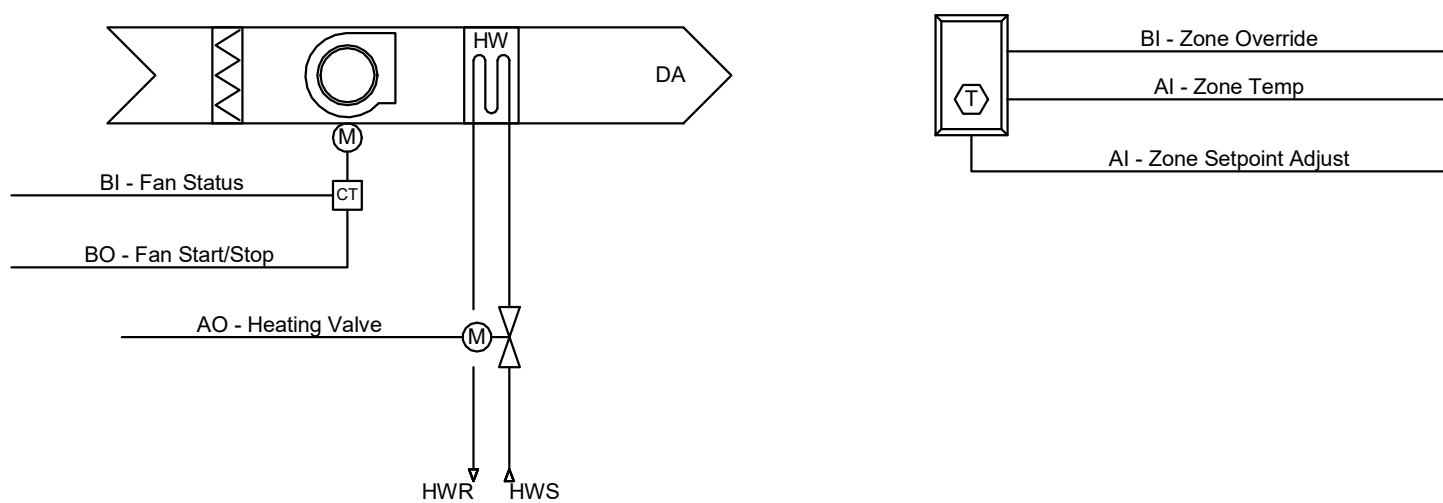
EXHAUST FAN (ATC) CONTROL SCHEMATIC



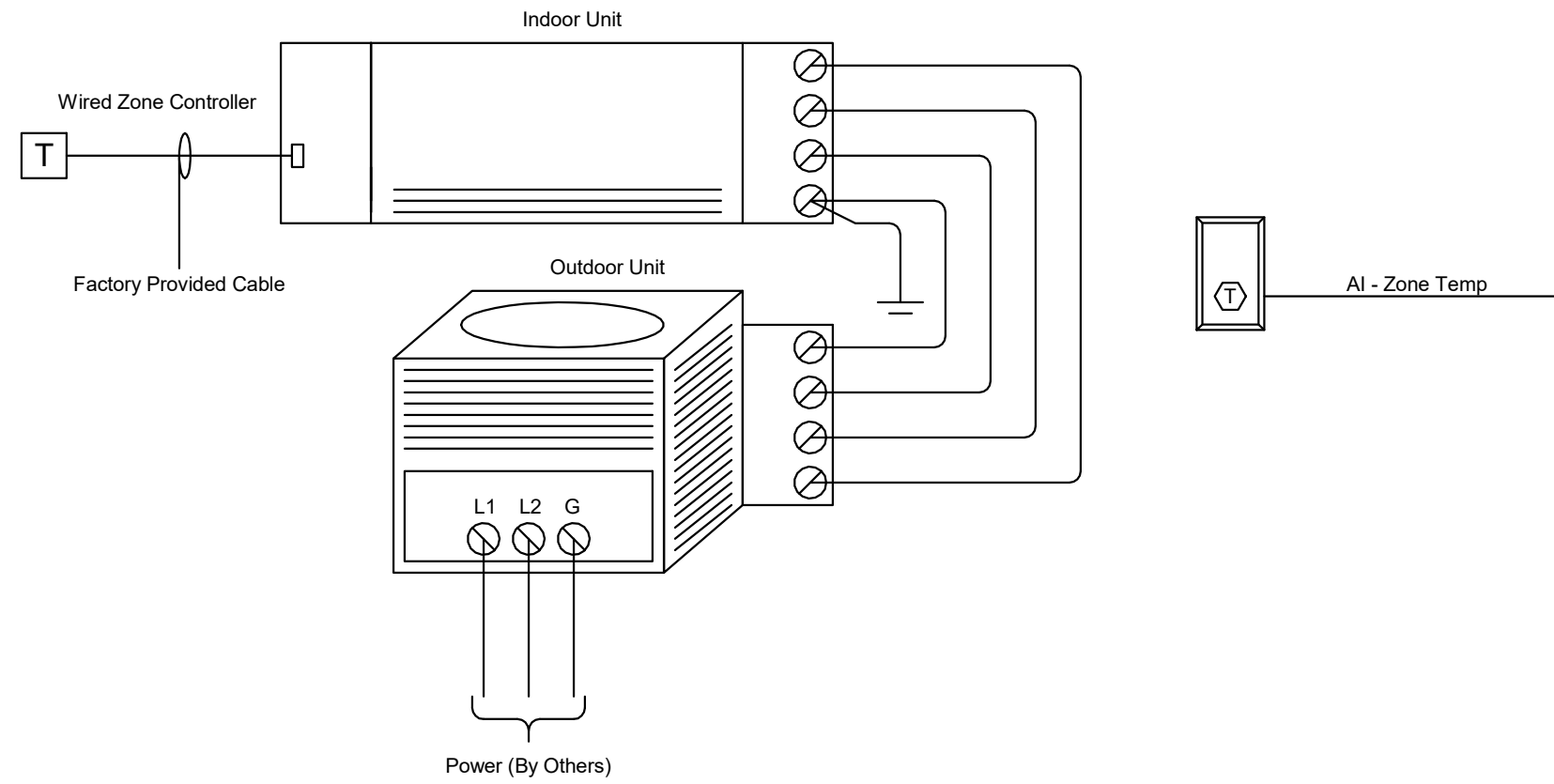
OUTSIDE AIR INTAKE CONTROL SCHEMATIC



UNIT HEATER CONTROL SCHEMATIC



CABINET UNIT HEATER CONTROL SCHEMATIC



DUCTLESS SPLIT SYSTEM CONTROL SCHEMATIC

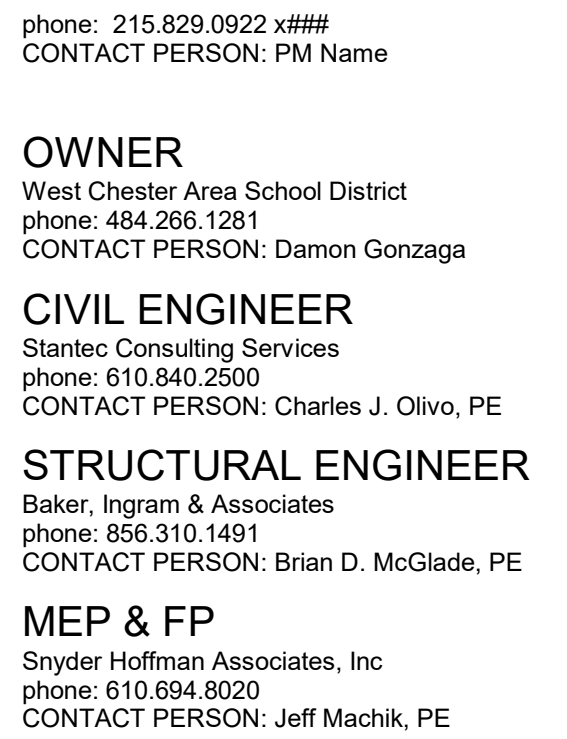
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ATC SCHEMATICS

Seal

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DUTY TO INSPECT CONSTRUCTION DOCUMENTS Prior to **STARTING WORK**, the Architect shall read and review the entire Contract and these Construction Documents shall, before beginning any work, be responsible for fully inspecting the complete set of the Contract and these Construction Documents, including Specifications, and Addenda, for completeness, conflicts, scope of work, and suitability for constructing the project. The Architect shall be responsible to the Owner to present that they have expertise in the area of their responsibility and shall be responsible for the design and construction, including product requirements and code requirements and therefore are qualified to fully evaluate and interpret the documents. The Architect shall be responsible for these documents must, prior to beginning work, submit all requests for clarifications and additional information to the Owner in writing. The Architect shall be responsible to the Owner to certify that the documents are suitable for their intended purpose unless noted in specific written comments.

Warning: Actual conditions may vary from conditions shown on this drawing. Confirm all information in the field before proceeding with any work and notify the Architect immediately.

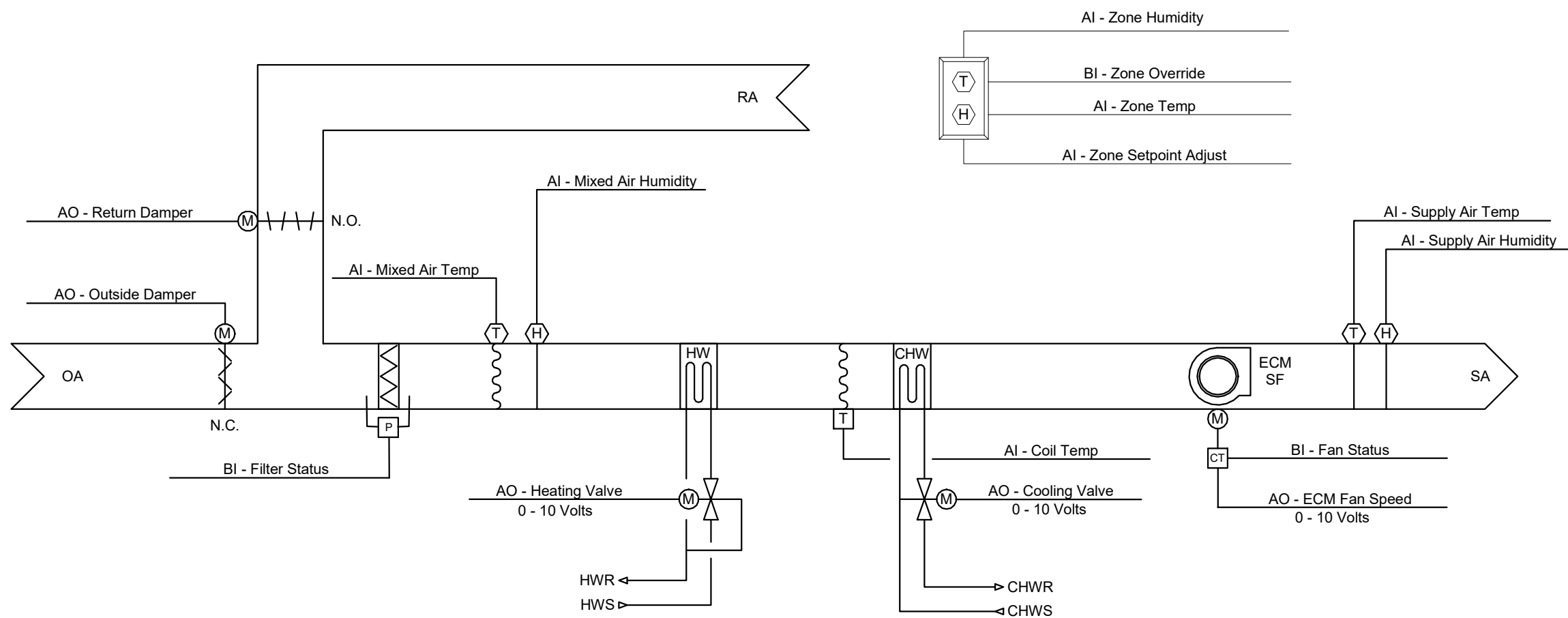
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HOT WATER PLANT CONTROL SCHEMATIC



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Sheet Title:
DEMOLITION FLOOR
PLAN - AREA A

Seal

DUTY TO INSPECT CONTRACT DOCUMENTS PRIOR

TO STARTING WORK:
Any party who relies in part or whole on the content of these Construction Documents shall, before beginning any work, be responsible for fully inspecting the complete set of documents consisting of all Drawings, Specifications, and Addenda, for completeness, conflicts, omissions, and errors.
The undersigned hereby certifies that he/she has inspected the building All parties relying on these documents represent that they have expertise in the area of their responsibility and are qualified regarding industry standards, product requirements and code requirements and therefore are assigned to evaluate and interpret the contract documents. All parties relying on these documents must, prior to beginning work, submit all requests for clarifications and additional information to the architect in writing.
The undersigned hereby certifies that he/she warrants her/his certification that the documents are suitable for their intended purposes unless noted in specific written exception beforehand.

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