

SUBMITTAL COVERSHEET **Nanuet UFSD –Phase 3 Projects**

Architect:

KSQ Architects
215 W 40th Street, 15th Floor
New York, NY 10018

Owner:

Nanuet Union Free School District
101 Church Street
Nanuet, NY 10954

Construction Manager:

Jacobs
One Penn Plaza, 54th floor
New York, NY 10019

Contractor: Joe Lombardo Plumbing & Heating of Rockland Inc

Contract: Ron Lombardo

Address: 321 Spook Rock Road Suite 109A

845-357-6537
Telephone:

Suffern, New York 10901

845-357-8529
Fax:

School Name: Nanuet Union Free School District Phase 3 Bond Projects @ Barr Middle School & Nanuet High School

Type of Submittal:

Re-submittal: [] No [] Yes

[] Shop Drawings [] Product Data [] Schedule [] Sample []
[] Test Report [] Certificate [] Color Sample [] Warranty []

Submittal Description:

Product Name: SHOP DWGS MIDDLE SCHOOL PIPING / COORDINATED WITH GPS SCANNING

Manufacturer: ELITE

Subcontractor/Supplier: ELITE

References:

Spec. Section No.: 230000

Drawing No(s):

Paragraph:

Rm. or Detail No(s):

Architect's/ Engineer's Review Stamp

SAGE ENGINEERING ASSOCIATES, LLP

☐ Reviewed ☐ Furnish as Corrected
☐ Rejected ☒ Revise and Resubmit
☐ Submit Specified Item

This review is only for general conformance with the design concept and the information given in the Construction Documents. Corrections or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Review of a specific item shall not include review of an assembly of which the item is a component. The Contractor is responsible for dimensions to be confirmed and correlated at the jobsite; information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences and procedures of construction; coordination of the Work with that of all other trades and performing all Work in a safe and satisfactory manner.

SAGE LOG NO. M-45

Date: 12/27/2023

By: S. Pierson

Contractor Review Statement:

These documents have been checked for accuracy and coordinated with job conditions and Contract requirements by this office and have been found to comply with the provisions of the Contract Documents.

Ronald J. Lombardo

12.26.23

Name:

Date:

Company Name:

Joe Lombardo Plumbing & Heating of Rockland Inc.

COMMENTS:

1. Refer to comments in red on attached shop drawings.
2. Per Project Site submittal 041-0 (Sage M-26), outdoor heat pump units HP-MS-3, HP-MS-5, and HP-MS-9 switched to 1-module units instead of 2-module units with the updated Daikin model changes; therefore, the outdoor multi-connection piping kit is no needed for the refrigerant piping serving these units.
3. Provide the HW piping for Runtal radiators R-MS-1 and R-MS-2 along the exterior wall in Library 241 on the second floor with shop drawings.
4. As shown on the attached shop drawings, change the combined condensate drain line size where indicated.
5. Verify refrigerant piping mains match manufacturer's recommended piping sizes on their submitted piping diagrams based on Daikin's model change update.

REFERENCE DRAWINGS

80			
RECORD OF TRADE COORDINATION			

STANDARD			
COORDINATION NOTE			

ARCHITECT / ENGINEER NOTES:

1000

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100

note 12 on BM M111,
combined condensate

VERIFY THAT LINE ABOVE IS 1" LONG, PRINTING HAVE BEEN REDUCED



1000

KSQ Design

20-00K	MC	NO-00T	NW	20-00K
20-00K	MC	NO-00T	NW	20-00K

12/14/2023	104° ± 1 °C	MP-01-01
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DRAWING NOTES AND DETAILS

BUILDING ELEVATIONS:
BASEMENT = -12'-0"
FIRST FLOOR = 0'-0"
SECOND FLOOR = 12'-0"
ROOF = 23'-9 1/4"

CONDENSATE PITCHED AT 1/8" PER FOOT
HWS/R CONNECTIONS TO UNIT VENTILATORS IS 1"

① UTILITY COMPARTMENT
② CONDENSATE PIPED TO EXTERIOR, DRAIN DOWN TO GRADE.
③ DROP TO PIPE ENCLOSURE & ROUTE TO UNIT
④ EXPANSION COMPENSATORS

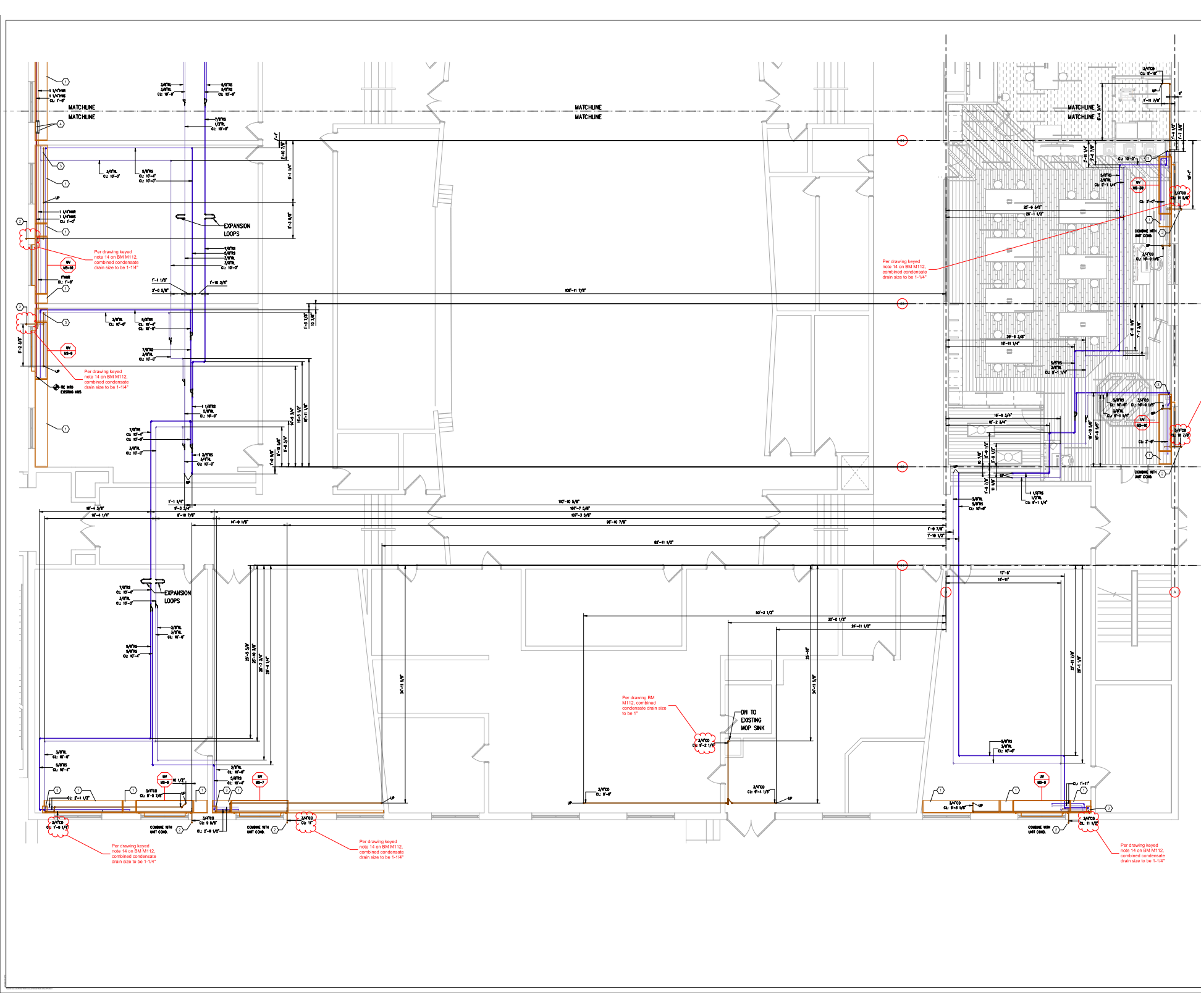
REFERENCE DRAWINGS

NO.	DESCRIPTION	DATE
1	MECHANICAL	02/15/2017
2	PLUMBING	02/15/2017
3	ELECTRICAL	02/15/2017
4	STRUCTURAL	02/15/2017
5	MECHANICAL	02/15/2017
6	PLUMBING	02/15/2017
7	ELECTRICAL	02/15/2017
8	STRUCTURAL	02/15/2017
9	MECHANICAL	02/15/2017
10	PLUMBING	02/15/2017
11	ELECTRICAL	02/15/2017
12	STRUCTURAL	02/15/2017
13	MECHANICAL	02/15/2017
14	PLUMBING	02/15/2017
15	ELECTRICAL	02/15/2017
16	STRUCTURAL	02/15/2017
17	MECHANICAL	02/15/2017
18	PLUMBING	02/15/2017
19	ELECTRICAL	02/15/2017
20	STRUCTURAL	02/15/2017

COORDINATION NOTES

ALL CONDENSATE PIPING SHALL BE INSTALLED WITH A MINIMUM PITCH OF 1/8" PER FOOT TOWARD THE EXTERIOR. CONDENSATE PIPING SHALL BE INSTALLED WITH A MINIMUM PITCH OF 1/8" PER FOOT TOWARD THE EXTERIOR. CONDENSATE PIPING SHALL BE INSTALLED WITH A MINIMUM PITCH OF 1/8" PER FOOT TOWARD THE EXTERIOR.

ARCHITECT/ENGINEER NOTES



BUILDING ELEVATIONS:
BASEMENT = -12'-0"
FIRST FLOOR = 0'-0"
SECOND FLOOR = 12'-0"
ROOF = 23'-8 1/4"
CONDENSATE PITCH AT
1/8" PER FOOT

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	01/15/2021
2	ISSUED FOR PERMIT	01/15/2021
3	ISSUED FOR PERMIT	01/15/2021
4	ISSUED FOR PERMIT	01/15/2021
5	ISSUED FOR PERMIT	01/15/2021
6	ISSUED FOR PERMIT	01/15/2021
7	ISSUED FOR PERMIT	01/15/2021
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18	ISSUED FOR PERMIT	01/15/2021
19	ISSUED FOR PERMIT	01/15/2021
20	ISSUED FOR PERMIT	01/15/2021

COORDINATOR NOTES:
ALL CONDITIONS ARE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY WORK BEING PERFORMED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.

ARCHITECT/ENGINEER NOTES:
1. COLUMN LINES NOT PROVIDED IN THIS AREA. VERIFY IN FIELD.

FOR APPROVAL

VERIFY THAT ALL WORK IS IN ACCORDANCE WITH THE PROJECT MANUAL AND ALL APPLICABLE CODES.

1. ISSUED FOR PERMIT

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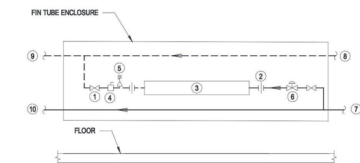
17. ISSUED FOR PERMIT

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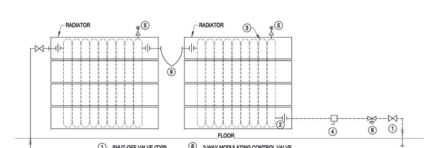
20. ISSUED FOR PERMIT

1. DISCONNECT AND REMOVE EXISTING AIR HANDLING UNIT S-6 3-WAY PNEUMATIC CONTROL VALVE. PROVIDE ELECTRONIC 3-WAY CONTROL VALVE.
2. DISCONNECT AND REMOVE EXISTING AIR HANDLING UNIT S-7 3-WAY PNEUMATIC CONTROL VALVE. PROVIDE ELECTRONIC 3-WAY CONTROL VALVE.
3. DISCONNECT AND REMOVE EXISTING AIR HANDLING UNIT S-8 3-WAY PNEUMATIC CONTROL VALVE. PROVIDE ELECTRONIC 3-WAY CONTROL VALVE.
4. DISCONNECT AND REMOVE EXISTING AIR HANDLING UNIT S-9 3-WAY PNEUMATIC CONTROL VALVE. PROVIDE ELECTRONIC 3-WAY CONTROL VALVE.
5. REMOVE MAIN BUILDING HEATING LOOP 3-WAY PNEUMATIC MIXING CONTROL VALVE. PROVIDE AN ELECTRONIC 3-WAY MIXING CONTROL VALVE.
6. DISCONNECT AND REMOVE EXISTING DOMESTIC HOT WATER STORAGE TANK 2-WAY PNEUMATIC CONTROL VALVE. PROVIDE ELECTRONIC 2-WAY CONTROL VALVE.
7. DISCONNECT AND REMOVE EXISTING DOMESTIC HOT WATER BOOSTER HEATER HEAT EXCHANGER 2-WAY PNEUMATIC CONTROL VALVE. PROVIDE ELECTRONIC 2-WAY CONTROL VALVE.



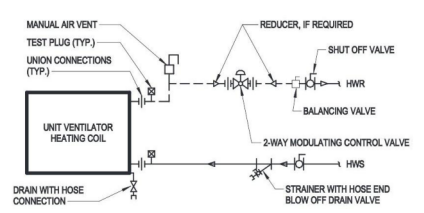
- DETAIL FOR 1-TIER ELEMENT SYSTEM
- | | |
|------------------|---|
| 1 SHUT-OFF VALVE | 5 AIR VENT |
| 2 UNION (TYP) | 6 2-WAY MODULATING CONTROL VALVE |
| 3 FIN ELEMENT | 7 HWS MAIN |
| 4 BALANCE VALVE | 8 HWS MAIN |
| | 9 HWS MAIN ROUTED TO NEXT ROOM THROUGH ENCLOSURE |
| | 10 HWS MAIN ROUTED TO NEXT ROOM THROUGH ENCLOSURE |

3
Fin Tube Radiation Piping Detail
Size: 1/2" x 1/2"

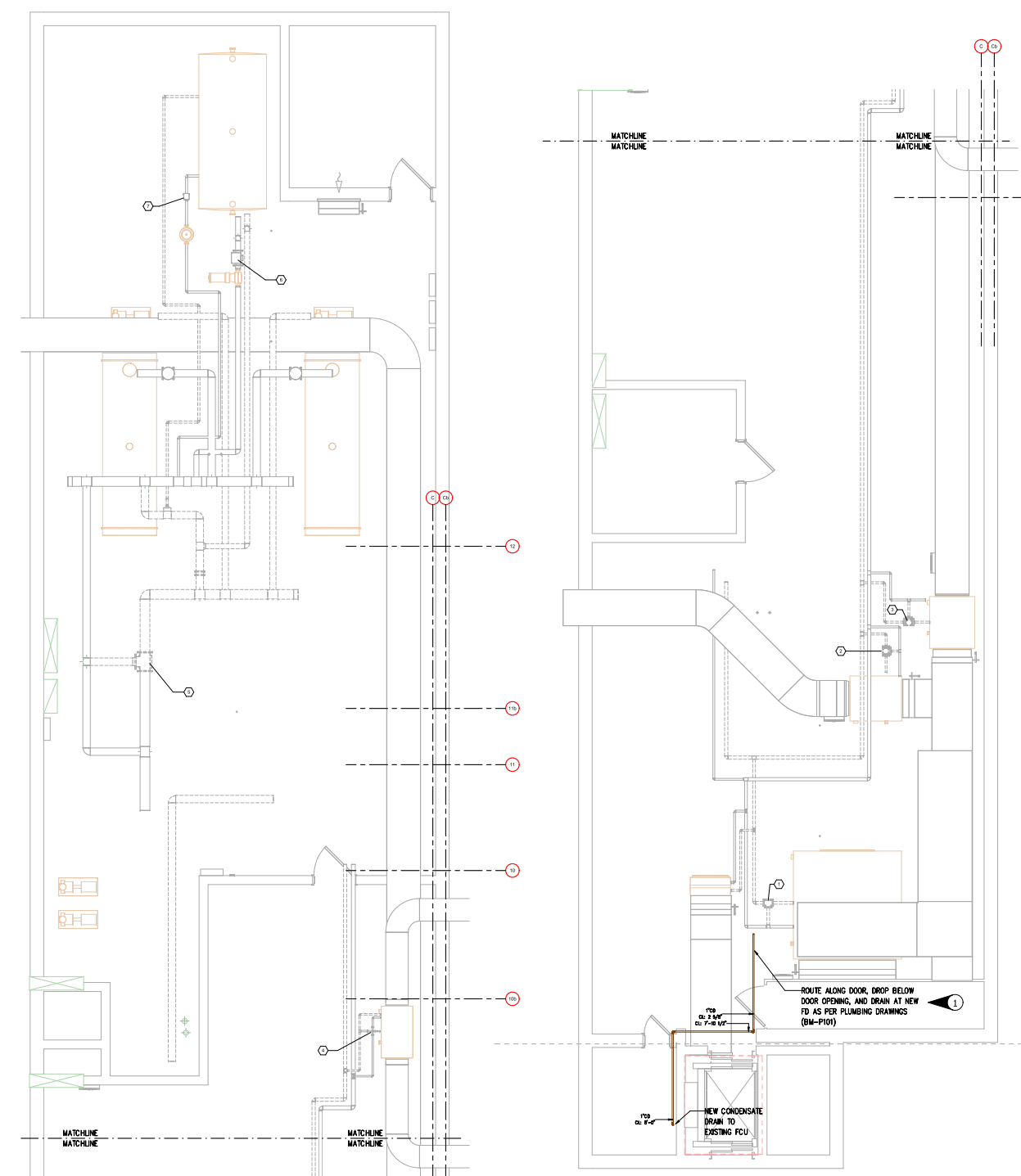


- DETAIL FOR 1-TIER ELEMENT SYSTEM
- | | |
|------------------------|---|
| 1 SHUT-OFF VALVE (TYP) | 5 3-WAY MODULATING CONTROL VALVE |
| 2 UNION (TYP) | 6 HWS |
| 3 FIN ELEMENT | 7 HWS |
| 4 BALANCE VALVE | 8 HWS |
| 5 AIR VENT | 9 EXPANSION COMPENSATOR BETWEEN TWO ACTIVE RADIATOR LENGTHS |

4
Hot Water Floor Radiation Detail
Size: 1/2" x 1/2"



5
Unit Ventilator Detail
Size: 1/2" x 1/2"



1
MP-BM-01
Size: 1/2" x 1/2"

2
MP-BM-02
Size: 1/2" x 1/2"

ORIGINATOR: SAGE ENGINEERING ASSOCIATES
BUILDING ELEVATIONS:
BASEMENT = -12'-0"
FIRST FLOOR = 0'-0"
SECOND FLOOR = 12'-0"
ROOF = 23'-9 1/4"
MULTI-CONNECTION PIPING KIT.

REFERENCE DRAWINGS	
NO.	DESCRIPTION
1	FOUNDATION
2	FOUNDATION
3	FOUNDATION
4	FOUNDATION
5	FOUNDATION
6	FOUNDATION
7	FOUNDATION
8	FOUNDATION
9	FOUNDATION
10	FOUNDATION

REVISIONS / TRADE COORDINATION	
NO.	DESCRIPTION
1	FOUNDATION
2	FOUNDATION
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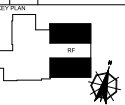
COORDINATION NOTE
ALL COORDINATION AND CONFLICTS SHALL BE RESOLVED BY THE ARCHITECT AND ENGINEER PRIOR TO CONSTRUCTION. THE ARCHITECT AND ENGINEER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED TO THE ARCHITECT AND ENGINEER.

ARCHITECT / ENGINEER NOTES

FOR APPROVAL

VERIFY THAT ALL NOTES AND DIMENSIONS ARE CORRECT AND COMPLETE.

NO.	DESCRIPTION
1	FOUNDATION
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