



**Additions and Renovations
Platt Technical High School
Milford, CT**

ADDENDUM NO. 1

November 8, 2019

The original Specifications and Drawings dated October 11, 2019 for the above-captioned project are amended as stated in this Addendum. This Addendum consists of 2 (two) pages, plus the following attachments.

ATTACHMENTS

MECHANICAL DRAWINGS

Entire Mechanical Drawing Set which includes the following drawings: (47 pages)
 M1-1-1A, M1-1-1B, M1-1-1C, M1-1-1D, M1-1-1E, M1-1-1F, M1-1-1G, M1-1-2B,
 M1-1-2C, M1-1-2D, M1-1-2E, M1-1-MB, M1-1-ME, M1-1-MF, M1-2-1A, M1-2-1B,
 M1-2-1C, M1-2-1D, M1-2-1E, M1-2-1F, M2-1-1A, M2-1-1B, M2-1-1C, M2-1-1D,
 M2-1-1E, M2-1-1F, M2-1-1G, M2-1-2B, M2-1-2C, M2-1-2D, M2-1-2E, M2-1-MB,
 M2-1-ME, M2-1-MF, M2-3-1A, M2-3-1C, M3-1-1, M3-1-2, M3-1-3, M4-1-1, M4-1-2,
 M4-1-3, M4-1-4, M5-1-1, M5-1-2, M5-1-3, M5-1-4.

AMENDMENTS TO PROJECT MANUAL

The Morganti Group Inc., Construction Manager at Risk, has recently moved their office. Their new address is:

The Morganti Group Inc.
 100 Reserve Road, Suite D 210
 Danbury CT 06810

Any reference to Morganti’s old address, within the Bid Documents, should be replaced with the address above.

DIVISION 23 – HEATING VENTILATION AND AIR CONDITIONING

ADD 1-001 SECTION 23 36 00 – AIR TERMINAL UNITS
 Page 3, Article 2.1, at list of MANUFACTURERS, add:
 5. Johnson Controls.

ADD 1-002 SECTION 23 64 13 – CENTRIFUGAL WATER CHILLERS
 Page 4, Article 2.1, at list of MANUFACTURERS, add:
 5. Johnson Controls.



AMENDMENTS TO DRAWINGS

MECHANICAL

ADD 1-003

MECHANICAL DRAWINGS

All mechanical drawings reissued to show duct sizes.

Reissued Drawing include:

M1-1-1A, M1-1-1B, M1-1-1C, M1-1-1D, M1-1-1E, M1-1-1F, M1-1-1G, M1-1-2B,
M1-1-2C, M1-1-2D, M1-1-2E, M1-1-MB, M1-1-ME, M1-1-MF, M1-2-1A, M1-2-1B,
M1-2-1C, M1-2-1D, M1-2-1E, M1-2-1F, M2-1-1A, M2-1-1B, M2-1-1C, M2-1-1D,
M2-1-1E, M2-1-1F, M2-1-1G, M2-1-2B, M2-1-2C, M2-1-2D, M2-1-2E, M2-1-MB,
M2-1-ME, M2-1-MF, M2-3-1A, M2-3-1C, M3-1-1, M3-1-2, M3-1-3, M4-1-1, M4-1-2,
M4-1-3, M4-1-4, M5-1-1, M5-1-2, M5-1-3, M5-1-4.

E N D O F A D D E N D U M N O . 1



MECHANICAL NOTES

- SEE DRAWINGS M3-1.1, M3-1.2 & M3-1.3 FOR SYMBOL LIST AND SCHEDULES.
- SEE DRAWINGS M4-1.1, M4-1.2, M4-1.3 & M4-1.4 FOR DETAILS.
- SEE DRAWINGS M5-1.1, M5-1.2, M5-1.3 & M5-1.4 FOR CONTROLS DIAGRAMS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS ON GENERAL CONDITIONS, MATERIAL SPECIFICATIONS AND INSTALLATION.
- PROVIDE CLEARANCE ADJACENT TO EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED TO PROPERLY MAINTAIN EQUIPMENT. PROVIDE MINIMUM 42" CLEARANCE IN FRONT OF EQUIPMENT, PIPE DROPS, ETC. CLEARANCES SHALL BE IDENTIFIED ON COORDINATION SHOP DRAWINGS.
- PROVIDE REMOTELY CONTROLLED VOLUME DAMPERS AT ALL SHEETROCK AND METAL CEILINGS AND WHERE VOLUME DAMPERS ARE NOT ACCESSIBLE THRU ACCESSIBLE CEILINGS WITH STANDARD STEP LADDER.
- VOLUME DAMPERS SHALL BE INSTALLED MINIMUM 8'-0" FROM EACH DIFFUSER, GRILLE AND REGISTER WHERE EVER POSSIBLE. FLEXIBLE CONNECTIONS SHALL NOT EXCEED 8'-0" IN LENGTH.
- NOT ALL BRANCH PIPING TO DEVICES ARE SHOWN. PROVIDE BRANCH PIPING TO ALL DEVICES PER DETAILS AND SCHEDULES. PIPE BRANCHES SHALL BE MINIMUM 3/4" DIAMETER UNLESS NOTED OTHERWISE.
- ALL PENETRATIONS THROUGH FULL HEIGHT CORRIDOR WALLS SHALL BE SEALED. REFER TO ARCHITECTURAL DRAWINGS FOR TYPES OF WALLS AND REQUIREMENTS FOR SEALING.
- DUCTWORK AND PIPING LAYOUTS DO NOT SHOW ALL TRANSITIONS AND OFFSETS THAT WILL BE REQUIRED. PROVIDE COORDINATION DRAWINGS AND OFFSET DUCTWORK AND PIPING AS REQUIRED.

MECHANICAL DUCTWORK KEY NOTES

- M1 OFFSET DUCT IN CEILING SPACE TO INSTALL DUCT IN CENTER OF THE HOLLOW CORE OF THE MEZZANINE FLOOR PLANK.
- M2 TERMINATE DUCT WITH FLANGED CONNECTION AND 1/2"x1/2" GALVANIZED STEEL MESH.
- M3 INSTALL THIS SECTION OF DUCT IN SPACE BETWEEN PRE-CAST TEES.
- M4 PROVIDE 60"x42" PLENUM AT CONNECTION TO ROOF HOOD. PLENUM SHALL TERMINATE 12" BELOW ROOF DECK.

CONSTRUCTION GENERAL NOTES

GENERAL NOTES: ALL ELECTRICAL, FIRE ALARM, AUDIO VISUAL, TECHNOLOGY AND SECURITY SYSTEMS AND COMPONENTS INCLUDING BUT NOT LIMITED TO CONDUITS, BACKBOXES, DEVICES, ETC. INSTALLED AT THE ARCHITECTURAL PRECAST CONCRETE PANELS SHALL BE CAST INTO THE PRE-CAST CONCRETE PANELS IN THE FACTORY TO AVOID EXPOSURE TO VIEW EXTERIOR OR INTERIOR SPACES. CM-R MUST COORDINATE ALL REQUIRED ELECTRICAL PASS WAYS AND COMPONENTS WITH THE PRECAST SUB-CONTRACTOR AS PART OF THE MEP&FP COORDINATION PROCESS, AND PRE-CAST SHOP DRAWINGS COORDINATION PROCESS.

ALL MECHANICAL, ELECTRICAL AND FIRE PROTECTION (MEP&FP) SYSTEMS AND COMPONENTS THAT REQUIRE PENETRATIONS THROUGH PRE-CAST CONCRETE PANELS SHALL BE COORDINATED WITH THE PRE-CAST CONCRETE SUB-CONTRACTOR DURING COORDINATION AND SHOP DRAWING PROCESS. NO ATTACHMENT OF THE MEP&FP COMPONENTS TO THE PRE-CAST CONCRETE PANELS SHALL BE ALLOWED IN THE FIELD WITHOUT PRIOR WRITTEN AND APPROVAL BY THE PRE-CAST CONCRETE SUB-CONTRACTOR. NO CUTTING AND/OR PATCHING OF THE PRE-CAST CONCRETE PANELS IS ALLOWED IN THE FIELD. ALL PENETRATIONS THROUGH PRECAST COMPONENTS INCLUDING WALLS, DOUBLE TEES AND HOLLOW CORE PLANK FLOORS AND ROOFS SHALL BE COORDINATED BY THE SUB-CONTRACTORS AND THE CM-R PRIOR TO MANUFACTURING OF THE PRECAST CONCRETE COMPONENTS.

FIRST FLOOR - AREA B: ALL MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION (MEP&FP) SYSTEMS COMPONENTS THAT REQUIRE PENETRATIONS THROUGH PRE-CAST CONCRETE PLANK AT MEZZANINE FLOOR STRUCTURE SHALL BE COORDINATED WITH THE PRE-CAST PLANK CORE LOCATIONS. PENETRATIONS THROUGH THE PRE-CAST HOLLOW CORE PLANK ARE ONLY ALLOWED THROUGH THE CORES. CM-R MUST COORDINATE ALL OPENINGS IN THE PRE-CAST CONCRETE PLANK AS PART OF THE MEP&FP COORDINATION PROCESS.

MECHANICAL, ELECTRICAL AND FIRE PROTECTION (MEP&FP) CONTRACTORS REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS, SECTIONS AND DETAILS DRAWINGS FOR LOCATIONS OF THE SOUND BARRIER CEILING SYSTEM. THIS IS A SPECIALTY SOUND ISOLATION SUSPENDED CEILING SYSTEM. MEP&FP SYSTEMS COMPONENTS ARE NOT ALLOWED TO BE ATTACHED/SUSPENDED, OR INSTALLED ABOVE THIS CEILING SYSTEM UNLESS SPECIFICALLY NOTED OTHERWISE. EACH SUB-CONTRACTOR SHALL PROVIDE UNISTRUT SUPPORTS ATTACHED TO BOTTOM CORER OF STRUCTURAL STEEL BEAMS OR INSERTS PROVIDED AS PART OF THE PRECAST DOUBLE TEES AS REQUIRED TO SUPPORT MEP&FP SYSTEMS COMPONENTS. SPECIALTY ACOUSTICALLY RATED ACCESS PANELS MAY BE ALLOWED TO ACCESS MEP&FP SYSTEMS COMPONENTS LOCATED ABOVE THE SOUND BARRIER SYSTEM ON THE LIMITED BASES AT LOCATIONS SPECIFICALLY INDICATED ON THE MEP&FP DRAWINGS.

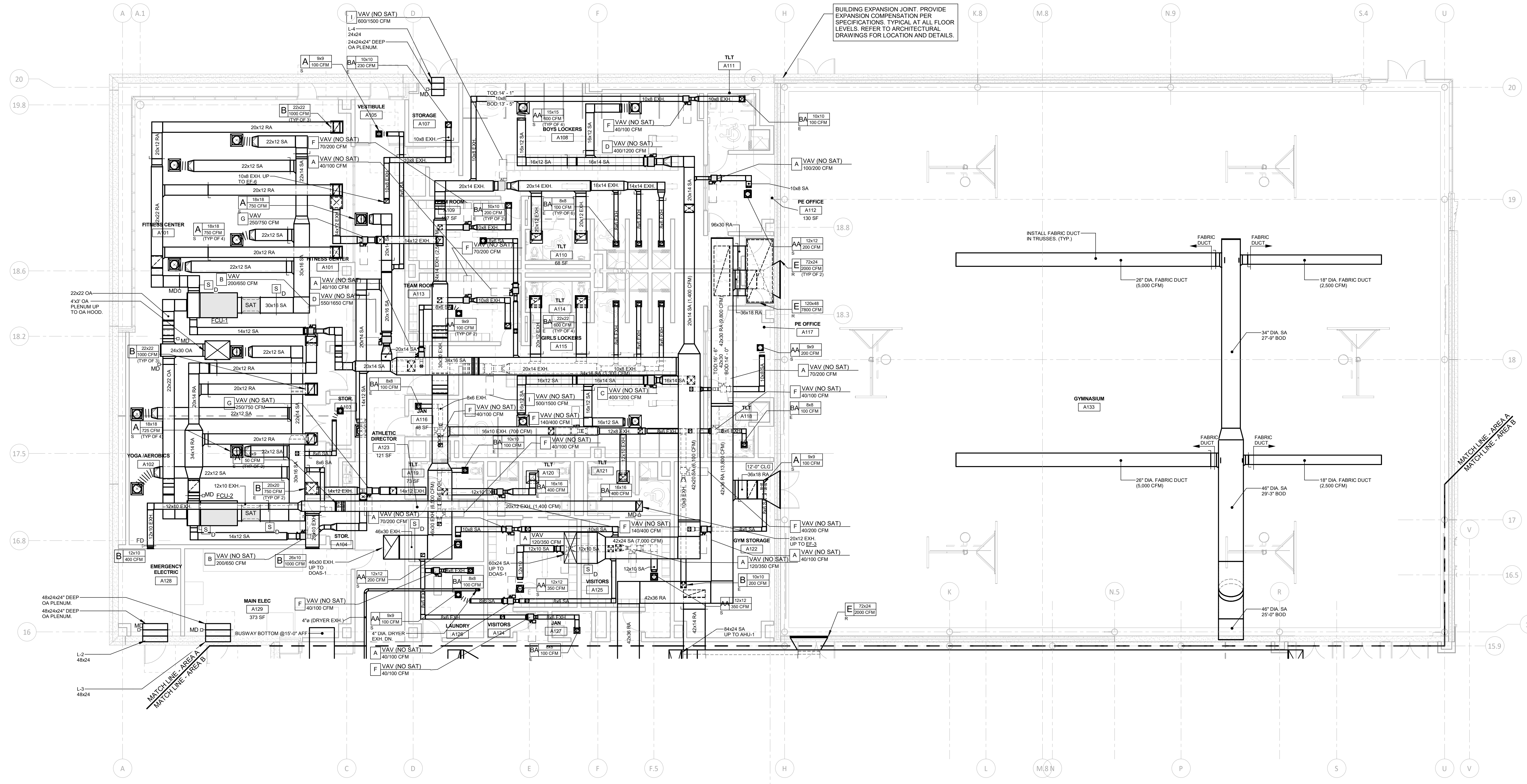
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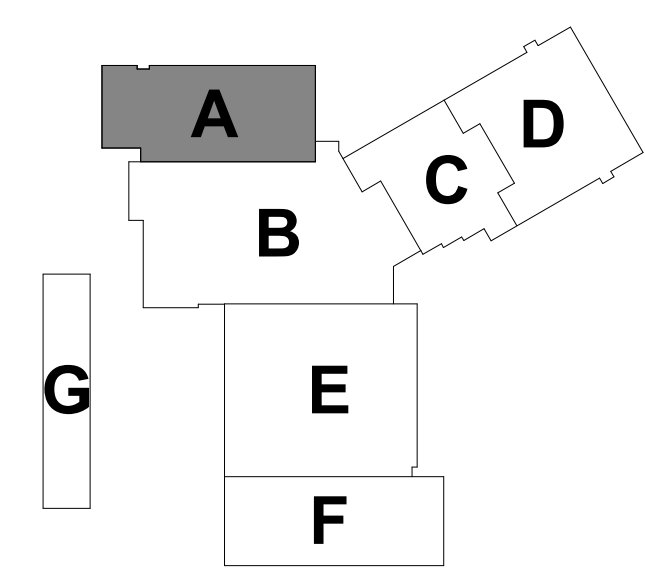
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SECOND FLOOR AREA E: MECHANICAL, ELECTRICAL AND FIRE PROTECTION (MEP&FP) CONTRACTORS SHALL FOLLOW SPECIFIC DETAILS INDICATED ON THE DRAWINGS FOR ATTACHMENT TO THE DOUBLE TEES AND HOLLOW CORE PRECAST PLANK AT FLOORS AND ROOFS.



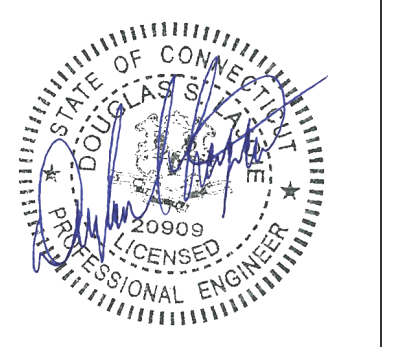
1 FIRST FLOOR MECHANICAL PLAN - AREA A
1/8" = 1'-0"



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drawing scale		As Indicated	
drawing by		[Signature]	
drawing no.		M1-1-1A	

REVISIONS		date	description
mark	date		
	11/8/2019		Addendum No. 1

drawing prepared by		date	
Consulting Engineering Services, Inc.		10/11/2019	
811 Middle St., Middletown, CT 06457		scale	
		As Indicated	
project		approved by	
Additions and Renovations		[Signature]	
Platt Technical High School		drawing no.	
600 Orange Avenue Middletown, CT 06461			
CAD no.	DCS project no.	OSCRG project no.	
	BL-RT-476 CM-R	900-0013	

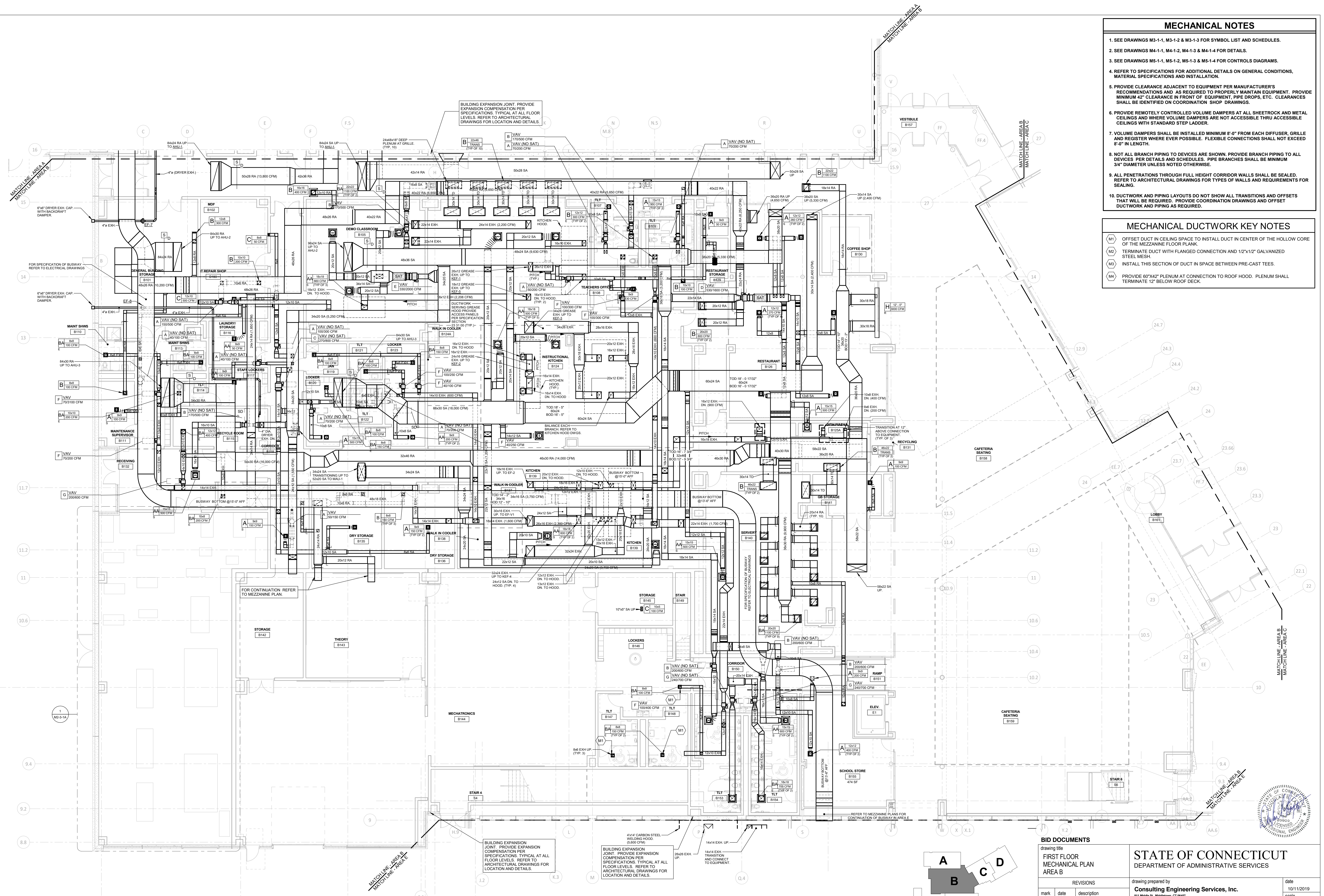


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1 FIRST FLOOR MECHANICAL PLAN - AREA B
1/8" = 1'-0"

BID DOCUMENTS

drawing title
FIRST FLOOR MECHANICAL PLAN AREA B

REVISIONS		
mark	date	description
11/8/2019	11/8/2019	Addendum No. 1

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
Consulting Engineering Services, Inc.
911 Middle St., Wallingford, CT 06497

date
10/11/2019

scale
As Indicated

drawn by
[Signature]

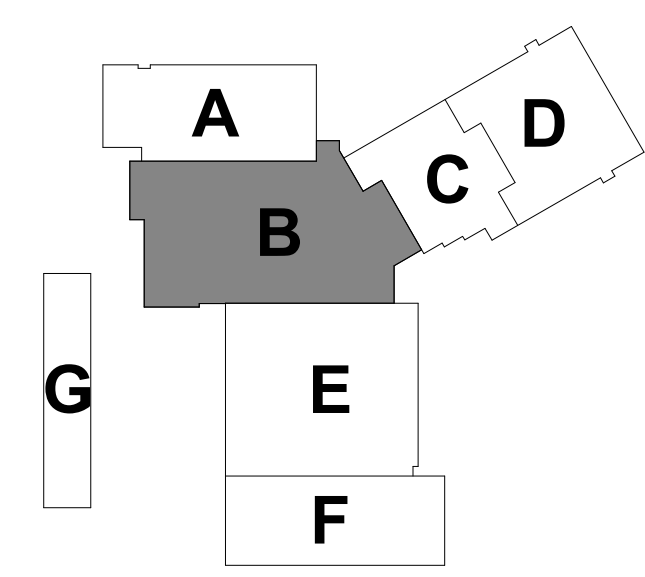
approved by
[Signature]

drawing no.
M1-1-1B

project
**Additions and Renovations
Platt Technical High School**
600 Orange Avenue Middletown, CT 06461

CAD no.
DCS project no.
B1-RT-476 CM-R

OSCRG project no.
900-0113



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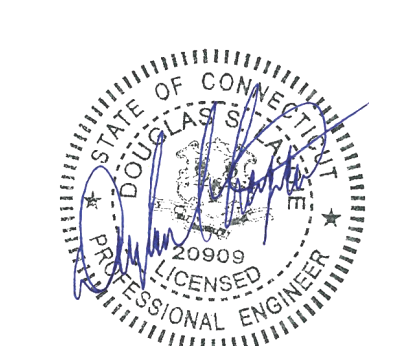
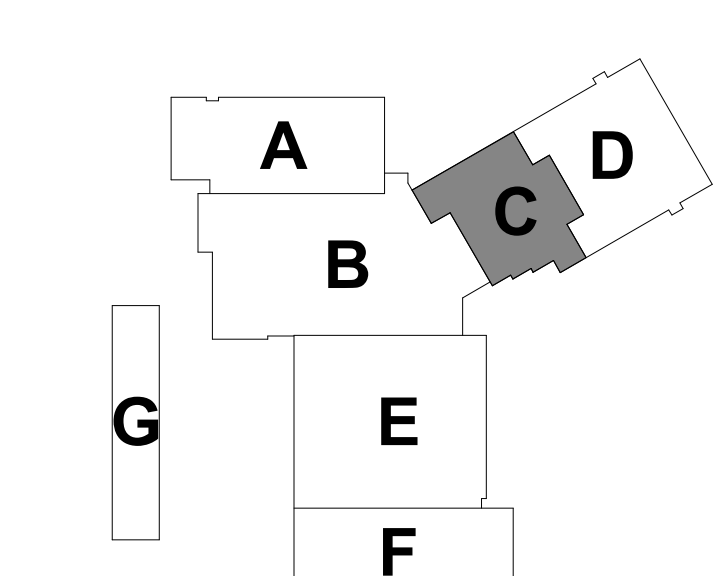
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BUILDING EXPANSION JOINT. PROVIDE EXPANSION COMPENSATION PER SPECIFICATIONS. TYPICAL AT ALL FLOOR LEVELS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND DETAILS.

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



REVISIONS			CONSULTING ENGINEERING SERVICES, INC.	
mark	date	description	811 Middle St., Middletown, CT 06457	date
	11/8/2019	Addendum No. 1		10/11/2019
			project	scale
			Additions and Renovations	As Indicated
			Platt Technical High School	drawn by
			600 Orange Avenue Middletown, CT 06461	msk
			CAD no.	approved by
			DCS project no. BR-RT-076 CM-R	scw
			OSCR project no. 990-013	drawing no.
				M1-1-1C

MECHANICAL NOTES

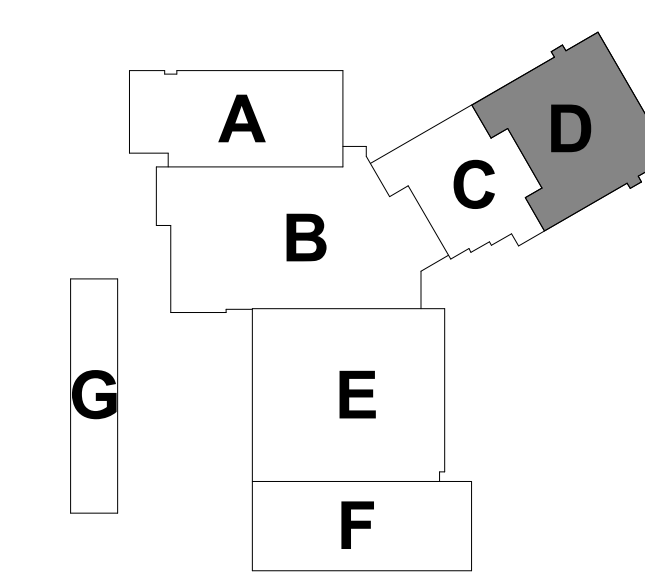
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1/8" = 1'-0"



BID DOCUMENTS

drawing title FIRST FLOOR MECHANICAL PLAN AREA D		
REVISIONS		
mark	date	description
	11/8/2019	Addendum No. 1

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
Consulting Engineering Services, Inc.
811 Middle St., Middletown, CT 06457

date
10/11/2019

scale
As Indicated

drawn by
BSC

approved by
BSC

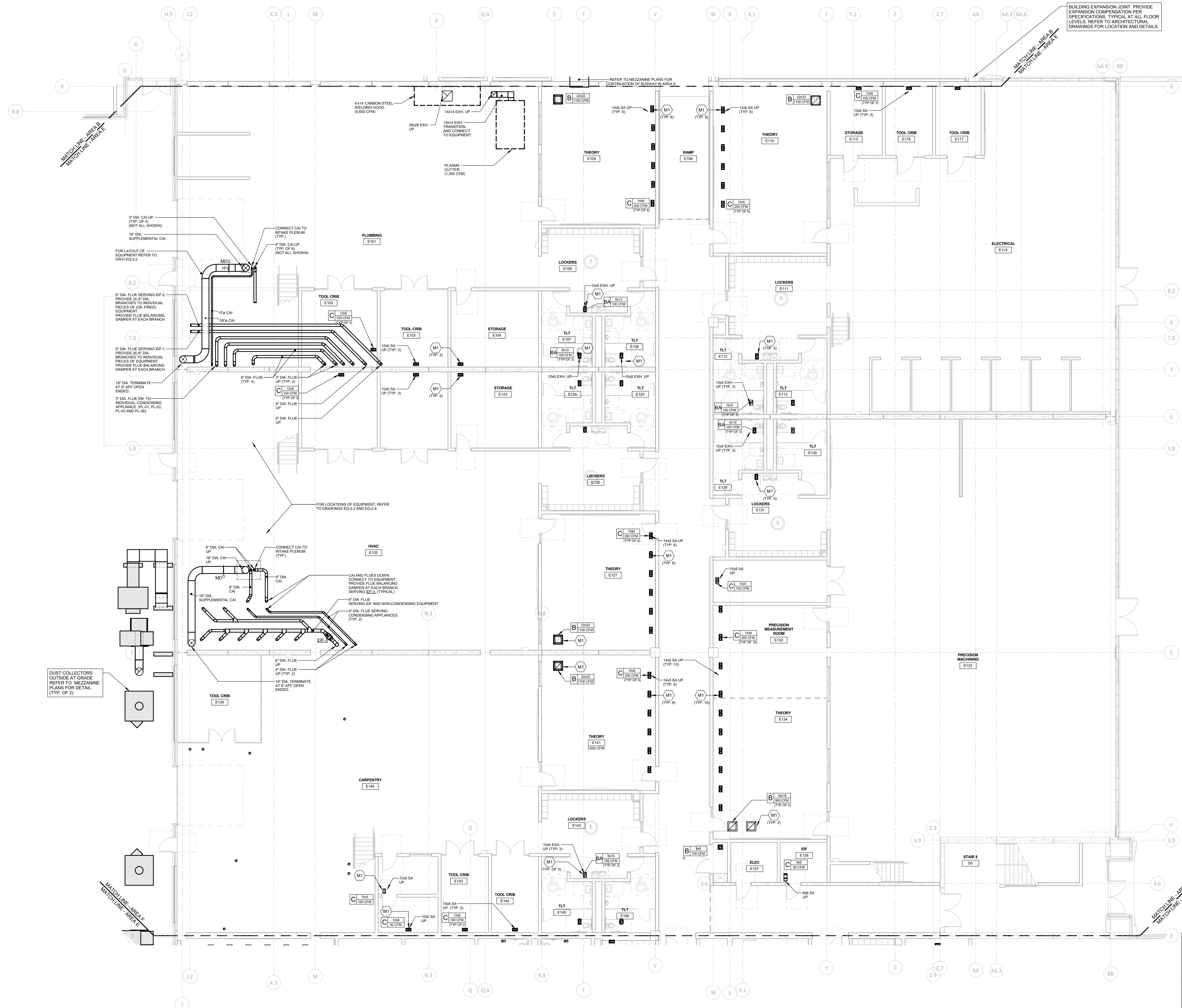
drawing no.
M1-1-1D

project
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CAD no.
DCS project no.
BIRT-076 CM-R

OSCR project no.
900-0013



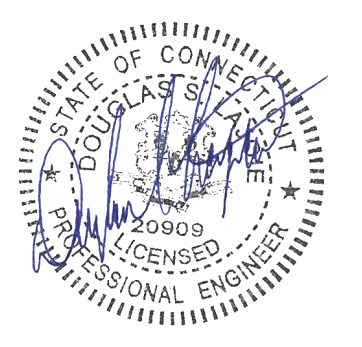
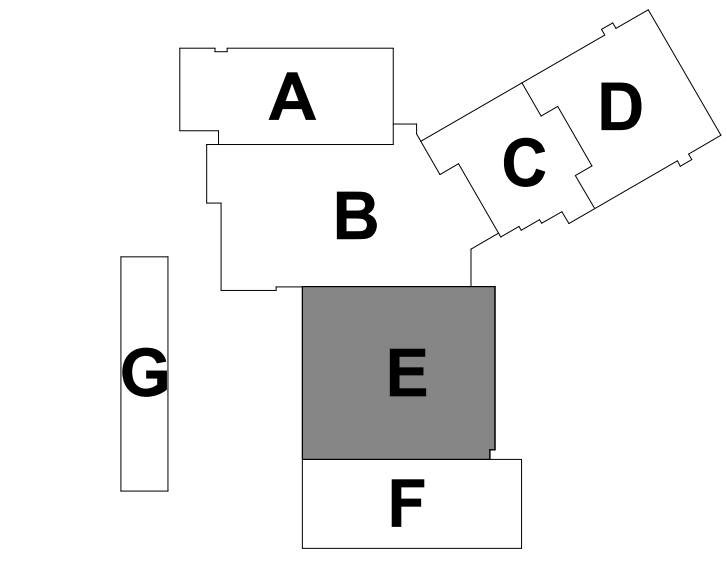


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 - ALL PENETRATIONS THROUGH FULL HEIGHT CORRIDOR WALLS SHALL BE SEALED. REFER TO ARCHITECTURAL DRAWINGS FOR TYPES OF WALLS AND REQUIREMENTS FOR SEALING.
 - DUCTWORK AND PIPING LAYOUTS DO NOT SHOW ALL TRANSITIONS AND OFFSETS THAT WILL BE REQUIRED. PROVIDE COORDINATION DRAWINGS AND OFFSET DUCTWORK AND PIPING AS REQUIRED.

- ### MECHANICAL DUCTWORK KEY NOTES
- (M1) OFFSET DUCT IN CEILING SPACE TO INSTALL DUCT IN CENTER OF THE HOLLOW CORE OF THE MEZZANINE FLOOR PLANK.
 - (M2) TERMINATE DUCT WITH FLANGED CONNECTION AND 1/2"x1/2" GALVANIZED STEEL MESH.
 - (M3) INSTALL THIS SECTION OF DUCT IN SPACE BETWEEN PRE-CAST TEES.
 - (M4) PROVIDE 60"x42" PLENUM AT CONNECTION TO ROOF HOOD. PLENUM SHALL TERMINATE 12" BELOW ROOF DECK.

1 FIRST FLOOR MECHANICAL PLAN - AREA E
1/8" = 1'-0"



REVISIONS			drawing title	drawing date	drawing description	drawing scale	drawing no.
mark	date	description					
	11/8/2019	Addendum No. 1	FIRST FLOOR MECHANICAL PLAN AREA E			As Indicated	M1-1-E

drawing title		drawing date		drawing description		drawing scale		drawing no.	
FIRST FLOOR MECHANICAL PLAN AREA E						As Indicated		M1-1-E	

drawing title		drawing date		drawing description		drawing scale		drawing no.	
FIRST FLOOR MECHANICAL PLAN AREA E						As Indicated		M1-1-E	

STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES

prepared by
Consulting Engineering Services, Inc.
811 Middle St., Middletown, CT 06457

project
**Additions and Renovations
Platt Technical High School**
600 Orange Avenue Middletown, CT 06461

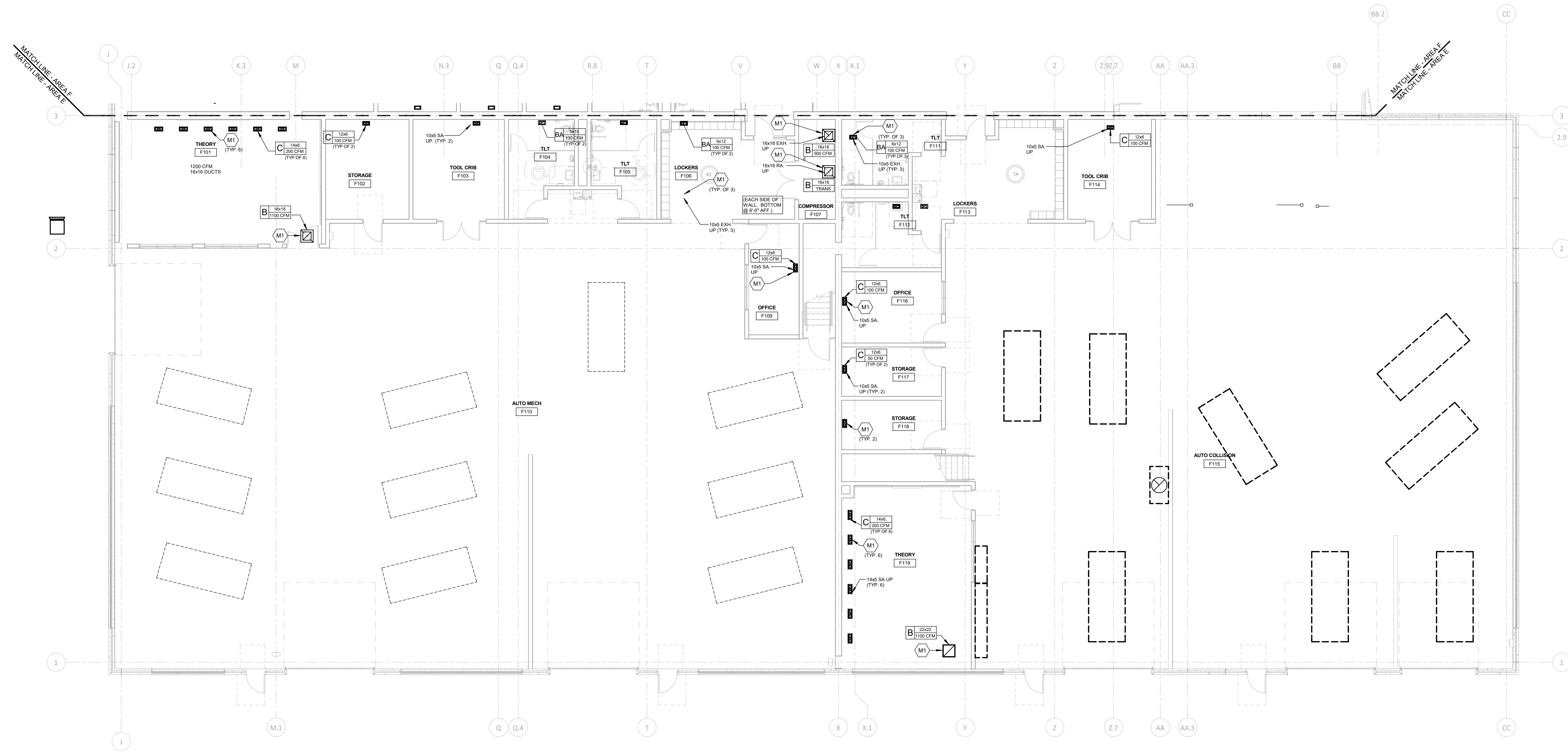
CAD no. DCS project no. OSCGR project no.

MECHANICAL NOTES

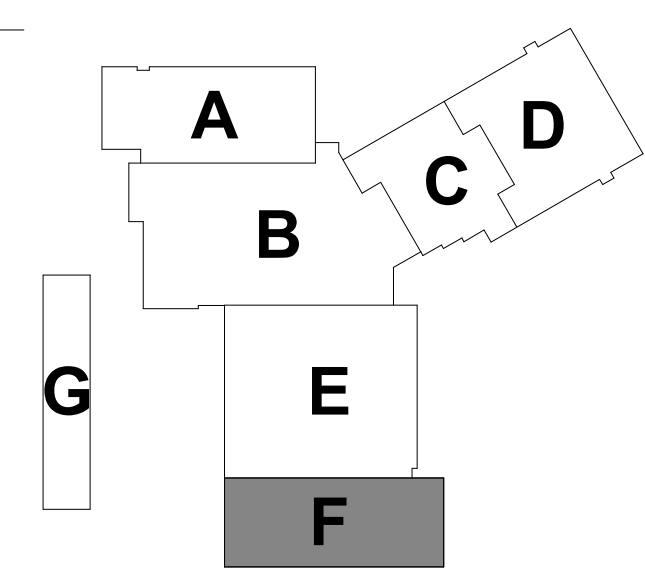
- SEE DRAWINGS M3-1-1, M3-1-2 & M3-1-3 FOR SYMBOL LIST AND SCHEDULES.
- SEE DRAWINGS M4-1-1, M4-1-2, M4-1-3 & M4-1-4 FOR DETAILS.
- SEE DRAWINGS M5-1-1, M5-1-2, M5-1-3 & M5-1-4 FOR CONTROLS DIAGRAMS.
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1 FIRST FLOOR MECHANICAL PLAN - AREA F
1/8" = 1'-0"



BID DOCUMENTS

drawing title FIRST FLOOR MECHANICAL PLAN AREA F		
REVISIONS		
mark	date	description
	11/8/2019	Addendum No. 1

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
Consulting Engineering Services, Inc.
811 Middle St., Middletown, CT 06457

date
10/11/2019

scale
As Indicated

drawn by
SKK

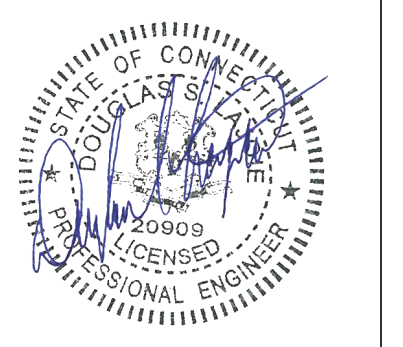
approved by
SKW

drawing no.
M1-1-1F

project
**Additions and Renovations
Platt Technical High School**
600 Orange Avenue Middletown, CT 06461

CAD no.
DCS project no.
BIRT-076 CM-R

OSCR project no.
990-0013

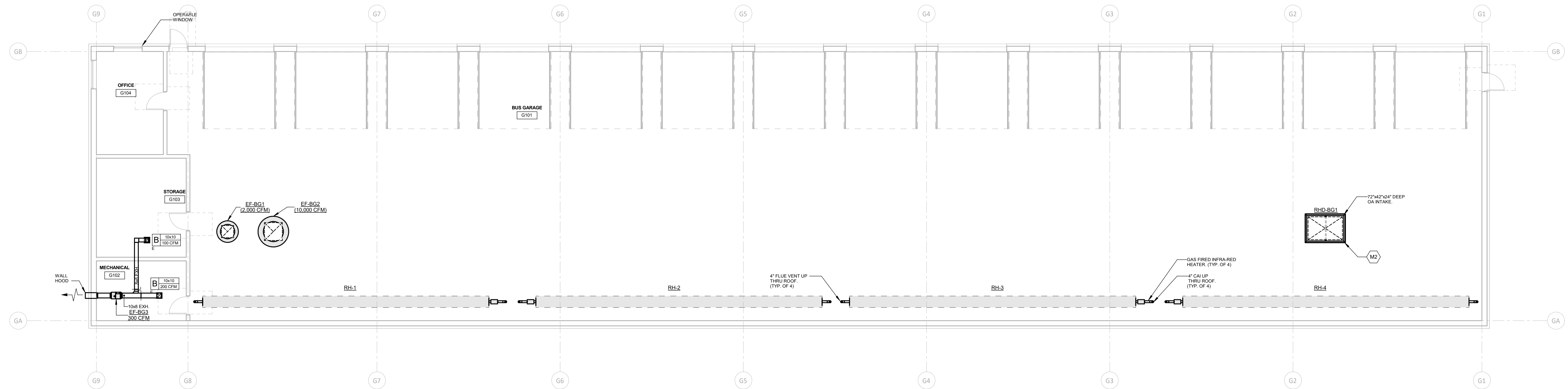


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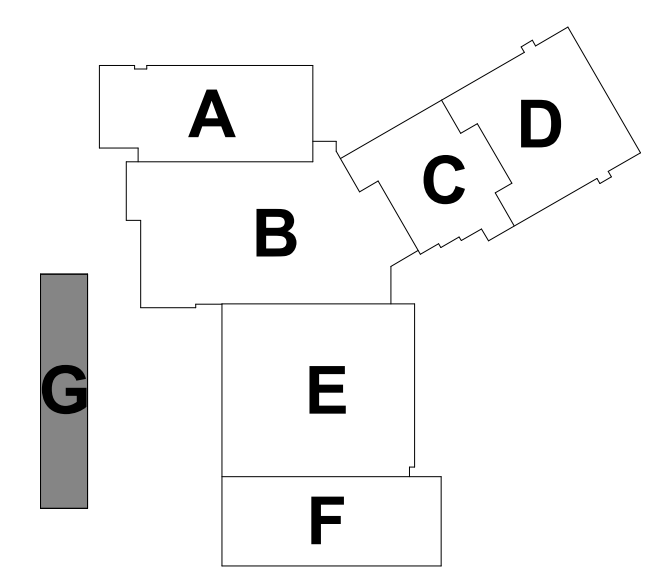
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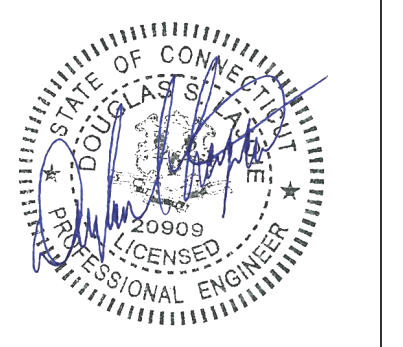
1 FIRST FLOOR MECHANICAL PLAN - AREA G - ALTERNATE NO. 2
1/8" = 1'-0"



BID DOCUMENTS

drawing title		FIRST FLOOR MECHANICAL PLAN AREA G - ALTERNATE NO. 2	
REVISIONS			
mark	date	description	
	11/8/2019	Addendum No. 1	

drawing prepared by		Consulting Engineering Services, Inc.		date	10/11/2019
project		Additions and Renovations Platt Technical High School		scale	As Indicated
approved by		[Signature]		drawn by	msk
drawing no.		M1-1-1G		approved by	msw
CAD no.	DCS project no.	OSGR project no.			
	BL-RT-076 CM-R	990-0013			



FIRE DAMPER NOTE FOR FLOOR PENETRATIONS

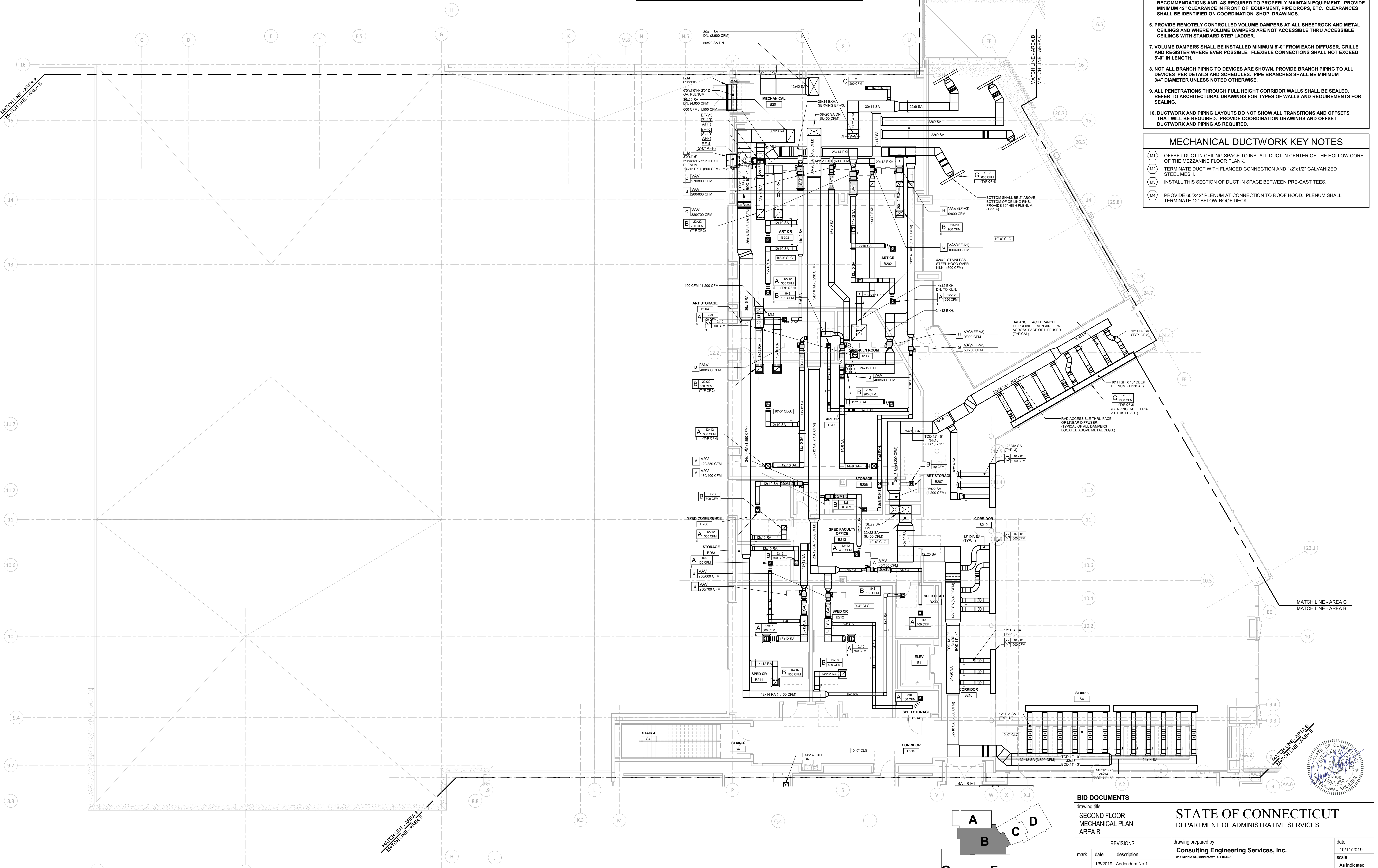
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MECHANICAL NOTES

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1 SECOND FLOOR MECHANICAL PLAN - AREA B
1/8" = 1'-0"

BID DOCUMENTS

drawing title
SECOND FLOOR MECHANICAL PLAN AREA B

REVISIONS		
mark	date	description
	11/8/2019	Addendum No. 1

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
Consulting Engineering Services, Inc.
811 Middle St., Middletown, CT 06457

date
10/11/2019

scale
As Indicated

drawn by
BSC

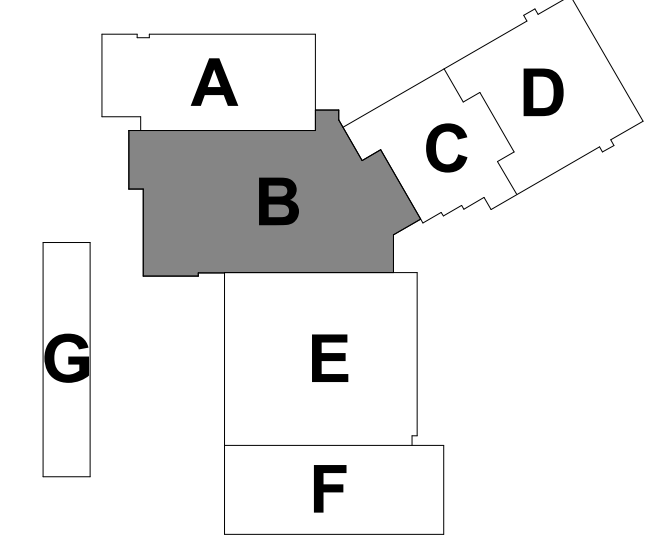
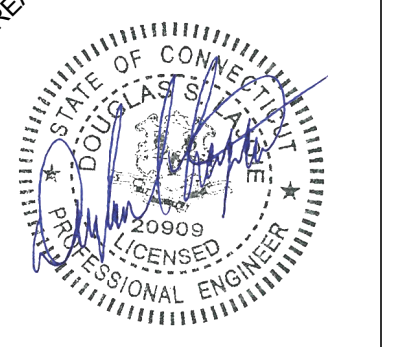
approved by
BSC

drawing no.
M1-1-2B

project
**Additions and Renovations
Platt Technical High School**
600 Orange Avenue Middletown, CT 06461

CAD no.
DCS project no.
BART-476 CM-R

OSCRG project no.
900-0113



FIRE DAMPER NOTE FOR FLOOR PENETRATIONS

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MECHANICAL NOTES

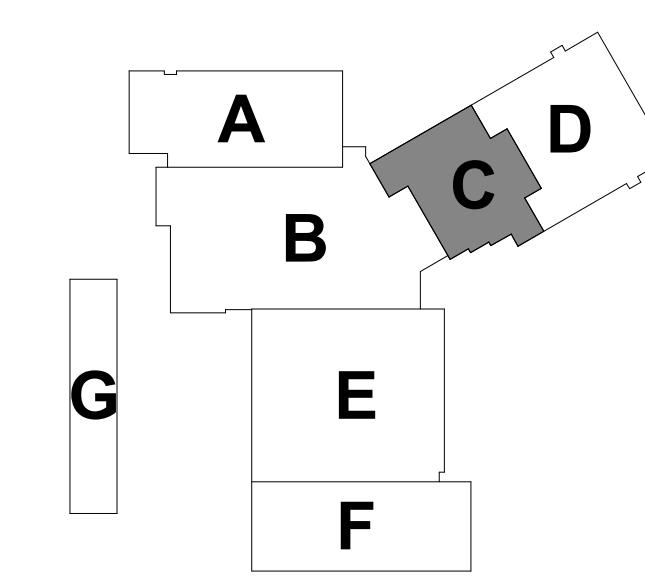
- SEE DRAWINGS M3-1-1, M3-1-2 & M3-1-3 FOR SYMBOL LIST AND SCHEDULES.
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1 SECOND FLOOR MECHANICAL PLAN - AREA C
1/8" = 1'-0"



BID DOCUMENTS

drawing title	SECOND FLOOR MECHANICAL PLAN AREA C	
mark	date	description
	11/8/2019	Addendum No. 1

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
Consulting Engineering Services, Inc.
811 Middle St., Middletown, CT 06457

date
10/11/2019

scale
As Indicated

drawn by
BSC

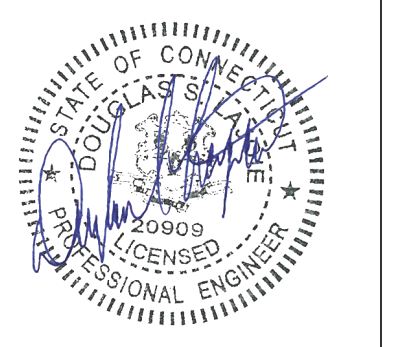
approved by
BSC

drawing no.
M1-1-2C

project
**Additions and Renovations
Platt Technical High School**
600 Orange Avenue Middletown, CT 06461

CAD no.
DCS project no.
B1-RF-076 CM-R

OSCRG project no.
990-0013



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MECHANICAL NOTES

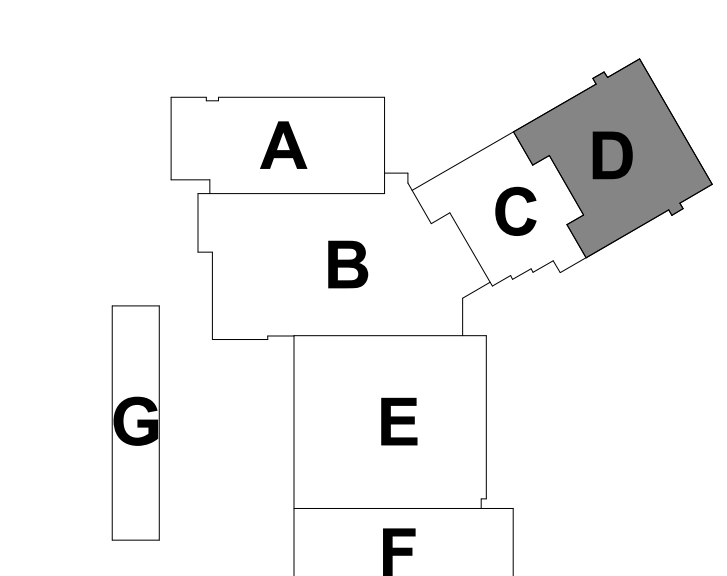
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1 SECOND FLOOR MECHANICAL PLAN - AREA D
1/8" = 1'-0"



BID DOCUMENTS

drawing title SECOND FLOOR MECHANICAL PLAN AREA D		
REVISIONS		
mark	date	description
	11/8/2019	Addendum No. 1

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
Consulting Engineering Services, Inc.
911 Middle St., Wallingford, CT 06497

date
10/11/2019

scale
As Indicated

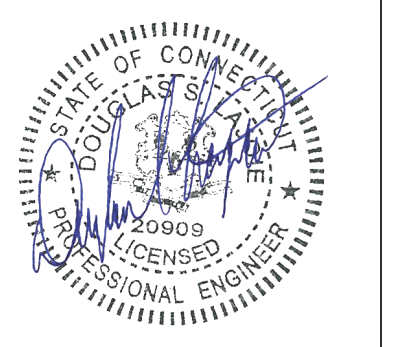
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Author

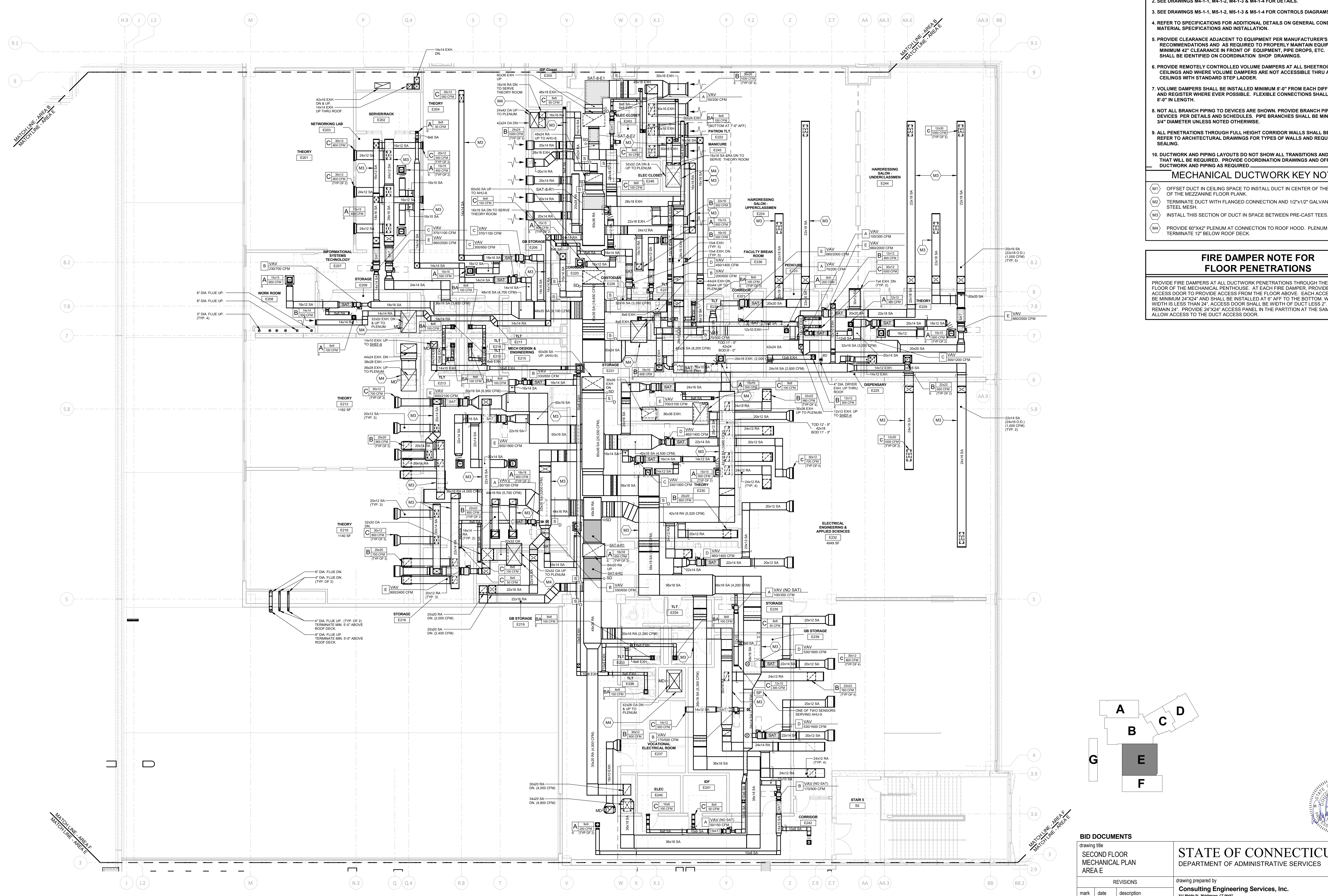
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Approver

drawing no.
M1-1-2D

project
**Additions and Renovations
Platt Technical High School**
600 Orange Avenue Middletown, CT 06461

CAD no. DCS project no. OSGCR project no.
B1-RT-476 CM-R 900-0113





MECHANICAL NOTES

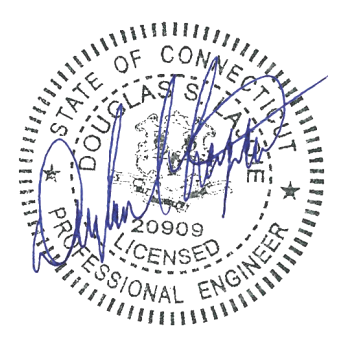
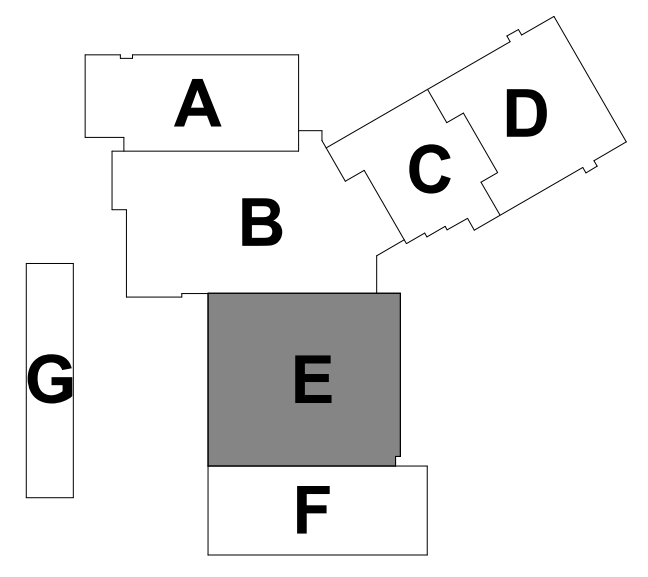
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- (M2) TERMINATE DUCT WITH FLANGED CONNECTION AND 1/2"x12" GALVANIZED STEEL MESH.
- (M3) INSTALL THIS SECTION OF DUCT IN SPACE BETWEEN PRE-CAST TEES.
- (M4) PROVIDE 60"x42" PLENUM AT CONNECTION TO ROOF HOOD. PLENUM SHALL TERMINATE 12" BELOW ROOF DECK.

FIRE DAMPER NOTE FOR FLOOR PENETRATIONS

PROVIDE FIRE DAMPERS AT ALL DUCTWORK PENETRATIONS THROUGH THE 2ND FLOOR AND FLOOR OF THE MECHANICAL PENTHOUSE. AT EACH FIRE DAMPER PROVIDE A DUCT ACCESS DOOR TO PROVIDE ACCESS FROM THE FLOOR ABOVE. EACH ACCESS DOOR SHALL BE MINIMUM 24"x24" AND SHALL BE INSTALLED AT 6" AFF TO THE BOTTOM. WHERE DUCT WIDTH IS LESS THAN 24", ACCESS DOOR SHALL BE WIDTH OF DUCT LESS 2". HEIGHT SHALL REMAIN 24". PROVIDE 24"x24" ACCESS PANEL IN THE PARTITION AT THE SAME HEIGHT TO ALLOW ACCESS TO THE DUCT ACCESS DOOR.



1 SECOND FLOOR MECHANICAL PLAN - AREA E
1/8" = 1'-0"

REVISIONS		drawing title	
mark	date	description	date
	11/8/2019	Addendum No. 1	10/11/2019

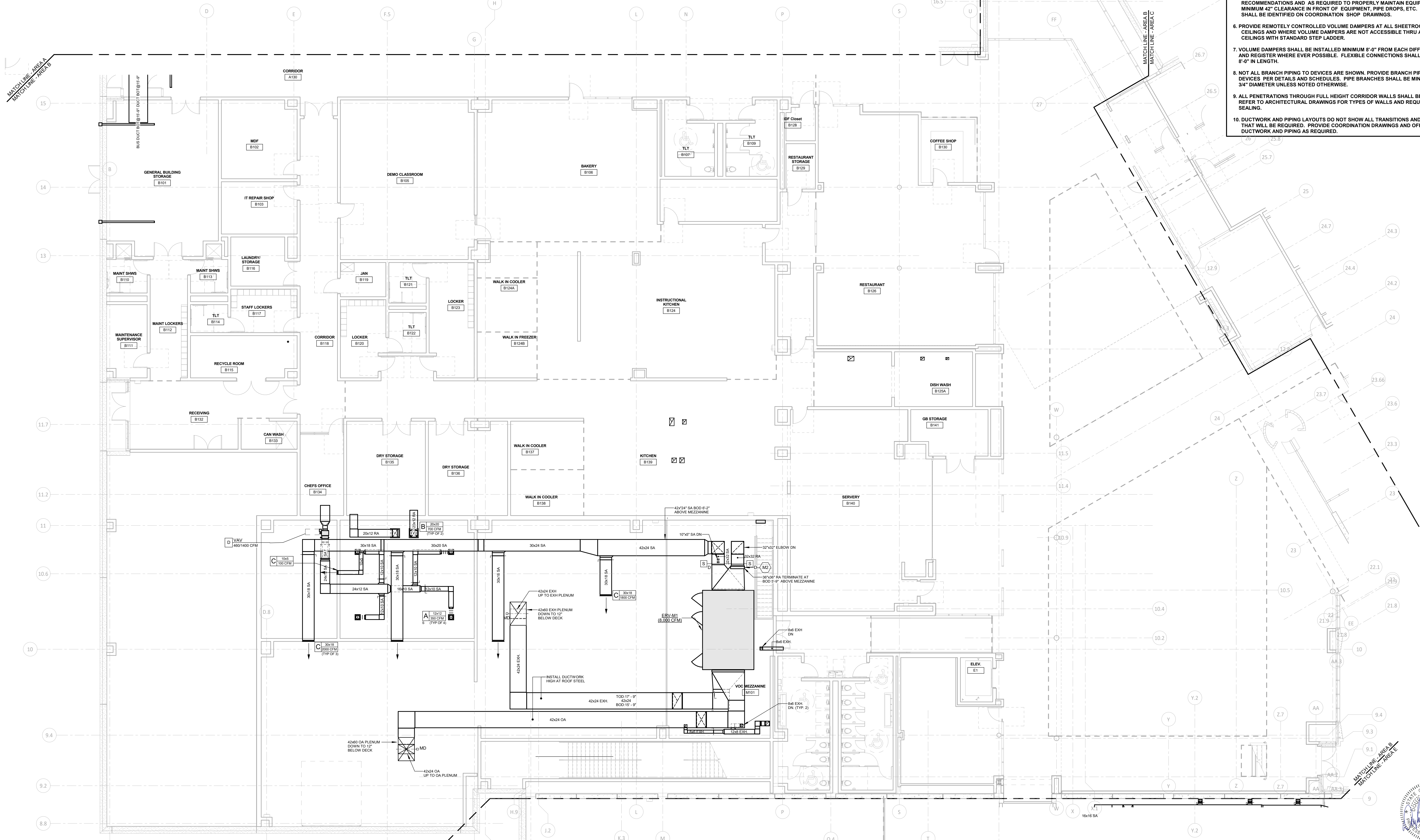
BID DOCUMENTS SECOND FLOOR MECHANICAL PLAN AREA E		drawing prepared by Consulting Engineering Services, Inc. 811 Middle St., Middletown, CT 06457	
project Additions and Renovations Platt Technical High School 600 Orange Avenue Middletown, CT 06461		date 10/11/2019 scale As Indicated drawn by [signature] approved by [signature] drawing no. M1-1-2E	
CAD no.	DCS project no. 81-RF-276 CM-R	OSCRG project no. 900-0113	

MECHANICAL DUCTWORK KEY NOTES

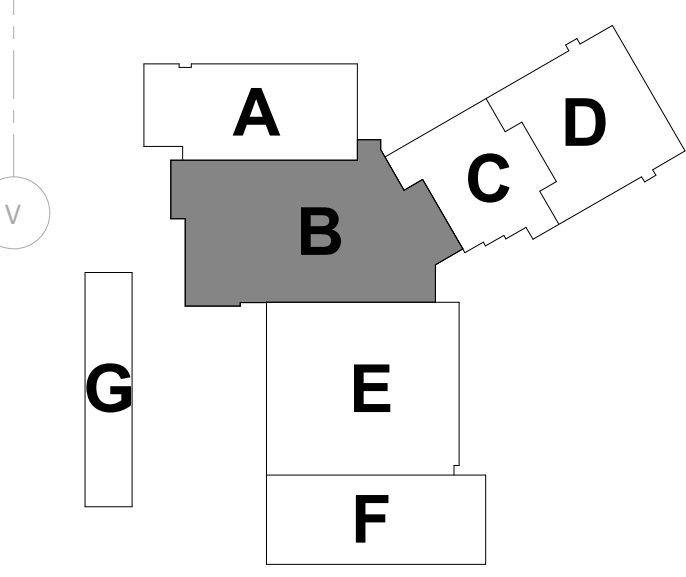
- M1 OFFSET DUCT IN CEILING SPACE TO INSTALL DUCT IN CENTER OF THE HOLLOW CORE OF THE MEZZANINE FLOOR PLANK.
- M2 TERMINATE DUCT WITH FLANGED CONNECTION AND 1/2"x1/2" GALVANIZED STEEL MESH.
- M3 INSTALL THIS SECTION OF DUCT IN SPACE BETWEEN PRE-CAST TEES.
- M4 PROVIDE 60"x42" PLENUM AT CONNECTION TO ROOF HOOD. PLENUM SHALL TERMINATE 12" BELOW ROOF DECK.

MECHANICAL NOTES

1. SEE DRAWINGS M3-1-1, M3-1-2 & M3-1-3 FOR SYMBOL LIST AND SCHEDULES.
2. SEE DRAWINGS M4-1-1, M4-1-2, M4-1-3 & M4-1-4 FOR DETAILS.
3. SEE DRAWINGS M5-1-1, M5-1-2, M5-1-3 & M5-1-4 FOR CONTROLS DIAGRAMS.
4. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS ON GENERAL CONDITIONS, MATERIAL SPECIFICATIONS AND INSTALLATION.
5. PROVIDE CLEARANCE ADJACENT TO EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED TO PROPERLY MAINTAIN EQUIPMENT. PROVIDE MINIMUM 42" CLEARANCE IN FRONT OF EQUIPMENT, PIPE DROPS, ETC. CLEARANCES SHALL BE IDENTIFIED ON COORDINATION SHOP DRAWINGS.
6. PROVIDE REMOTELY CONTROLLED VOLUME DAMPERS AT ALL SHEETROCK AND METAL CEILINGS AND WHERE VOLUME DAMPERS ARE NOT ACCESSIBLE THRU ACCESSIBLE CEILINGS WITH STANDARD STEP LADDER.
7. VOLUME DAMPERS SHALL BE INSTALLED MINIMUM 8'-0" FROM EACH DIFFUSER, GRILLE AND REGISTER WHERE EVER POSSIBLE. FLEXIBLE CONNECTIONS SHALL NOT EXCEED 8'-0" IN LENGTH.
8. NOT ALL BRANCH PIPING TO DEVICES ARE SHOWN. PROVIDE BRANCH PIPING TO ALL DEVICES PER DETAILS AND SCHEDULES. PIPE BRANCHES SHALL BE MINIMUM 3/4" DIAMETER UNLESS NOTED OTHERWISE.
9. ALL PENETRATIONS THROUGH FULL HEIGHT CORRIDOR WALLS SHALL BE SEALED. REFER TO ARCHITECTURAL DRAWINGS FOR TYPES OF WALLS AND REQUIREMENTS FOR SEALING.
10. DUCTWORK AND PIPING LAYOUTS DO NOT SHOW ALL TRANSITIONS AND OFFSETS THAT WILL BE REQUIRED. PROVIDE COORDINATION DRAWINGS AND OFFSET DUCTWORK AND PIPING AS REQUIRED.



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



BID DOCUMENTS

drawing title
MEZZANINE MECHANICAL PLAN AREA B

REVISIONS	
mark	description
11/8/2019	Addendum No. 1

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
Consulting Engineering Services, Inc.
811 Middle St., Wallingford, CT 06497

date
10/11/2019

scale
As Indicated

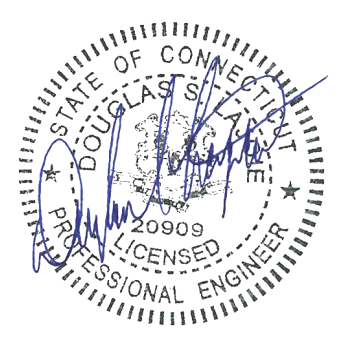
drawn by
sm

approved by
smw

drawing no.
M1-1-MB

project
**Additions and Renovations
Platt Technical High School**
600 Orange Avenue Wallingford, CT 06461

CAD no. DCS project no. OSOGR project no.
B1-RT-076 CM-R 900-0013



MECHANICAL NOTES

- SEE DRAWINGS M3-1.1, M3-1.2 & M3-1.3 FOR SYMBOL LIST AND SCHEDULES.
- SEE DRAWINGS M4-1.1, M4-1.2, M4-1.3 & M4-1.4 FOR DETAILS.
- SEE DRAWINGS M5-1.1, M5-1.2, M5-1.3 & M5-1.4 FOR CONTROLS DIAGRAMS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS ON GENERAL CONDITIONS, MATERIAL SPECIFICATIONS AND INSTALLATION.
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- M1 OFFSET DUCT IN CEILING SPACE TO INSTALL DUCT IN CENTER OF THE HOLLOW CORE OF THE MEZZANINE FLOOR PLANK.
- M2 TERMINATE DUCT WITH FLANGED CONNECTION AND 1/2"x1/2" GALVANIZED STEEL MESH.
- M3 INSTALL THIS SECTION OF DUCT IN SPACE BETWEEN PRE-CAST TEES.
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DUST COLLECTOR DC-1 SCHEDULE

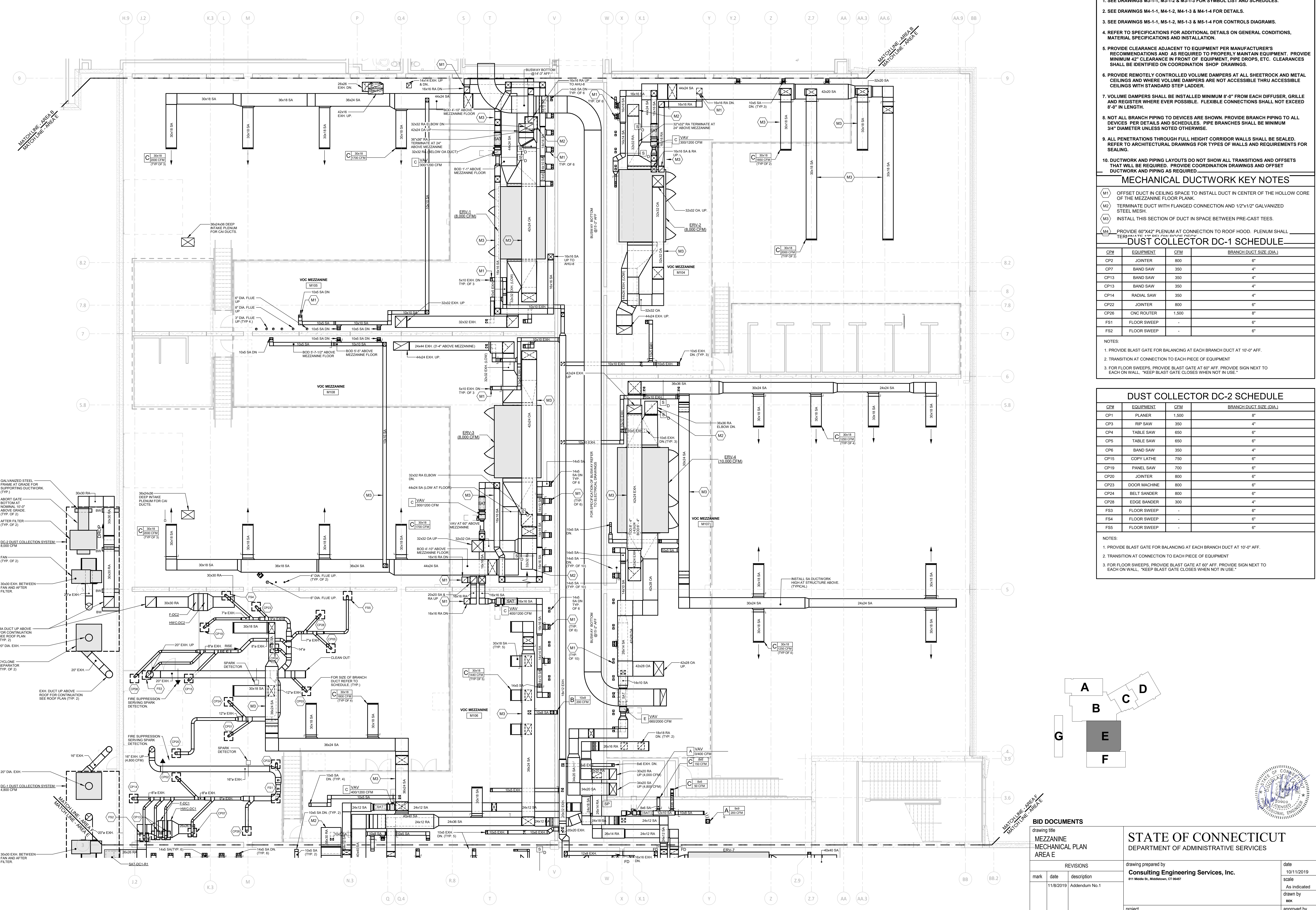
CP#	EQUIPMENT	CFM	BRANCH DUCT SIZE (DIA.)
CP2	JOINTER	800	6"
CP7	BAND SAW	350	4"
CP13	BAND SAW	350	4"
CP14	RADIAL SAW	350	4"
CP22	JOINTER	800	6"
CP26	CNC ROUTER	1,500	8"
FS1	FLOOR SWEEP	-	6"
FS2	FLOOR SWEEP	-	6"

- NOTES:
- PROVIDE BLAST GATE FOR BALANCING AT EACH BRANCH DUCT AT 10'-0" AFF.
 - TRANSITION AT CONNECTION TO EACH PIECE OF EQUIPMENT
 - FOR FLOOR SWEEPS, PROVIDE BLAST GATE AT 60" AFF. PROVIDE SIGN NEXT TO EACH ON WALL. "KEEP BLAST GATE CLOSES WHEN NOT IN USE."

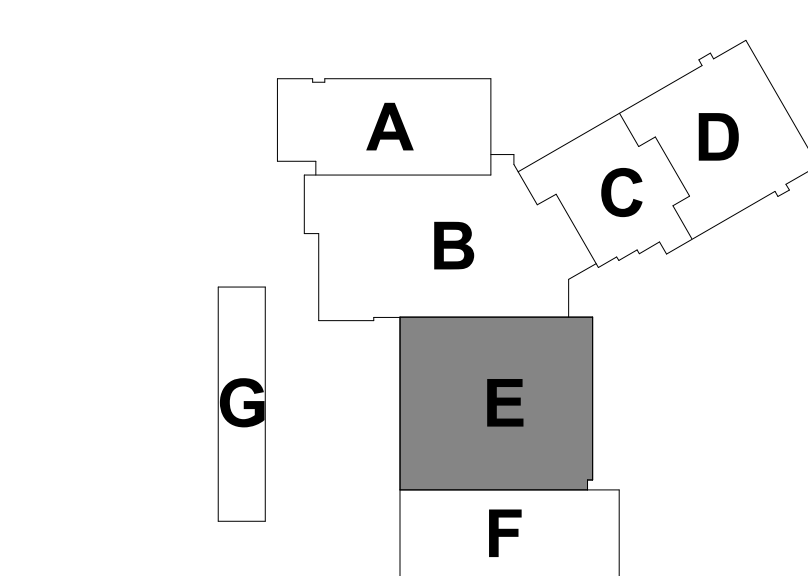
DUST COLLECTOR DC-2 SCHEDULE

CP#	EQUIPMENT	CFM	BRANCH DUCT SIZE (DIA.)
CP1	PLANNER	1,500	8"
CP3	RIP SAW	350	4"
CP4	TABLE SAW	650	6"
CP5	TABLE SAW	650	6"
CP6	BAND SAW	350	4"
CP15	COPY LATHE	750	6"
CP19	PANEL SAW	700	6"
CP20	JOINTER	800	6"
CP23	DOOR MACHINE	800	6"
CP24	BELT SANDER	800	6"
CP28	EDGE BANDER	300	4"
FS3	FLOOR SWEEP	-	6"
FS4	FLOOR SWEEP	-	6"
FS5	FLOOR SWEEP	-	6"

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MEZZANINE MECHANICAL PLAN - AREA E
1/8" = 1'-0"



BID DOCUMENTS

drawing title
MEZZANINE MECHANICAL PLAN AREA E

drawing date
11/8/2019

addendum No. 1

drawing scale
As Indicated

drawing by
ME

drawing checked by
ME

drawing no.
M1-1-ME

drawing date
10/11/2019

scale
As Indicated

drawn by
ME

approved by
ME

drawing no.
M1-1-ME

project
**Additions and Renovations
Platt Technical High School**
600 Orange Avenue Middletown, CT 06461

CAD no.
DCS project no.
81-RT-076 CM-R

OSCRG project no.
990-0013

drawing prepared by
Consulting Engineering Services, Inc.
911 Middle St., Middletown, CT 06457

date
10/11/2019

scale
As Indicated

drawn by
ME

approved by
ME

drawing no.
M1-1-ME

drawing title
**STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES**

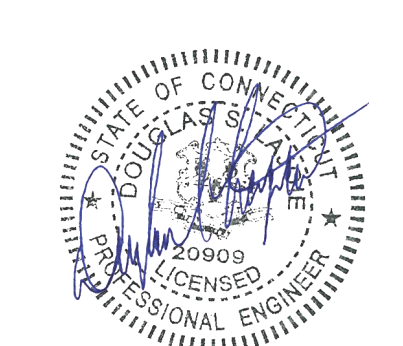
drawing date
10/11/2019

scale
As Indicated

drawn by
ME

approved by
ME

drawing no.
M1-1-ME

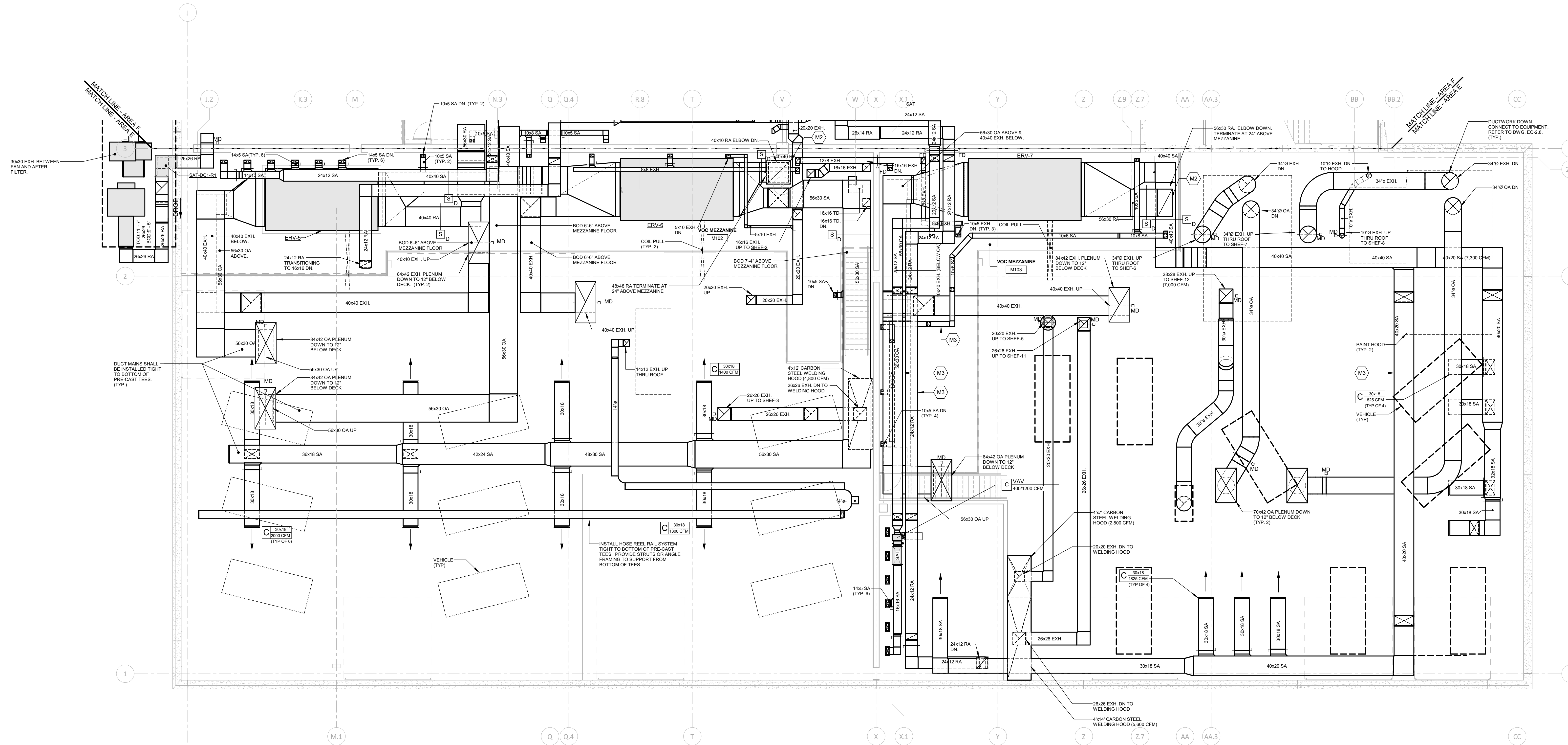


MECHANICAL NOTES

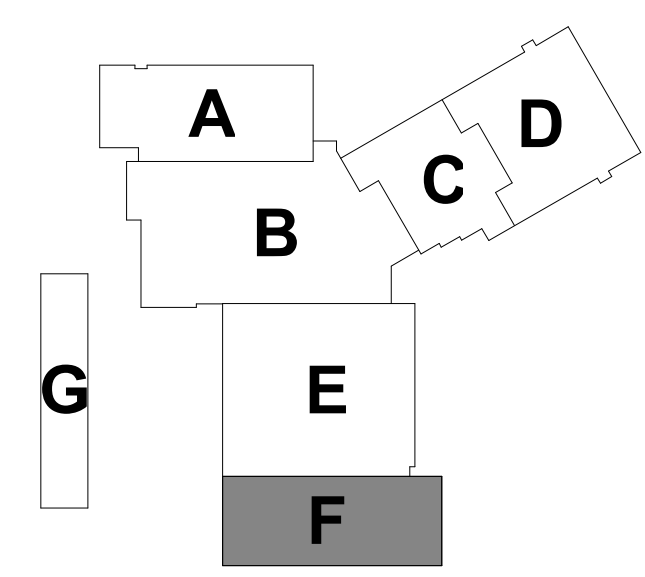
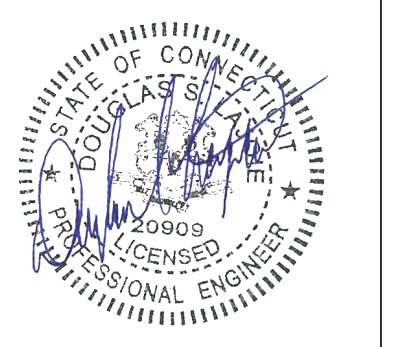
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- SEE DRAWINGS M4-1-1, M4-1-2, M4-1-3 & M4-1-4 FOR DETAILS.
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MECHANICAL DUCTWORK KEY NOTES

- (M1) OFFSET DUCT IN CEILING SPACE TO INSTALL DUCT IN CENTER OF THE HOLLOW CORE OF THE MEZZANINE FLOOR PLANK.
- (M2) TERMINATE DUCT WITH FLANGED CONNECTION AND 1/2"x1/2" GALVANIZED STEEL MESH.
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1 MEZZANINE MECHANICAL PLAN - AREA F
1/8" = 1'-0"



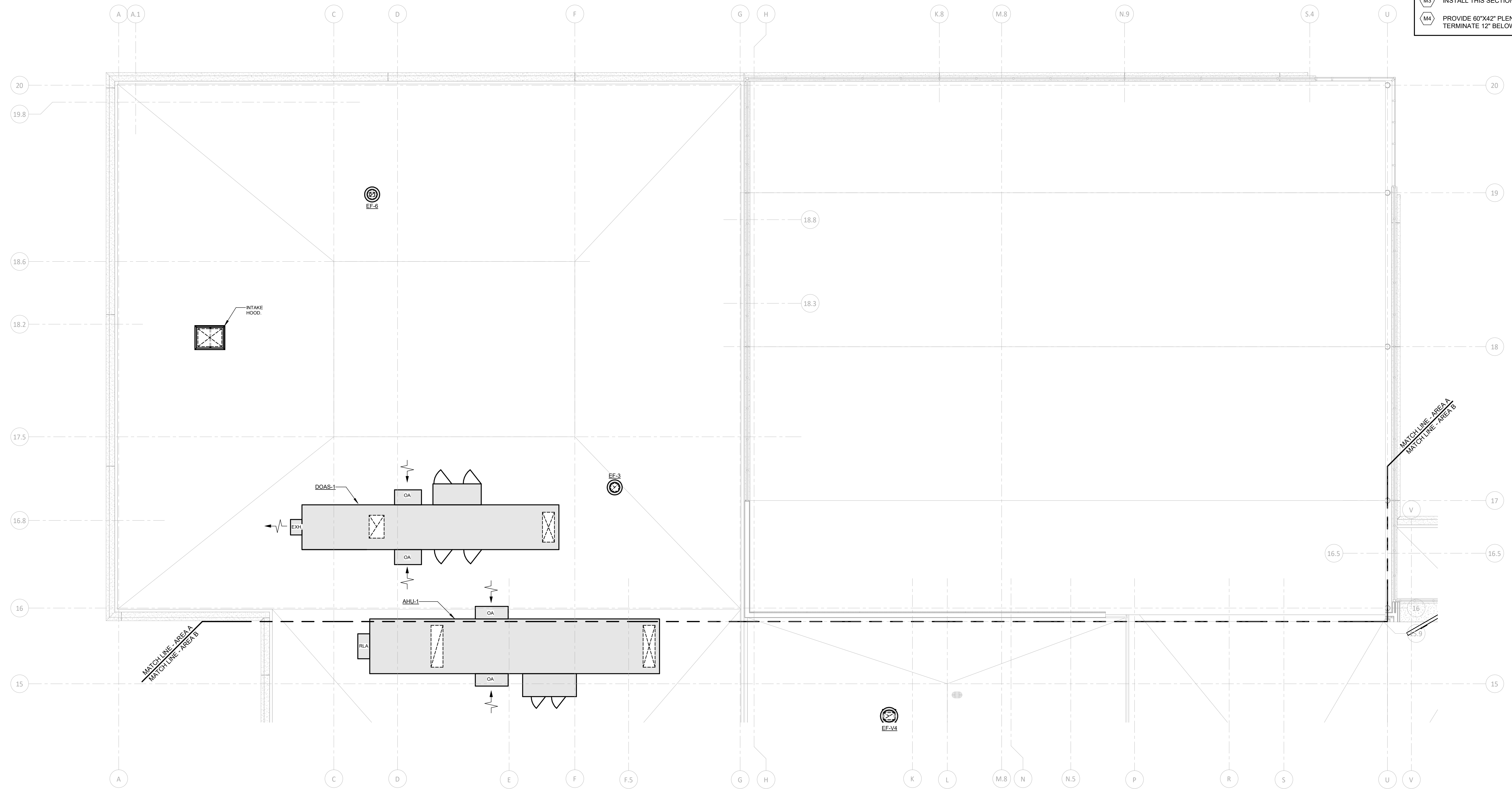
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MEZZANINE MECHANICAL PLAN AREA F		mark	date	description	As Indicated
		11/8/2019		Addendum No. 1	
drawing prepared by		project		date	
Consulting Engineering Services, Inc.		Additions and Renovations Platt Technical High School		10/11/2019	
811 Middle St., Wallingford, CT 06497		400 Orange Avenue Wallingford, CT 06491		scale	
		CAD no.		approved by	
		DCS project no. B1-RF-076 CM-R		scw	
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				M1-1-MF	

MECHANICAL NOTES

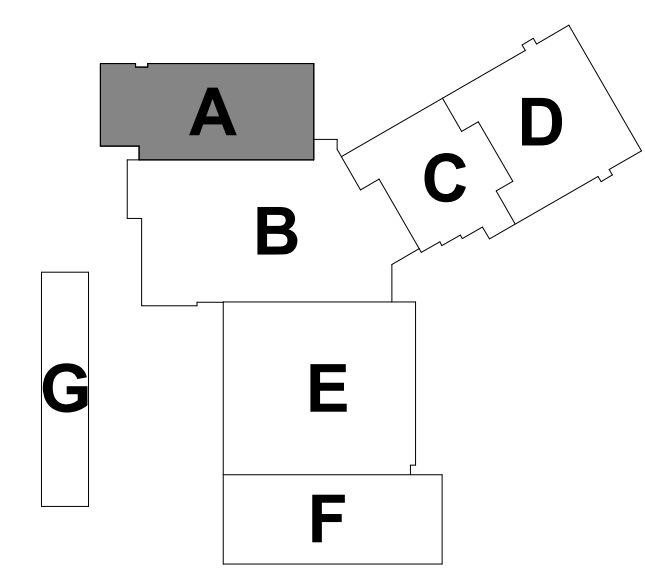
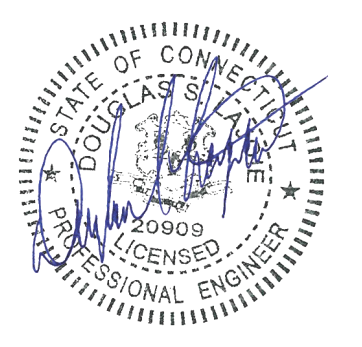
1. SEE DRAWINGS M3-1-1, M3-1-2 & M3-1-3 FOR SYMBOL LIST AND SCHEDULES.
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1 ROOF MECHANICAL PLAN - AREA A
1/8" = 1'-0"



BID DOCUMENTS

drawing title ROOF MECHANICAL PLAN AREA A		
REVISIONS		
mark	date	description
	11/8/2019	Addendum No. 1

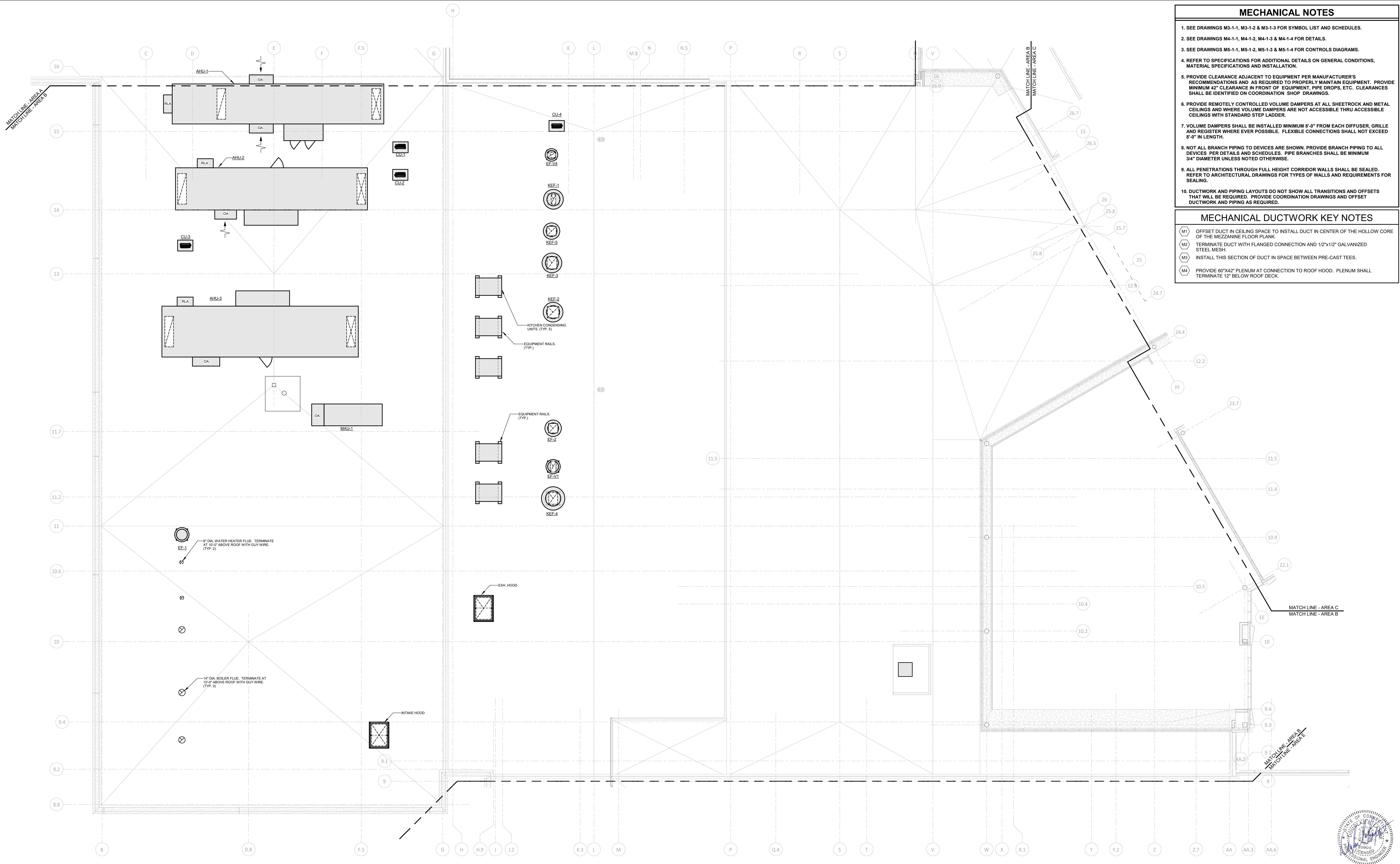
STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES		date 10/11/2019
drawing prepared by Consulting Engineering Services, Inc. 811 Middle St., Middletown, CT 06457		scale As Indicated
project Additions and Renovations Platt Technical High School 600 Orange Avenue Middletown, CT 06461		drawn by msk
CAD no.	DCS project no. B1-RF-272 CM-R	approved by ssw
	OSGCR project no. 990-0113	drawing no. M1-2-1A

MECHANICAL NOTES

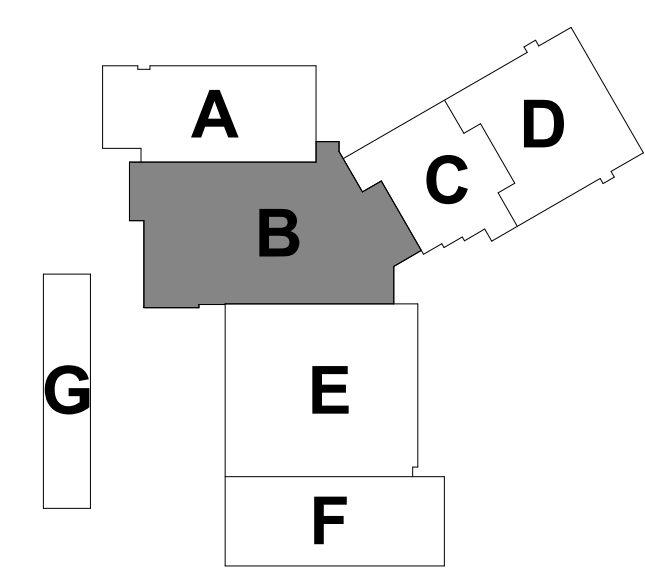
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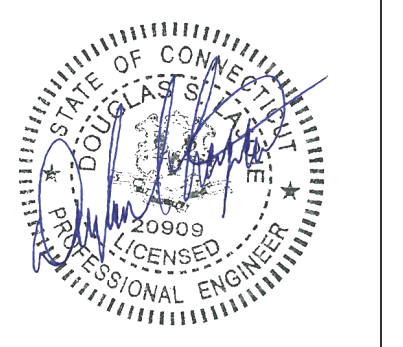
1 ROOF MECHANICAL PLAN - AREA B
1/8" = 1'-0"



BID DOCUMENTS

drawing title ROOF MECHANICAL PLAN AREA B		
REVISIONS		
mark	date	description
	11/8/2019	Addendum No. 1

<p>STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES</p>		<p>date 10/11/2019</p> <p>scale As Indicated</p> <p>drawn by BSC</p> <p>approved by BSC</p> <p>drawing no. M1-2-1B</p>
<p>drafting prepared by Consulting Engineering Services, Inc. 811 Middle St., Middletown, CT 06457</p>		<p>project Additions and Renovations Platt Technical High School 600 Orange Avenue Middletown, CT 06461</p>
CAD no.	DCS project no. B1-RF-076 CM-R	OSCR project no. 990-0013

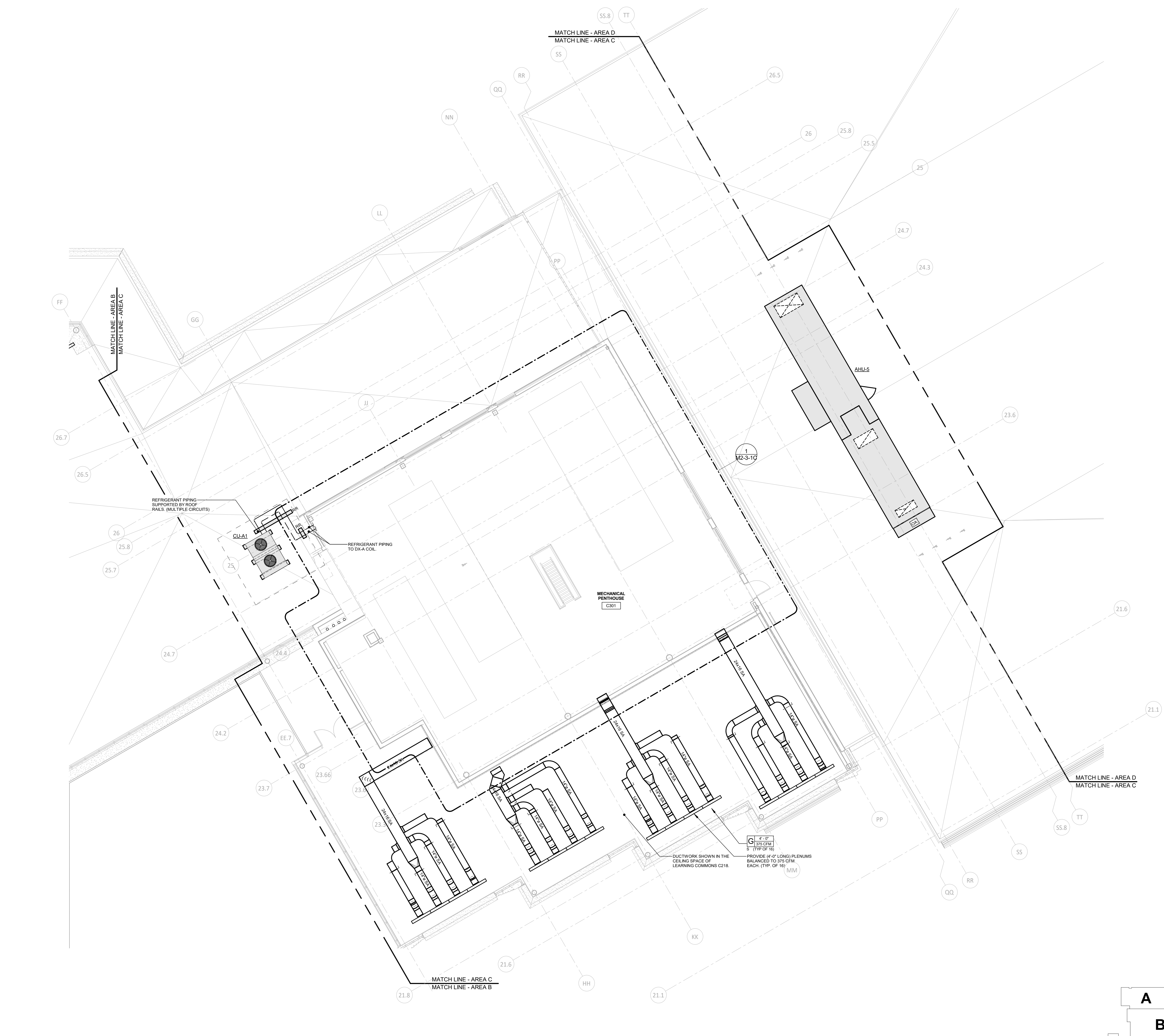


MECHANICAL NOTES

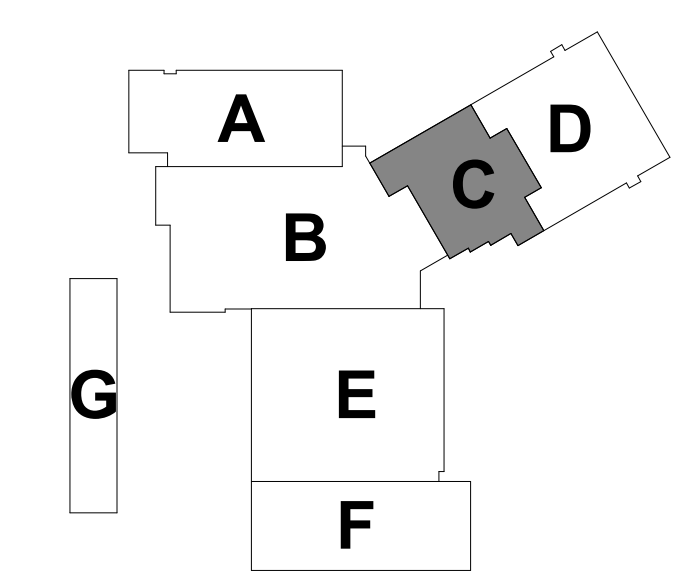
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- (M2) TERMINATE DUCT WITH FLANGED CONNECTION AND 1/2"x12" GALVANIZED STEEL MESH.
- (M3) INSTALL THIS SECTION OF DUCT IN SPACE BETWEEN PRE-CAST TEES.
- (M4) PROVIDE 60"x42" PLENUM AT CONNECTION TO ROOF HOOD. PLENUM SHALL TERMINATE 12' BELOW ROOF DECK.



1 ROOF MECHANICAL PLAN - AREA C
1/8" = 1'-0"



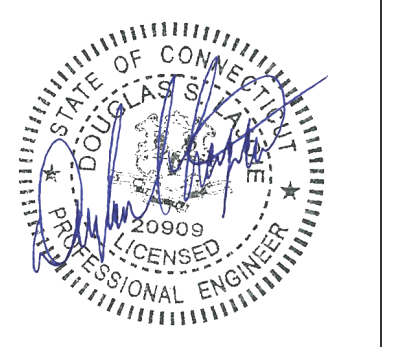
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drawing title		ROOF MECHANICAL PLAN AREA C	
drawing prepared by		Consulting Engineering Services, Inc. 811 Middle St., Middletown, CT 06457	
date		10/11/2019	
scale		As Indicated	
drawn by		msw	
approved by		msw	
drawing no.		M1-2-1C	
mark	date	description	
	11/8/2019	Addendum No. 1	

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

project
**Additions and Renovations
Platt Technical High School**
600 Orange Avenue Middletown, CT 06461

CAD no. DCS project no. OSOGR project no.
B1-RT-076 CM-R 990-0013

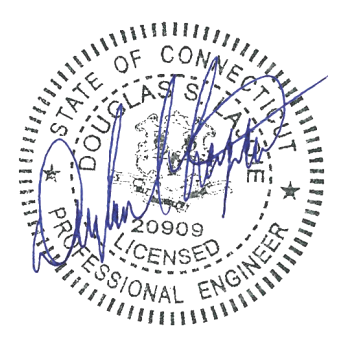
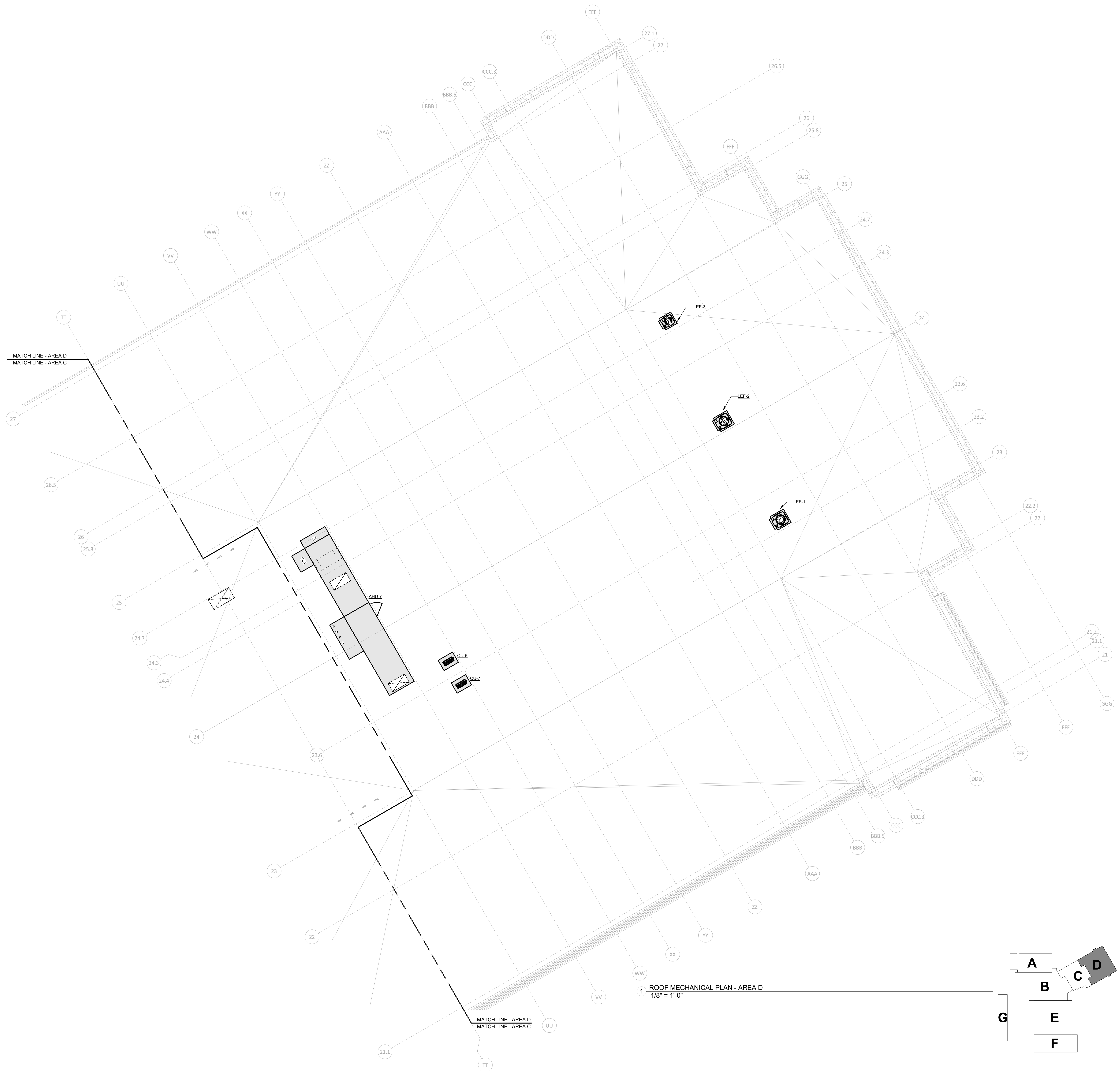


MECHANICAL NOTES

1. SEE DRAWINGS M3-1-1, M3-1-2 & M3-1-3 FOR SYMBOL LIST AND SCHEDULES.
2. SEE DRAWINGS M4-1-1, M4-1-2, M4-1-3 & M4-1-4 FOR DETAILS.
3. SEE DRAWINGS M5-1-1, M5-1-2, M5-1-3 & M5-1-4 FOR CONTROLS DIAGRAMS.
4. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS ON GENERAL CONDITIONS, MATERIAL SPECIFICATIONS AND INSTALLATION.
5. PROVIDE CLEARANCE ADJACENT TO EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED TO PROPERLY MAINTAIN EQUIPMENT. PROVIDE MINIMUM 42" CLEARANCE IN FRONT OF EQUIPMENT, PIPE DROPS, ETC. CLEARANCES SHALL BE IDENTIFIED ON COORDINATION SHOP DRAWINGS.
6. PROVIDE REMOTELY CONTROLLED VOLUME DAMPERS AT ALL SHEETROCK AND METAL CEILINGS AND WHERE VOLUME DAMPERS ARE NOT ACCESSIBLE THRU ACCESSIBLE CEILINGS WITH STANDARD STEP LADDER.
7. VOLUME DAMPERS SHALL BE INSTALLED MINIMUM 8'-0" FROM EACH DIFFUSER, GRILLE AND REGISTER WHERE EVER POSSIBLE. FLEXIBLE CONNECTIONS SHALL NOT EXCEED 8'-0" IN LENGTH.
8. NOT ALL BRANCH PIPING TO DEVICES ARE SHOWN. PROVIDE BRANCH PIPING TO ALL DEVICES PER DETAILS AND SCHEDULES. PIPE BRANCHES SHALL BE MINIMUM 3/4" DIAMETER UNLESS NOTED OTHERWISE.
9. ALL PENETRATIONS THROUGH FULL HEIGHT CORRIDOR WALLS SHALL BE SEALED. REFER TO ARCHITECTURAL DRAWINGS FOR TYPES OF WALLS AND REQUIREMENTS FOR SEALING.
10. DUCTWORK AND PIPING LAYOUTS DO NOT SHOW ALL TRANSITIONS AND OFFSETS THAT WILL BE REQUIRED. PROVIDE COORDINATION DRAWINGS AND OFFSET DUCTWORK AND PIPING AS REQUIRED.

MECHANICAL DUCTWORK KEY NOTES

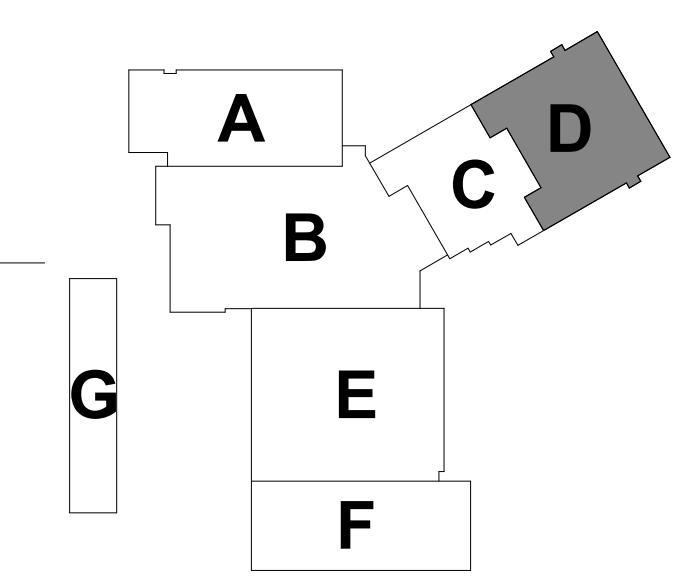
- (M1) OFFSET DUCT IN CEILING SPACE TO INSTALL DUCT IN CENTER OF THE HOLLOW CORE OF THE MEZZANINE FLOOR PLANK.
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- (M3) INSTALL THIS SECTION OF DUCT IN SPACE BETWEEN PRE-CAST TEES.
- (M4) PROVIDE 60"x42" PLENUM AT CONNECTION TO ROOF HOOD. PLENUM SHALL TERMINATE 12" BELOW ROOF DECK.



BID DOCUMENTS

drawing title ROOF MECHANICAL PLAN AREA D		
REVISIONS		
mark	date	description
	11/8/2019	Addendum No. 1

STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES		date 10/11/2019
drawing prepared by Consulting Engineering Services, Inc. 811 Middle St., Middletown, CT 06457		scale As Indicated
project Additions and Renovations Platt Technical High School 600 Orange Avenue Middletown, CT 06461		drawn by BSE
CAD no.	DCS project no. B1-RF-272 CM-R	OSGCR project no. 990-0013
		approved by BSE
		drawing no. M1-2-1D

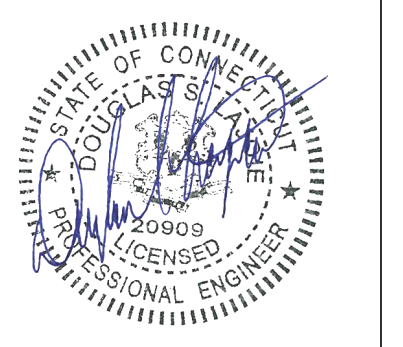
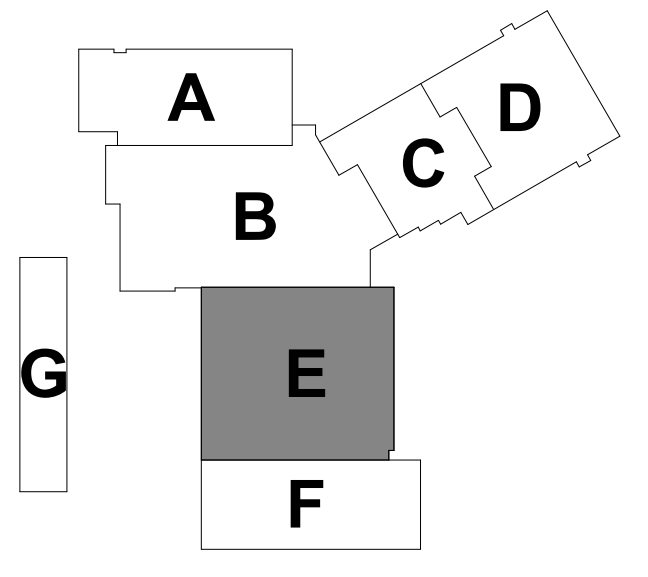
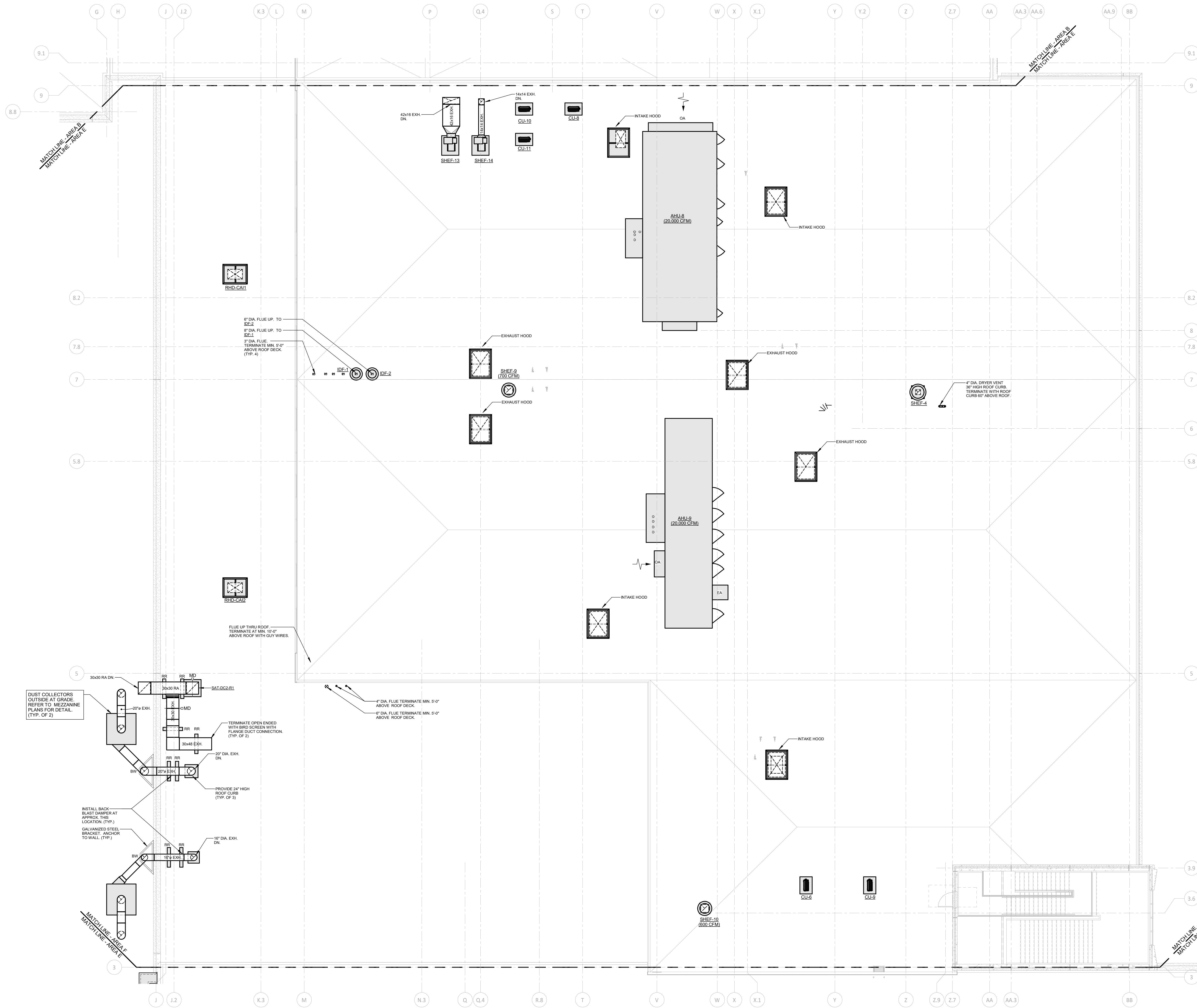


MECHANICAL NOTES

- SEE DRAWINGS M3-1-1, M3-1-2 & M3-1-3 FOR SYMBOL LIST AND SCHEDULES.
- SEE DRAWINGS M4-1-1, M4-1-2, M4-1-3 & M4-1-4 FOR DETAILS.
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- REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS ON GENERAL CONDITIONS, MATERIAL SPECIFICATIONS AND INSTALLATION.
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MECHANICAL DUCTWORK KEY NOTES

- M1 OFFSET DUCT IN CEILING SPACE TO INSTALL DUCT IN CENTER OF THE HOLLOW CORE OF THE MEZZANINE FLOOR PLANK.
- M2 TERMINATE DUCT WITH FLANGED CONNECTION AND 1/2"x1/2" GALVANIZED STEEL MESH.
- M3 INSTALL THIS SECTION OF DUCT IN SPACE BETWEEN PRE-CAST TEES.
- M4 PROVIDE 60"x42" PLENUM AT CONNECTION TO ROOF HOOD. PLENUM SHALL TERMINATE 12" BELOW ROOF DECK.



1 ROOF MECHANICAL PLAN - AREA E
1/8" = 1'-0"

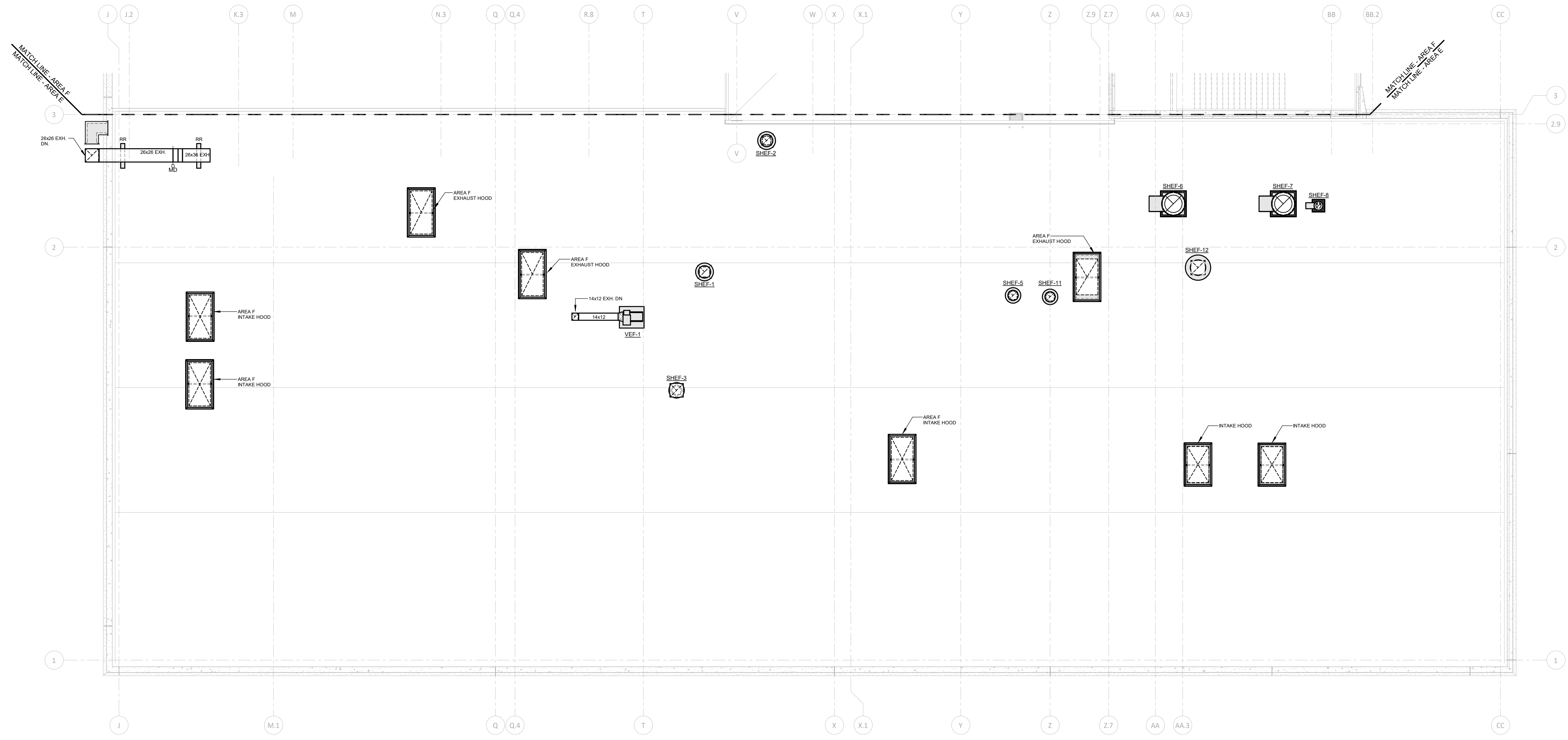
REVISIONS			drawing title	
mark	date	description	ROOF MECHANICAL PLAN AREA E	
	11/8/2019	Addendum No. 1		
drawing title			drawing prepared by	
			Consulting Engineering Services, Inc.	
			811 Middle St., Middletown, CT 06457	
			date	
			10/11/2019	
			scale	
			As Indicated	
			drawn by	
			BTK	
			approved by	
			BKW	
			drawing no.	
			M1-2-1E	
project			CAD no.	
Additions and Renovations Platt Technical High School 600 Orange Avenue Middletown, CT 06461			DCS project no. BART-076 CM-R	
OSGCR project no. 990-0013				

MECHANICAL NOTES

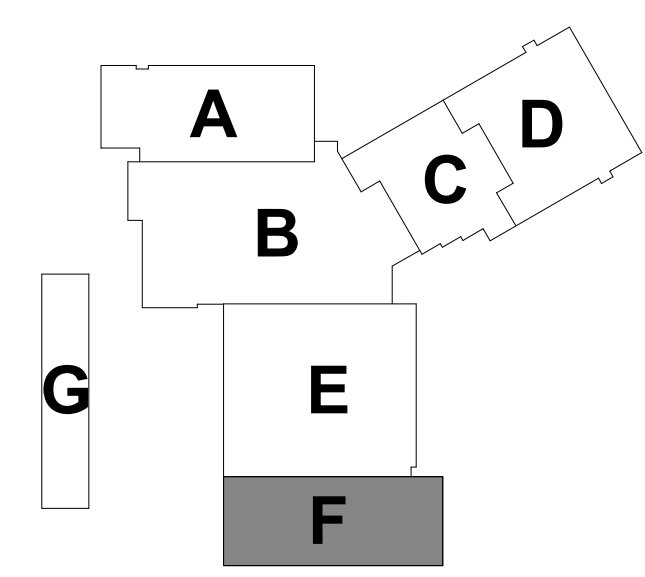
- SEE DRAWINGS M3-1-1, M3-1-2 & M3-1-3 FOR SYMBOL LIST AND SCHEDULES.
- SEE DRAWINGS M4-1-1, M4-1-2, M4-1-3 & M4-1-4 FOR DETAILS.
- SEE DRAWINGS M5-1-1, M5-1-2, M5-1-3 & M5-1-4 FOR CONTROLS DIAGRAMS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS ON GENERAL CONDITIONS, MATERIAL SPECIFICATIONS AND INSTALLATION.
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1 ROOF MECHANICAL PLAN - AREA F
1/8" = 1'-0"

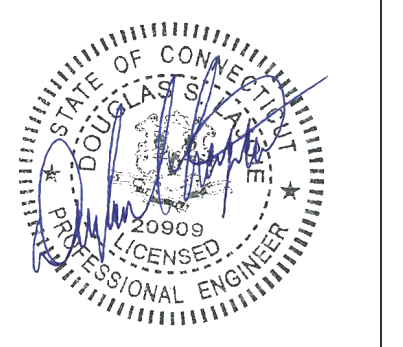


BID DOCUMENTS

drawing title ROOF MECHANICAL PLAN AREA F		
REVISIONS		
mark	date	description
	11/8/2019	Addendum No. 1

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by Consulting Engineering Services, Inc. 811 Middle St., Middletown, CT 06457	date 10/11/2019
project Additions and Renovations Platt Technical High School 600 Orange Avenue Middletown, CT 06461	scale As Indicated
CAD no. DCS project no. B1-RF-072 CM-R	OSGCR project no. 990-0013
drawn by msk	approved by ssw
drawing no. M1-2-1F	

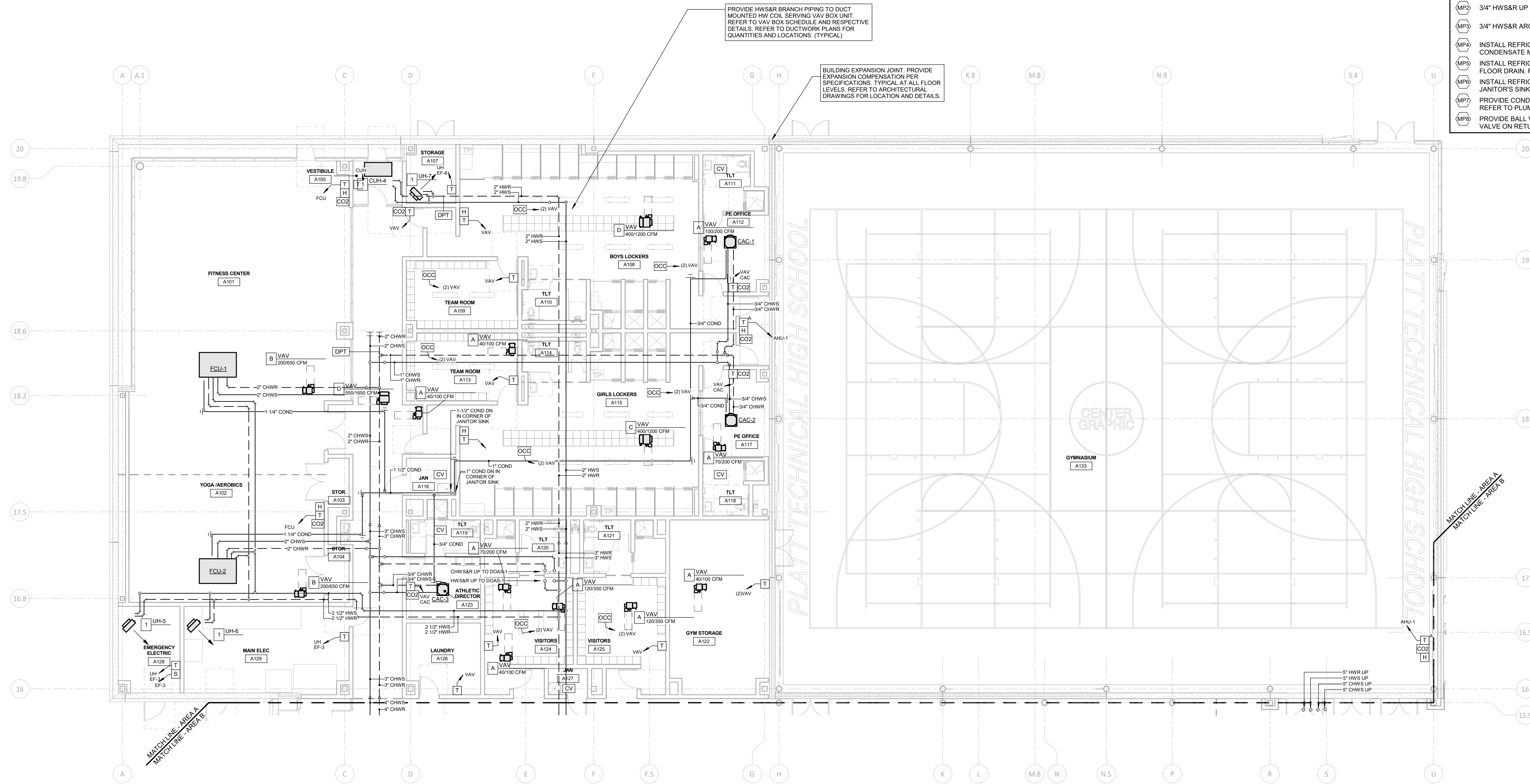


MECHANICAL NOTES

- SEE DRAWINGS M3-1-1, M3-1-2 & M3-1-3 FOR SYMBOL LIST AND SCHEDULES.
- SEE DRAWINGS M4-1-1, M4-1-2, M4-1-3 & M4-1-4 FOR DETAILS.
- SEE DRAWINGS M5-1-1, M5-1-2, M5-1-3 & M5-1-4 FOR CONTROLS DIAGRAMS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS ON GENERAL CONDITIONS, MATERIAL SPECIFICATIONS AND INSTALLATION.
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MECHANICAL PIPING KEY NOTES

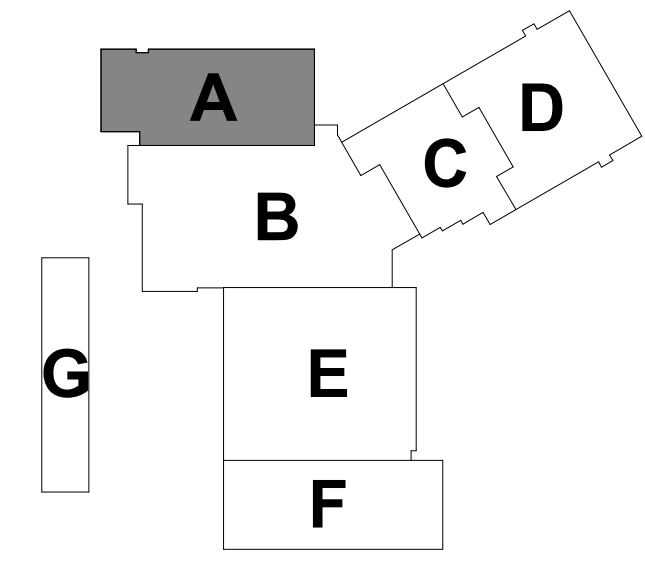
- (MP1) 3/4" HWS&R DOWN. OFFSET AND PROVIDE ELBOWS IN PARTITION TO ALIGN WITH PIPE CONNECTIONS AT RADIATION.
- (MP2) 3/4" HWS&R UP TO FLOOR ABOVE.
- (MP3) 3/4" HWS&R AROUND COLUMN FEEDING RADIATION.
- (MP4) INSTALL REFRIGERANT PIPING UP TO CU ON THE ROOF. INSTALL 3/4" CONDENSATE TO CONDENSATE MAIN.
- (MP5) INSTALL REFRIGERANT PIPING UP TO CU ON THE ROOF. INSTALL 3/4" CONDENSATE TO FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR LOCATION.
- (MP6) INSTALL REFRIGERANT PIPING UP TO CU ON THE ROOF. INSTALL 3/4" CONDENSATE TO JANITOR'S SINK IN CUSTODIAL CLOSET.
- (MP7) PROVIDE CONDENSATE PIPING FROM ERV TO FLOOR DRAIN AT THE SHOP LEVEL. REFER TO PLUMBING DRAWINGS FOR LOCATION.
- (MP8) PROVIDE BALL VALVES ON SUPPLY AND RETURN PIPING AND MANUAL BALANCE VALVE ON RETURN PIPING.



PROVIDE HWS&R BRANCH PIPING TO DUCT MOUNTED HW COIL SERVING VAV BOX UNIT. REFER TO VAV BOX SCHEDULE AND RESPECTIVE DETAILS. REFER TO DUCTWORK PLANS FOR QUANTITIES AND LOCATIONS. (TYPICAL)

BUILDING EXPANSION JOINT. PROVIDE EXPANSION COMPENSATION PER SPECIFICATIONS. TYPICAL AT ALL FLOOR LEVELS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND DETAILS.

1 FIRST FLOOR MECHANICAL PIPING PLAN - AREA A
1/8" = 1'-0"



BID DOCUMENTS

drawing title FIRST FLOOR MECHANICAL PIPING PLAN AREA A		
REVISIONS		
mark	date	description
	11/8/2019	Addendum No. 1

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
Consulting Engineering Services, Inc.
811 Middle St., Middletown, CT 06457

date
10/11/2019

scale
As Indicated

drawn by
AMK

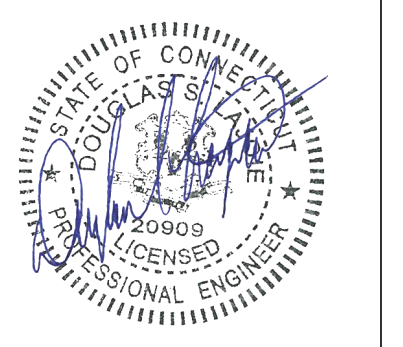
approved by
BSW

drawing no.
M2-1-1A

project
Additions and Renovations Platt Technical High School
600 Orange Avenue Middletown, CT 06461

CAD no.
DCS project no. 81-RF-076 CM-R

OSGCR project no.
990-0013

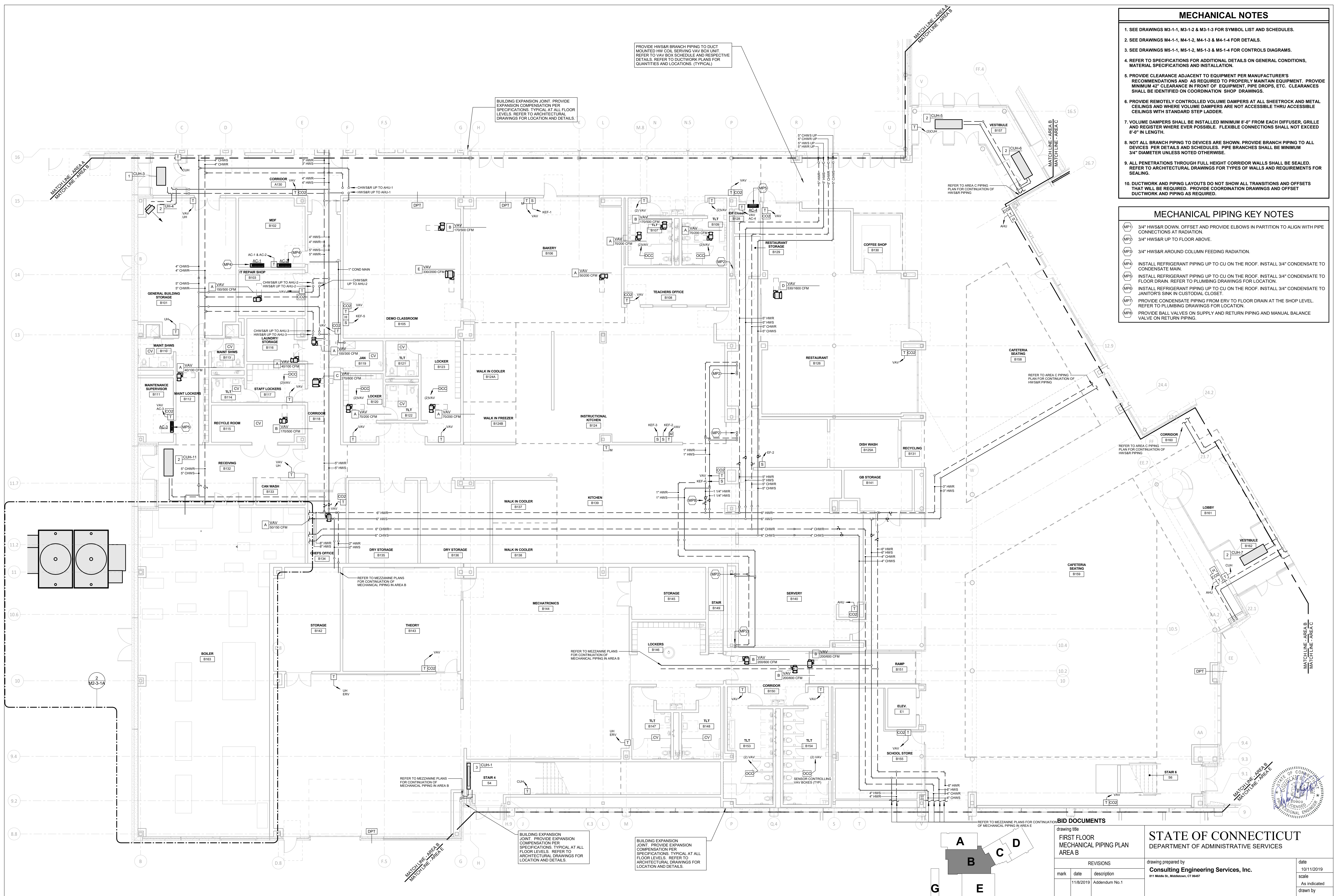


MECHANICAL NOTES

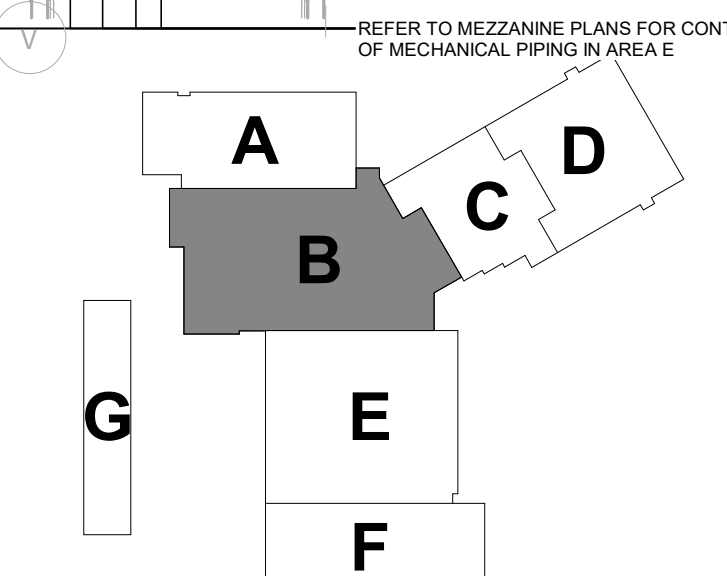
- SEE DRAWINGS M3-1-1, M3-1-2 & M3-1-3 FOR SYMBOL LIST AND SCHEDULES.
- SEE DRAWINGS M4-1-1, M4-1-2, M4-1-3 & M4-1-4 FOR DETAILS.
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MECHANICAL PIPING KEY NOTES

- (MP1) 3/4" HWS&R DOWN, OFFSET AND PROVIDE ELBOWS IN PARTITION TO ALIGN WITH PIPE CONNECTIONS AT RADIATION.
- (MP2) 3/4" HWS&R UP TO FLOOR ABOVE.
- (MP3) 3/4" HWS&R AROUND COLUMN FEEDING RADIATION.
- (MP4) INSTALL REFRIGERANT PIPING UP TO CU ON THE ROOF. INSTALL 3/4" CONDENSATE TO CONDENSATE MAIN.
- (MP5) INSTALL REFRIGERANT PIPING UP TO CU ON THE ROOF. INSTALL 3/4" CONDENSATE TO FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR LOCATION.
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- (MP8) PROVIDE BALL VALVES ON SUPPLY AND RETURN PIPING AND MANUAL BALANCE VALVE ON RETURN PIPING.



1 FIRST FLOOR MECHANICAL PIPING PLAN - AREA B
1/8" = 1'-0"



BID DOCUMENTS

drawing title
FIRST FLOOR MECHANICAL PIPING PLAN
AREA B

REVISIONS		
mark	date	description
11/8/2019	Addendum No. 1	

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
Consulting Engineering Services, Inc.
811 Middle St., Middletown, CT 06457

date
10/11/2019

scale
As Indicated

drawn by
JMK

approved by
[Signature]

drawing no.
M2-1-1B

project
**Additions and Renovations
Platt Technical High School**
600 Orange Avenue Middletown, CT 06461

CAD no.
DCS project no. 814RT-076 CM-R OSCGR project no. 900-0013

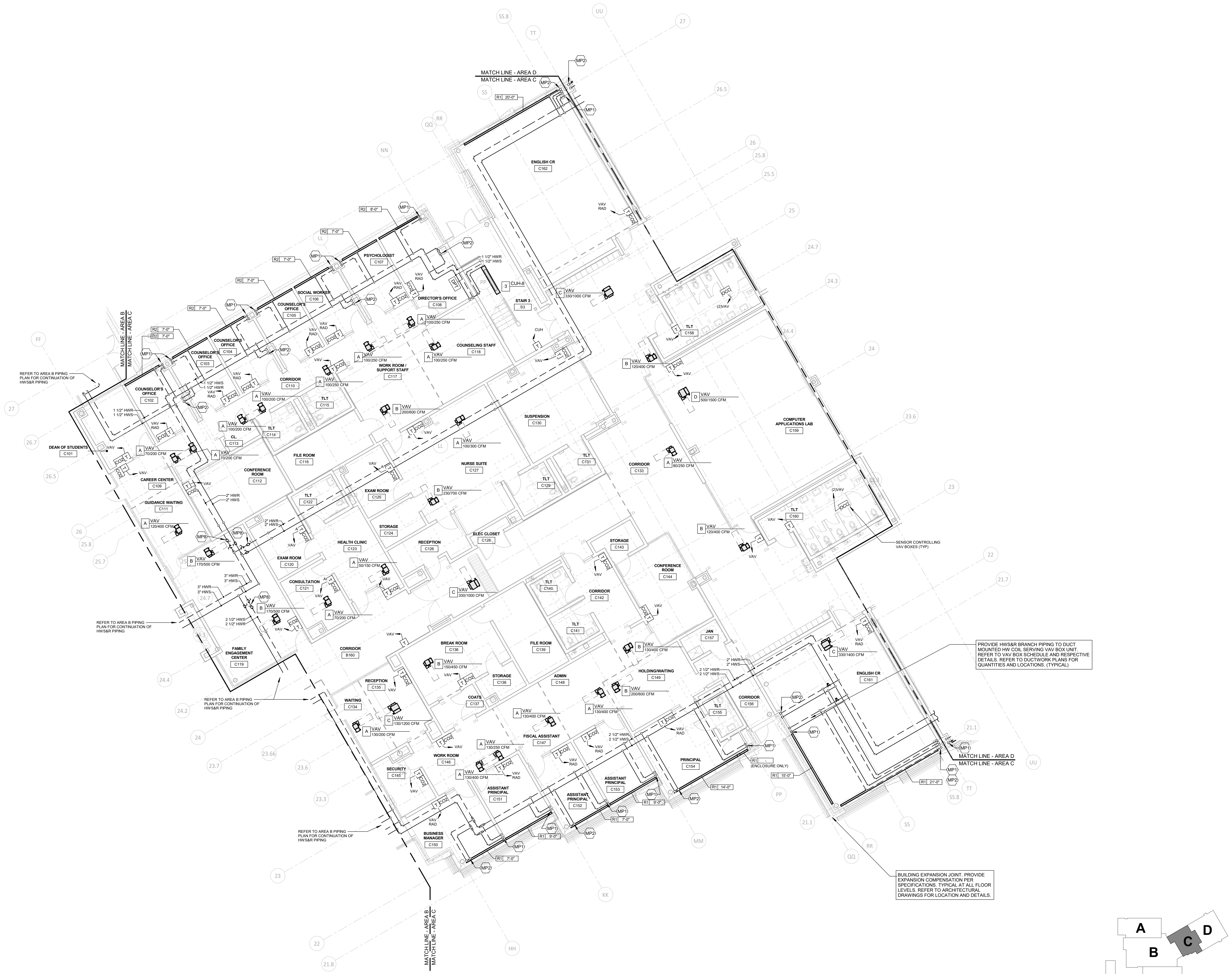


MECHANICAL NOTES

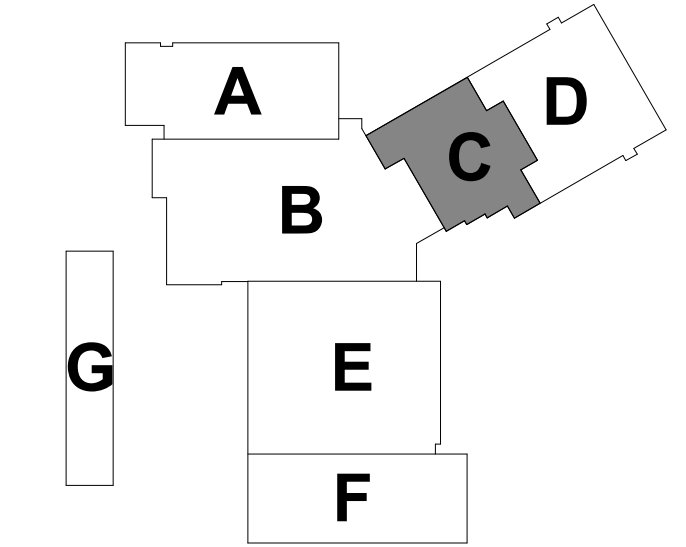
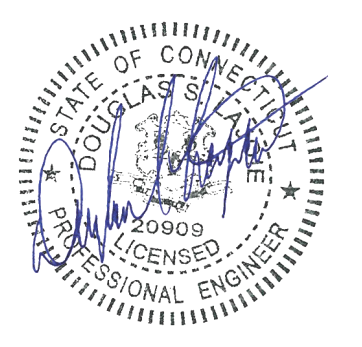
- SEE DRAWINGS M3-1-1, M3-1-2 & M3-1-3 FOR SYMBOL LIST AND SCHEDULES.
- SEE DRAWINGS M4-1-1, M4-1-2, M4-1-3 & M4-1-4 FOR DETAILS.
- SEE DRAWINGS M5-1-1, M5-1-2, M5-1-3 & M5-1-4 FOR CONTROLS DIAGRAMS.
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MECHANICAL PIPING KEY NOTES

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- (MP8) PROVIDE BALL VALVES ON SUPPLY AND RETURN PIPING AND MANUAL BALANCE VALVE ON RETURN PIPING.



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



REVISIONS			DATE	
mark	date	description		
	11/8/2019	Addendum No. 1		

BID DOCUMENTS		STATE OF CONNECTICUT	
drawing title FIRST FLOOR MECHANICAL PIPING PLAN AREA C		DEPARTMENT OF ADMINISTRATIVE SERVICES	
consulting prepared by Consulting Engineering Services, Inc. 811 Middle St., Middletown, CT 06457		date 10/11/2019	
project Additions and Renovations Platt Technical High School 600 Orange Avenue, Middletown, CT 06461		scale As Indicated	
CAD no. DCS project no. B1-RT-076 CM-R		drawing no. OSCRG project no. 990-0113	
		M2-1-1C	

MECHANICAL NOTES

- SEE DRAWINGS M3-1-1, M3-1-2 & M3-1-3 FOR SYMBOL LIST AND SCHEDULES.
- SEE DRAWINGS M4-1-1, M4-1-2, M4-1-3 & M4-1-4 FOR DETAILS.
- SEE DRAWINGS M5-1-1, M5-1-2, M5-1-3 & M5-1-4 FOR CONTROLS DIAGRAMS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS ON GENERAL CONDITIONS, MATERIAL SPECIFICATIONS AND INSTALLATION.
- PROVIDE CLEARANCE ADJACENT TO EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED TO PROPERLY MAINTAIN EQUIPMENT. PROVIDE MINIMUM 42" CLEARANCE IN FRONT OF EQUIPMENT, PIPE DROPS, ETC. CLEARANCES SHALL BE IDENTIFIED ON COORDINATION SHOP DRAWINGS.
- PROVIDE REMOTELY CONTROLLED VOLUME DAMPERS AT ALL SHEETROCK AND METAL CEILINGS AND WHERE VOLUME DAMPERS ARE NOT ACCESSIBLE THRU ACCESSIBLE CEILINGS WITH STANDARD STEP LADDER.
- VOLUME DAMPERS SHALL BE INSTALLED MINIMUM 8'-0" FROM EACH DIFFUSER, GRILLE AND REGISTER WHERE EVER POSSIBLE. FLEXIBLE CONNECTIONS SHALL NOT EXCEED 8'-0" IN LENGTH.
- NOT ALL BRANCH PIPING TO DEVICES ARE SHOWN. PROVIDE BRANCH PIPING TO ALL DEVICES PER DETAILS AND SCHEDULES. PIPE BRANCHES SHALL BE MINIMUM 3/4" DIAMETER UNLESS NOTED OTHERWISE.
- ALL PENETRATIONS THROUGH FULL HEIGHT CORRIDOR WALLS SHALL BE SEALED. REFER TO ARCHITECTURAL DRAWINGS FOR TYPES OF WALLS AND REQUIREMENTS FOR SEALING.
- DUCTWORK AND PIPING LAYOUTS DO NOT SHOW ALL TRANSITIONS AND OFFSETS THAT WILL BE REQUIRED. PROVIDE COORDINATION DRAWINGS AND OFFSET DUCTWORK AND PIPING AS REQUIRED.

MECHANICAL PIPING KEY NOTES

- (MP1) 3/4" HWS&R DOWN, OFFSET AND PROVIDE ELBOWS IN PARTITION TO ALIGN WITH PIPE CONNECTIONS AT RADIATION.
- (MP2) 3/4" HWS&R UP TO FLOOR ABOVE.
- (MP3) 3/4" HWS&R AROUND COLUMN FEEDING RADIATION.
- (MP4) INSTALL REFRIGERANT PIPING UP TO CU ON THE ROOF. INSTALL 3/4" CONDENSATE TO CONDENSATE MAIN.
- (MP5) INSTALL REFRIGERANT PIPING UP TO CU ON THE ROOF. INSTALL 3/4" CONDENSATE TO FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR LOCATION.
- (MP6) INSTALL REFRIGERANT PIPING UP TO CU ON THE ROOF. INSTALL 3/4" CONDENSATE TO JANITOR'S SINK IN CUSTODIAL CLOSET.
- (MP7) PROVIDE CONDENSATE PIPING FROM ERV TO FLOOR DRAIN AT THE SHOP LEVEL. REFER TO PLUMBING DRAWINGS FOR LOCATION.
- (MP8) PROVIDE BALL VALVES ON SUPPLY AND RETURN PIPING AND MANUAL BALANCE VALVE ON RETURN PIPING.



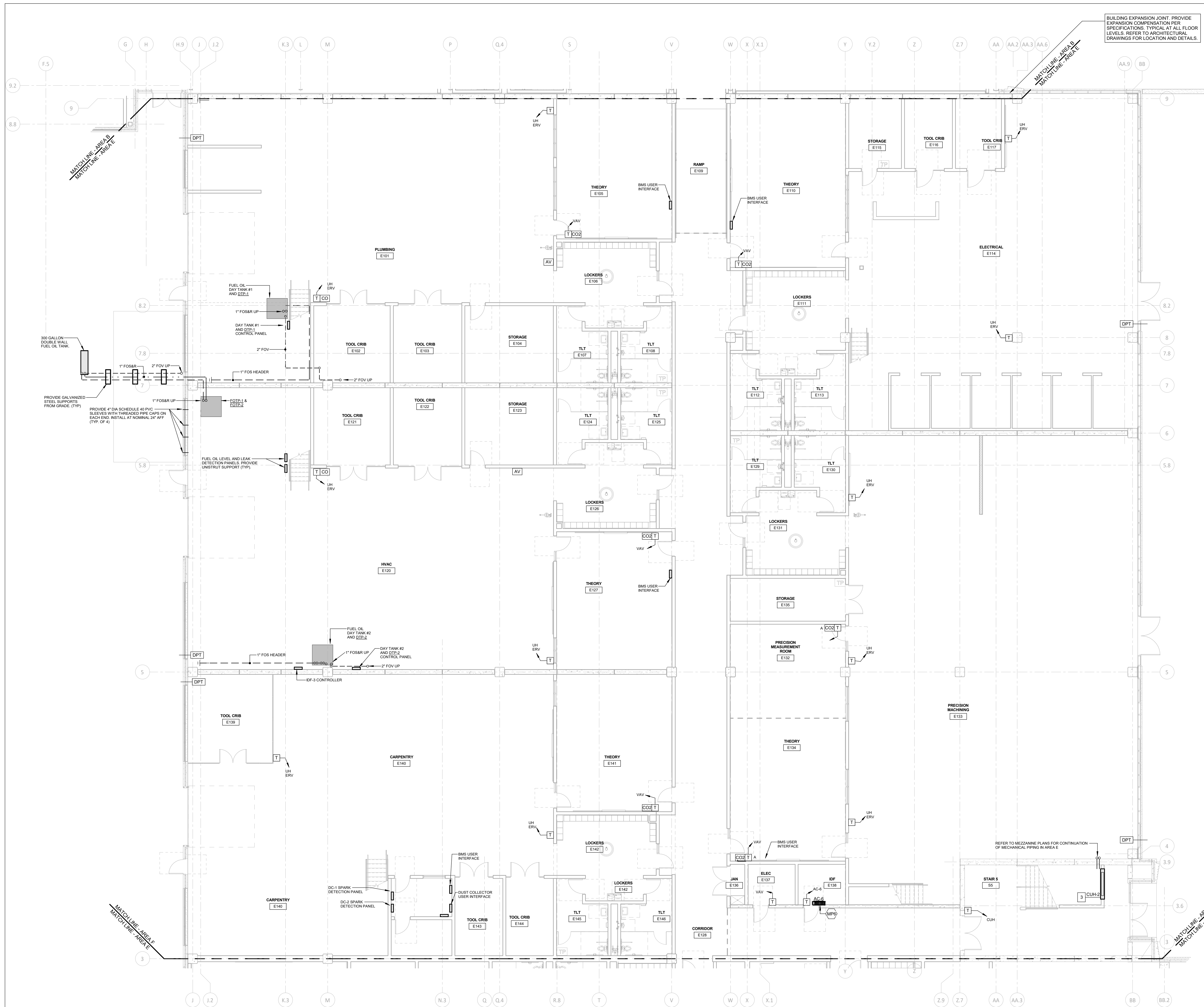
PROVIDE HWS&R BRANCH PIPING TO DUCT MOUNTED HW COIL SERVING VAV BOX UNIT. REFER TO VAV BOX SCHEDULE AND RESPECTIVE DETAILS. REFER TO DUCTWORK PLANS FOR QUANTITIES AND LOCATIONS. (TYPICAL)

1 FIRST FLOOR MECHANICAL PIPING PLAN - AREA D
1/8" = 1'-0"



REVISIONS			CONSULTING ENGINEERING SERVICES, INC.	
mark	date	description	date	description
	11/8/2019	Addendum No. 1	10/11/2019	As Indicated

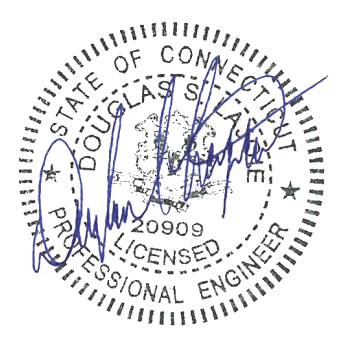
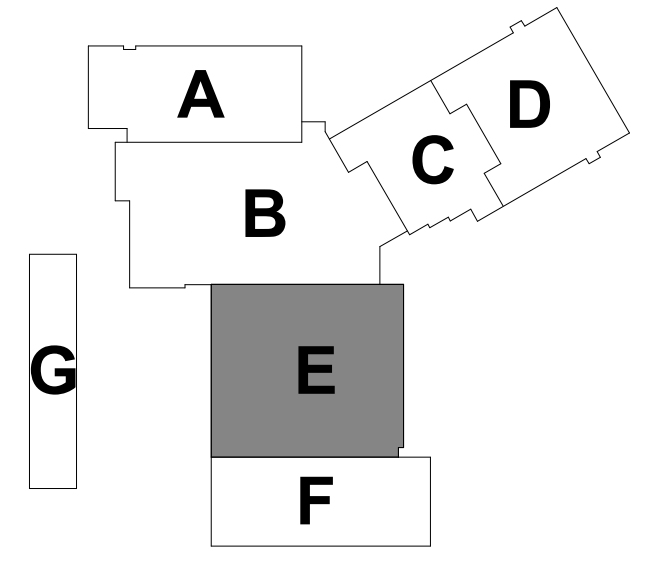
drawing title FIRST FLOOR MECHANICAL PIPING PLAN AREA D		drawing prepared by Consulting Engineering Services, Inc. 811 Middle St., Middletown, CT 06457		date 10/11/2019
project Additions and Renovations Platt Technical High School 600 Orange Avenue Middletown, CT 06461		approved by CSW		scale As Indicated
CAD no.	DCS project no. 81-RT-076 CM-R	OSCR project no. 900-0013	drawing no. M2-1-1D	



BUILDING EXPANSION JOINT. PROVIDE EXPANSION COMPENSATION PER SPECIFICATIONS. TYPICAL AT ALL FLOOR LEVELS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND DETAILS.

- ### MECHANICAL NOTES
- SEE DRAWINGS M3-1-1, M3-1-2 & M3-1-3 FOR SYMBOL LIST AND SCHEDULES.
 - SEE DRAWINGS M4-1-1, M4-1-2, M4-1-3 & M4-1-4 FOR DETAILS.
 - SEE DRAWINGS M5-1-1, M5-1-2, M5-1-3 & M5-1-4 FOR CONTROLS DIAGRAMS.
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- ### MECHANICAL PIPING KEY NOTES
- (MP1) 3/4" HWS&R DOWN. OFFSET AND PROVIDE ELBOWS IN PARTITION TO ALIGN WITH PIPE CONNECTIONS AT RADIATION.
 - (MP2) 3/4" HWS&R UP TO FLOOR ABOVE.
 - (MP3) 3/4" HWS&R AROUND COLUMN FEEDING RADIATION.
 - (MP4) INSTALL REFRIGERANT PIPING UP TO CU ON THE ROOF. INSTALL 3/4" CONDENSATE TO CONDENSATE MAIN.
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 - (MP7) PROVIDE CONDENSATE PIPING FROM ERV TO FLOOR DRAIN AT THE SHOP LEVEL. REFER TO PLUMBING DRAWINGS FOR LOCATION.
 - (MP8) PROVIDE BALL VALVES ON SUPPLY AND RETURN PIPING AND MANUAL BALANCE VALVE ON RETURN PIPING.



REVISIONS			drawing title	
mark	date	description	FIRST FLOOR MECHANICAL PIPING PLAN AREA E	
	11/8/2019	Addendum No. 1		

drawing prepared by Consulting Engineering Services, Inc. 811 Middle St., Middletown, CT 06457		date 10/11/2019
project Additions and Renovations Platt Technical High School 600 Orange Avenue Middlet, CT 06461		scale As Indicated
CAD no.	DCS project no. BIRT-076 CM-R	OSGCR project no. 990-0013
		drawing no. M2-1-1E

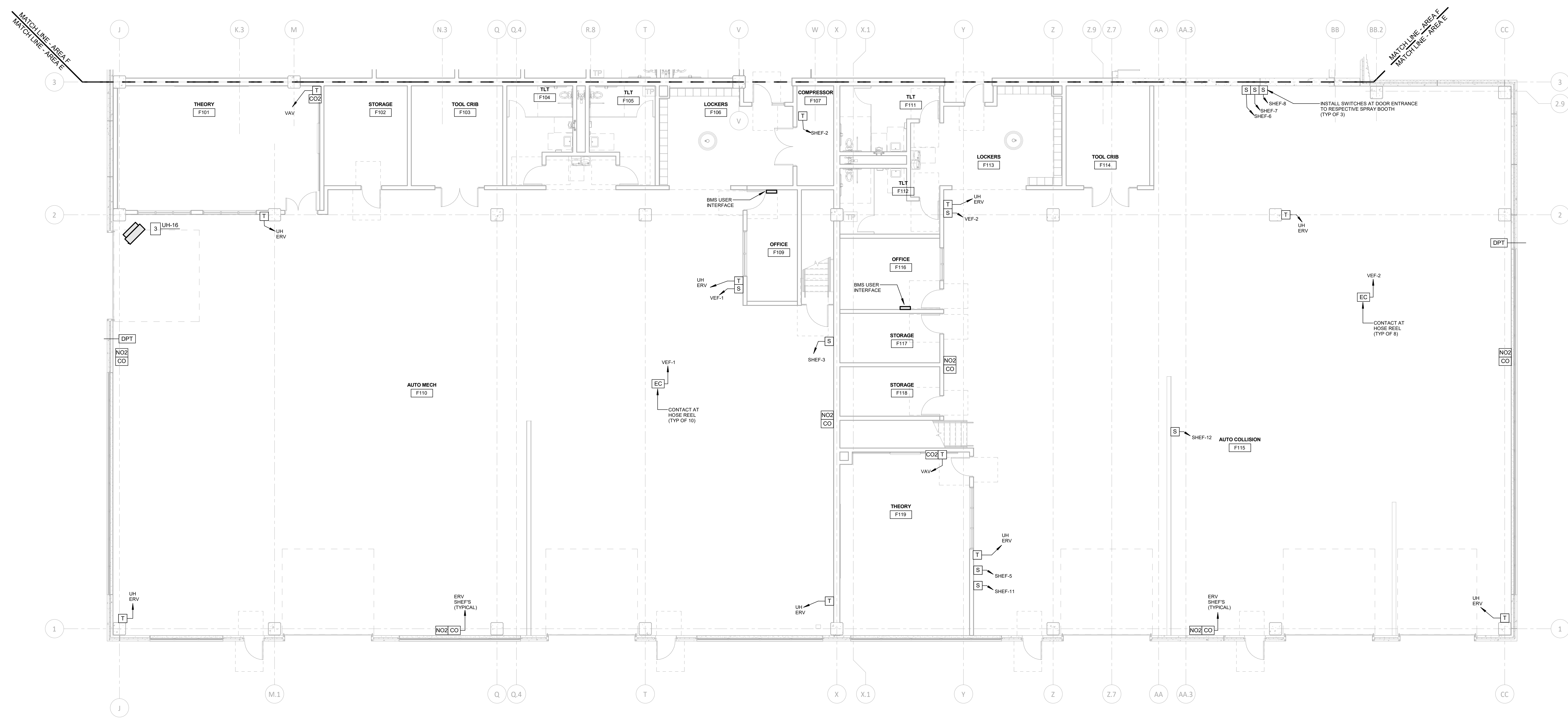
1 FIRST FLOOR MECHANICAL PIPING PLAN - AREA E
1/8" = 1'-0"

MECHANICAL NOTES

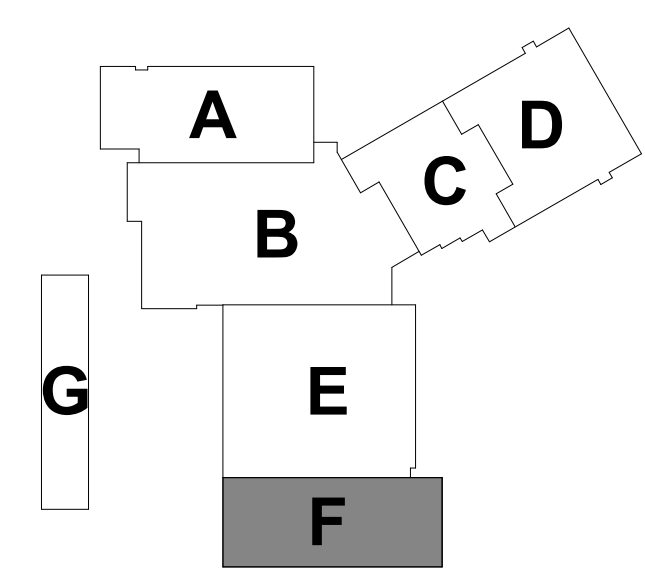
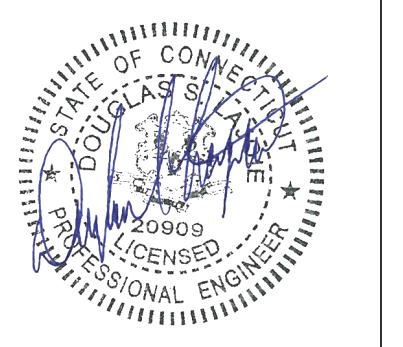
- SEE DRAWINGS M3-1-1, M3-1-2 & M3-1-3 FOR SYMBOL LIST AND SCHEDULES.
- SEE DRAWINGS M4-1-1, M4-1-2, M4-1-3 & M4-1-4 FOR DETAILS.
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1 FIRST FLOOR MECHANICAL PIPING PLAN - AREA F
1/8" = 1'-0"



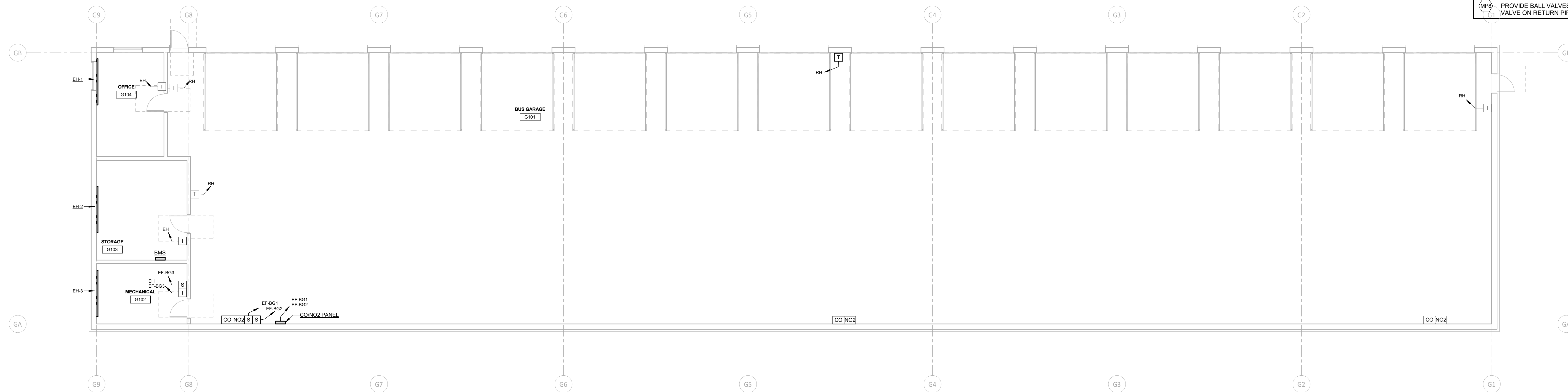
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mark	date	description		
	11/8/2019	Addendum No. 1	Consulting Engineering Services, Inc. 811 Middle St., Middletown, CT 06457	10/11/2019
				As Indicated
project Additions and Renovations Platt Technical High School 600 Orange Avenue Middletown, CT 06461			approved by [Signature]	approved by [Signature]
CAD no.	DCS project no.	OSGCR project no.		M2-1-1F

MECHANICAL NOTES

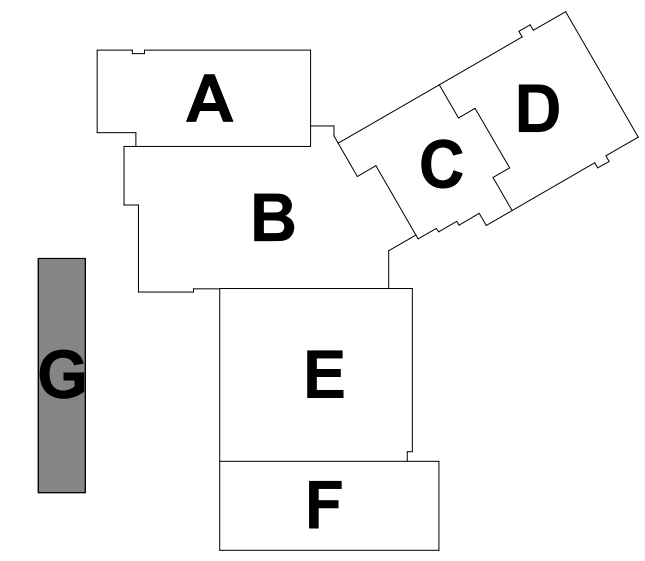
- SEE DRAWINGS M3-1-1, M3-1-2 & M3-1-3 FOR SYMBOL LIST AND SCHEDULES.
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- SEE DRAWINGS M5-1-1, M5-1-2, M5-1-3 & M5-1-4 FOR CONTROLS DIAGRAMS.
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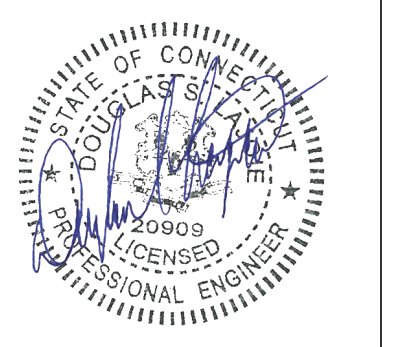
1 FIRST FLOOR MECHANICAL PIPING PLAN - AREA G - ALTERNATE NO. 2
1/8" = 1'-0"

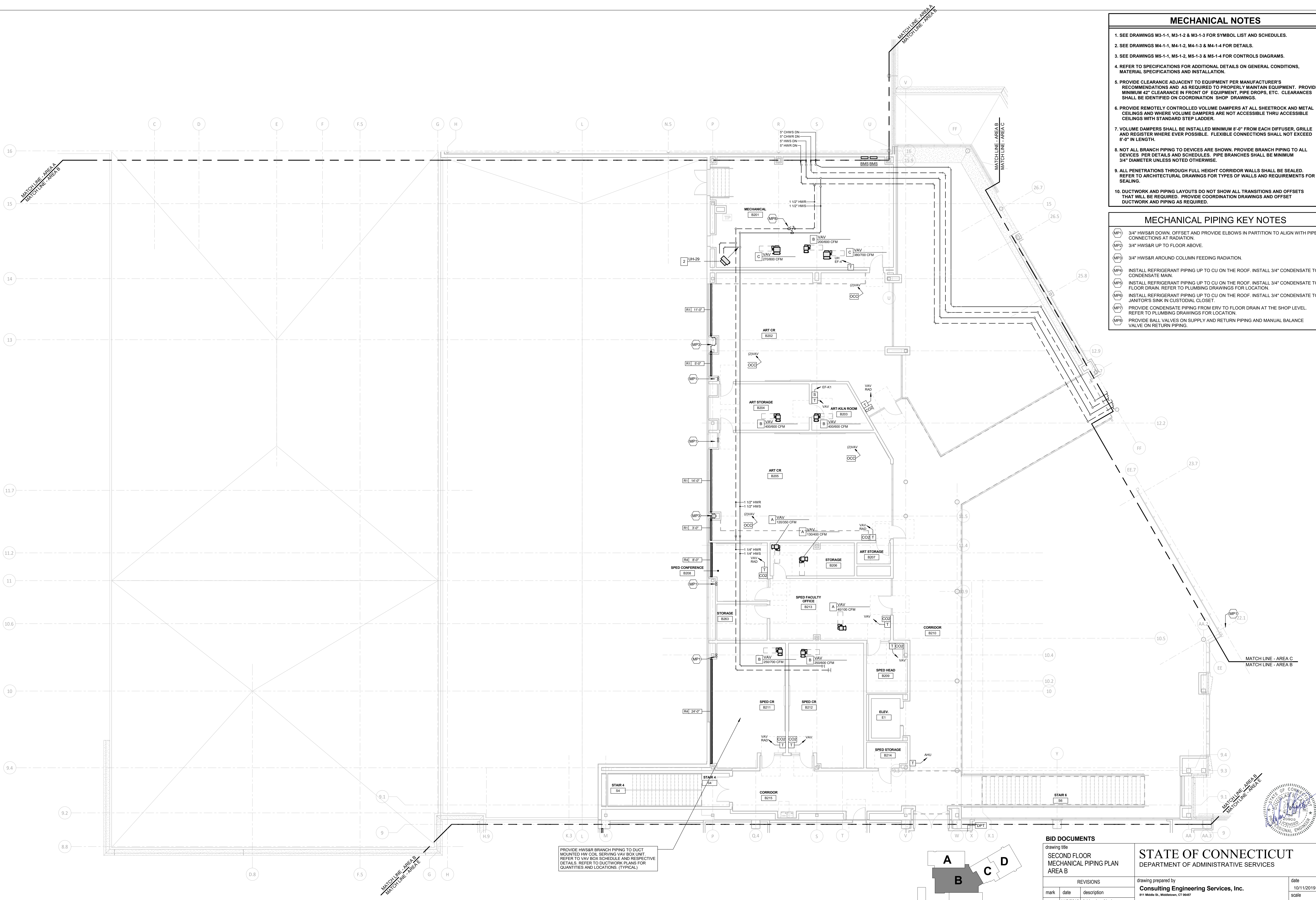


BID DOCUMENTS

drawing title FIRST FLOOR MECHANICAL PIPING PLAN AREA G - ALTERNATE NO. 2		
REVISIONS		
mark	date	description
	11/8/2019	Addendum No. 1

drawing prepared by Consulting Engineering Services, Inc. 911 Middle St., Middletown, CT 06457		date 10/11/2019
project Additions and Renovations Platt Technical High School 600 Orange Avenue Middletown, CT 06461		scale As Indicated
CAD no.	DCS project no. B1-RT-472 CM-R	OSGCR project no. 990-0113
		drawn by JMK
		approved by BSW
		drawing no. M2-1-1G

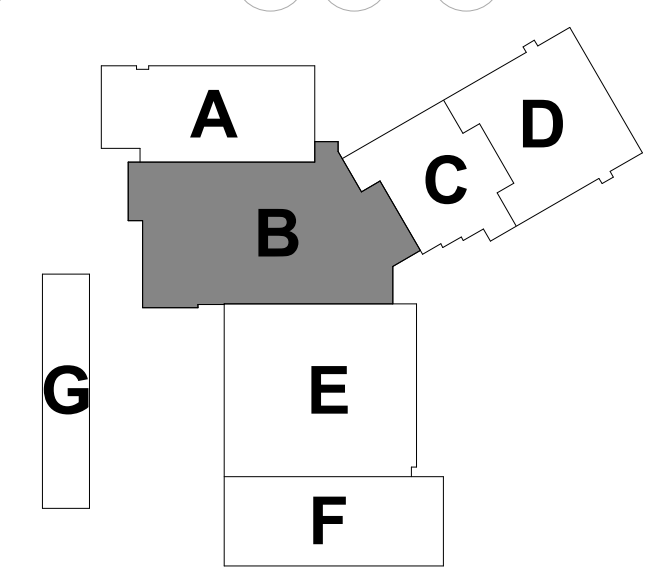




- ### MECHANICAL NOTES
- SEE DRAWINGS M3-1-1, M3-1-2 & M3-1-3 FOR SYMBOL LIST AND SCHEDULES.
 - SEE DRAWINGS M4-1-1, M4-1-2, M4-1-3 & M4-1-4 FOR DETAILS.
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1 SECOND FLOOR MECHANICAL PIPING PLAN - AREA B
1/8" = 1'-0"



BID DOCUMENTS

drawing title
SECOND FLOOR MECHANICAL PIPING PLAN AREA B

REVISIONS		
mark	date	description
	11/8/2019	Addendum No. 1

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
Consulting Engineering Services, Inc.
911 Middle St., Middletown, CT 06457

date
10/11/2019

scale
As Indicated

drawn by
JMK

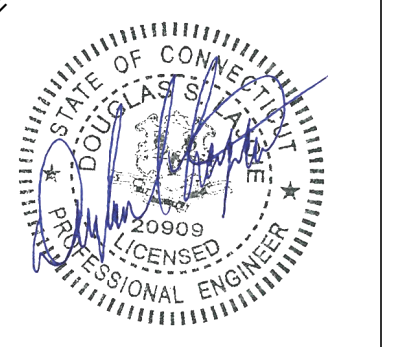
approved by
SDW

drawing no.
M2-1-2B

project
**Additions and Renovations
Platt Technical High School**
600 Orange Avenue Middletown, CT 06461

CAD no.
DCS project no.
BIRT-076 CM-R

OSCRG project no.
900-0013



MECHANICAL NOTES

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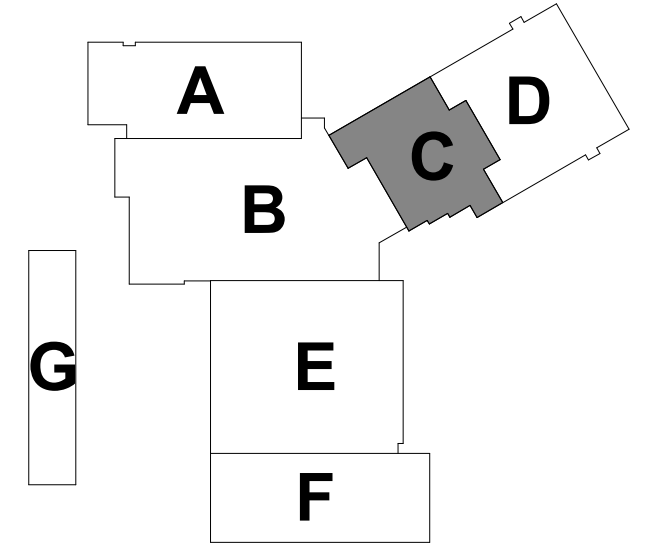
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PROVIDE HWS&R BRANCH PIPING TO DUCT MOUNTED HW COIL SERVING VAV BOX UNIT. REFER TO VAV BOX SCHEDULE AND RESPECTIVE DETAILS. REFER TO DUCTWORK PLANS FOR QUANTITIES AND LOCATIONS. (TYPICAL)

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



BID DOCUMENTS

drawing title	SECOND FLOOR MECHANICAL PIPING PLAN AREA C	
date	11/8/2019	Addendum No. 1

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by
Consulting Engineering Services, Inc.
311 Middle St., Middletown, CT 06457

date
10/11/2019

scale
As Indicated

drawn by
AMK

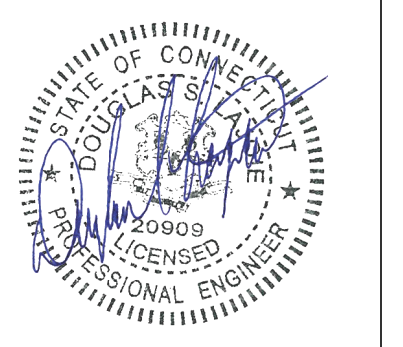
approved by
BSW

drawing no.
M2-1-2C

project
**Additions and Renovations
Platt Technical High School**
600 Orange Avenue Middletown, CT 06461

CAD no.
DCS project no.
BL-RT-476 CM-R

OSCR project no.
990-0013



MECHANICAL NOTES

- SEE DRAWINGS M3-1-1, M3-1-2 & M3-1-3 FOR SYMBOL LIST AND SCHEDULES.
- SEE DRAWINGS M4-1-1, M4-1-2, M4-1-3 & M4-1-4 FOR DETAILS.
- SEE DRAWINGS M5-1-1, M5-1-2, M5-1-3 & M5-1-4 FOR CONTROLS DIAGRAMS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS ON GENERAL CONDITIONS, MATERIAL SPECIFICATIONS AND INSTALLATION.
- PROVIDE CLEARANCE ADJACENT TO EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED TO PROPERLY MAINTAIN EQUIPMENT. PROVIDE MINIMUM 42" CLEARANCE IN FRONT OF EQUIPMENT, PIPE DROPS, ETC. CLEARANCES SHALL BE IDENTIFIED ON COORDINATION SHOP DRAWINGS.
- PROVIDE REMOTELY CONTROLLED VOLUME DAMPERS AT ALL SHEETROCK AND METAL CEILINGS AND WHERE VOLUME DAMPERS ARE NOT ACCESSIBLE THRU ACCESSIBLE CEILINGS WITH STANDARD STEP LADDER.
- VOLUME DAMPERS SHALL BE INSTALLED MINIMUM 8'-0" FROM EACH DIFFUSER, GRILLE AND REGISTER WHERE EVER POSSIBLE. FLEXIBLE CONNECTIONS SHALL NOT EXCEED 8'-0" IN LENGTH.
- NOT ALL BRANCH PIPING TO DEVICES ARE SHOWN. PROVIDE BRANCH PIPING TO ALL DEVICES PER DETAILS AND SCHEDULES. PIPE BRANCHES SHALL BE MINIMUM 3/4" DIAMETER UNLESS NOTED OTHERWISE.
- ALL PENETRATIONS THROUGH FULL HEIGHT CORRIDOR WALLS SHALL BE SEALED. REFER TO ARCHITECTURAL DRAWINGS FOR TYPES OF WALLS AND REQUIREMENTS FOR SEALING.
- DUCTWORK AND PIPING LAYOUTS DO NOT SHOW ALL TRANSITIONS AND OFFSETS THAT WILL BE REQUIRED. PROVIDE COORDINATION DRAWINGS AND OFFSET DUCTWORK AND PIPING AS REQUIRED.

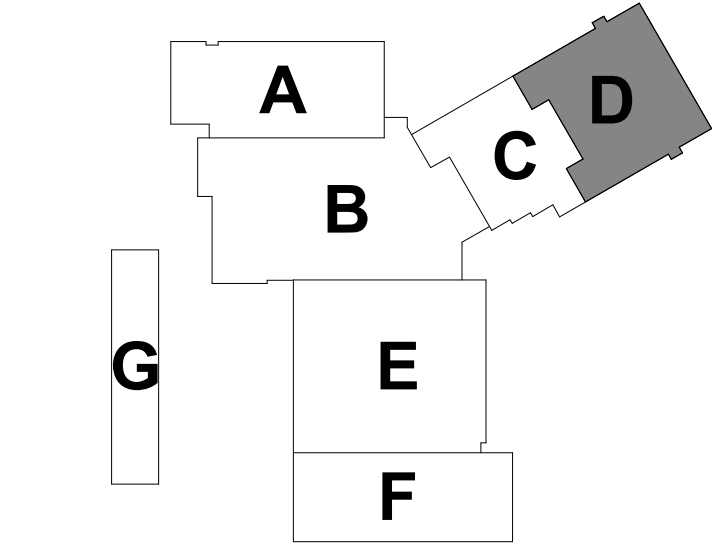
MECHANICAL PIPING KEY NOTES

- (MP1) 3/4" HWS&R DOWN. OFFSET AND PROVIDE ELBOWS IN PARTITION TO ALIGN WITH PIPE CONNECTIONS AT RADIATION.
- (MP2) 3/4" HWS&R UP TO FLOOR ABOVE.
- (MP3) 3/4" HWS&R AROUND COLUMN FEEDING RADIATION.
- (MP4) INSTALL REFRIGERANT PIPING UP TO CU ON THE ROOF. INSTALL 3/4" CONDENSATE TO CONDENSATE MAIN.
- (MP5) INSTALL REFRIGERANT PIPING UP TO CU ON THE ROOF. INSTALL 3/4" CONDENSATE TO FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR LOCATION.
- (MP6) INSTALL REFRIGERANT PIPING UP TO CU ON THE ROOF. INSTALL 3/4" CONDENSATE TO JANITOR'S SINK IN CUSTODIAL CLOSET.
- (MP7) PROVIDE CONDENSATE PIPING FROM ERV TO FLOOR DRAIN AT THE SHOP LEVEL. REFER TO PLUMBING DRAWINGS FOR LOCATION.
- (MP8) PROVIDE BALL VALVES ON SUPPLY AND RETURN PIPING AND MANUAL BALANCE VALVE ON RETURN PIPING.



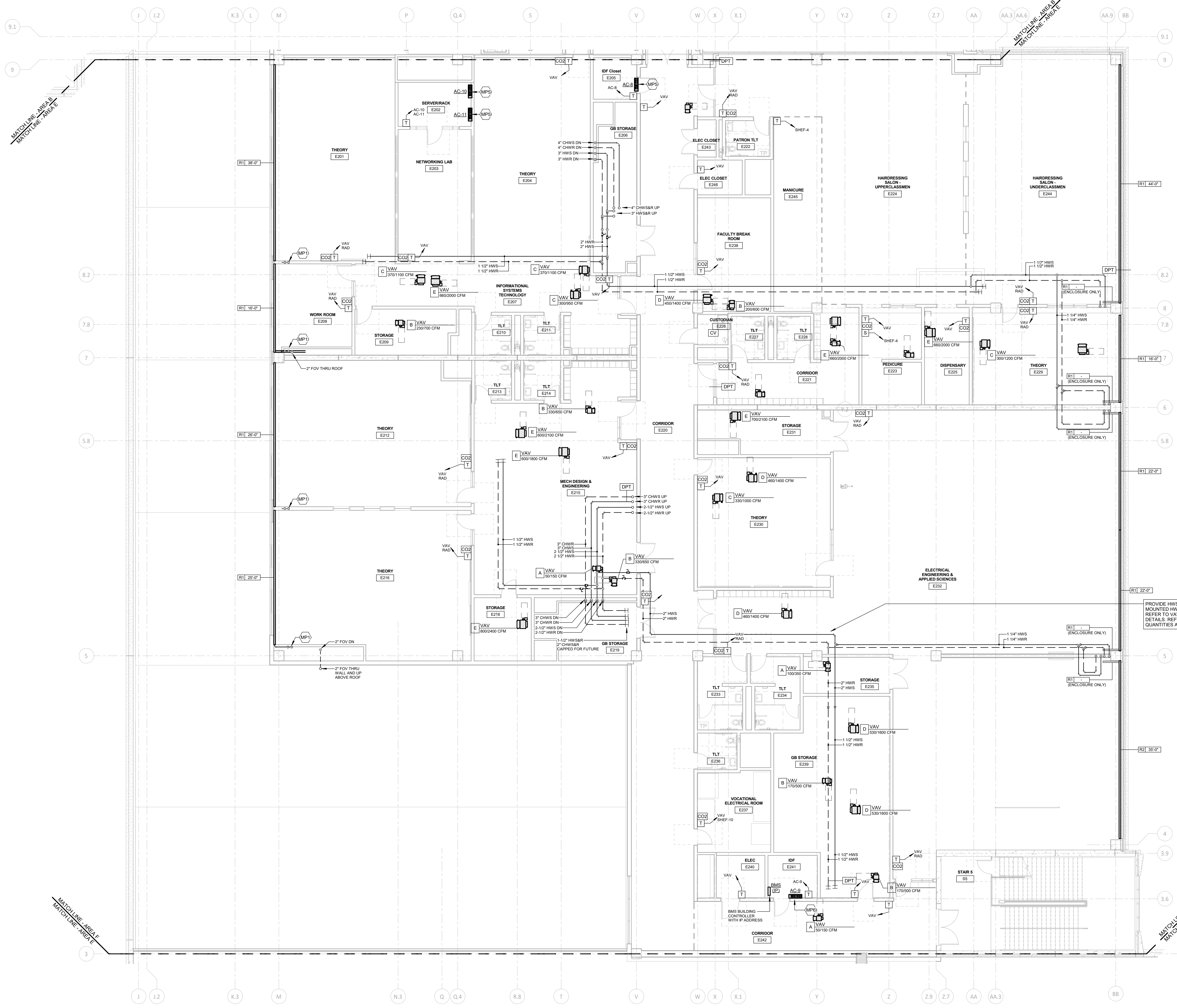
PROVIDE HWS&R BRANCH PIPING TO DUCT MOUNTED HW COIL SERVING VAV BOX UNIT REFER TO VAV BOX SCHEDULE AND RESPECTIVE DETAILS. REFER TO DUCTWORK PLANS FOR QUANTITIES AND LOCATIONS. (TYPICAL)

1 SECOND FLOOR MECHANICAL PIPING PLAN - AREA D
1/8" = 1'-0"



REVISIONS			date	
mark	date	description	scale	As Indicated
	11/8/2019	Addendum No. 1		

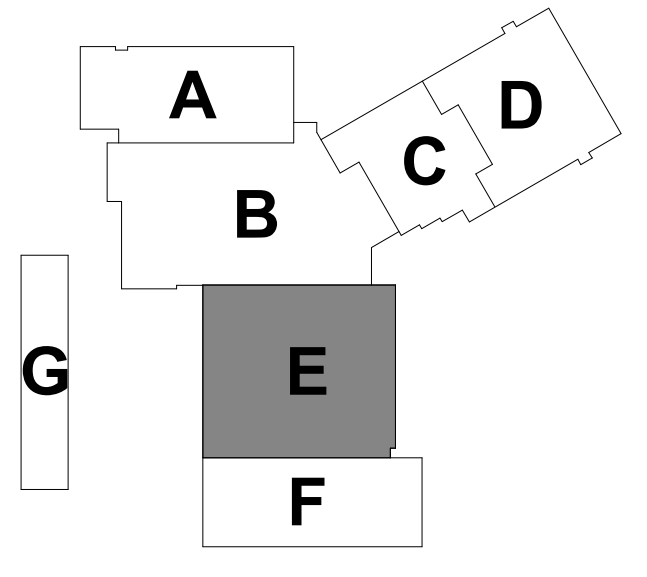
drawing title SECOND FLOOR MECHANICAL PIPING PLAN AREA D		drawing prepared by Consulting Engineering Services, Inc. 811 Middle St., Middletown, CT 06457		date 10/11/2019
project Additions and Renovations Platt Technical High School 600 Orange Avenue Middletown, CT 06461		approved by sdw		drawing no. M2-1-2D
CAD no.	DCS project no. B1-RF-076 CM-R	OSCRG project no. 900-0113		



- ### MECHANICAL NOTES
- SEE DRAWINGS M3-1-1, M3-1-2 & M3-1-3 FOR SYMBOL LIST AND SCHEDULES.
 - SEE DRAWINGS M4-1-1, M4-1-2, M4-1-3 & M4-1-4 FOR DETAILS.
 - SEE DRAWINGS M5-1-1, M5-1-2, M5-1-3 & M5-1-4 FOR CONTROLS DIAGRAMS.
 - REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS ON GENERAL CONDITIONS, MATERIAL SPECIFICATIONS AND INSTALLATION.
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 - VOLUME DAMPERS SHALL BE INSTALLED MINIMUM 8" FROM EACH DIFFUSER, GRILLE AND REGISTER WHERE EVER POSSIBLE. FLEXIBLE CONNECTIONS SHALL NOT EXCEED 8" IN LENGTH.
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 - ALL PENETRATIONS THROUGH FULL HEIGHT CORRIDOR WALLS SHALL BE SEALED. REFER TO ARCHITECTURAL DRAWINGS FOR TYPES OF WALLS AND REQUIREMENTS FOR SEALING.
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- (MP1) 3/4" HWS&R DOWN. OFFSET AND PROVIDE ELBOWS IN PARTITION TO ALIGN WITH PIPE CONNECTIONS AT RADIATION.
 - (MP2) 3/4" HWS&R UP TO FLOOR ABOVE.
 - (MP3) 3/4" HWS&R AROUND COLUMN FEEDING RADIATION.
 - (MP4) INSTALL REFRIGERANT PIPING UP TO CU ON THE ROOF. INSTALL 3/4" CONDENSATE TO CONDENSATE MAIN.
 - (MP5) INSTALL REFRIGERANT PIPING UP TO CU ON THE ROOF. INSTALL 3/4" CONDENSATE TO FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR LOCATION.
 - (MP6) INSTALL REFRIGERANT PIPING UP TO CU ON THE ROOF. INSTALL 3/4" CONDENSATE TO JANITOR'S SINK IN CUSTODIAN CLOSE.
 - (MP7) PROVIDE CONDENSATE PIPING FROM ERV TO FLOOR DRAIN AT THE SHOP LEVEL. REFER TO PLUMBING DRAWINGS FOR LOCATION.
 - (MP8) PROVIDE BALL VALVES ON SUPPLY AND RETURN PIPING AND MANUAL BALANCE VALVE ON RETURN PIPING.

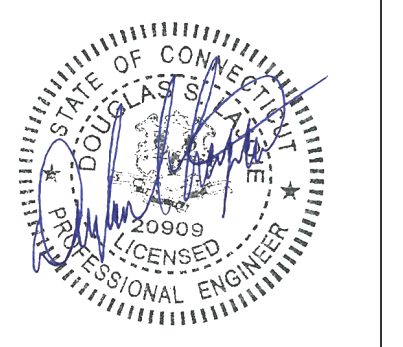
PROVIDE HWS&R BRANCH PIPING TO DUCT MOUNTED HW COIL SERVING VAV BOX UNIT. REFER TO VAV BOX SCHEDULE AND RESPECTIVE DETAILS. REFER TO DUCTWORK PLANS FOR QUANTITIES AND LOCATIONS. (TYPICAL)



1 SECOND FLOOR MECHANICAL PIPING PLAN - AREA E
1/8" = 1'-0"

REVISIONS			drawing title	
mark	date	description	SECOND FLOOR MECHANICAL PIPING PLAN AREA E	
	11/8/2019	Addendum No.1		

drawing title			STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	
drawing prepared by			date	
Consulting Engineering Services, Inc.			10/11/2019	
811 Middle St., Wallingford, CT 06497			scale	
			As Indicated	
project			drawn by	
Additions and Renovations			AMK	
Platt Technical High School			approved by	
600 Orange Avenue Middletown, CT 06461			BSW	
drawing no.			drawing no.	
M2-1-2E				
CAD no.	DCS project no.	OSCRG project no.		
	BR-RT-476 CM-R	990-0013		

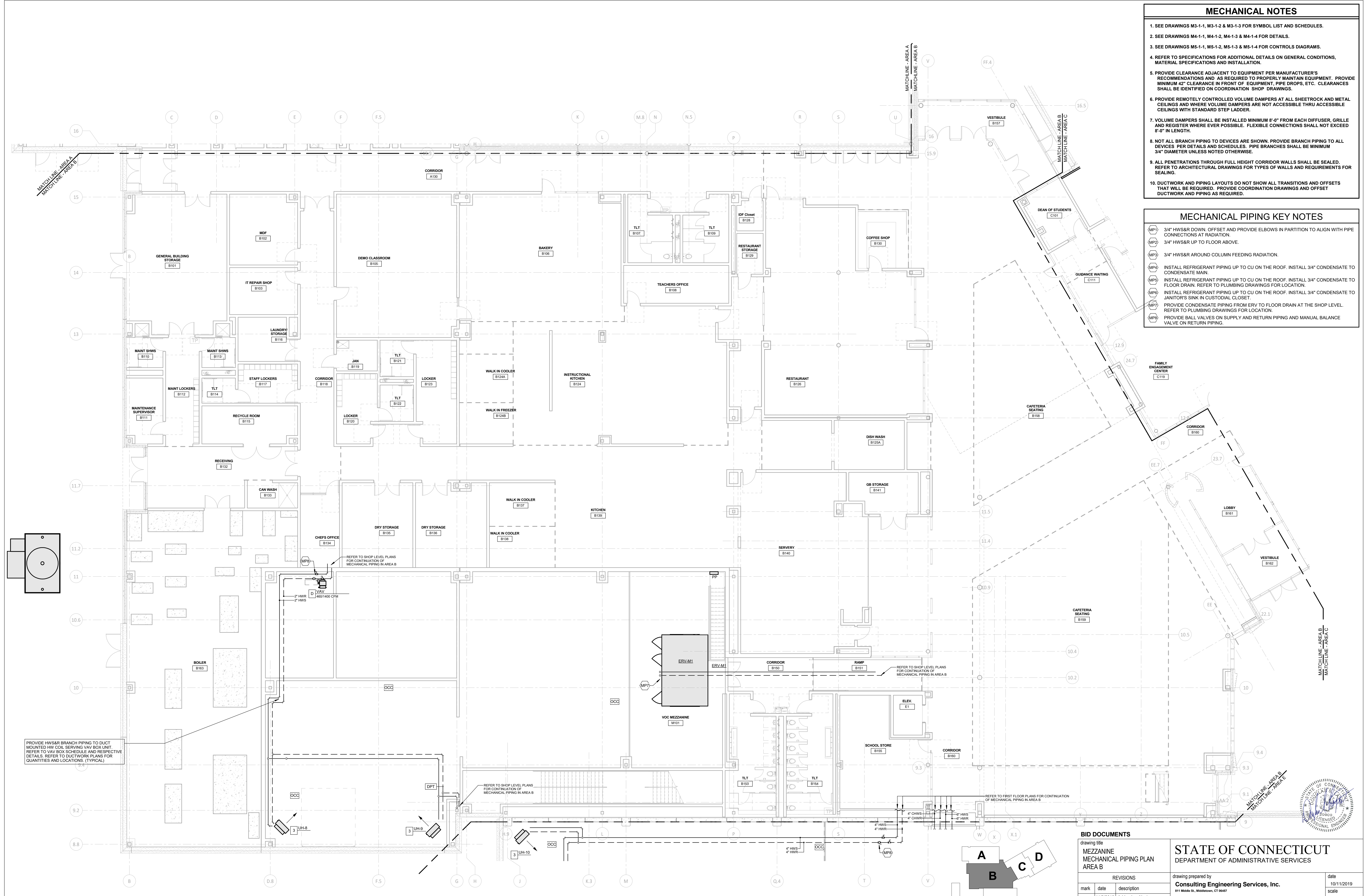


MECHANICAL NOTES

- SEE DRAWINGS M3-1-1, M3-1-2 & M3-1-3 FOR SYMBOL LIST AND SCHEDULES.
- SEE DRAWINGS M4-1-1, M4-1-2, M4-1-3 & M4-1-4 FOR DETAILS.
- SEE DRAWINGS M5-1-1, M5-1-2, M5-1-3 & M5-1-4 FOR CONTROLS DIAGRAMS.
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PROVIDE HWS&R BRANCH PIPING TO DUCT MOUNTED HW COIL SERVING VAV BOX UNIT. REFER TO VAV BOX SCHEDULE AND RESPECTIVE DETAILS. REFER TO DUCTWORK PLANS FOR QUANTITIES AND LOCATIONS. (TYPICAL)

REFER TO SHOP LEVEL PLANS FOR CONTINUATION OF MECHANICAL PIPING IN AREA B

REFER TO SHOP LEVEL PLANS FOR CONTINUATION OF MECHANICAL PIPING IN AREA B

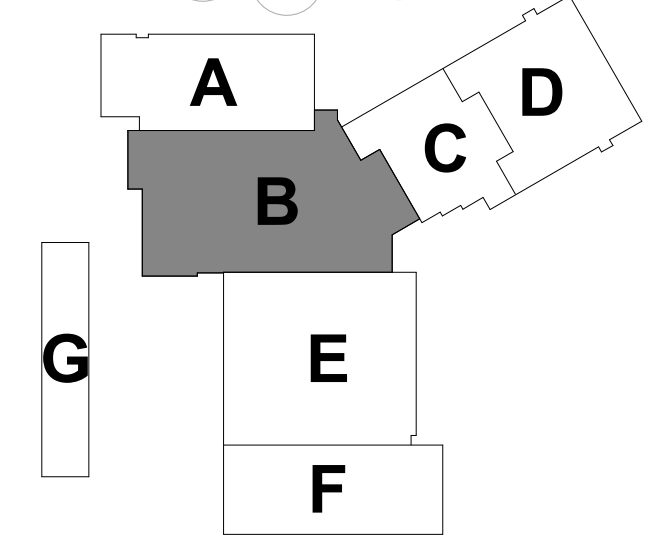
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1 MEZZANINE MECHANICAL PIPING PLAN - AREA B
1/8" = 1'-0"

BID DOCUMENTS

drawing title MEZZANINE MECHANICAL PIPING PLAN AREA B		
date 10/11/2019		
scale As Indicated		
drawing prepared by Consulting Engineering Services, Inc. 911 Middle St., Middletown, CT 06457		
drawn by AMK		
approved by BSW		
drawing no. M2-1-MB		
project Additions and Renovations Platt Technical High School 600 Orange Avenue Middletown, CT 06461		
CAD no.	DCS project no. B1-RT-072 CM-R	OSCRG project no. 900-0013

STATE OF CONNECTICUT
DEPARTMENT OF ADMINISTRATIVE SERVICES



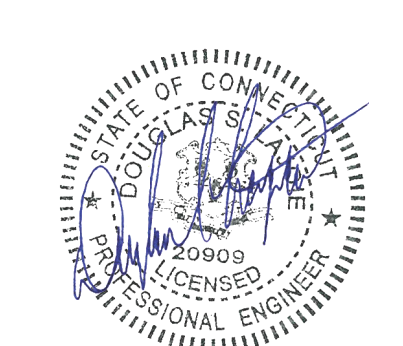
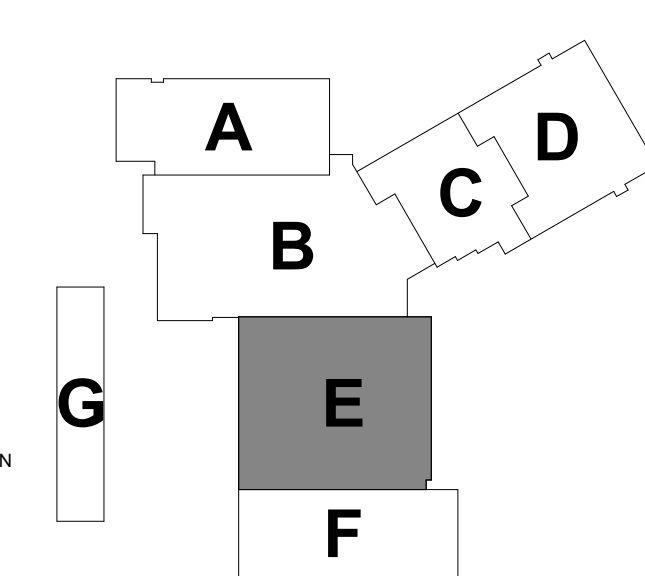
MECHANICAL NOTES

- SEE DRAWINGS M3-1-1, M3-1-2 & M3-1-3 FOR SYMBOL LIST AND SCHEDULES.
- SEE DRAWINGS M4-1-1, M4-1-2, M4-1-3 & M4-1-4 FOR DETAILS.
- SEE DRAWINGS M5-1-1, M5-1-2, M5-1-3 & M5-1-4 FOR CONTROLS DIAGRAMS.
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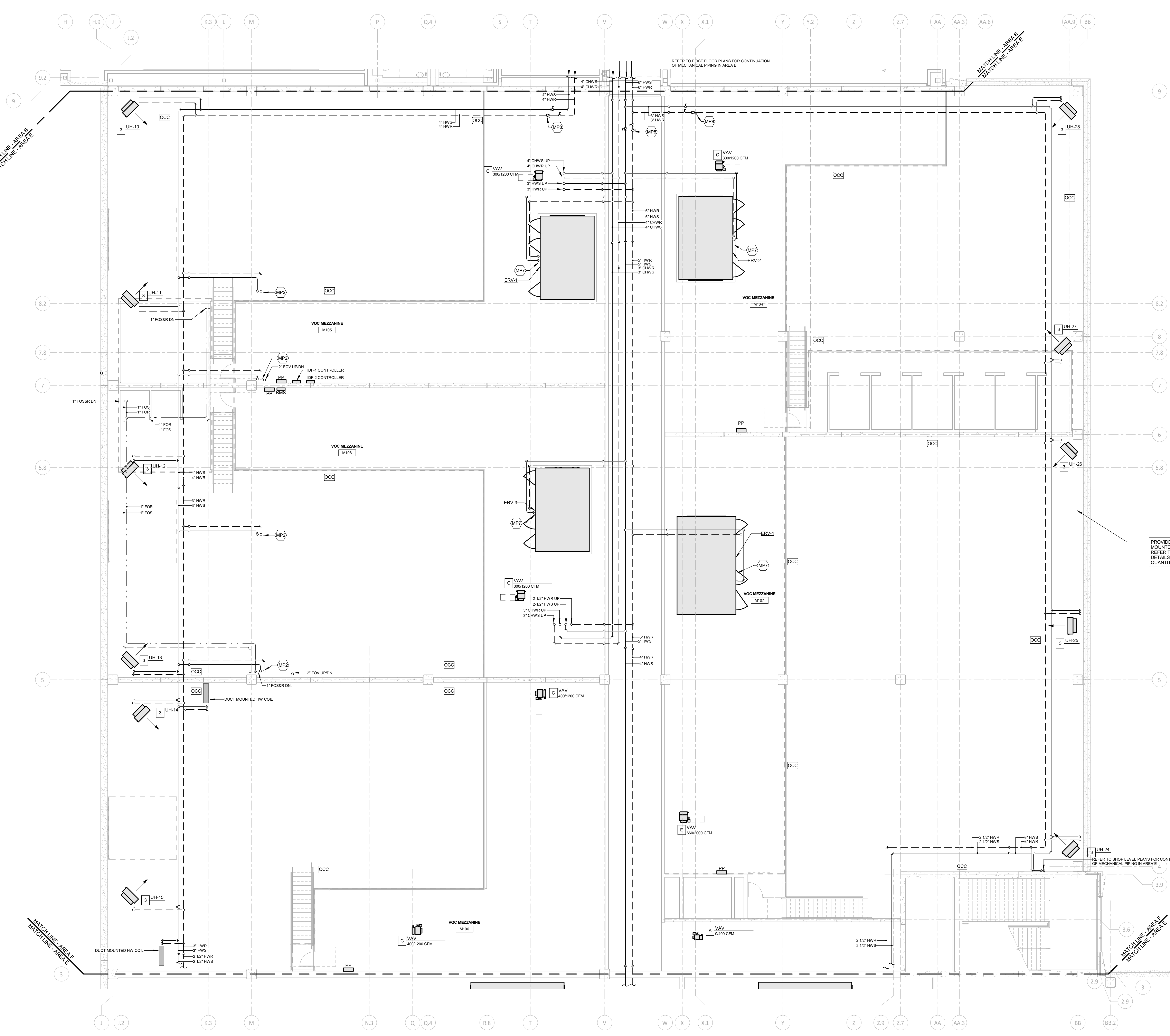
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PROVIDE HWS&R BRANCH PIPING TO DUCT MOUNTED HW COIL SERVING VAV BOX UNIT. REFER TO VAV BOX SCHEDULE AND RESPECTIVE DETAILS. REFER TO DUCTWORK PLANS FOR QUANTITIES AND LOCATIONS. (TYPICAL)



REVISIONS		drawing title		date	
mark	date	description	MEZZANINE MECHANICAL PIPING PLAN AREA E		10/11/2019
	11/8/2019	Addendum No. 1	CONSULTING ENGINEERING SERVICES, INC.		As Indicated
			drawing prepared by		scale
			CONSULTING ENGINEERING SERVICES, INC.		As Indicated
			drawing no.		approved by
			M2-1-ME		approved by
			drawing no.		approved by
			drawing no.		approved by
			drawing no.		approved by



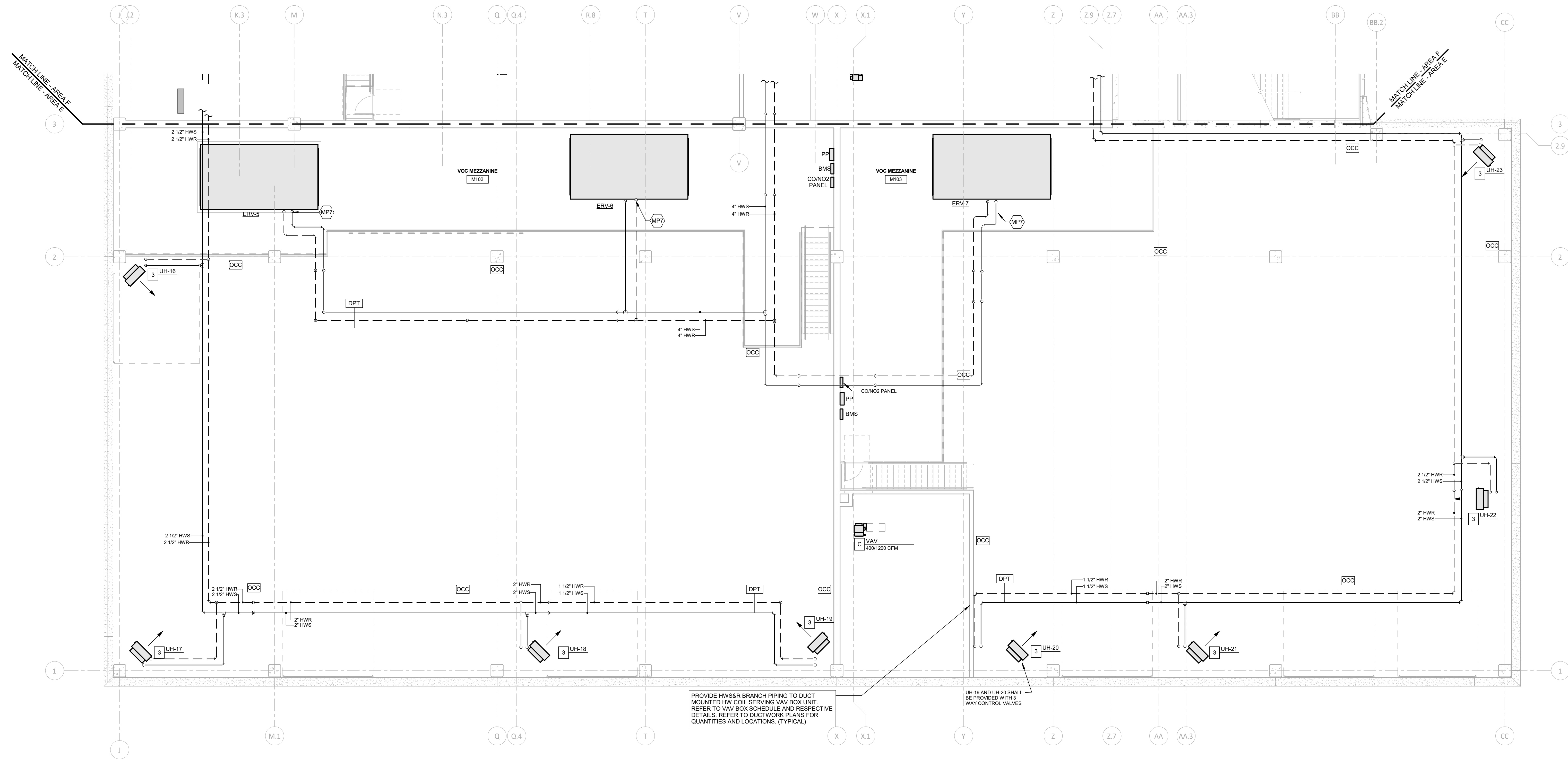
1 MEZZANINE MECHANICAL PIPING PLAN - AREA E
1/8" = 1'-0"

MECHANICAL NOTES

- SEE DRAWINGS M3-1-1, M3-1-2 & M3-1-3 FOR SYMBOL LIST AND SCHEDULES.
- SEE DRAWINGS M4-1-1, M4-1-2, M4-1-3 & M4-1-4 FOR DETAILS.
- SEE DRAWINGS M5-1-1, M5-1-2, M5-1-3 & M5-1-4 FOR CONTROLS DIAGRAMS.
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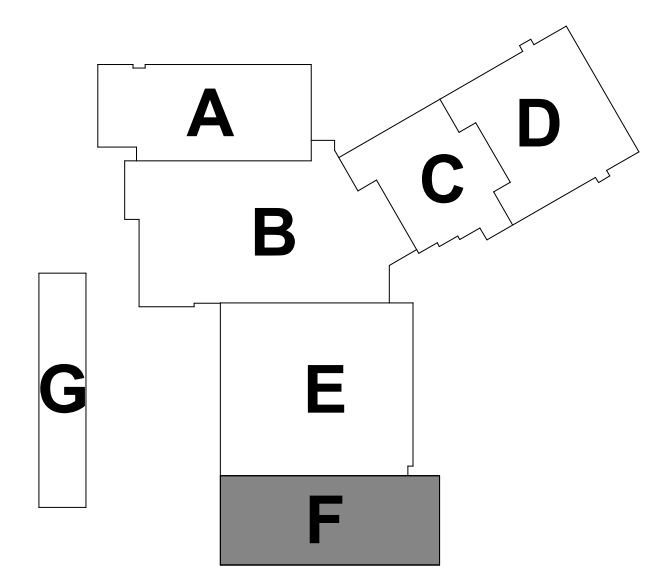
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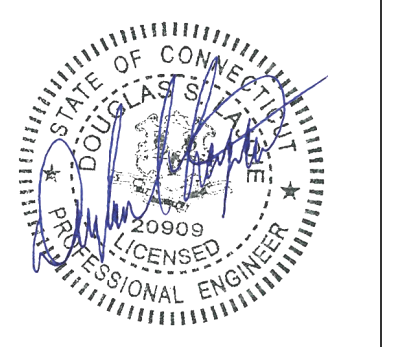
UH-19 AND UH-20 SHALL BE PROVIDED WITH 3-WAY CONTROL VALVES

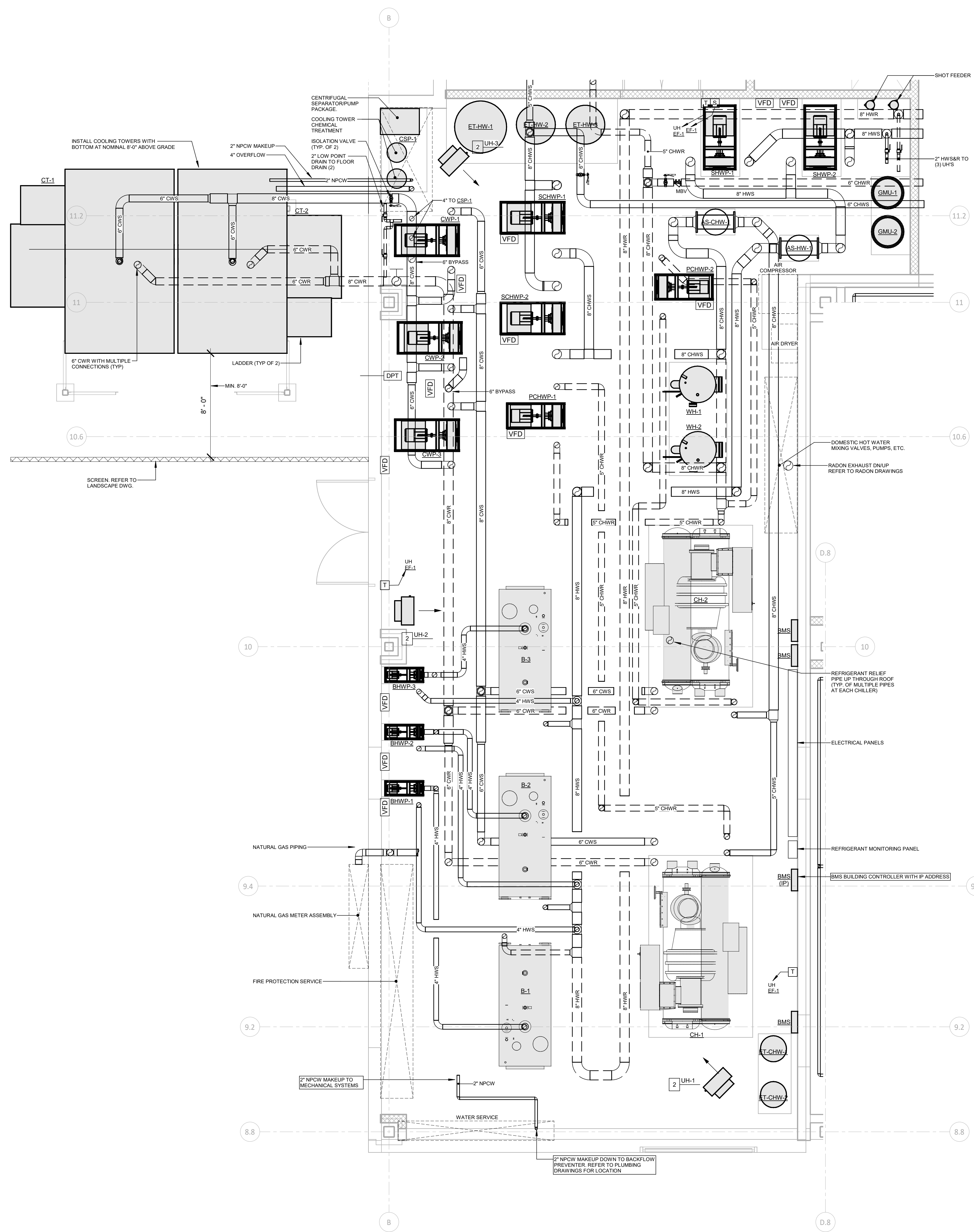


BID DOCUMENTS

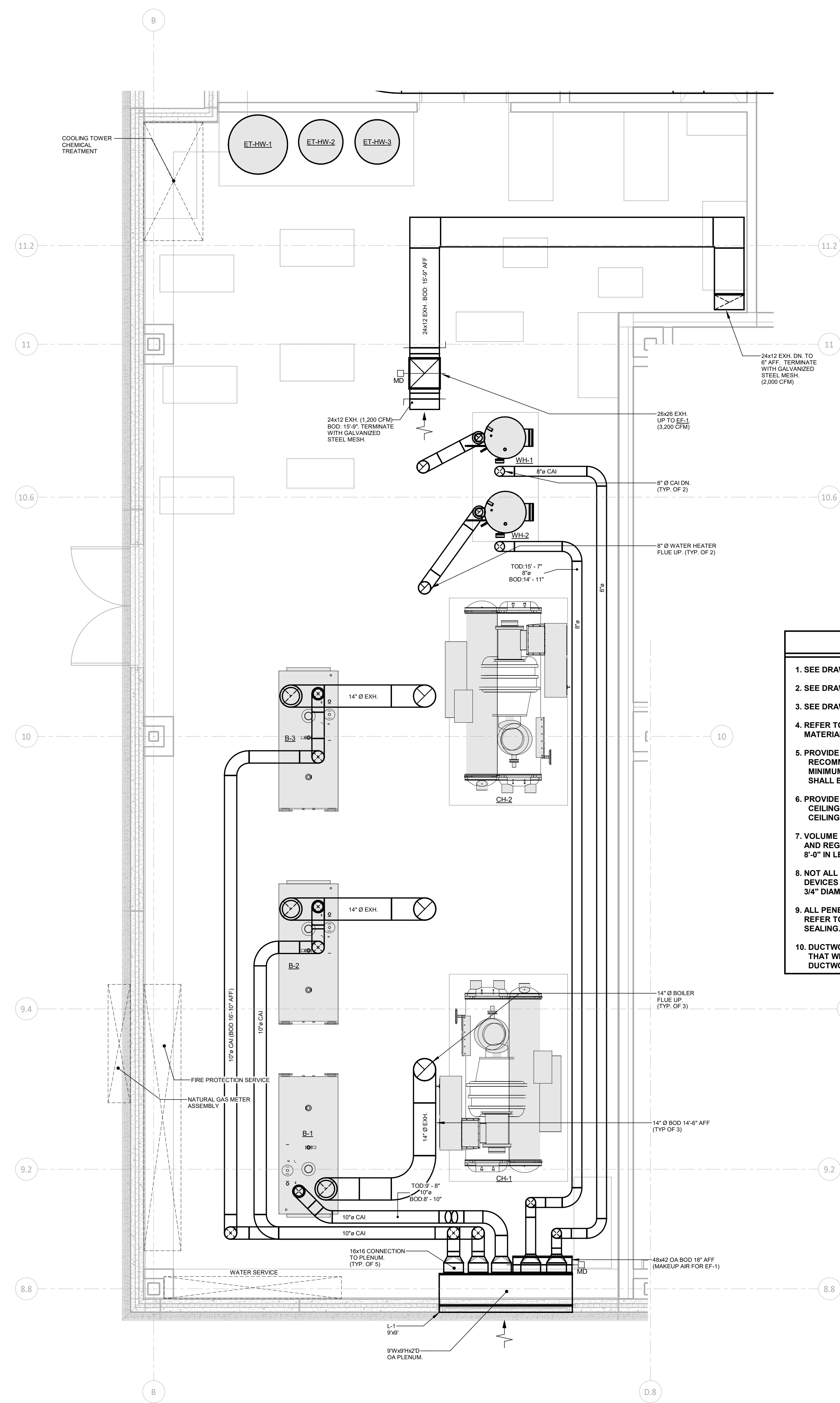
drawing title MEZZANINE MECHANICAL PIPING PLAN AREA F		
REVISIONS		
mark	date	description
	11/8/2019	Addendum No. 1

STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES		date 10/11/2019
drawing prepared by Consulting Engineering Services, Inc. 811 Middle St., Middletown, CT 06467		scale As Indicated
project Additions and Renovations Platt Technical High School 600 Orange Avenue Middletown, CT 06461		drawn by JMK
CAD no.	DCS project no. B1RT-076 CM-R	OSCRG project no. 900-0013
		approved by RSW
		drawing no. M2-1-MF





2 MECHANICAL BOILER ROOM PARTIAL PIPING PLAN
1/4" = 1'-0"

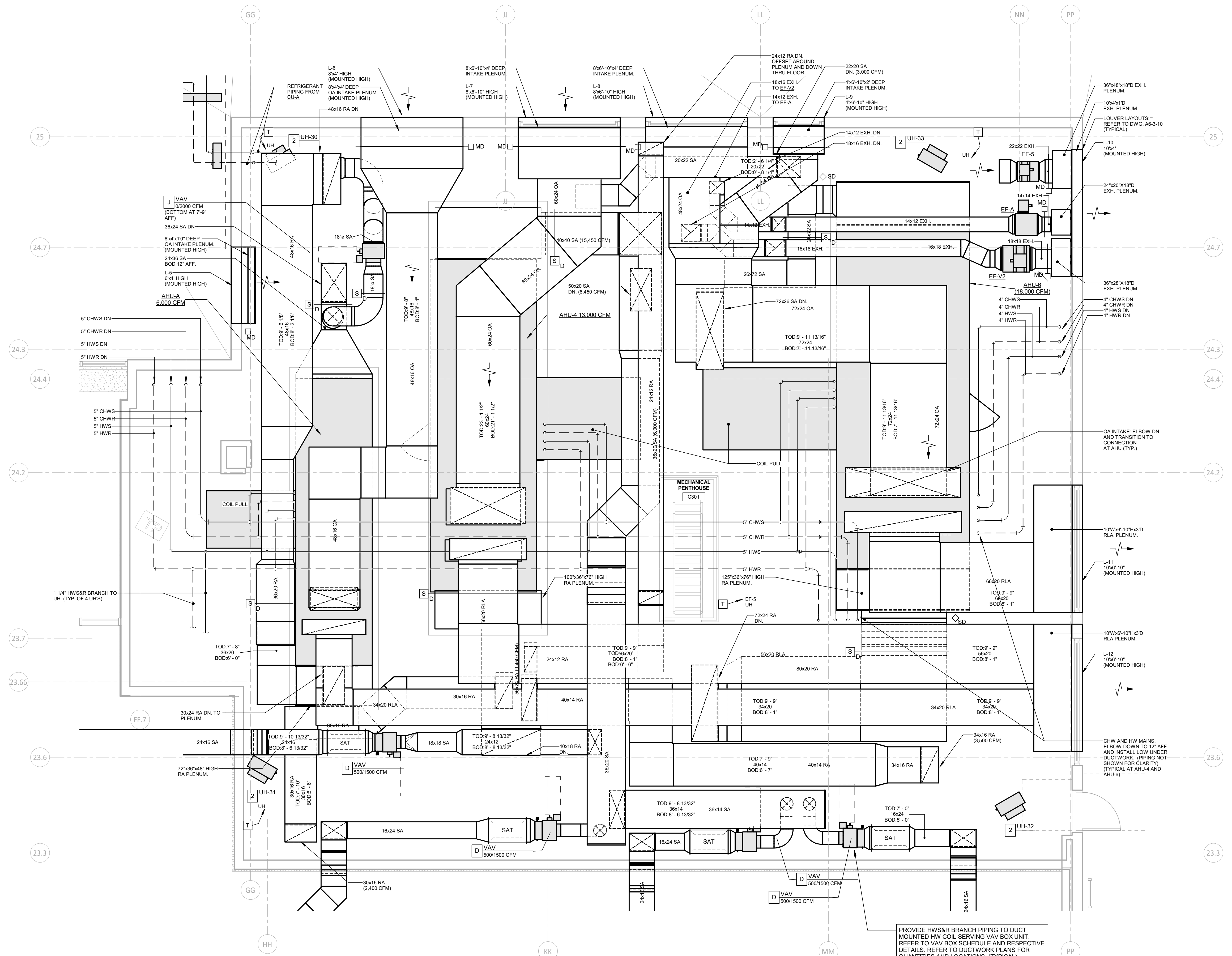


1 MECHANICAL BOILER ROOM PARTIAL PLAN
1/4" = 1'-0"

- ### MECHANICAL NOTES
- SEE DRAWINGS M3-1-1, M3-1-2 & M3-1-3 FOR SYMBOL LIST AND SCHEDULES.
 - SEE DRAWINGS M4-1-1, M4-1-2, M4-1-3 & M4-1-4 FOR DETAILS.
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 - ALL PENETRATIONS THROUGH FULL HEIGHT CORRIDOR WALLS SHALL BE SEALED. REFER TO ARCHITECTURAL DRAWINGS FOR TYPES OF WALLS AND REQUIREMENTS FOR SEALING.
 - DUCTWORK AND PIPING LAYOUTS DO NOT SHOW ALL TRANSITIONS AND OFFSETS THAT WILL BE REQUIRED. PROVIDE COORDINATION DRAWINGS AND OFFSET DUCTWORK AND PIPING AS REQUIRED.



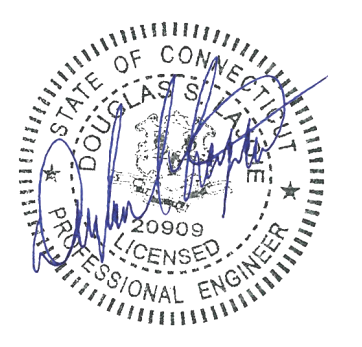
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mark	date	description	MECHANICAL PARTIAL PLAN	
	11/8/2019	Addendum No. 1		
drawing title			STATE OF CONNECTICUT	
drawing description			DEPARTMENT OF ADMINISTRATIVE SERVICES	
drawing prepared by			date	
Consulting Engineering Services, Inc.			10/11/2019	
drawing scale			As Indicated	
drawing drawn by			JMK	
drawing approved by			BKW	
drawing no.			M2-3-1A	
project			CAD no.	
Additions and Renovations Platt Technical High School 600 Orange Avenue Middletown, CT 06461			DCS project no. BIRT-076 CM-R	
OSCR project no. 990-0013				



1 MECHANICAL ROOM PARTIAL PLAN
1/4" = 1'-0"

FIRE DAMPER NOTE FOR FLOOR PENETRATIONS

PROVIDE FIRE DAMPERS AT ALL DUCTWORK PENETRATIONS THROUGH THE 2ND FLOOR AND FLOOR OF THE MECHANICAL PENTHOUSE. AT EACH FIRE DAMPER, PROVIDE A DUCT ACCESS DOOR TO PROVIDE ACCESS FROM THE FLOOR ABOVE. EACH ACCESS DOOR SHALL BE MINIMUM 24"X24" AND SHALL BE INSTALLED AT 6" AFF TO THE BOTTOM, WHERE DUCT WIDTH IS LESS THAN 24". ACCESS DOOR SHALL BE WIDTH OF DUCT, LESS 2". HEIGHT SHALL REMAIN 24". PROVIDE 24"X24" ACCESS PANEL IN THE PARTITION AT THE SAME HEIGHT TO ALLOW ACCESS TO THE DUCT ACCESS DOOR.



REVISIONS			drawing title	STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	date
mark	date	description			
	11/8/2019	Addendum No. 1	MECHANICAL PENTHOUSE PARTIAL PLAN	prepared by Consulting Engineering Services, Inc. 811 Middle St., Middletown, CT 06457	10/11/2019
			project Additions and Renovations Platt Technical High School 600 Orange Avenue Middletown, CT 06461	drawn by AK	scale As Indicated
			CAD no.	approved by BKW	drawing no.
			OSCRG project no. BIRT-272 CM-R	approved by BKW	M2-3-1C

GAS FIRED INFRA-RED HEATER SCHEDULE

Table with columns: SYMBOL, MANUFACTURER/ MODEL NUMBER, STAGES, LENGTH (FEET), FUEL, BTUH INPUT (LOW FIRE), BTUH INPUT (HIGH FIRE), GAS PRESSURE, AMPS, VOLTS, PHASE. Rows include RH-1, RH-2, RH-3, RH-4.

- REMARKS: 1. FURNISH RADIANT HEATERS WITH INTERFACE TO BMS. 2. FURNISH RADIANT HEATERS WITH ALL REQUIRED MOUNTING HARDWARE. 3. FURNISH RADIANT HEATERS WITH BLACK COATED ALUMINIZED STEEL BURNER WITH HOT SURFACE IGNITION. 4. PROVIDE OUTDOOR COMBUSTION INTAKE ROOF CAPS. 5. PROVIDE FACTORY PRE & POST PURGE CONTROLS AND MICRO-PROCESSOR CIRCUITRY. 6. PROVIDE WITH ALUMINUM REFLECTOR. 7. DISCONNECT SWITCHES SHALL BE BY DIVISION 26.

CASSETTE AIR CONDITIONING UNIT SCHEDULE

Table with columns: SYMBOL, MANUFACTURER/ MODEL NUMBER, TOTAL CAP (MBH), SENS CAP (MBH), AIR SIDE (FLOW, EAT, FLOW, EWT, LWT, PD), MOTOR DATA (MCA, VOLTS, PH), BRANCH PIPE SIZE. Rows include CAC-1, CAC-2, CAC-3.

- REMARKS: 1. DISCHARGE PATTERN SHALL BE 4-WAY. 2. FILTERS SHALL BE MERV 8. 3. PROVIDE EACH WITH INTEGRAL CONDENSATE PUMP. 4. RATINGS ARE BASED ON UNIT RUNNING WITH 100% WATER.

FAN SCHEDULE

Table with columns: SYMBOL, MANUFACTURER/ MODEL NUMBER, TYPE, LOCATION, AREA SERVING, AIR FLOW (CFM), SP (IN WG), FAN SPEED (RPM), DRIVE, BHP, MOTOR DATA (HP, VOLTS, PH), WEIGHT (LBS), REMARKS. Rows include EF-A through VEF-14.

- TYPE: IL = IN-LINE, HPDF = HIGH PLUME DISCHARGE FAN, CUJF = CENTRIFUGAL UTILITY FAN, RMBDF = ROOF MOUNTED DOWNBLAST FAN, RMUBF = ROOF MOUNTED UPBLAST FAN, CF = CEILING FAN.

- NOTE: 1. FOR DAMPER SPEC. REFER TO SPEC SECTION 230923. 2. FOR ROOF CURB SPECIFICATION, REFER TO SPECIFICATION SECTION 230548 UNLESS NOTED OTHERWISE.

- DRIVE: B = BELT DRIVE, D = DIRECT DRIVE.

- REMARKS: 1. PROVIDE WITH DISCONNECT SWITCH. 2. PROVIDE WITH VIBRATION ISOLATORS. 3. NOT USED. 4. FAN SHALL SERVE GREASE HOOD AND SHALL BE UL782 LISTED. 5. PROVIDE WITH UNIT MOUNTED VARIABLE SPEED CONTROLLER AND ECM MOTOR. 6. PROVIDE WITH STEEL ACCESS DOOR, HOOD AND CSMA BC WEAIR/RECOVER-STEEL. 7. INSTALL ON VIBRATION ISOLATION ROOF CURB AS SPECIFIED IN SPEC SECTION 230548. 8. PROVIDE WITH MIXING BOX WITH BYPASS DAMPER AND DISCHARGE NOZZLE. BALANCE EXTRA AIRFLOW AT MIXING BOX DAMPER. PROVIDE WITH HEAVY DUTY CURB AND MOUNTING BRACKET. 9. PROVIDE WITH EXPLOSION PROOF MOTOR AND CONSTRUCTED TO MEET AMCA "A" SPARK RESISTANT RATING.

AIR HANDLING UNIT SCHEDULE

Table with columns: SYMBOL, MFR MODEL NO, SA DUCT CONNECTION SIZE, NO SA FANS, TOTAL SA CFM, SUPPLY FAN DATA (CFM, ESP, TSP, SPEED), MOTOR DATA (BHP, HP, RPM, VOLTS, PH), ACCESS SECTION (LENGTH), HEATING COIL SECTION, FILTER SECTION, ECONOMIZER AND MIXING BOX SECTIONS, ER, NO FANS, TOTAL EXH. CFM, EXHAUST / RETURN FAN DATA (CFM, ESP, TSP, SPEED), MOTOR DATA (BHP, HP, RPM, VOLTS, PH), RA DUCT CONNECTION SIZE, OPERATING WEIGHT (LBS), MAX HEIGHT INCLUDING BASE RAIL, NOTES.

- REMARKS APPLY TO ALL UNITS: 1. FILTERS SHALL BE MERV 12 FILTERS (2" DEEP) AT OA AND RA AND SHALL BE ANGLE FILTER ARRANGEMENT. 2. PROVIDE EACH FAN MOTOR WITH INDIVIDUAL VFD AND DISCONNECT SWITCH. EACH FAN SHALL BE PROVIDED WITH SHAFT GROUNDING RING. 3. PROVIDE EACH FAN WITH BACKDRAFT DAMPER WHERE UNIT IS SERVED BY TWO FANS. 4. PROVIDE WITH MODULATING FACE AND BYPASS DAMPERS AT ER SECTION. 5. PROVIDE WITH MODULATING RA/EXHAUST AIR DAMPERS. 6. PROVIDE DAMPERS AT OUTSIDE AIR AND EXHAUST AIR. DAMPERS SHALL BE REMOTE MOUNTED AT OUTSIDE AIR INTAKE HOOD AND EXHAUST AIR HOOD. 7. ALL FANS SHALL BE PROVIDED WITH INTERNAL SPRING ISOLATORS WITH MINIMUM 1.5" STATIC DEFLECTION.

NOTE

ENERGY RECOVERY SCHEDULE

Table with columns: SYMBOL, TYPE, WINTER PERFORMANCE (VENTILATION AIR, EXHAUST AIR), SUMMER PERFORMANCE (VENTILATION AIR, EXHAUST AIR), FLOW (CFM), EAT (°F) DB, LAT (°F) DB, PD (IN WG), FLOW (CFM), EAT (°F) DB, LAT (°F) DB, PD (IN WG), FLOW (CFM), EAT (°F) DB, LAT (°F) DB, PD (IN WG), WEIGHT (LBS), REMARKS.

- NOTES: 1. PRESSURE DROP DATA IS MAXIMUM PRESSURE DROP ACROSS ENTIRE ENERGY RECOVERY SECTION.

MAKE-UP AIR UNIT SCHEDULE

Table with columns: SYMBOL, MANUFACTURER/ MODEL NUMBER, TYPE, LOCATION, FUEL, IGNITION TYPE, INPUT HEATING CAPACITY (CAPACITY (MBH), CFM, AIR TEMP RISE (°F)), % OA, ESP (IN WG), MOTOR HP, MCA, MOCP, VOLT, PHASE, WEIGHT (LBS), REMARKS.

- TYPE: I = INDIRECT FIRED.

- REMARKS: 1. PROVIDE WITH INTERFACES WITH BMS PER SPEC SECTION 23 0393. 2. PROVIDE WITH UNIT MOUNTED FUSED DISCONNECT SWITCH. 3. PROVIDE WITH SA FAN WITH VFD. 4. PROVIDE WITH MERV 8 FILTERS. 5. PROVIDE PACKAGED FACTORY CONTROLS AIRFLOW PROVING SWITCH AND MODULATING GAS CONTROL VALVE. 6. PROVIDE CUSTOM ROOF CURBS. REFER TO SPEC SECTION 23 0548.

FAN COIL UNIT SCHEDULE

Table with columns: SYMBOL, MANUFACTURER/ MODEL NUMBER, UNIT SIZE, SUPPLY FAN DATA (CFM, ESP, TSP, SPEED), MOTOR DATA (BHP, HP, RPM, VOLTS, PH), COOLING COIL SECTION, HEATING COIL SECTION, ANGLE FILTER SECTION, OUTSIDE AIR (CFM), OPERATING WEIGHT (LBS), REMARKS.

- REMARKS: 1. FILTERS SHALL BE 2" PLEATED, MERV 13. INITIAL AND FINAL PRESSURE DROPS AT 500 FPM SHALL BE 0.43" AND 1.0". 2. PROVIDE WITH STAINLESS STEEL DRAIN PANS.

CHILLED WATER COIL SCHEDULE

Table with columns: SYMBOL, MANUFACTURER/ MODEL NUMBER, TYPE, TOTAL CAP (MBH), SENS CAP (MBH), MAX FACE VELOCITY (FPM), AIR SIDE (FLOW, EAT, LAT, PD), 30% GLYCOL SOLUTION SIDE (FLOW, EWT, LWT, PD), CHWSR BRANCH SIZE, REMARKS.

- TYPE: UM = UNIT MOUNTED. REMARKS: 1. WATER/GLYCOL SOLUTION SHALL BE 30% PROPYLENE GLYCOL. 2. LAT IS SATURATED.

FILTER SCHEDULE

Table with columns: SYMBOL, MANUFACTURER/ MODEL NUMBER, SIZE (L x W), DEPTH, MIN EFF (%), FACE VELOCITY (FPM), CLEAN PD (IN WG), FINAL PD (IN WG), REMARKS.

- NOTES: 1. PROVIDE WITH FILTER FRAMES WITH FLANGED DUCTWORK CONNECTIONS, SIDE ACCESS DOORS AT BOTH SIDES, SLIDE RAIL GUIDES AND RATING FOR MINIMUM 5" WG. 2. PROVIDE DIFFERENTIAL PRESSURE GAUGE WITH TWO SHUT OFF VALVES.

ELECTRIC BASEBOARD SCHEDULE

Table with columns: SYMBOL, MANUFACTURER/ MODEL NUMBER, OUTPUT BTU/HR, ELECTRICAL DATA (WATT-VOLTS-PHASE), LENGTH LF, REMARKS.

- REMARKS: 1. PROVIDE WITH CONTROL TRANSFORMER FOR INTERFACING WITH BMS. 2. BASEBOARD SHALL BE QMARK MODEL LISTED OR APPROVED EQUAL BY BERKO OR MARLEY.

HOT WATER COIL SCHEDULE

Table with columns: SYMBOL, MANUFACTURER, TYPE, TOTAL CAP (MBH), MAXIMUM FACE VELOCITY (FPM), AIR SIDE (FLOW, EAT, LAT, PD), 30% GLYCOL SOLUTION SIDE (FLOW, EWT, LWT, PD), HWSR BRANCH SIZE, REMARKS.

- REMARKS: 1. WATER/GLYCOL SOLUTION SHALL BE 30% PROPYLENE GLYCOL. 2. HWC-DC1 SHALL BE 48" x 36". 3. HWC-DC2 SHALL BE 48" x 48".

FUEL OIL TRANSFER PUMP SCHEDULE

Table with columns: SYMBOL, MANUFACTURER/ MODEL NUMBER, TYPE, LOCATION, SYSTEM SERVING, MEDIA, FLOW RATE (GPH), FLOW PRESSURE (PSI), HP, RPM, VOLTAGE, PHASE, REMARKS.

- TYPE: ES = END SUCTION, IL = IN-LINE. FUEL OIL PIPE SIZES: REFER TO FUEL OIL PIPING DIAGRAM FOR FUEL PIPE SIZES.

- REMARKS: 1. PUMPS SHALL BE DUPLEX TYPE TO PROVIDE 100% REDUNDANCY. 2. PROVIDE A LINE SIZE ANTI-SIPHON VALVE ON FUEL OIL INLET PIPE.

INDUCED DRAFT FAN SCHEDULE

Table with columns: SYMBOL, MANUFACTURER/ MODEL NUMBER, TYPE, LOCATION, AREA SERVING, AIR FLOW (CFM), SP (IN WG), DRIVE, MOTOR DATA (HP, VOLTS, PH), WEIGHT (LBS), REMARKS.

- TYPE: IL = IN-LINE, RMUBF = ROOF MOUNTED UPBLAST FAN. DRIVE: B = BELT DRIVE, D = DIRECT DRIVE. REMARKS: 1. PROVIDE WITH DISCONNECT SWITCH. 2. PROVIDE WITH VIBRATION ISOLATORS. 3. INSTALL ON VIBRATION ISOLATION ROOF CURB AS SPECIFIED IN SPEC SECTION 230548.

BID DOCUMENTS

MECHANICAL SCHEDULES

Table with columns: mark, date, description. Row: 11/8/2019, Addendum No.1

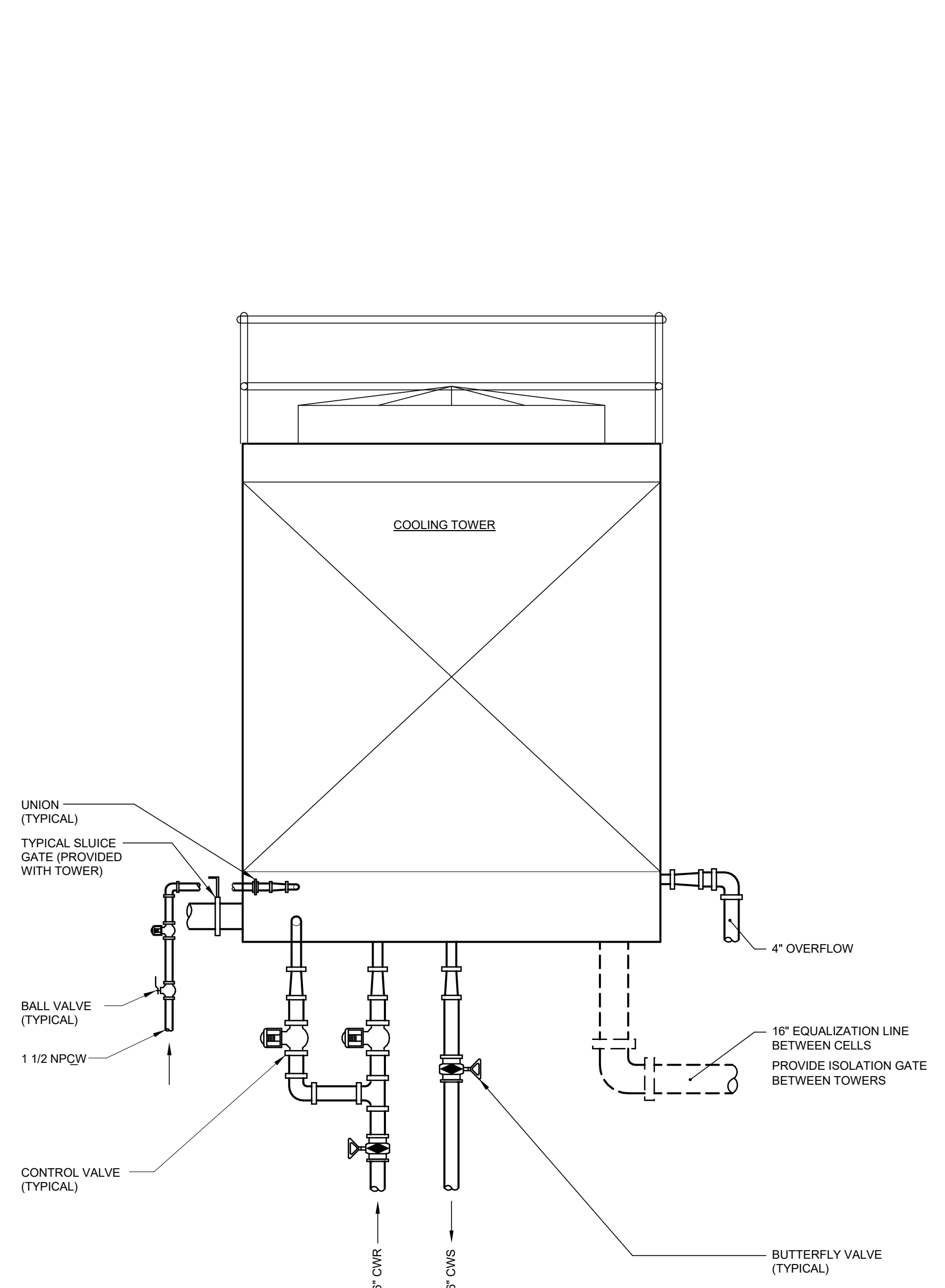
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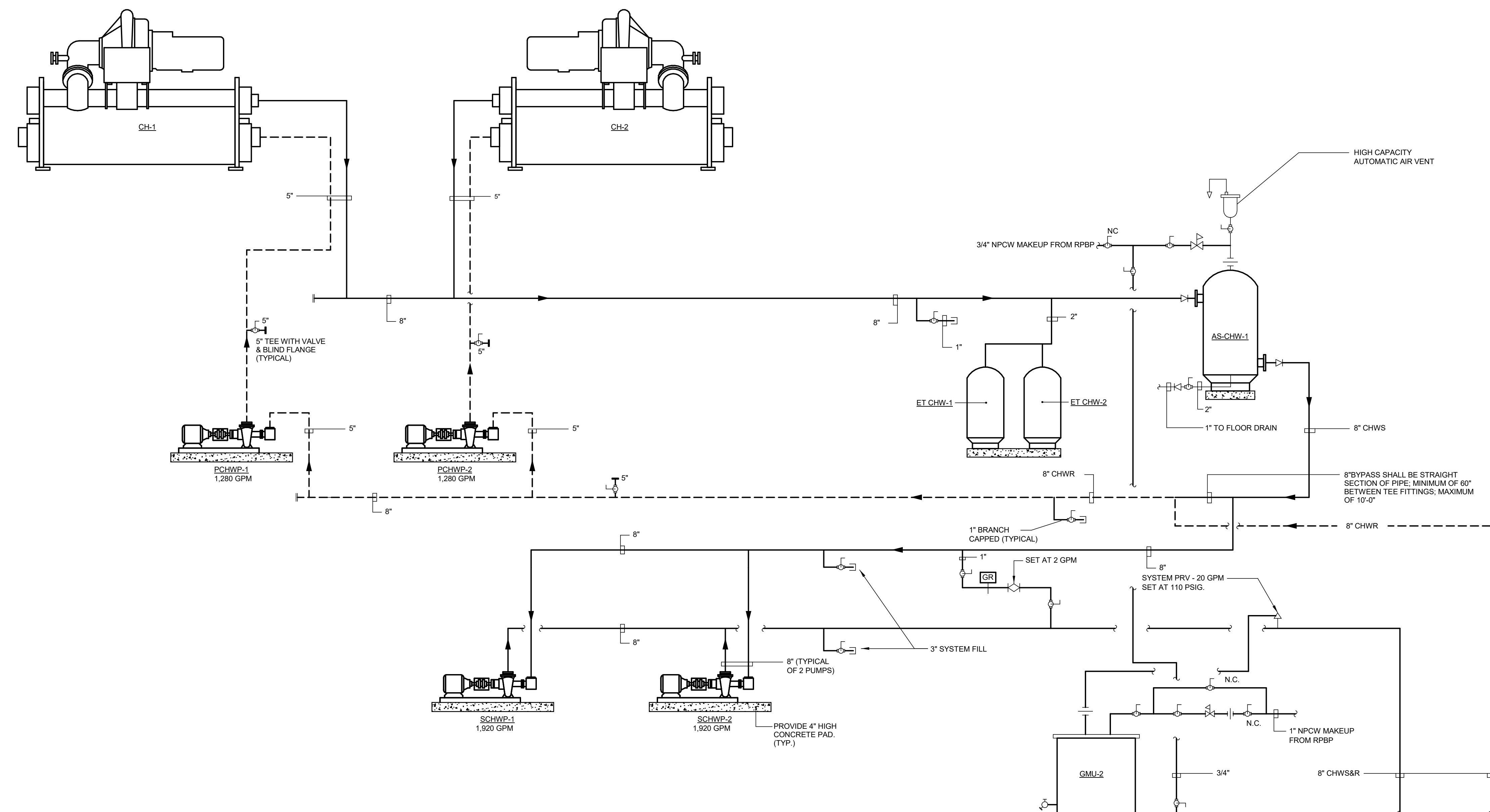
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CAD no. OSGCR project no. 900-0113

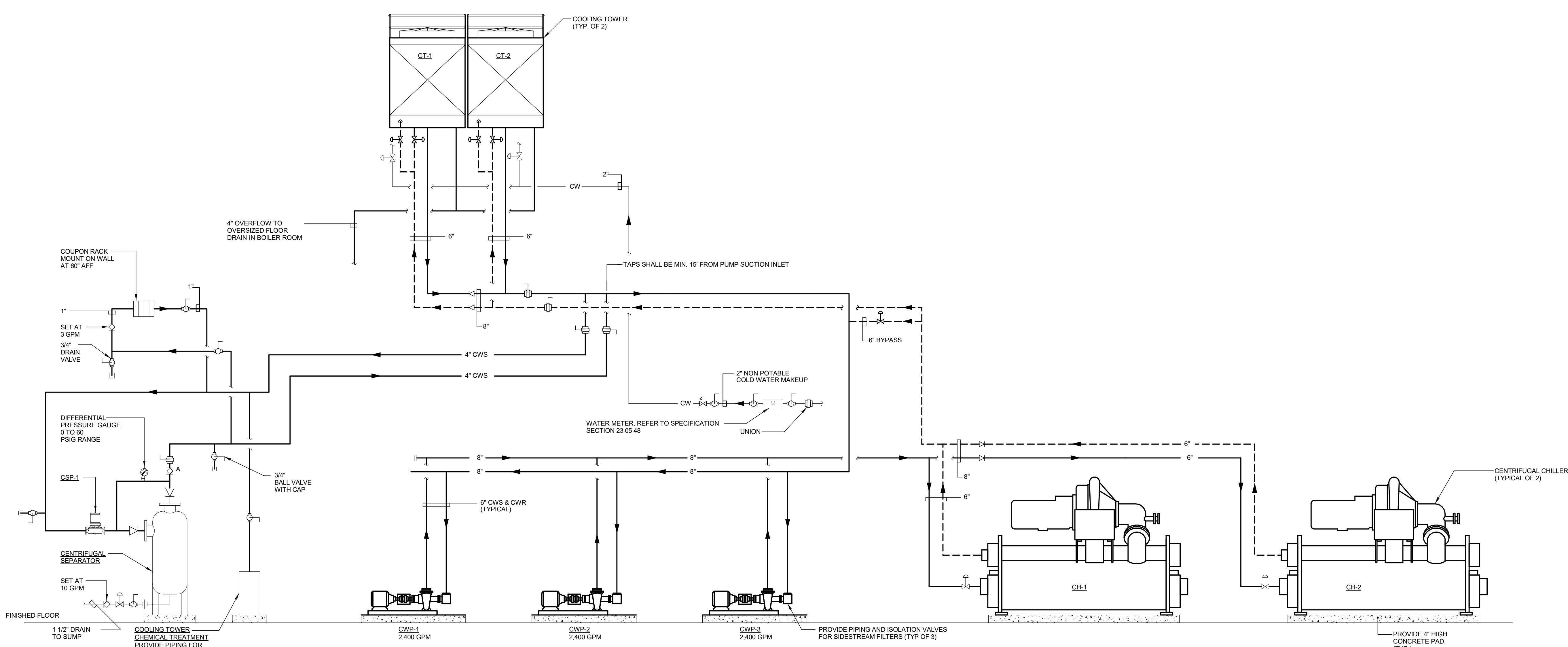




1 COOLING TOWER PIPING DIAGRAM
SCALE: N.T.S.



2 CHILLED WATER SYSTEM PIPING DIAGRAM
SCALE: N.T.S.

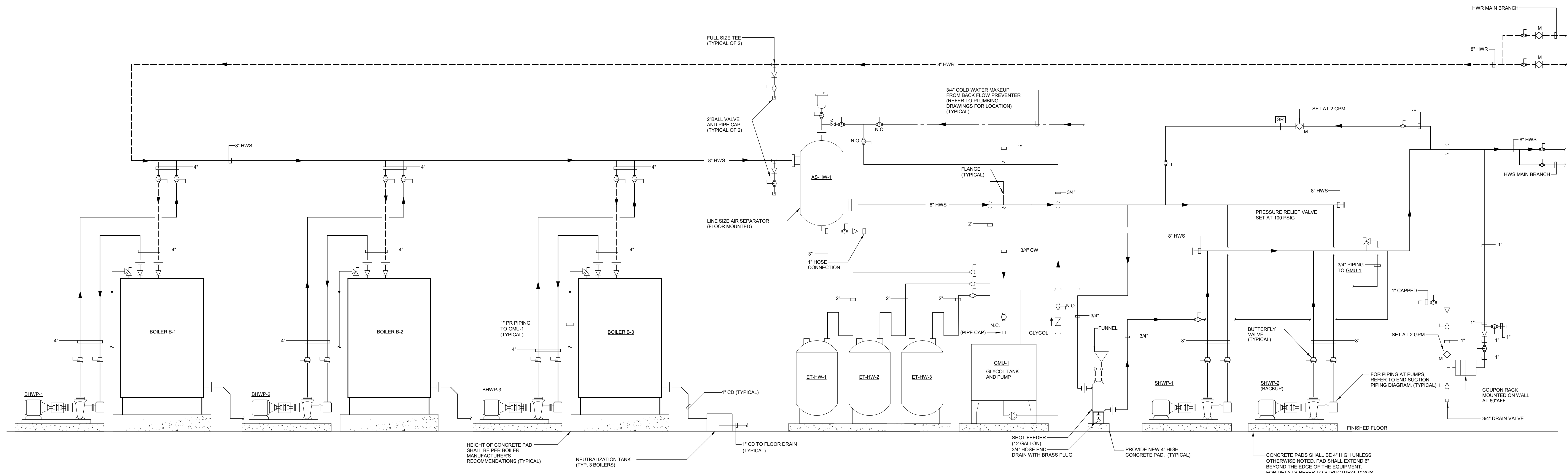


3 CONDENSER WATER SYSTEM PIPING DIAGRAM
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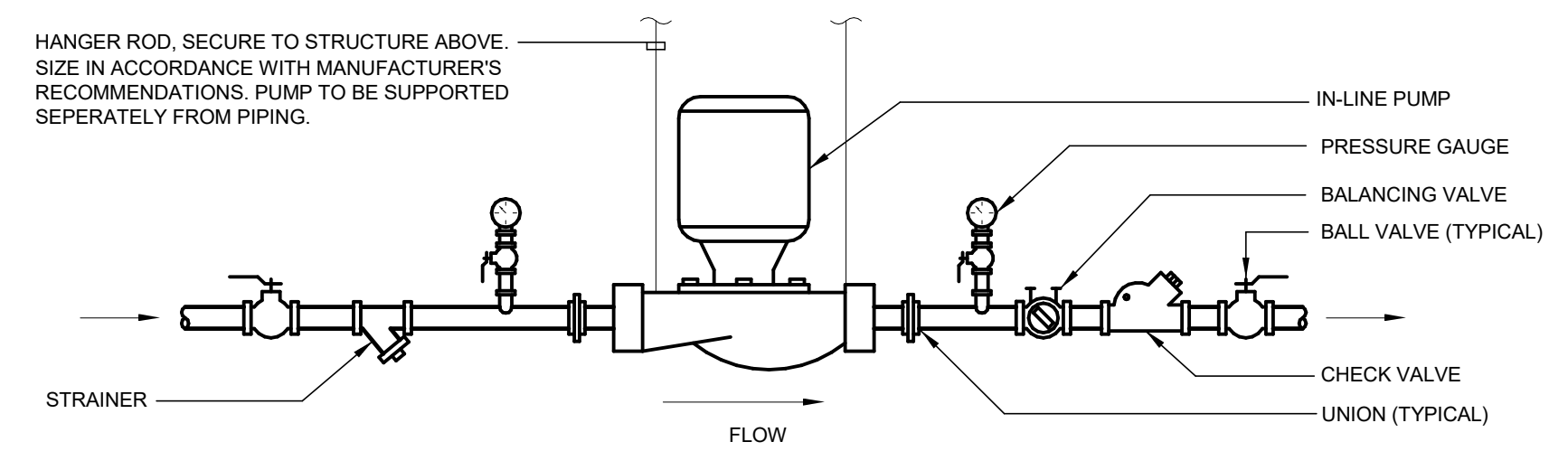


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	11/8/2019	Addendum No. 1	MECHANICAL DETAILS	M4-1-1	10/11/2019

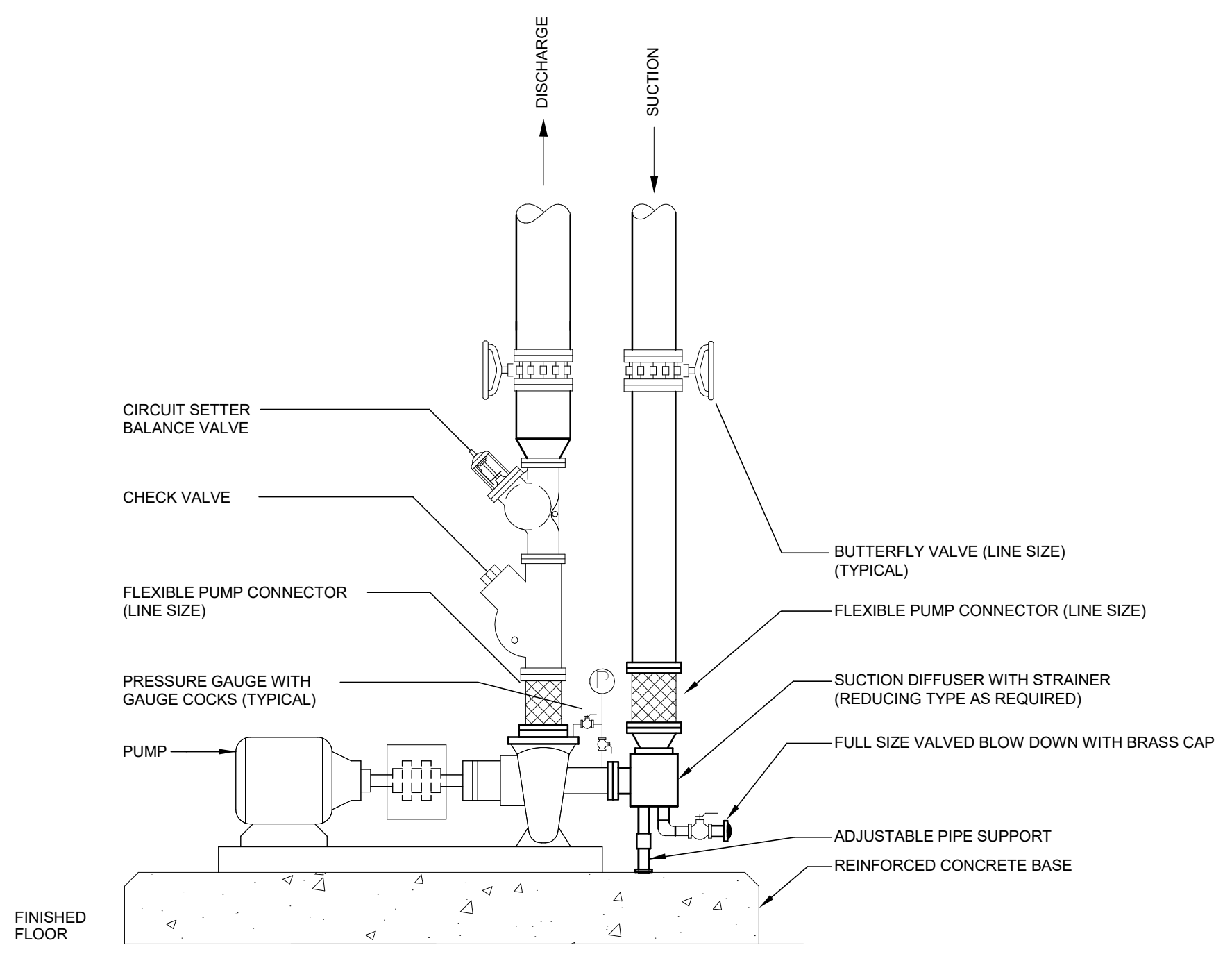
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prepared by		Consulting Engineering Services, Inc. 911 Middle St., Middletown, CT 06457	
project		Additions and Renovations Platt Technical High School 600 Orange Avenue, Middletown, CT 06461	
CAD no.		DCS project no. 18-RF-076 CM-R OSGCR project no. 990-0013	
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drawn by		approved by	
drawing no.		drawing no.	



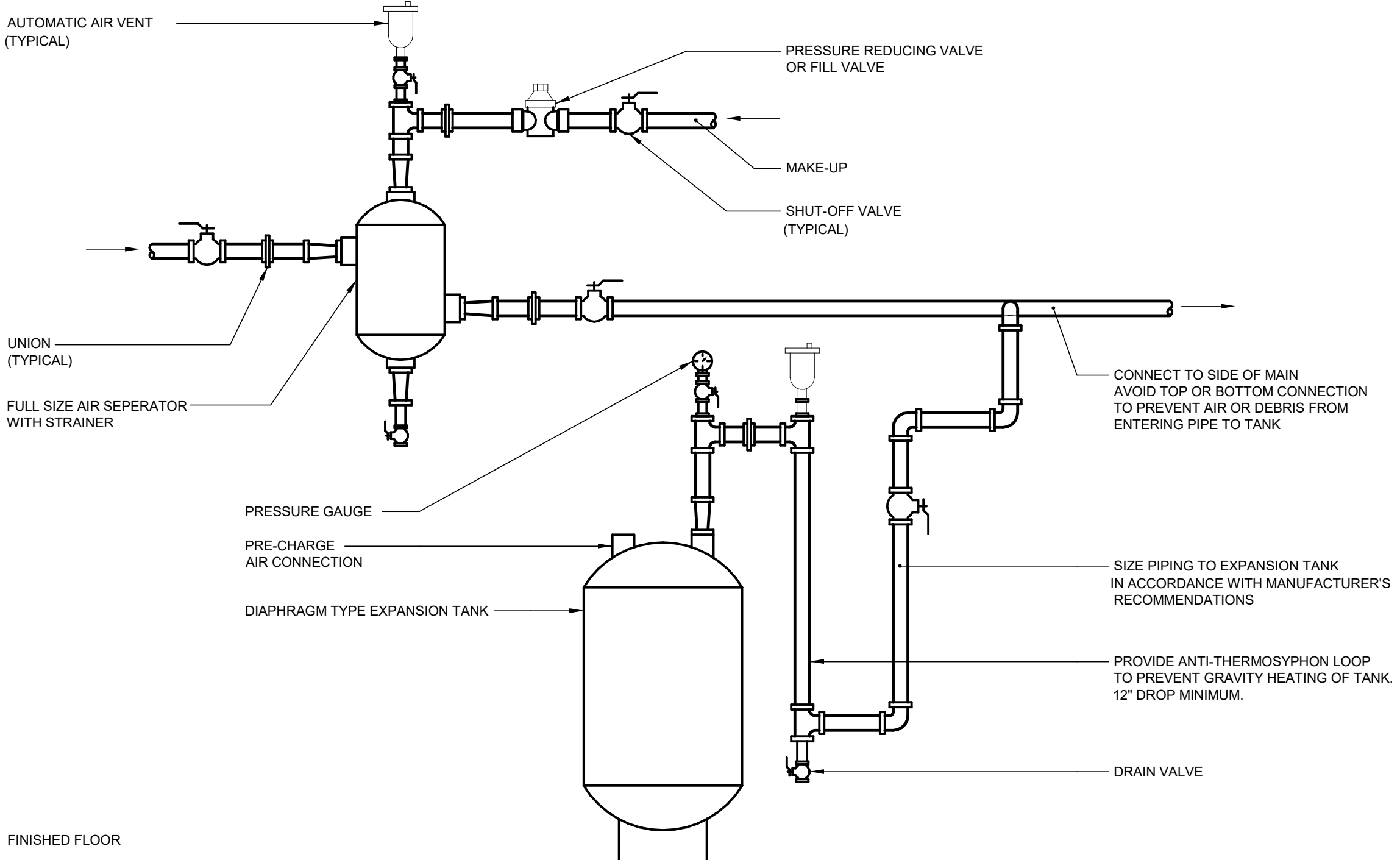
1 HOT WATER PLANT PIPING DIAGRAM
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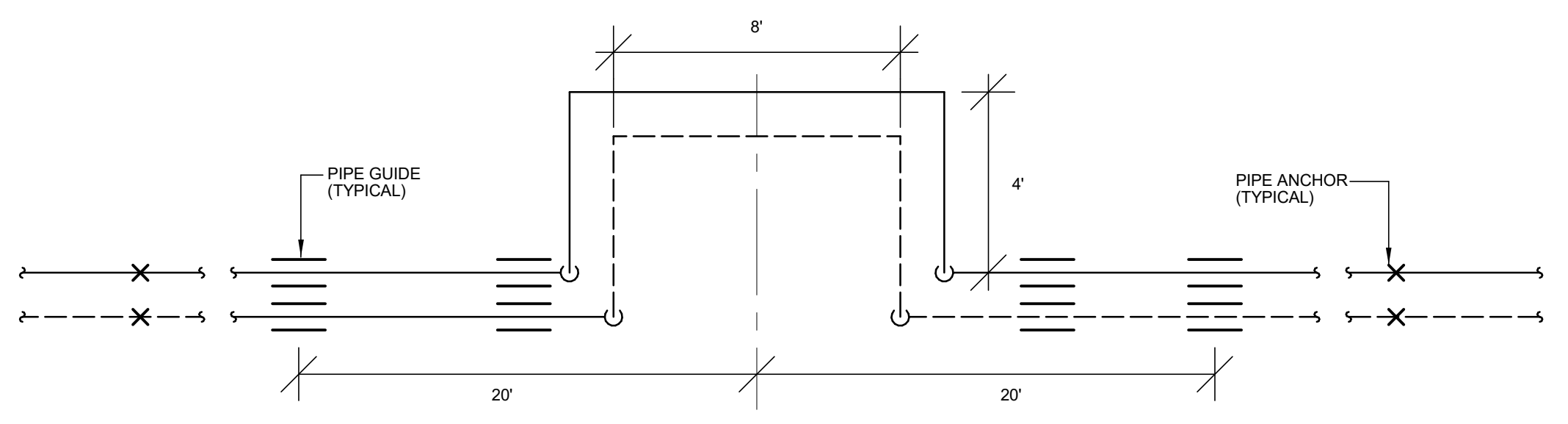
2 INLINE PUMP DETAIL
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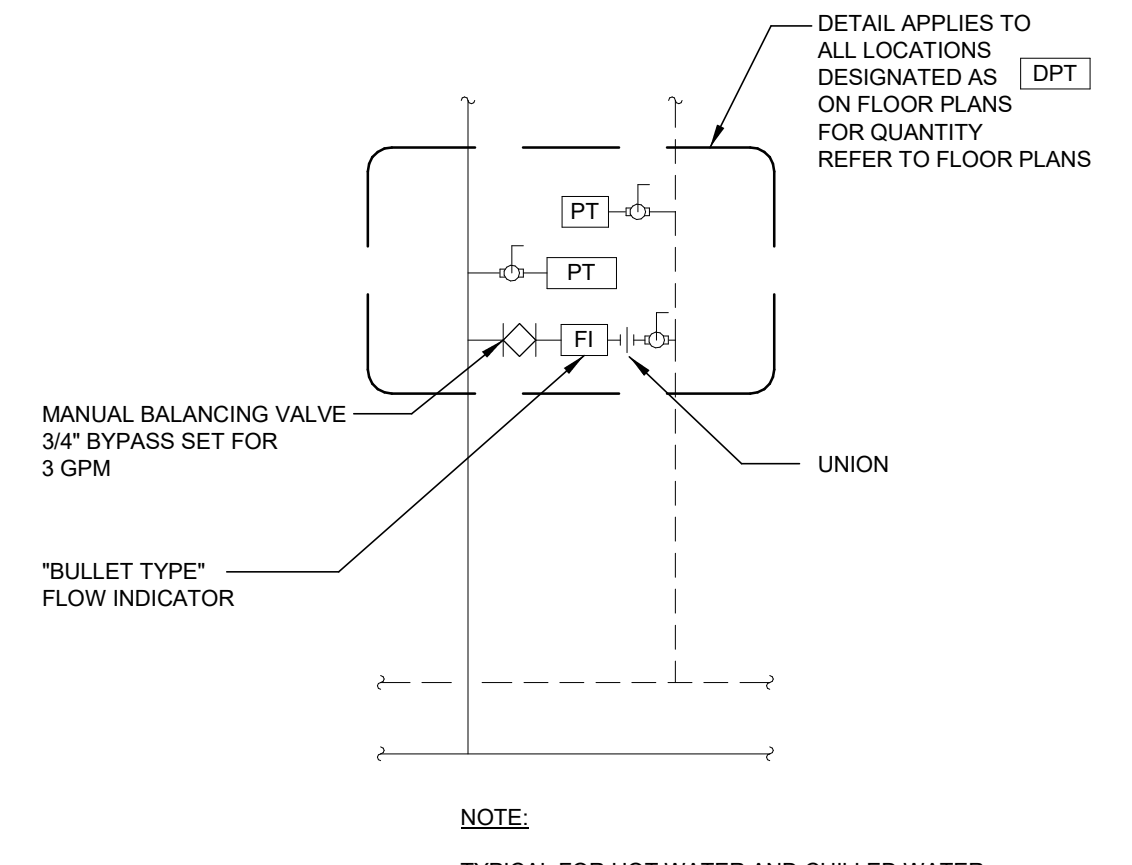
3 END SUCTION PUMP PIPING DETAIL
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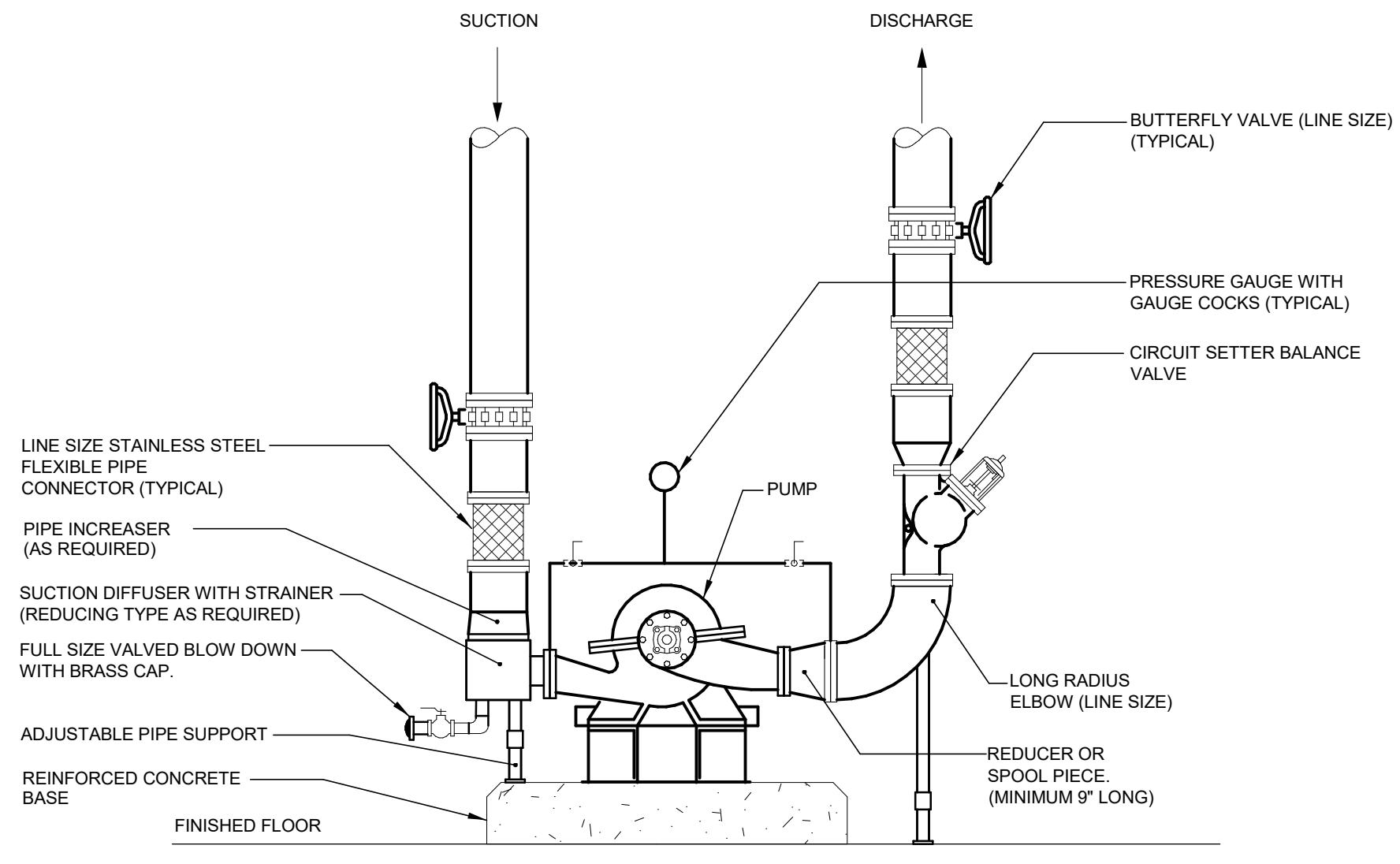
4 DIAPHRAGM EXPANSION TANK PIPING DIAGRAM
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5 TYPICAL EXPANSION LOOP DETAIL
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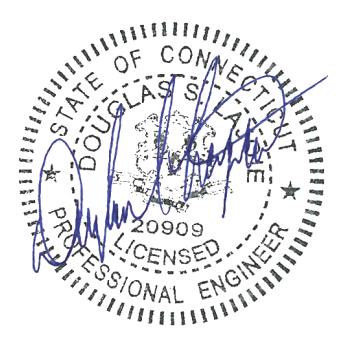
6 DIFFERENTIAL PRESSURE TRANSMITTER DETAIL
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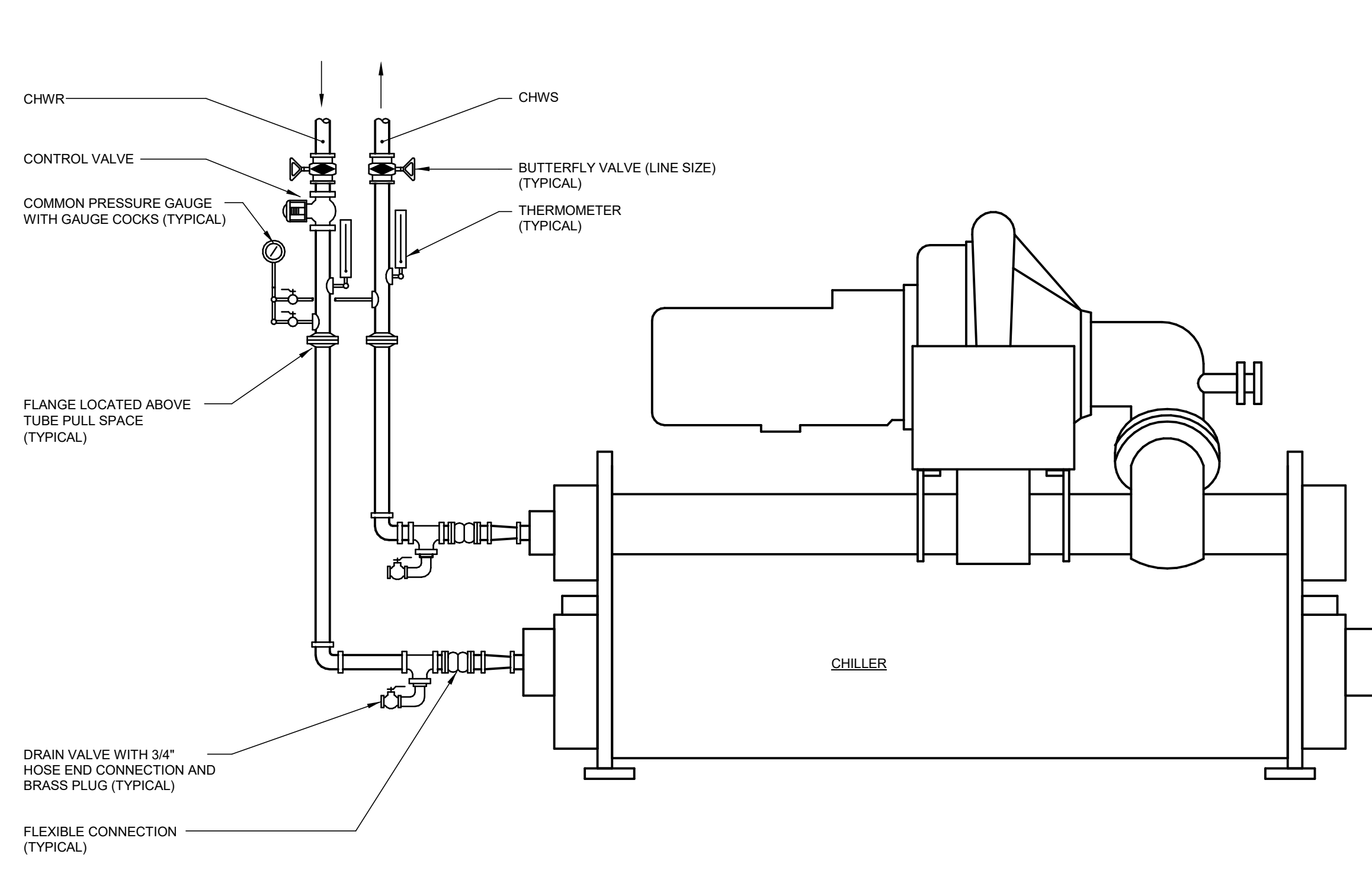


7 HORIZONTAL SPLIT CASE PUMP DETAIL
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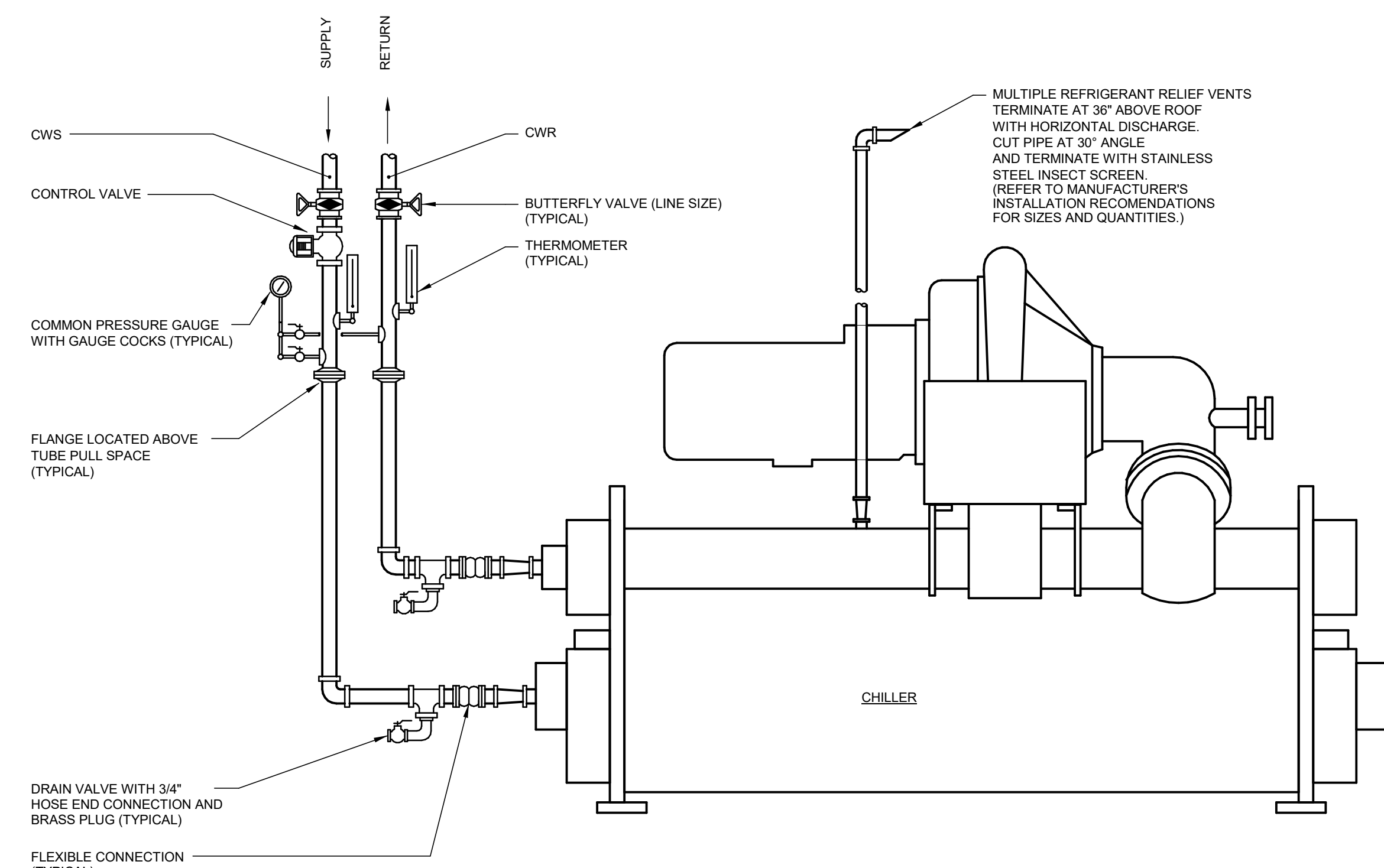
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project Additions and Renovations Platt Technical High School 600 Orange Avenue Middletown, CT 06461		drawing no. M4-1-2	scale 1/8" = 1'-0" drawn by BSK approved by BSW
CAD no.	DCS project no. BIRT-076 CM-R	OSCRG project no. 900-0113	prepared by Consulting Engineering Services, Inc. 911 Middle St., Middletown, CT 06467

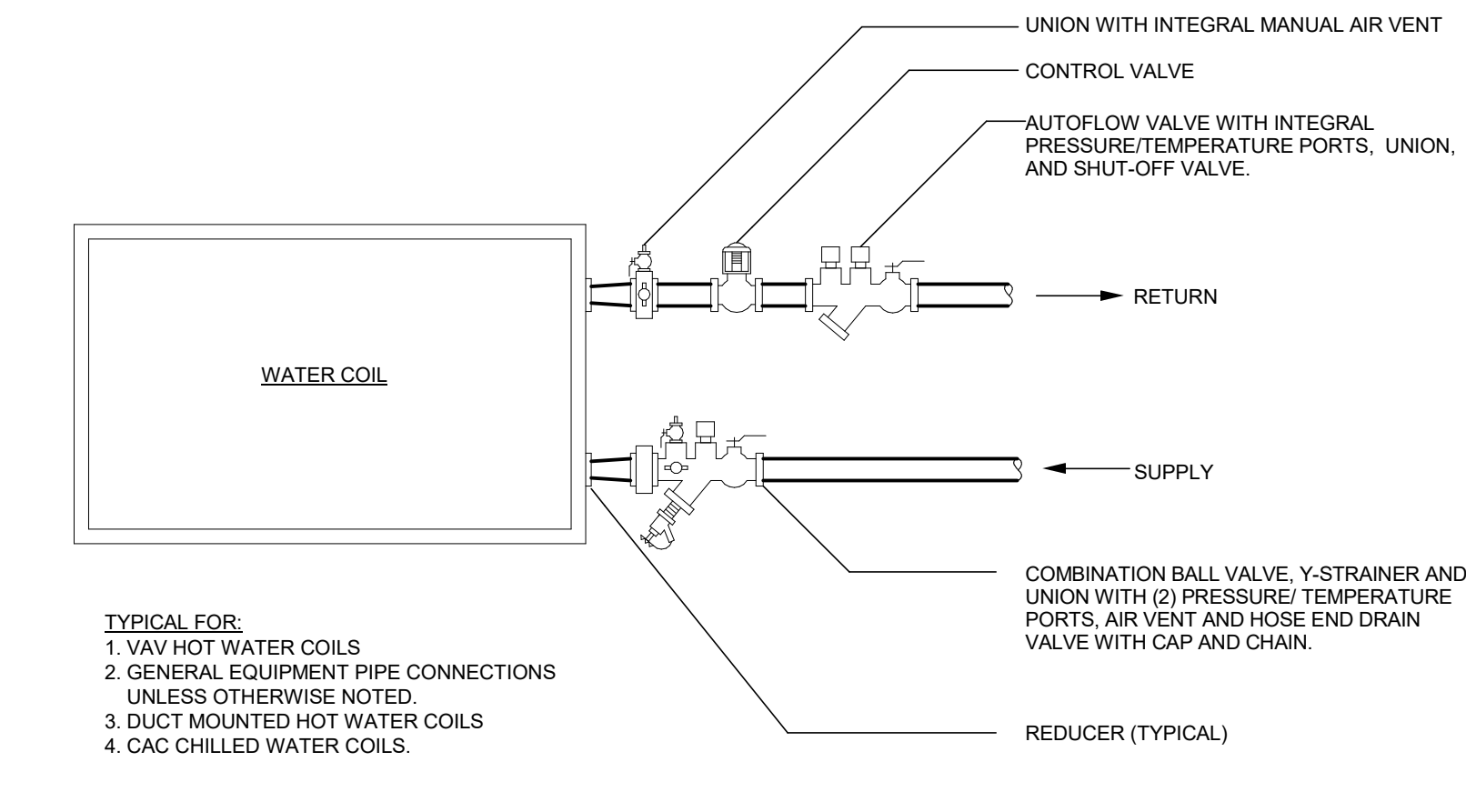




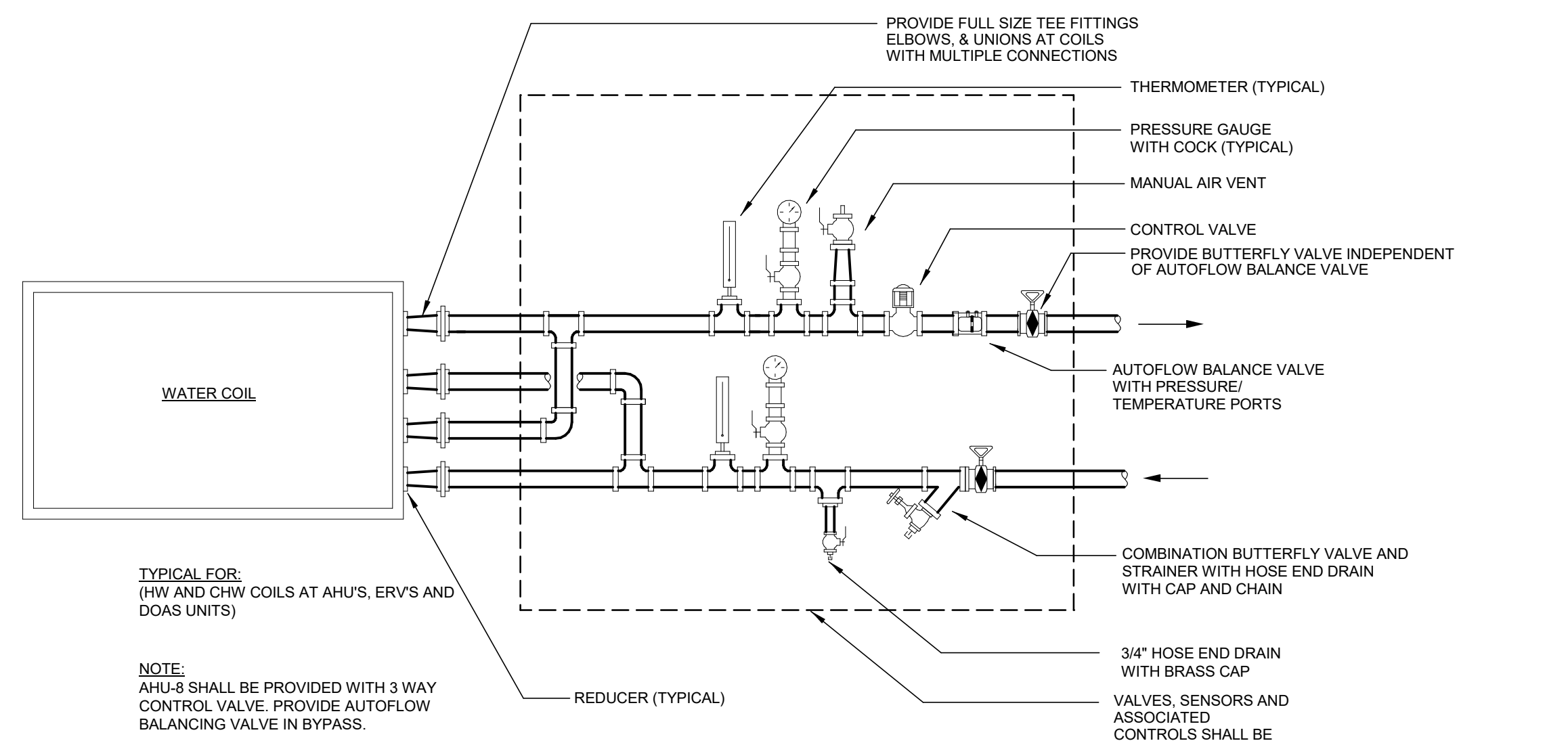
1 CHILLER PIPING DIAGRAM
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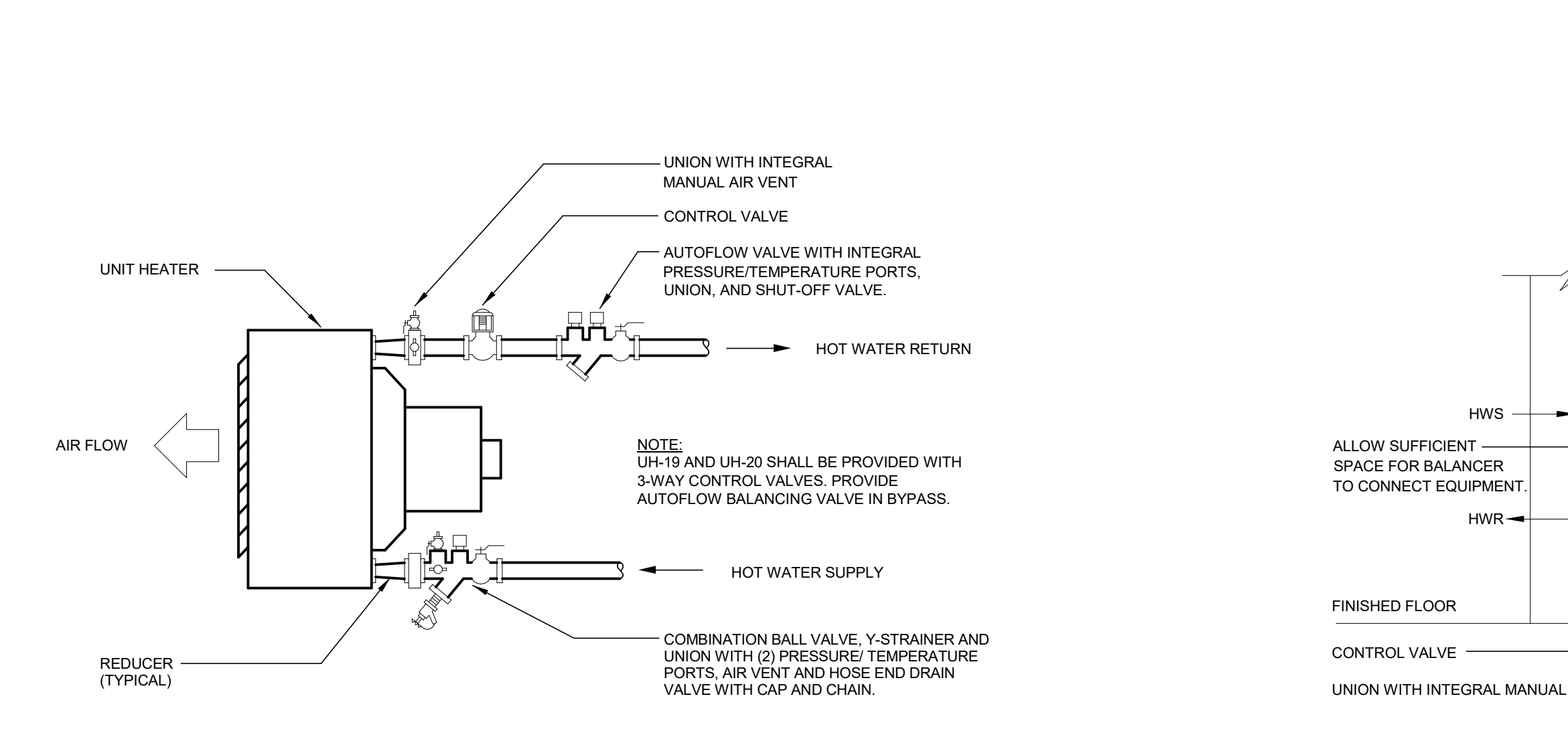
2 CHILLER PIPING DIAGRAM
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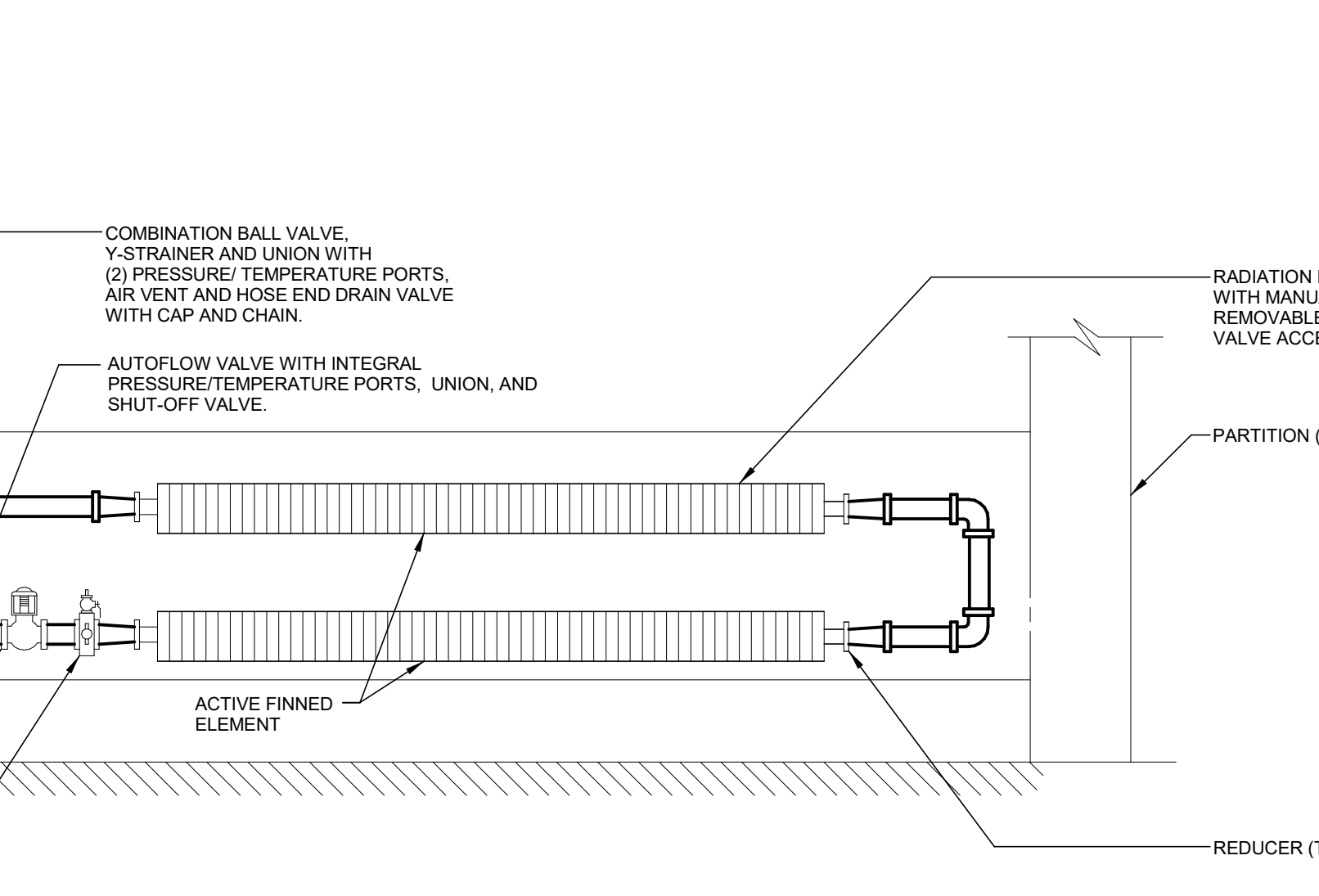
3 WATER COIL PIPING DIAGRAM
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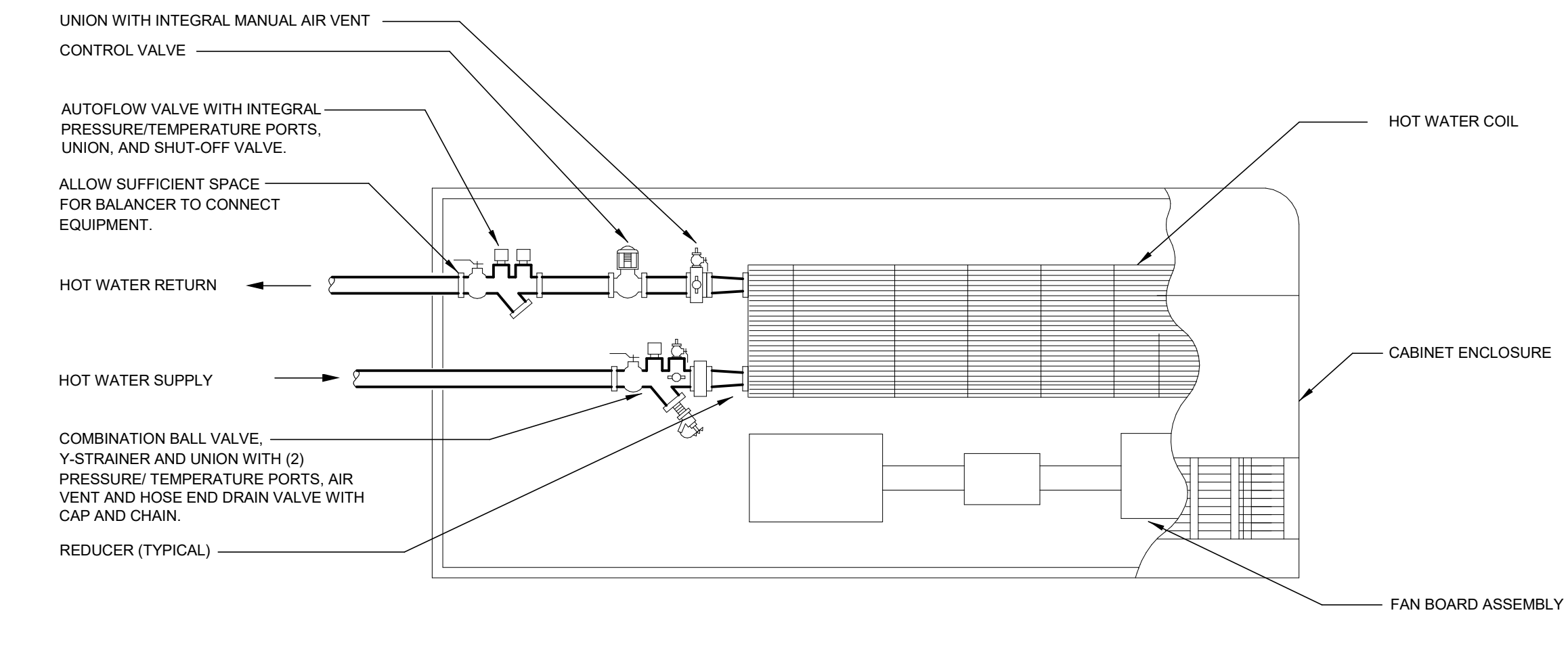
4 AHU & DOAS WATER COIL PIPING DIAGRAM
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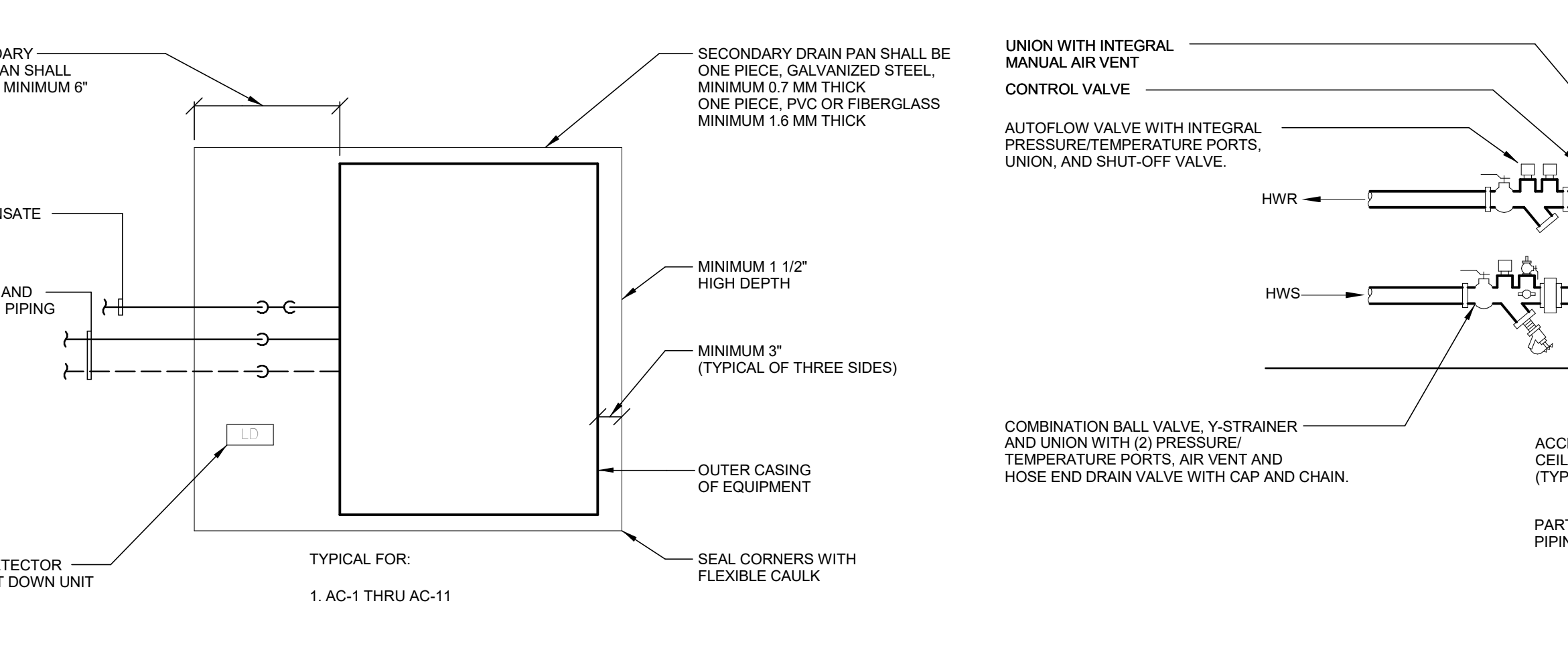
5 HOT WATER UNIT HEATER PIPING DIAGRAM
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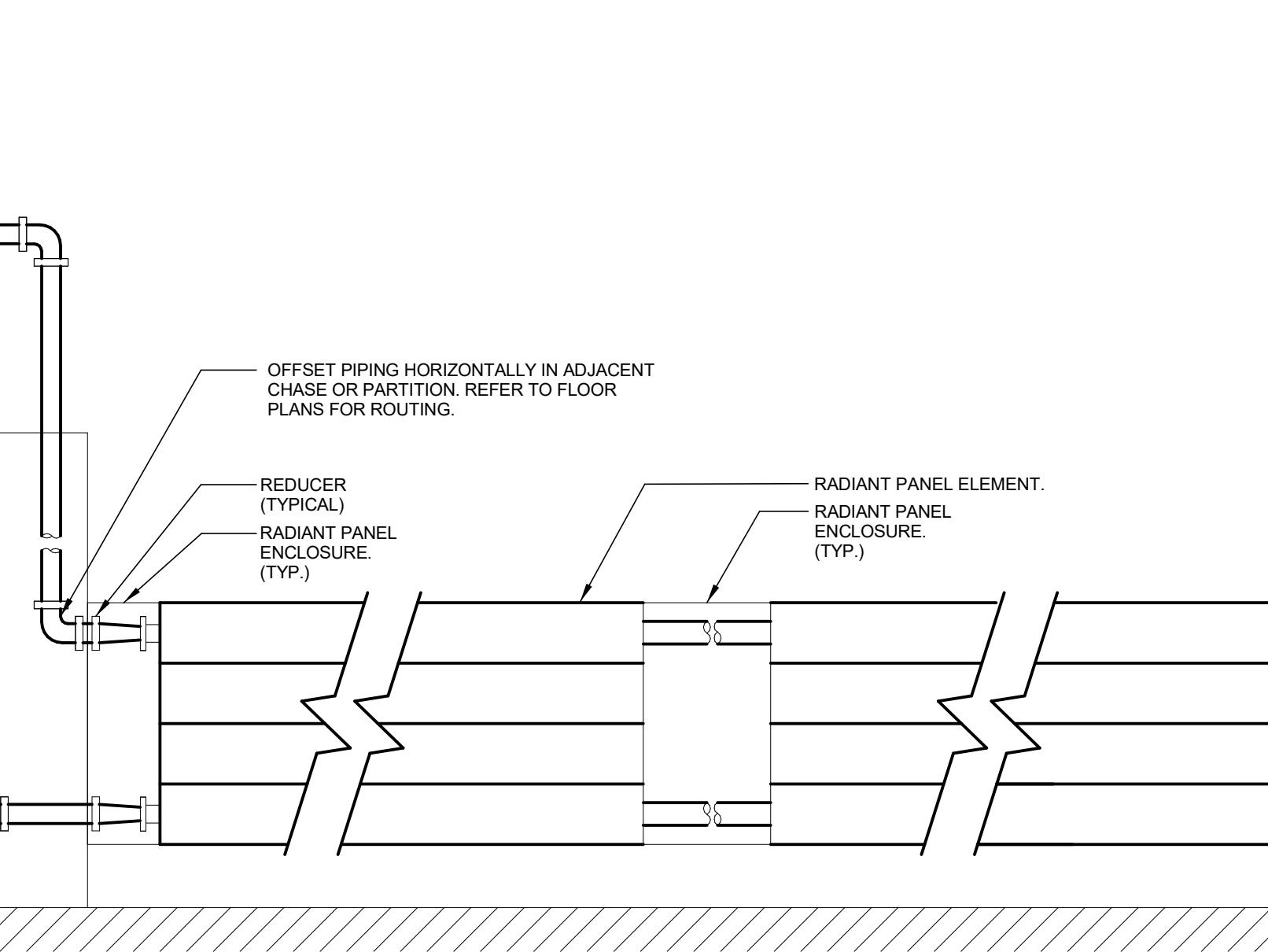
6 HOT WATER FIN TUBE RADIATION PIPING DIAGRAM
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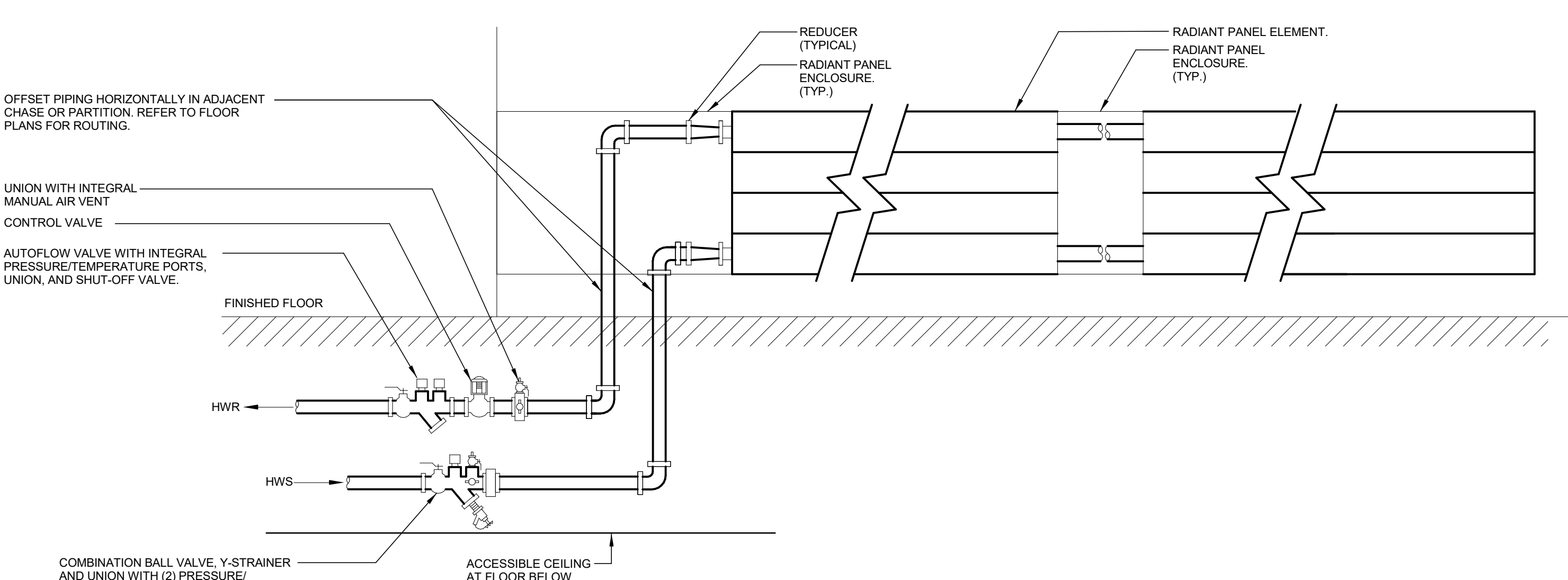
7 HOT WATER CABINET UNIT HEATER PIPING DIAGRAM
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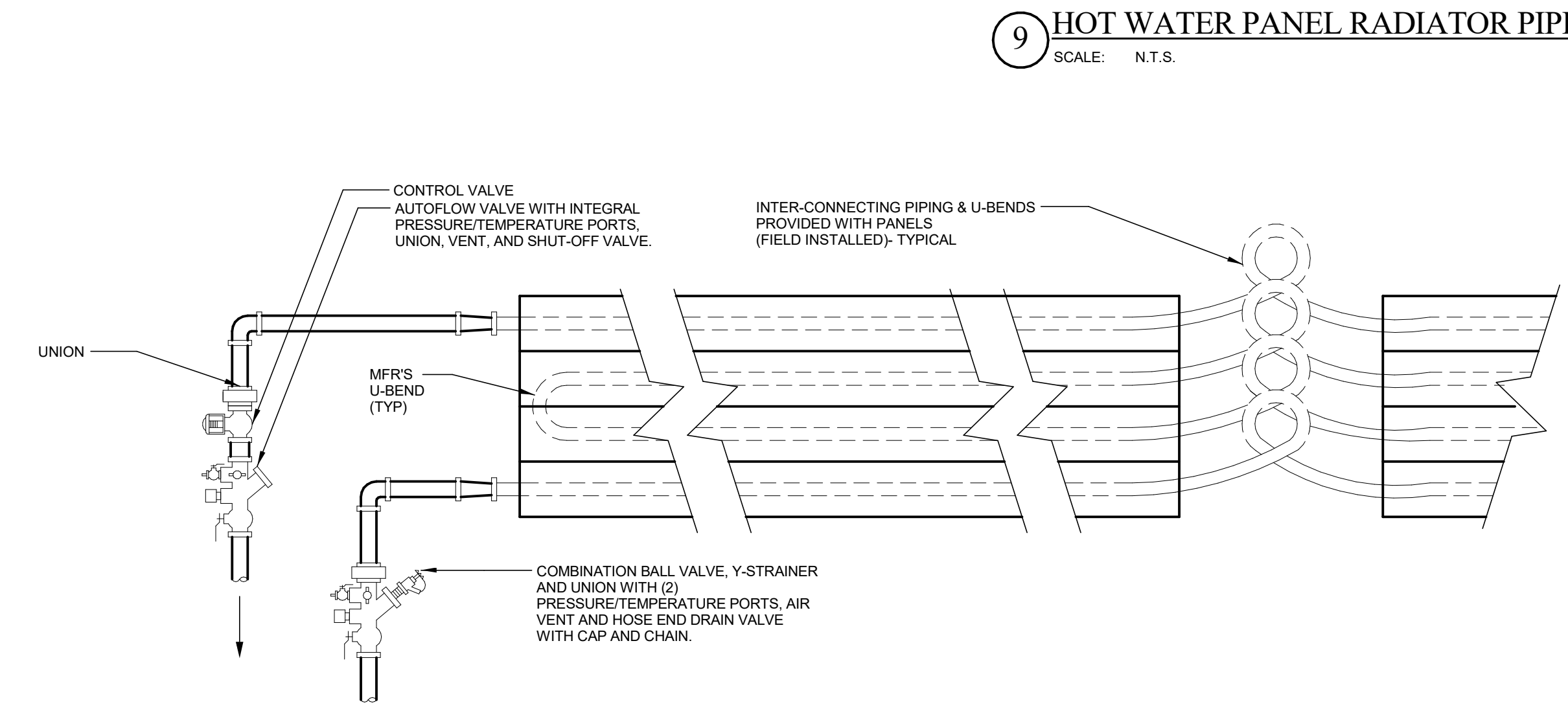
8 SECONDARY DRAIN PAN DETAIL
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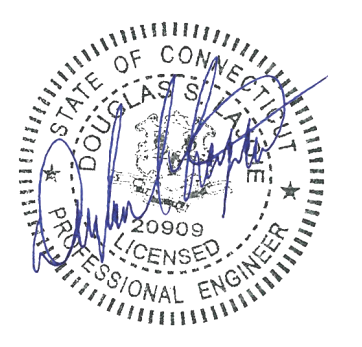
9 HOT WATER PANEL RADIATOR PIPING DIAGRAM
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10 HOT WATER PANEL RADIATOR PIPING DIAGRAM
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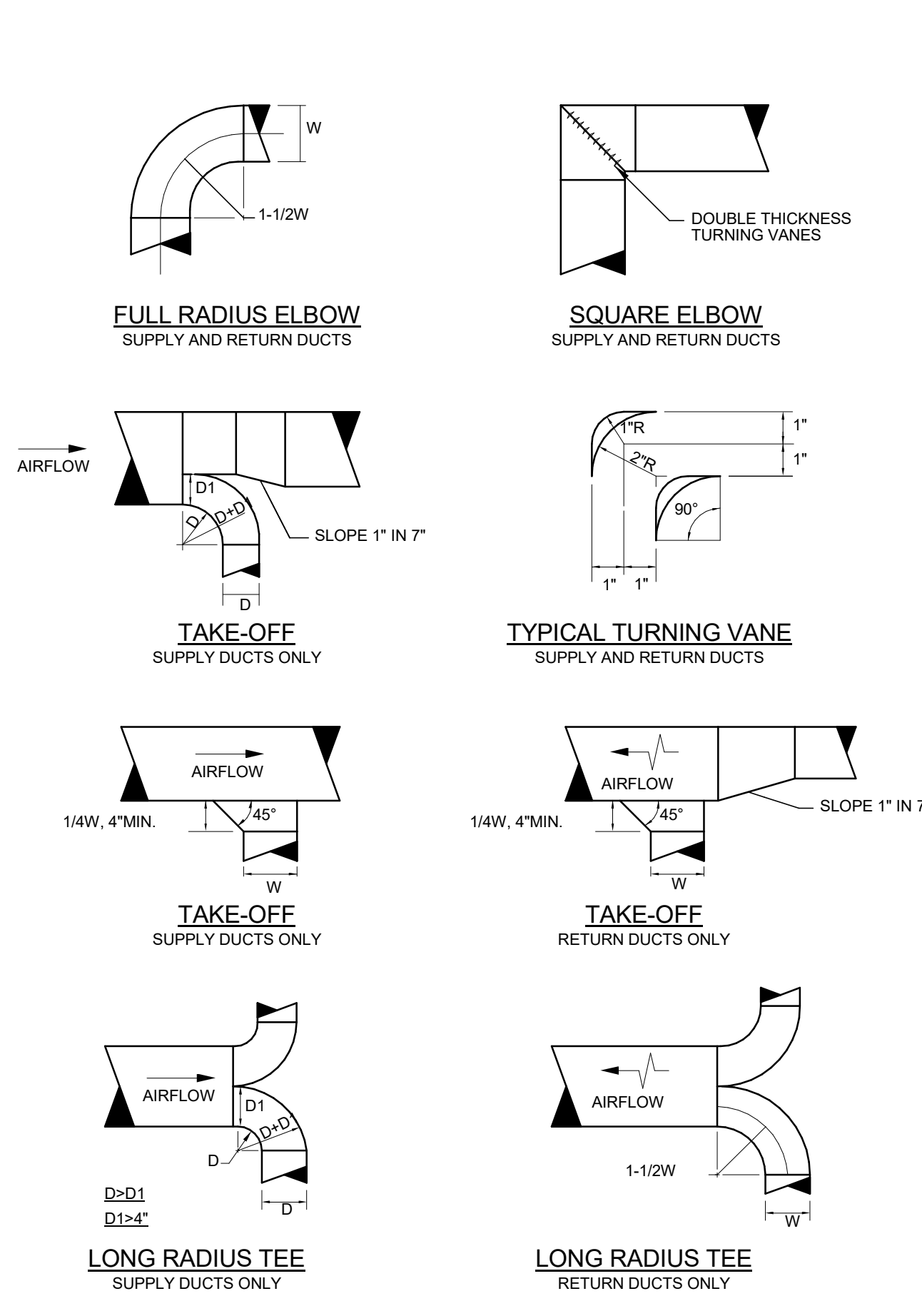


11 RADIANT CEILING PANEL PIPING DIAGRAM
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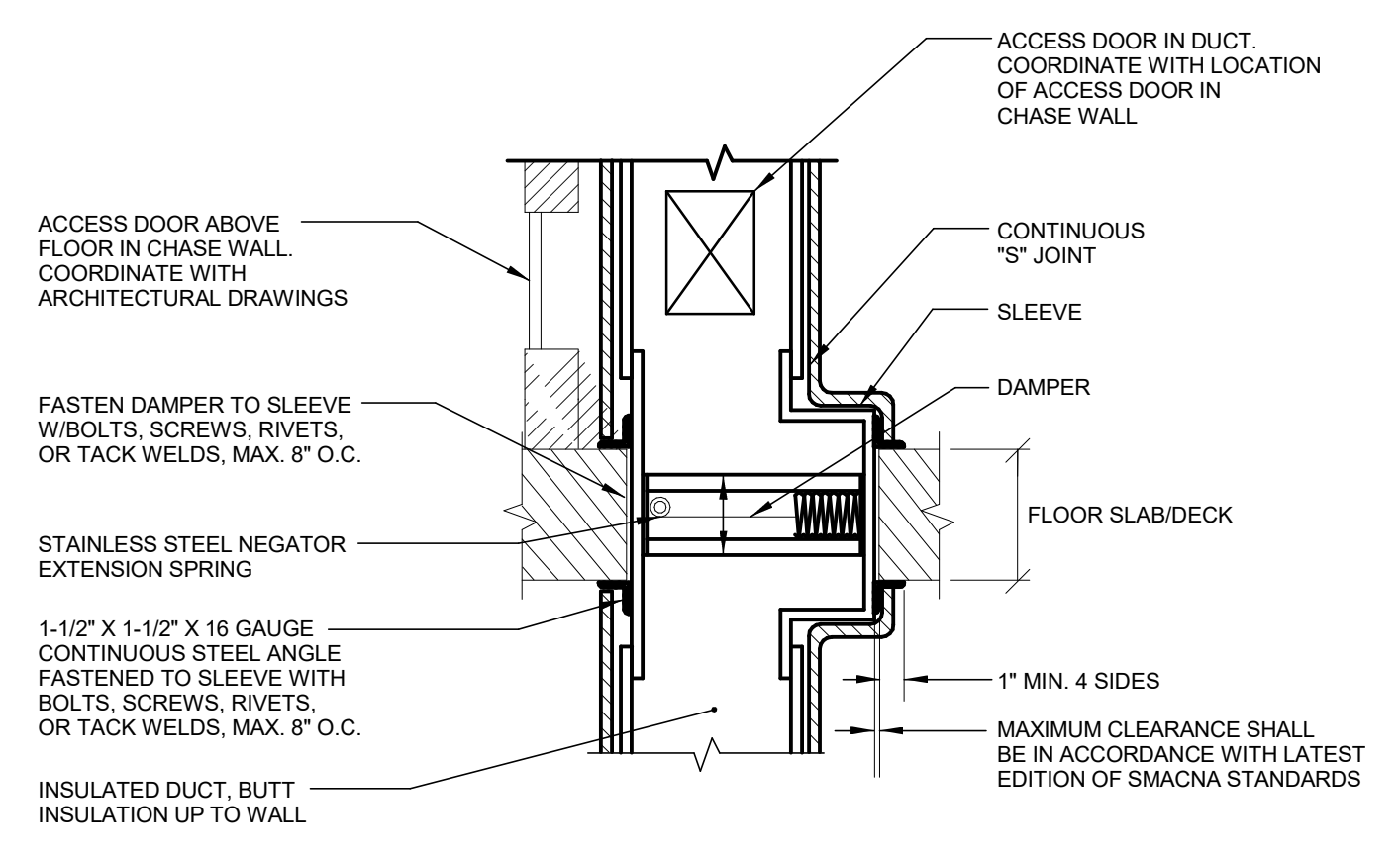


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mark	date	description	MECHANICAL DETAILS	
	11/8/2019	Addendum No. 1		

drawing title		STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	
CONSULTING ENGINEERING SERVICES, INC. 911 Middle St., Middletown, CT 06457		date 10/11/2019	
project Additions and Renovations Platt Technical High School 600 Orange Avenue Middletown, CT 06461		scale 1/8" = 1'-0"	
CAD no. DCS project no. BIRT-076 CM-R		drawing no. M4-1-3	
OSGCR project no. 990-0013		approved by [Signature]	



1 TYPICAL DUCT DETAILS
N.T.S.

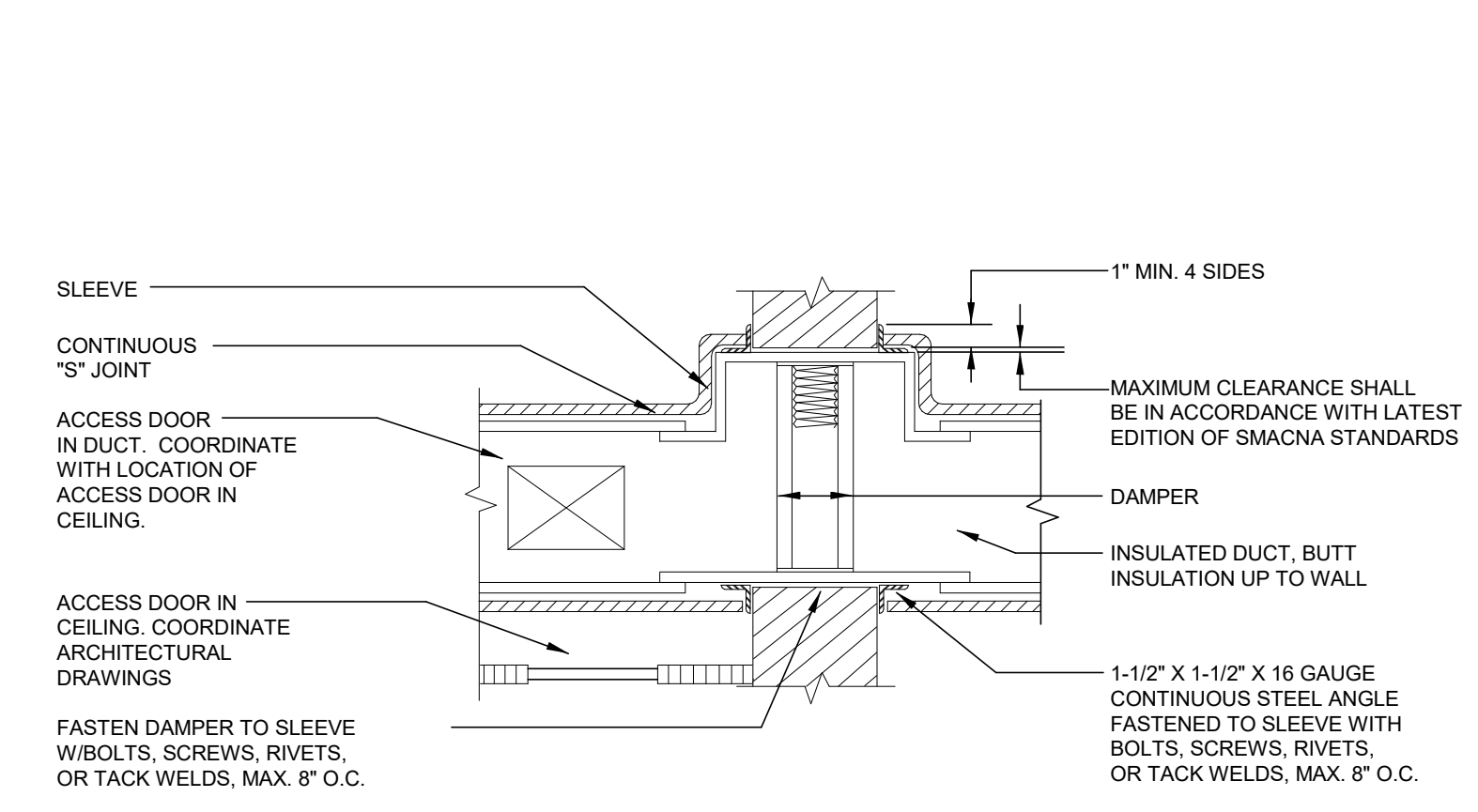


- NOTES:**
- DAMPER STYLE & SLEEVE CONFIGURATION IS GOVERNED BY MAINTAINING A MAX. .06 STATIC PRESSURE @ 2500 F.P.M. FACE VELOCITY.
 - DEPTH OF DAMPER TO BE COORDINATED WITH WALL THICKNESS.
 - INSTALLATIONS & MATERIALS PER U.L. 555.
 - DETAIL FOR DAMPER IN FIRE RATED WALL SIMILAR EXCEPT ACCESS TO BE THROUGH CEILING.

2 VERTICAL FIRE DAMPER DETAIL
N.T.S.

FIRE DAMPER NOTE

PROVIDE FIRE DAMPERS AT ALL LOCATIONS WHERE DUCTS AND OUTLETS PASS THROUGH FIRE RATED COMPONENTS, WHERE INDICATED ON CONTRACT DOCUMENTS, AND WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION. INSTALL WITH REQUIRED PERIMETER MOUNTING ANGLES, SLEEVES, BREAKAWAY DUCT CONNECTIONS, CORROSION RESISTANT SPRINGS, BEARINGS, BUSHINGS AND HINGES.

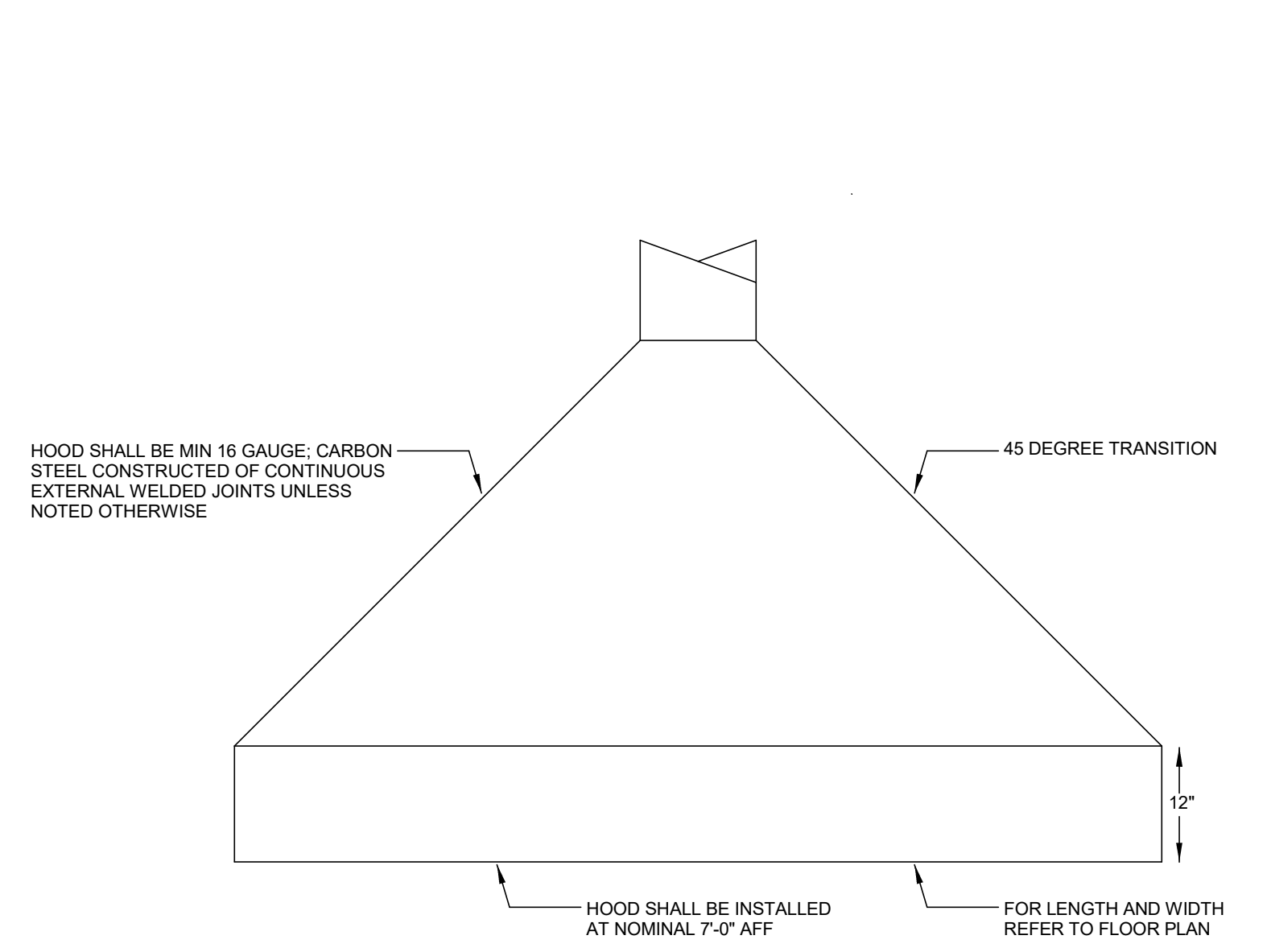


- NOTES:**
- DAMPER STYLE & SLEEVE CONFIGURATION IS GOVERNED BY MAINTAINING A MAX. .06 STATIC PRESSURE @ 2500 F.P.M. FACE VELOCITY.
 - DEPTH OF DAMPER TO BE COORDINATED WITH WALL THICKNESS.
 - INSTALLATIONS & MATERIALS PER U.L. 555.

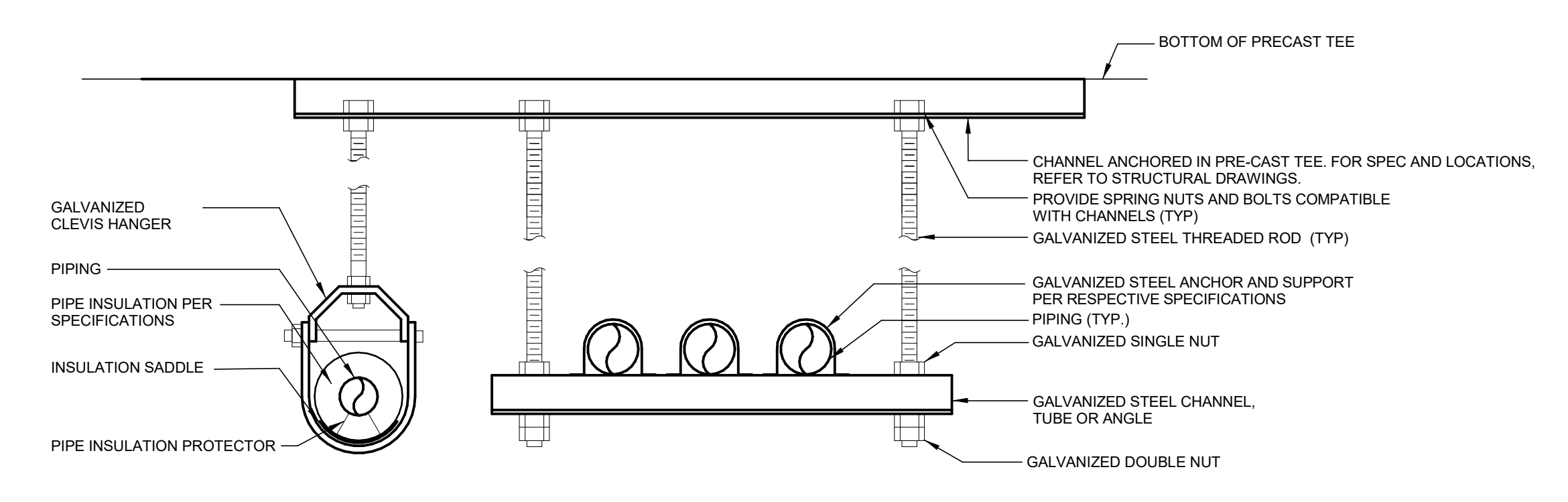
3 HORIZONTAL FIRE DAMPER DETAIL
N.T.S.

FIRE DAMPER NOTE

PROVIDE FIRE DAMPERS AT ALL LOCATIONS WHERE DUCTS AND OUTLETS PASS THROUGH FIRE RATED COMPONENTS, WHERE INDICATED ON CONTRACT DOCUMENTS, AND WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION. INSTALL WITH REQUIRED PERIMETER MOUNTING ANGLES, SLEEVES, BREAKAWAY DUCT CONNECTIONS, CORROSION RESISTANT SPRINGS, BEARINGS, BUSHINGS AND HINGES.

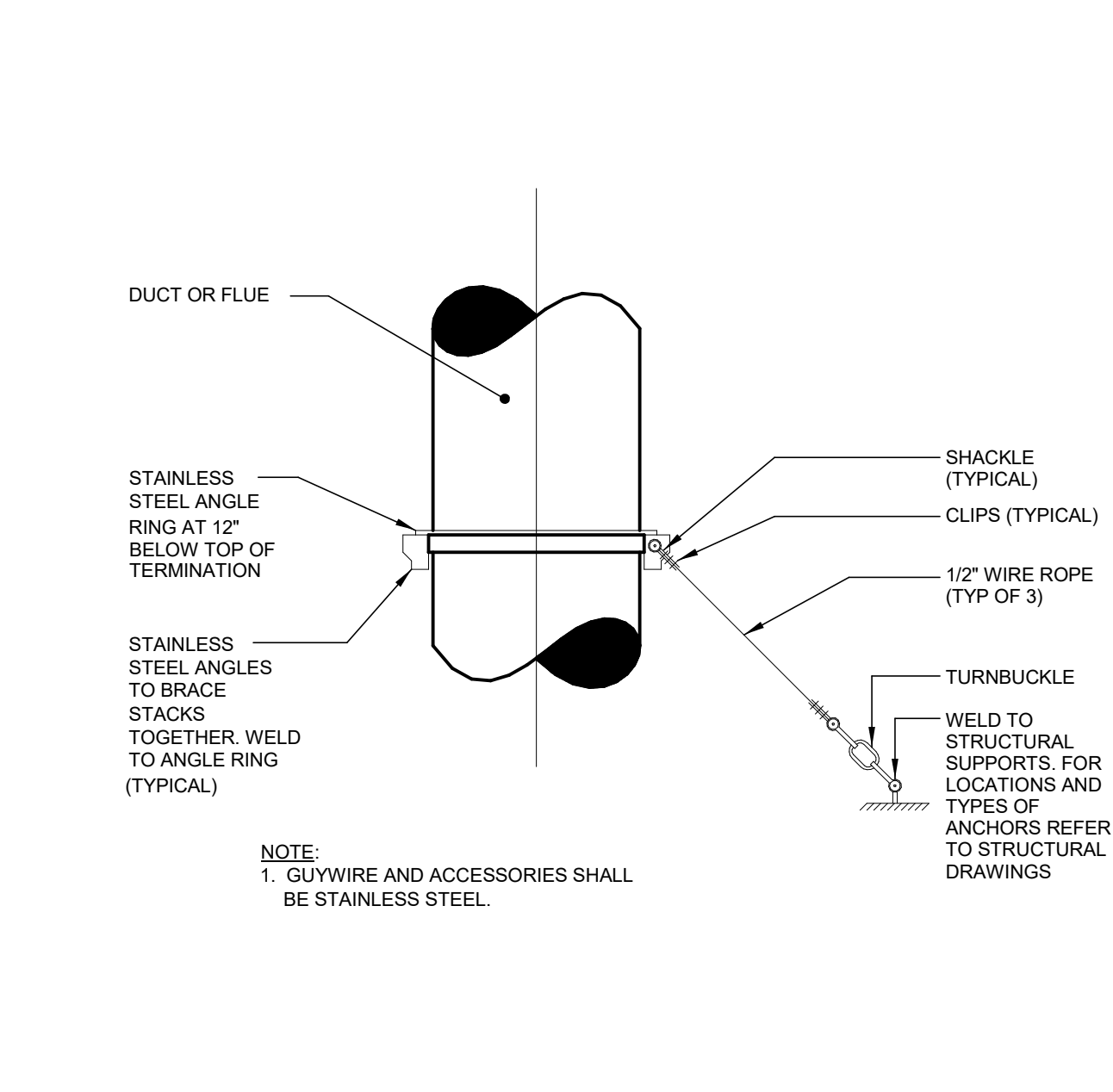


4 HOOD DETAIL
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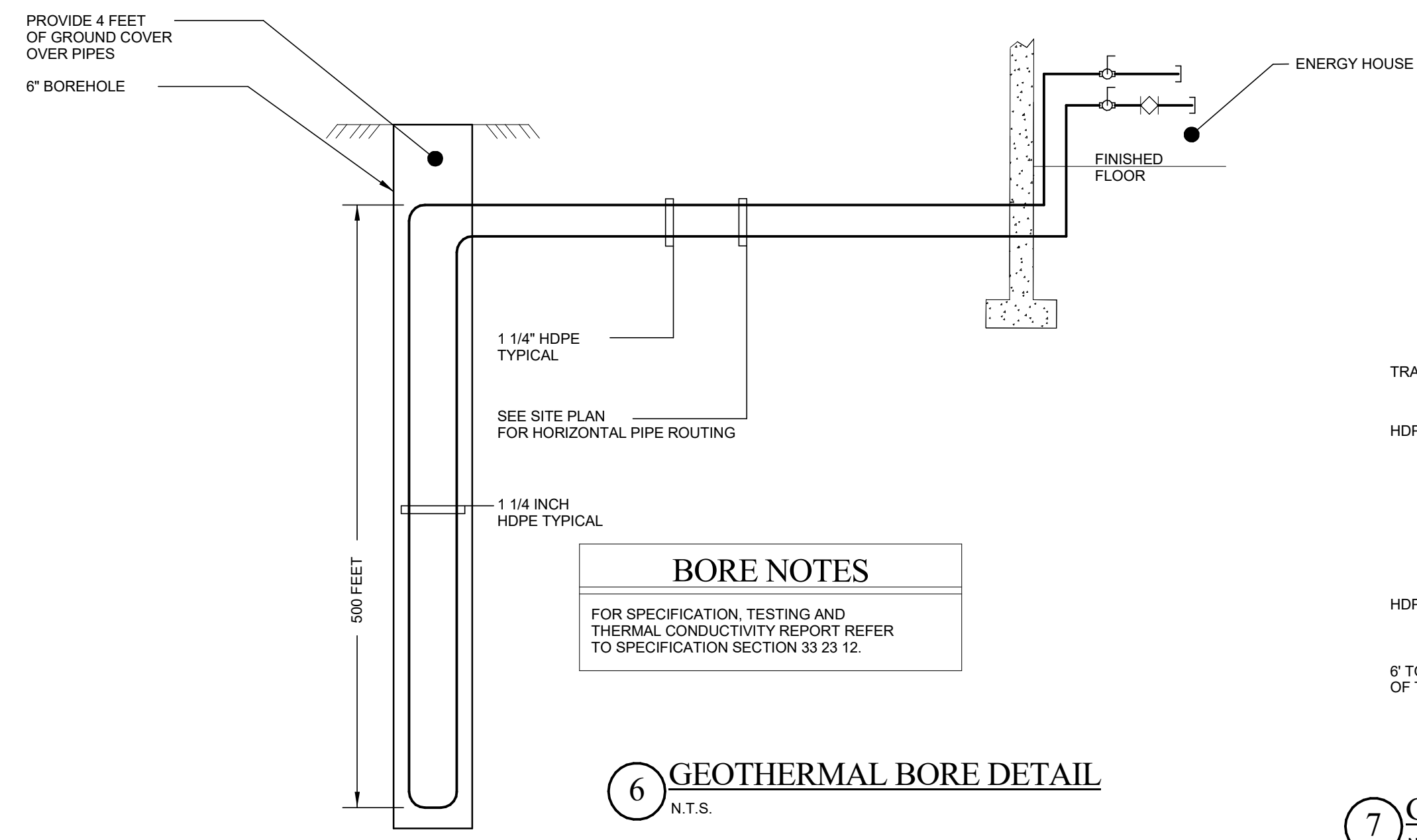


- NOTES:**
- REFER TO STRUCTURAL DRAWINGS FOR LOCATIONS OF CHANNELS INSTALLED IN PRE-CAST CONCRETE, AT OTHER LOCATIONS, HANGERS SHALL BE DIRECTLY ANCHORED TO PRE-CAST CONCRETE. REFER TO DETAILS ON THE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - PROVIDE ALL REQUIRED HARDWARE INCLUDING BUT NOT LIMITED TO WASHERS, BOLTS, BEAM CLAMPS, STRAPS, AND CHANNEL SPRING NUTS.
 - SUPPORT DETAIL APPLIES TO DUCTWORK AND PIPING.
 - WHERE CHANNELS ARE INSTALLED IN PRE-CAST, DUCTWORK AND PIPING INSTALLED IN SPACE BETWEEN PRE-CAST TEES SHALL BE BOTTOM SUPPORTED FROM CHANNELS ANCHORED IN BOTTOM OR PRE-CAST TEES.

8 HANGER SUPPORT DETAIL AT PRE-CAST CONCRETE CONSTRUCTION
N.T.S.



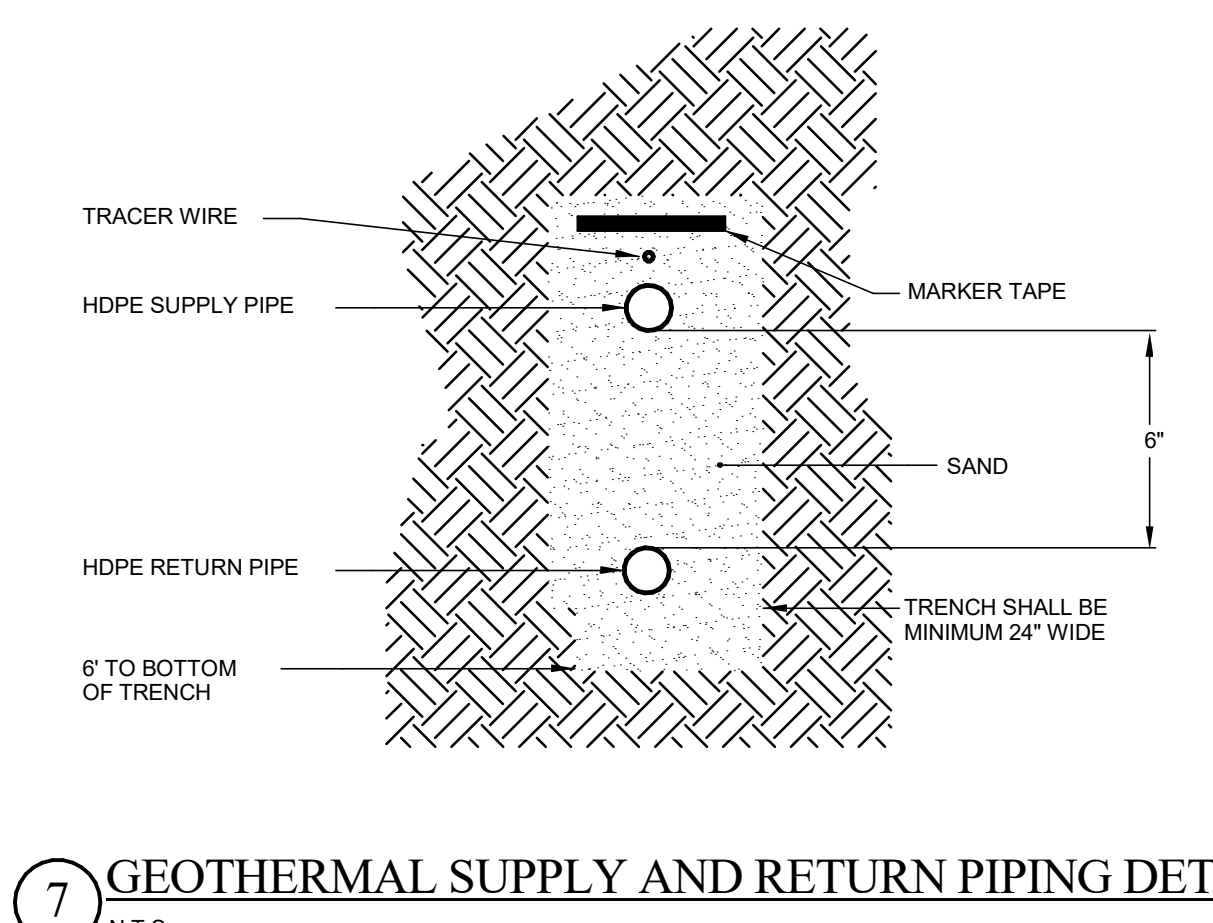
5 TYPICAL STACK GUY DETAIL
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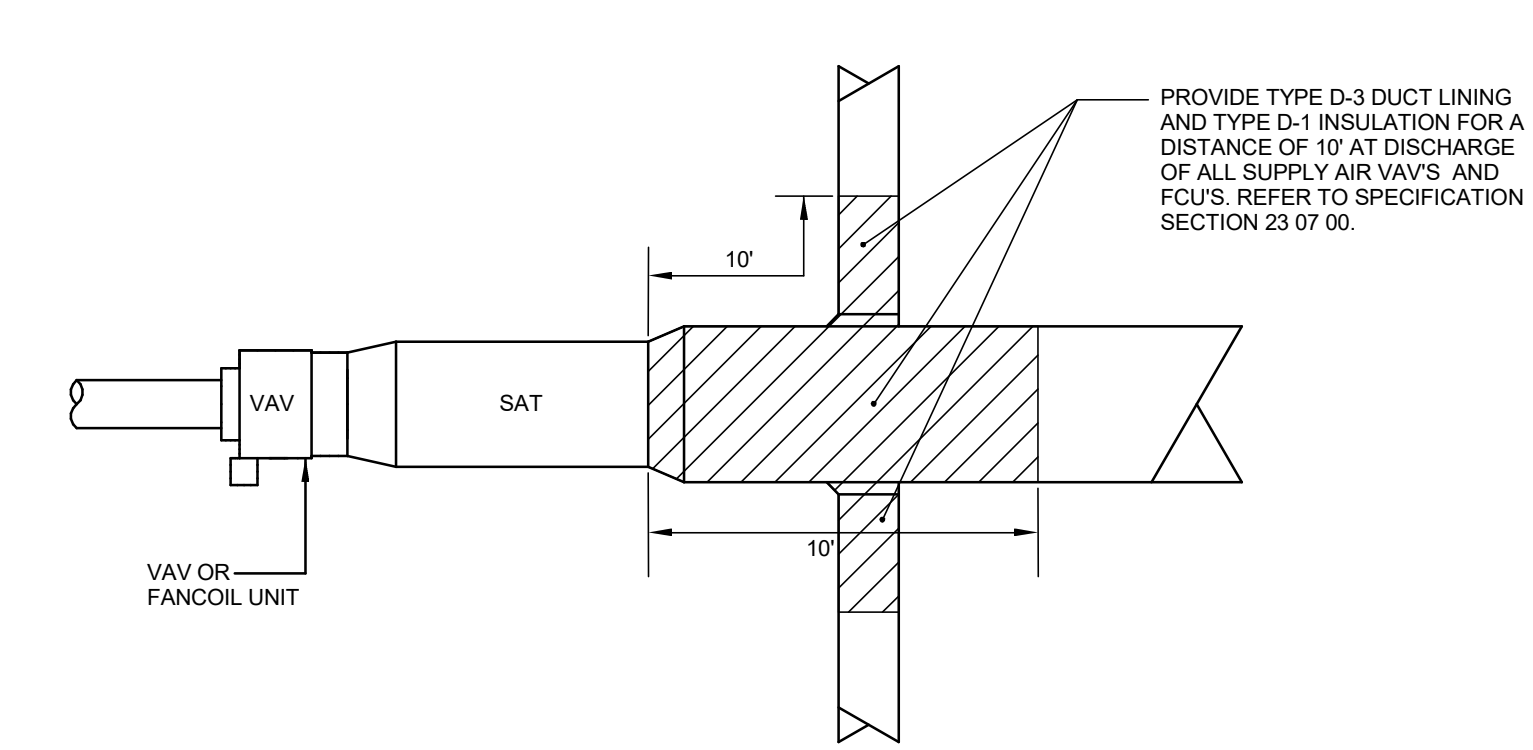
BORE NOTES

FOR SPECIFICATION, TESTING AND THERMAL CONDUCTIVITY REPORT REFER TO SPECIFICATION SECTION 33 23 12.

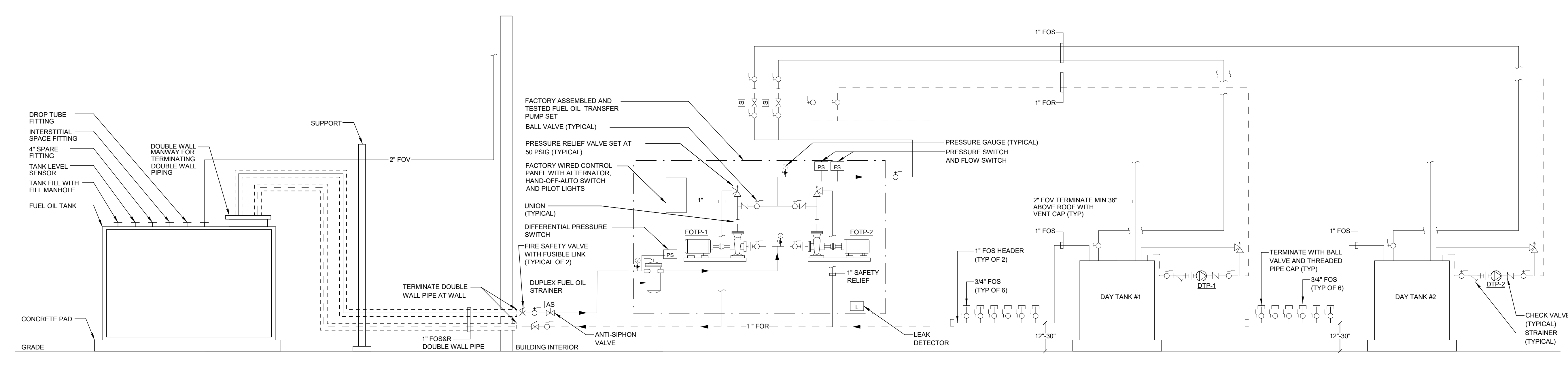
6 GEOTHERMAL BORE DETAIL
N.T.S.



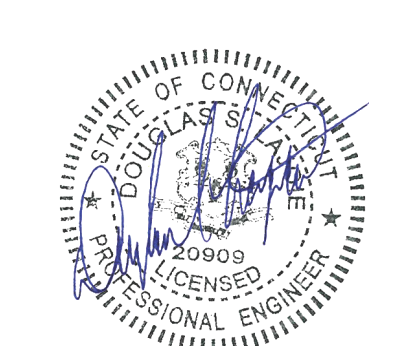
7 GEOTHERMAL SUPPLY AND RETURN PIPING DETAIL
N.T.S.



9 DUCT LINING DETAIL
N.T.S.

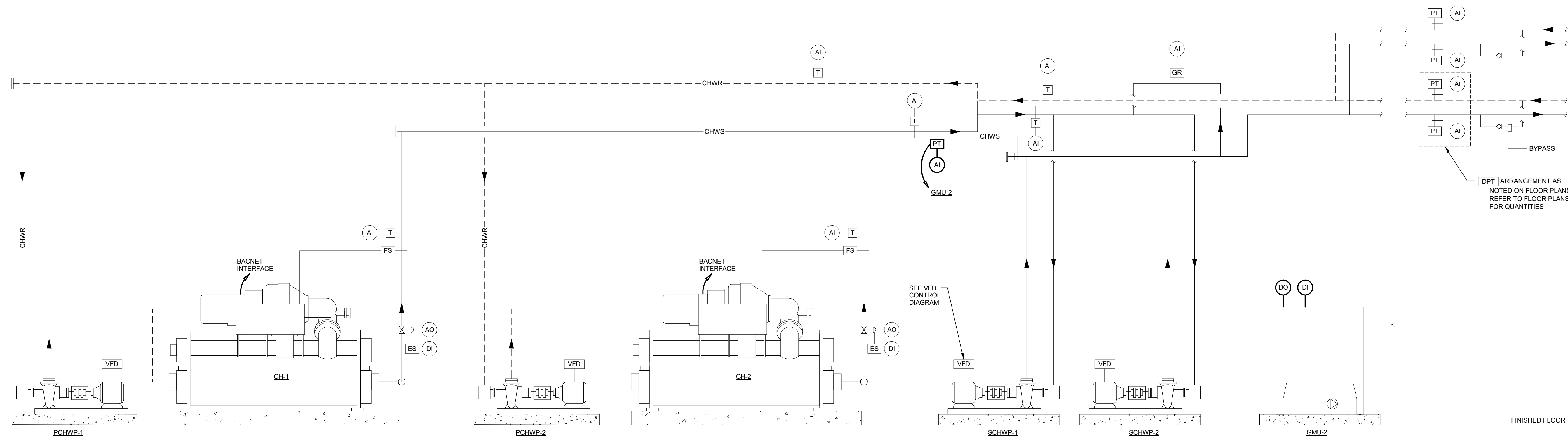


10 FUEL OIL PIPING DIAGRAM
N.T.S.

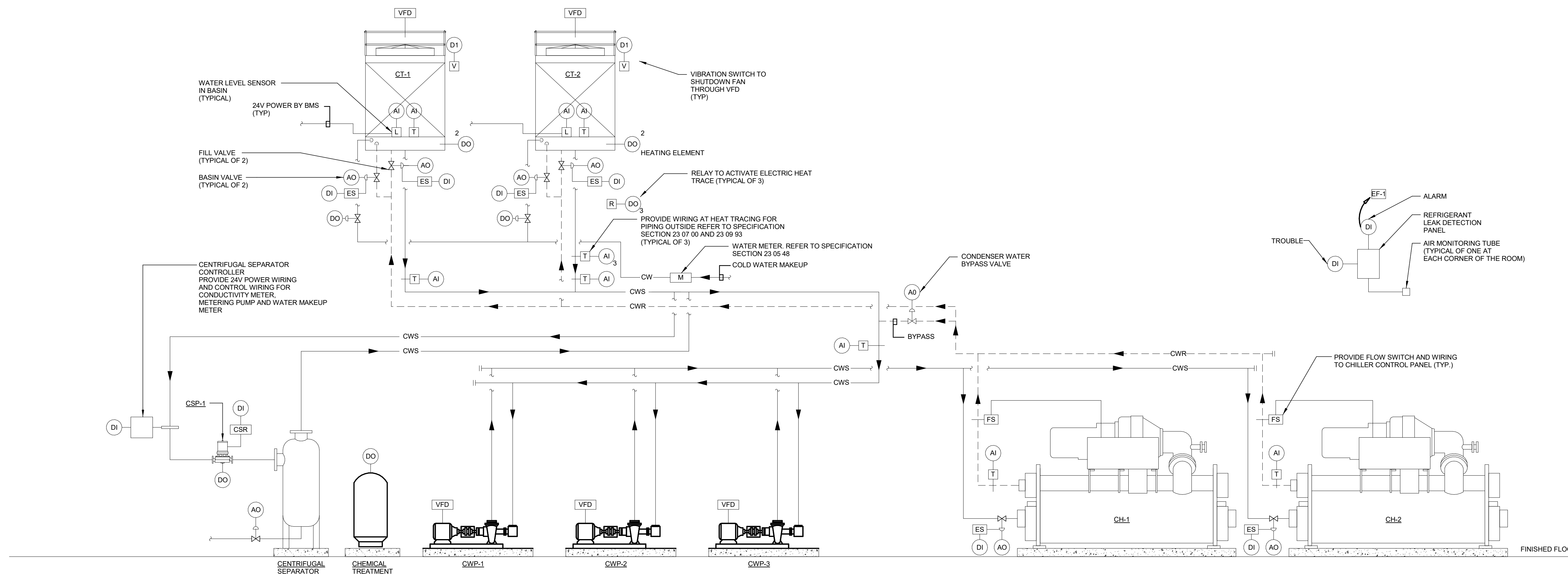


REVISIONS			drawing title	drawing no.
mark	date	description		
	11/8/2019	Addendum No. 1	MECHANICAL DETAILS	M4-1-4

drawing title		STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	
drawing no.		M4-1-4	
drawing prepared by		Consulting Engineering Services, Inc. 811 Middle St., Middletown, CT 06457	
date		10/11/2019	
scale		1/8" = 1'-0"	
drawn by		BEX	
approved by		BEX	
project		Additions and Renovations Platt Technical High School 600 Orange Avenue, Middletown, CT 06461	
CAD no.		DCS project no. 19-RT-076 CM-R	
		OSGCR project no. 990-0013	



1 CHILLED WATER PLANT CONTROL DIAGRAM
N.T.S.



2 CONDENSER WATER PLANT CONTROL DIAGRAM
N.T.S.

TEMPERATURE CONTROL SYMBOLS

SYMBOLS	DESCRIPTION
1	ANALOG INPUT (SUBSCRIPT INDICATES QUANTITY - TYPICAL)
2	ANALOG INPUT
AO	ANALOG OUTPUT
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
A	AQUASTAT
AFMS	AIR FLOW MONITORING STATION
AFS	AIR FLOW SWITCH
AV	AUDIO / VISUAL ALARM
BMS	BUILDING MANAGEMENT SYSTEM
CO	CARBON MONOXIDE SENSOR
CO2	CARBON DIOXIDE SENSOR
CSR	CURRENT SENSING RELAY
CV	CONSTANT VOLUME
DP	DIFFERENTIAL PRESSURE GAUGE WITH CONTACT SWITCH
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
E	ENTHALPY SENSOR
EC	EQUIPMENT CONTACT
ES	END SWITCH
F	FREEZESTAT
FM	FLOW METER
FS	FLOW SWITCH
GR	GLYCOL REFRACTOMETER
H	HUMIDITY SENSOR
LD	LEAK DETECTOR
MD	MOTORIZED DAMPER
ME	METHANE DETECTOR
NO2	NITROGEN DIOXIDE SENSOR
OC	OCCUPANCY SENSOR
OV	OVERIDE PUSHBUTTON SWITCH
PP	POWER PACK
PT	PRESSURE TRANSMITTER
S	TOGGLE SWITCH
S _P	SWITCH WITH PILOT LIGHT
S _T	SWITCH 0-60 MINUTE TWIST TIMER
SD	SMOKE DAMPER
SP	STATIC PRESSURE SENSOR
S	SMOKE DETECTOR
T	THERMOSTAT
T _L	LOCAL THERMOSTAT (24 VOLT)
T _A	TEMPERATURE SENSOR
T _A	AVERAGING TEMPERATURE SENSOR
T _M	TEMPERATURE SENSOR (MONITORING ONLY)
VFD	VARIABLE FREQUENCY DRIVE
⊠	STARTER/DISCONNECT
⊞	PETCOCK ISOLATION VALVE
⊞	MAGNETIC PRESSURE GAUGE WITH ISOLATION VALVE
⊞	2 WAY VALVE
⊞	3 WAY VALVE

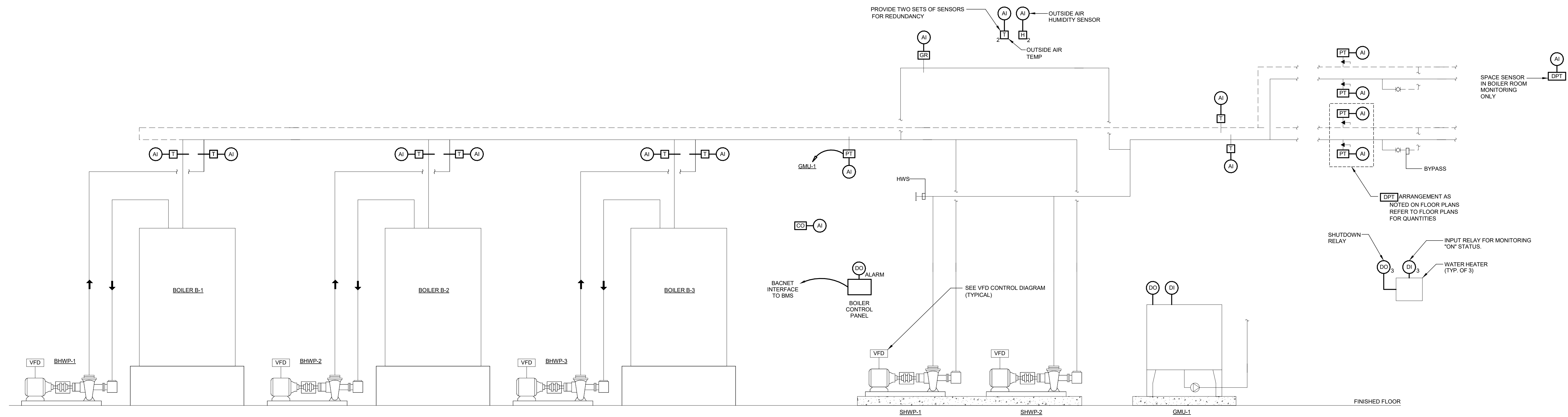
MISCELLANEOUS BMS CONTROL NOTES

1. PROVIDE TEMPORARY CONTROLS TO MAINTAIN HVAC CONTROLS DURING PHASING. REFER TO PHASING DRAWINGS.
2. CONTROL OF ALL TEMPERATURE CONTROL DEVICES SHALL BE COMMISSIONED PER SPECIFICATIONS.
3. REFER TO FLOOR PLANS AND DETAILS FOR MISCELLANEOUS BMS SCOPE OF WORK.
4. 120V, 3-PHASE POWER TO ALL CONTROLS SHALL BE FED FROM DEDICATED CIRCUITS FROM ELECTRICAL PANELS TO BMS PANELS. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF SOURCES OF 120 V POWER.
5. FOR QUANTITY OF SPACE TEMPERATURE SENSORS, DIFFERENTIAL PRESSURE SENSORS, SWITCHES AND OTHER DEVICES, REFER TO FLOOR PLAN DRAWINGS.
6. PROVIDE LABEL AT EACH SWITCH INDICATING FAN IT SERVES.

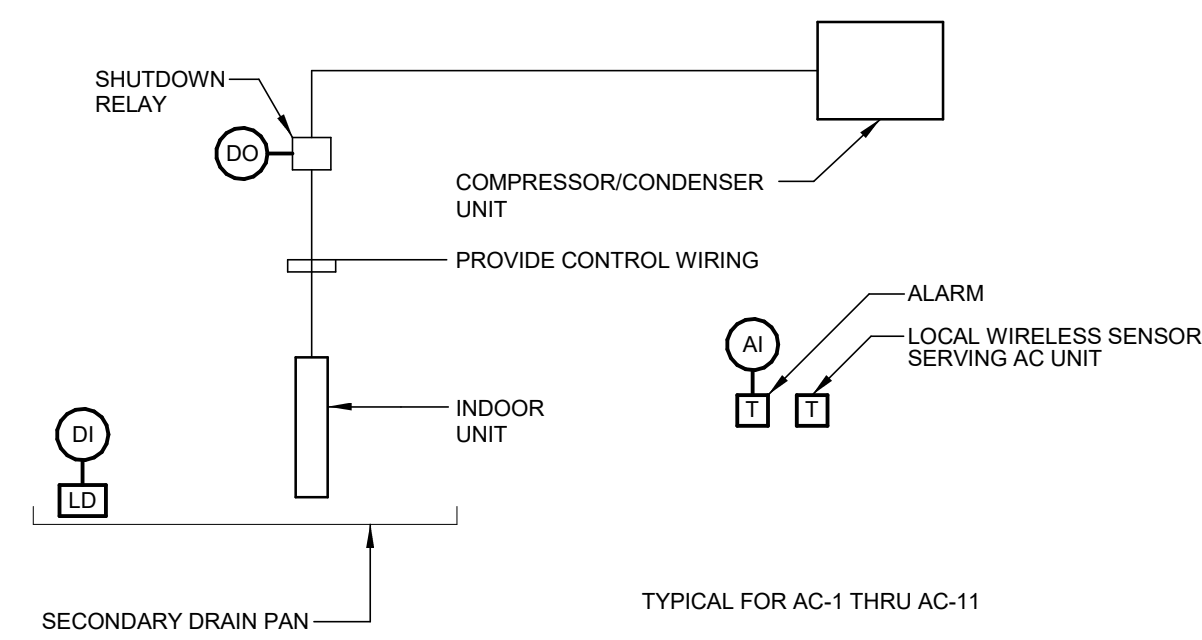


BID DOCUMENTS

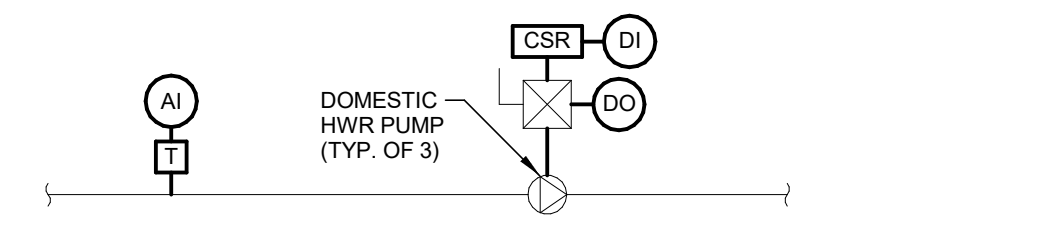
drawing title MECHANICAL CONTROLS		STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	
REVISIONS		drawing prepared by Consulting Engineering Services, Inc. 811 Middle St., Middletown, CT 06457	date 10/11/2019
mark	date	description	scale 1/8" = 1'-0"
	11/8/2019	Addendum No. 1	drawn by BEX
project Additions and Renovations Platt Technical High School 600 Orange Avenue Middletown, CT 06461		approved by BEX	approved by BEX
CAD no.	DCS project no. B1-RT-472 CM-R	OSCRG project no. 990-0113	M5-1-1



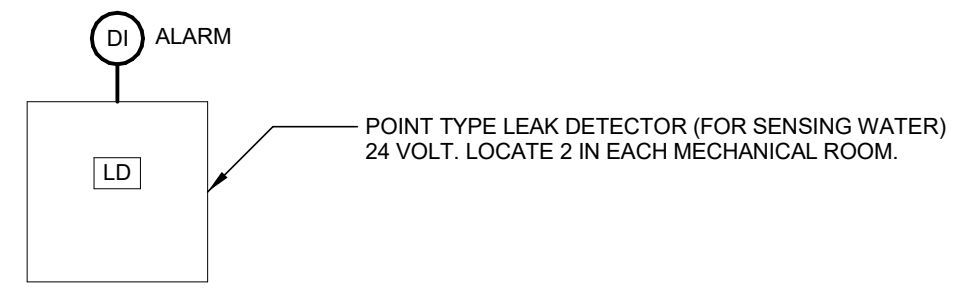
1 HOT WATER CONTROL DIAGRAM
N.T.S.



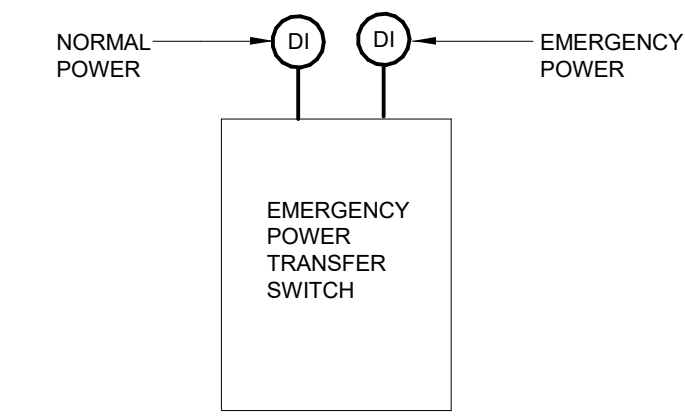
2 DUCTLESS SPLIT - CONTROL DIAGRAM
N.T.S.



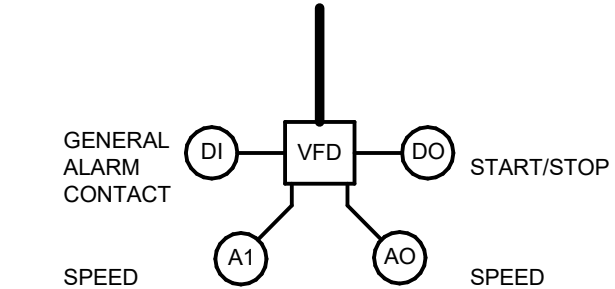
3 DOMESTIC HW PUMPS CONTROL DIAGRAM
N.T.S.



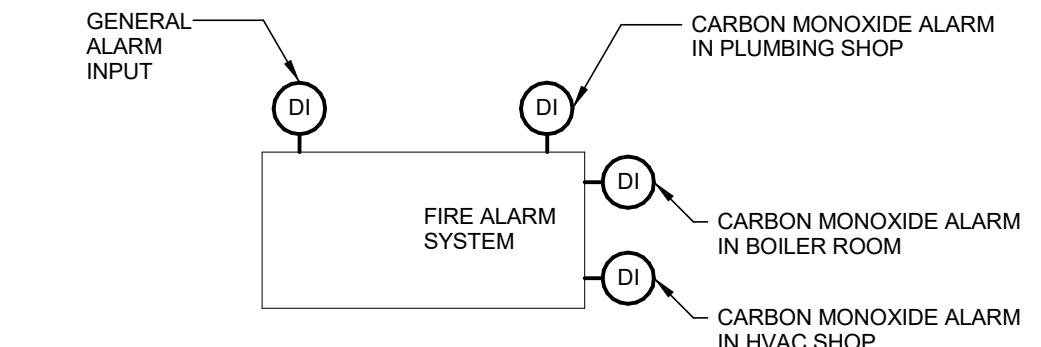
4 LEAK DETECTOR CONTROL DIAGRAM
N.T.S.



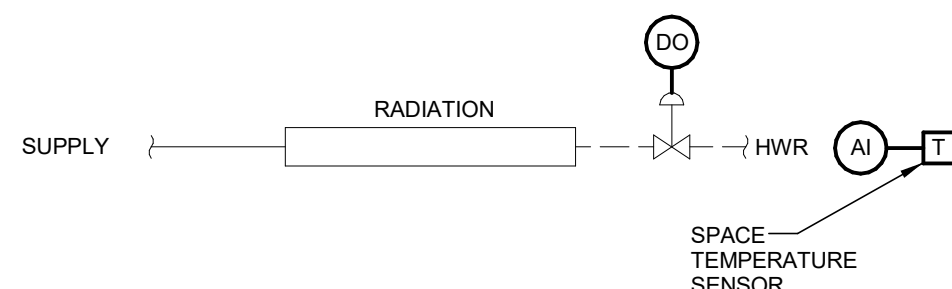
5 EMERGENCY GENERATOR CONTROL DIAGRAM
N.T.S.



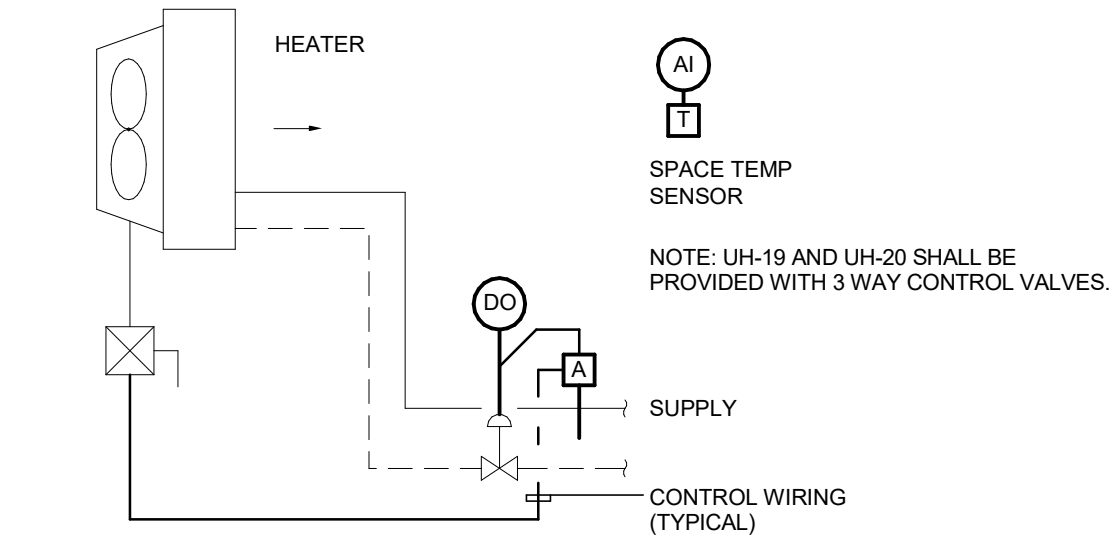
6 VFD CONTROL DIAGRAM
N.T.S.



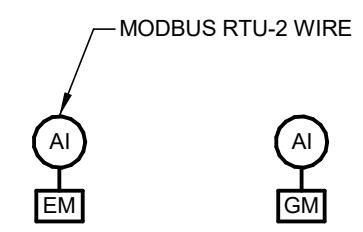
7 FIRE ALARM CONTROL DIAGRAM
N.T.S.



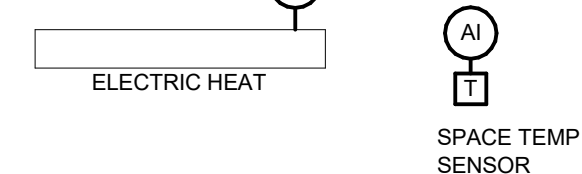
8 RADIATION CONTROL DIAGRAM
N.T.S.



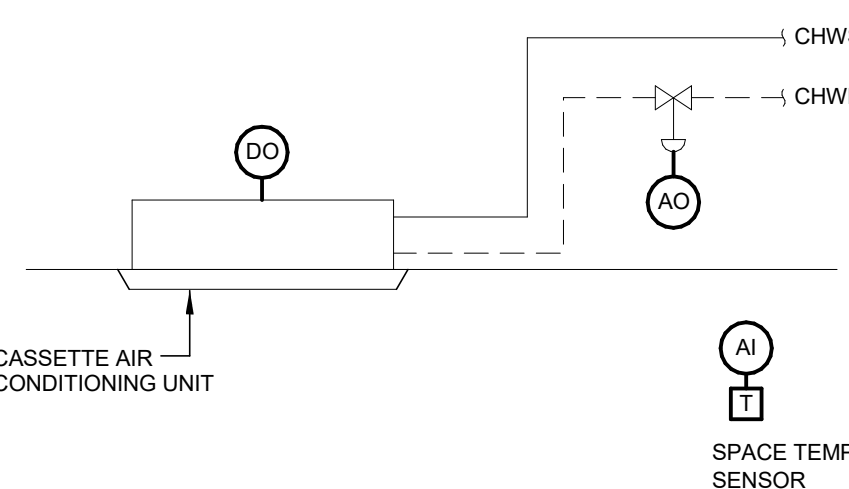
9 CABINET UNIT HEATER AND UNIT HEATER CONTROL DIAGRAM
N.T.S.



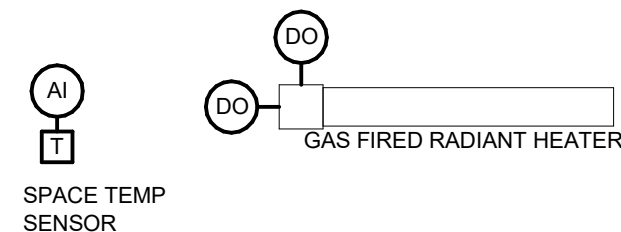
10 UTILITY METERING CONTROL DIAGRAM
N.T.S.



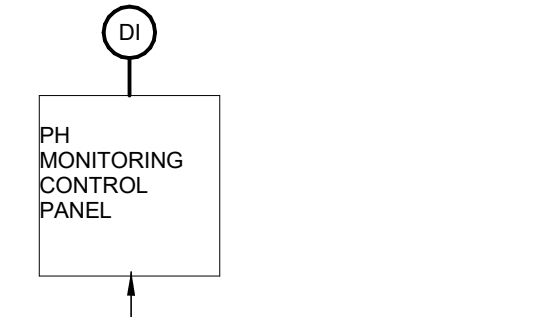
11 ELECTRIC HEAT RADIATION CONTROL DIAGRAM
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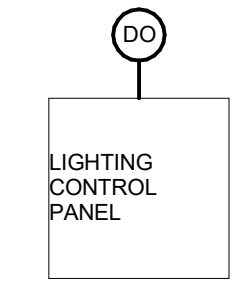
12 CASSETTE AIR CONDITIONING UNIT CONTROL DIAGRAM
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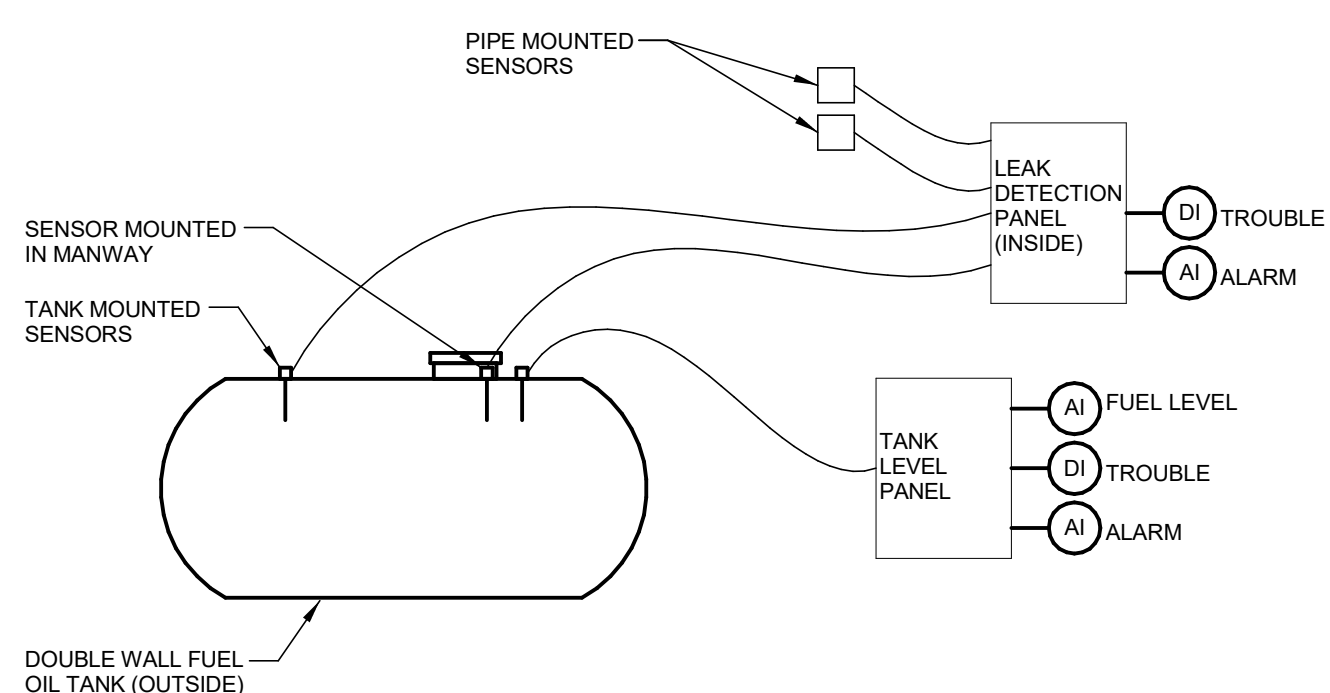
13 RADIANT HEATER CONTROL DIAGRAM
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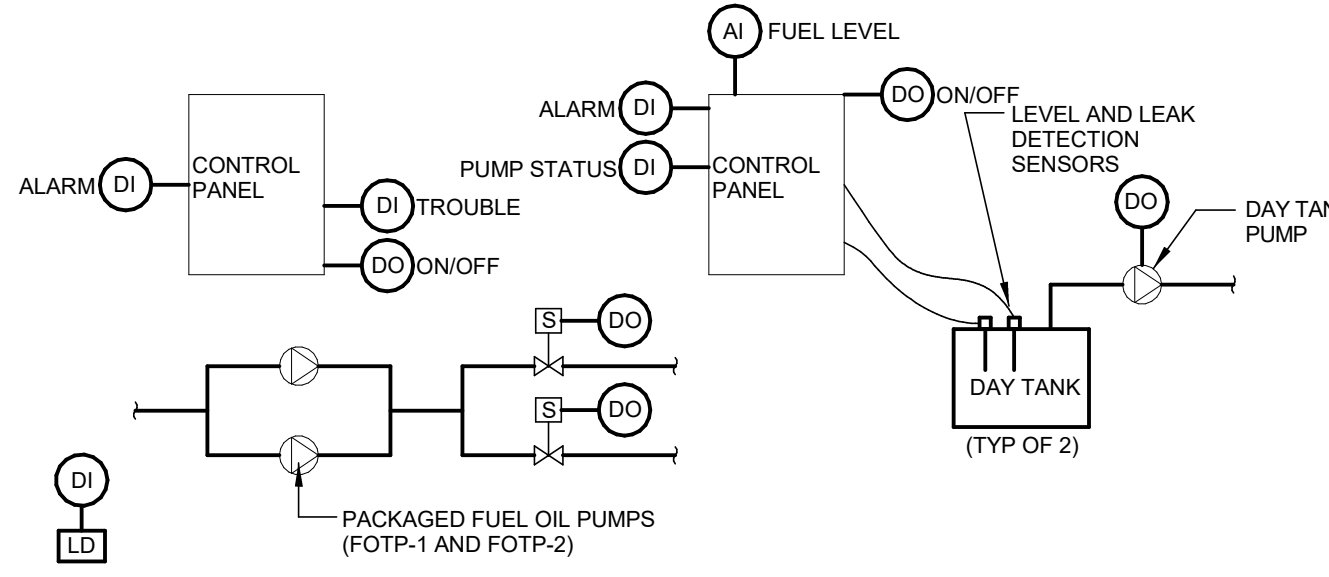
14 ACID WASTE NEUTRALIZATION TANK
N.T.S.



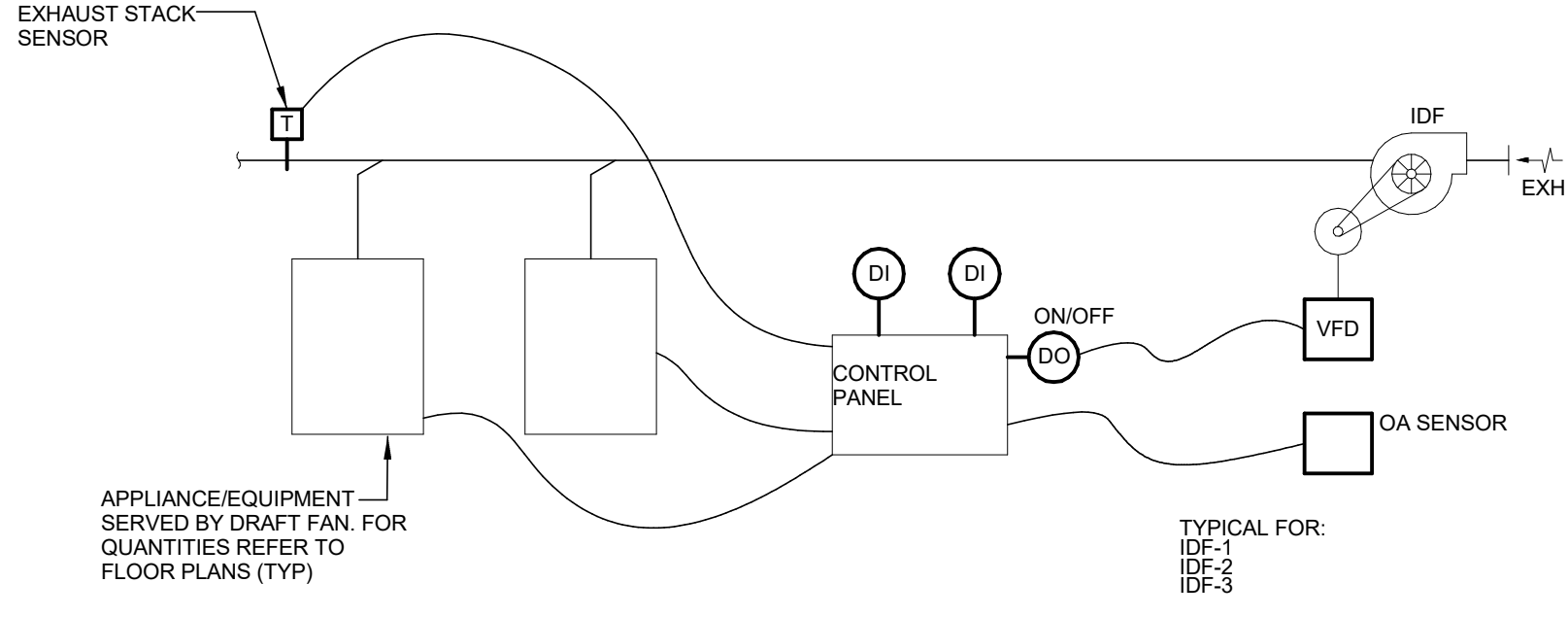
15 LIGHTING CONTROL PANEL INTERFACE
N.T.S.



16 FUEL OIL TANK CONTROL DIAGRAM
N.T.S.



17 FUEL OIL TRANSFER PUMPS CONTROL DIAGRAM
N.T.S.

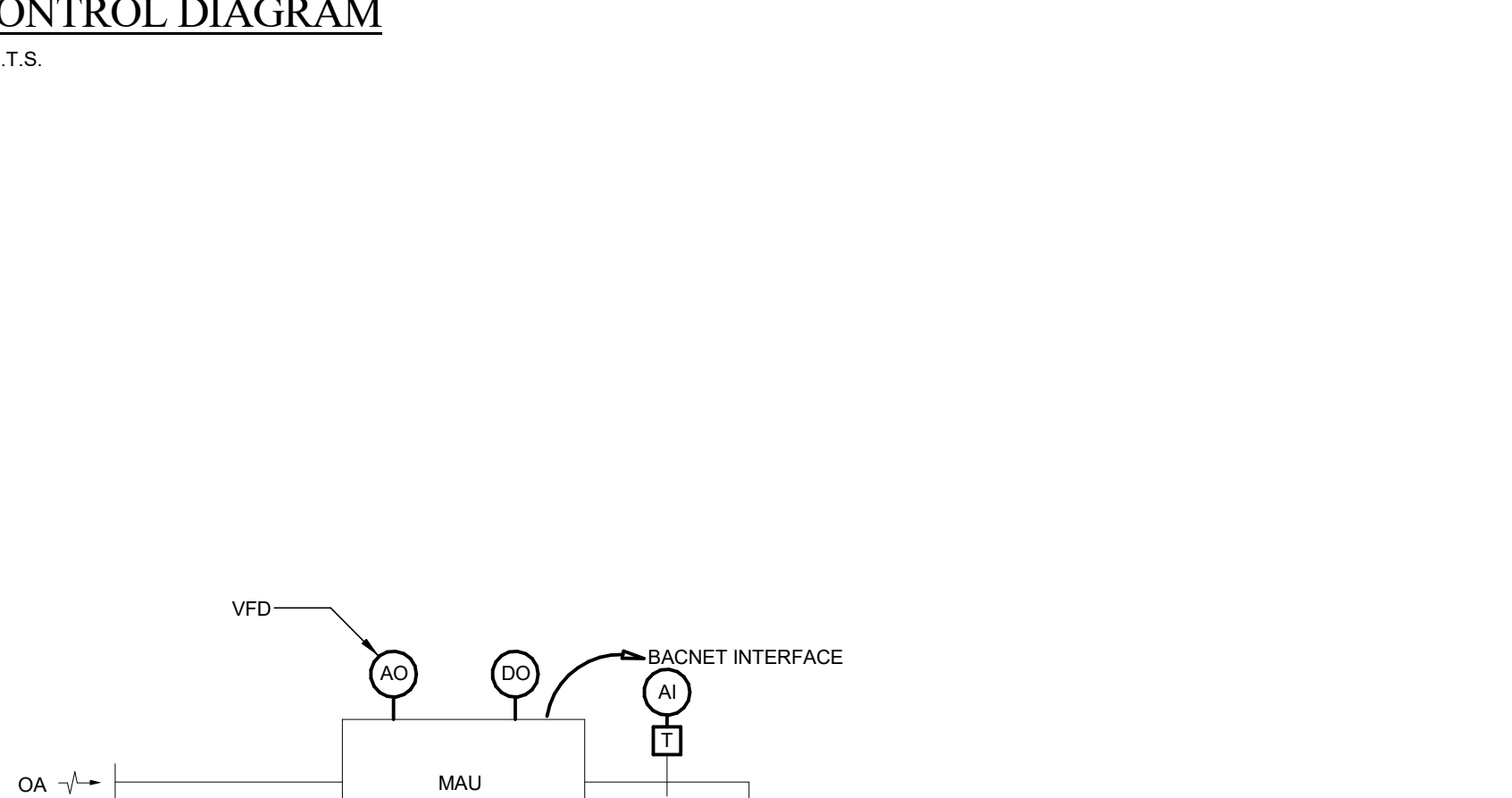
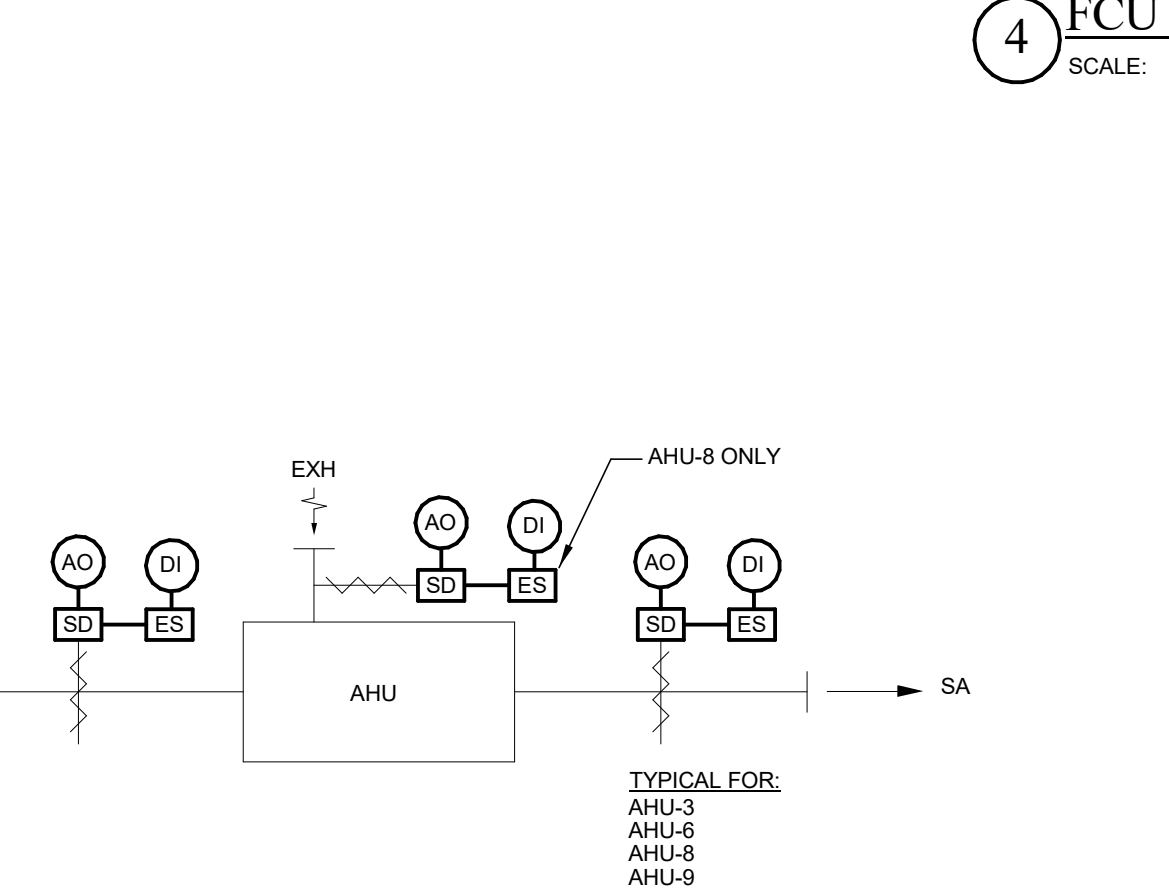
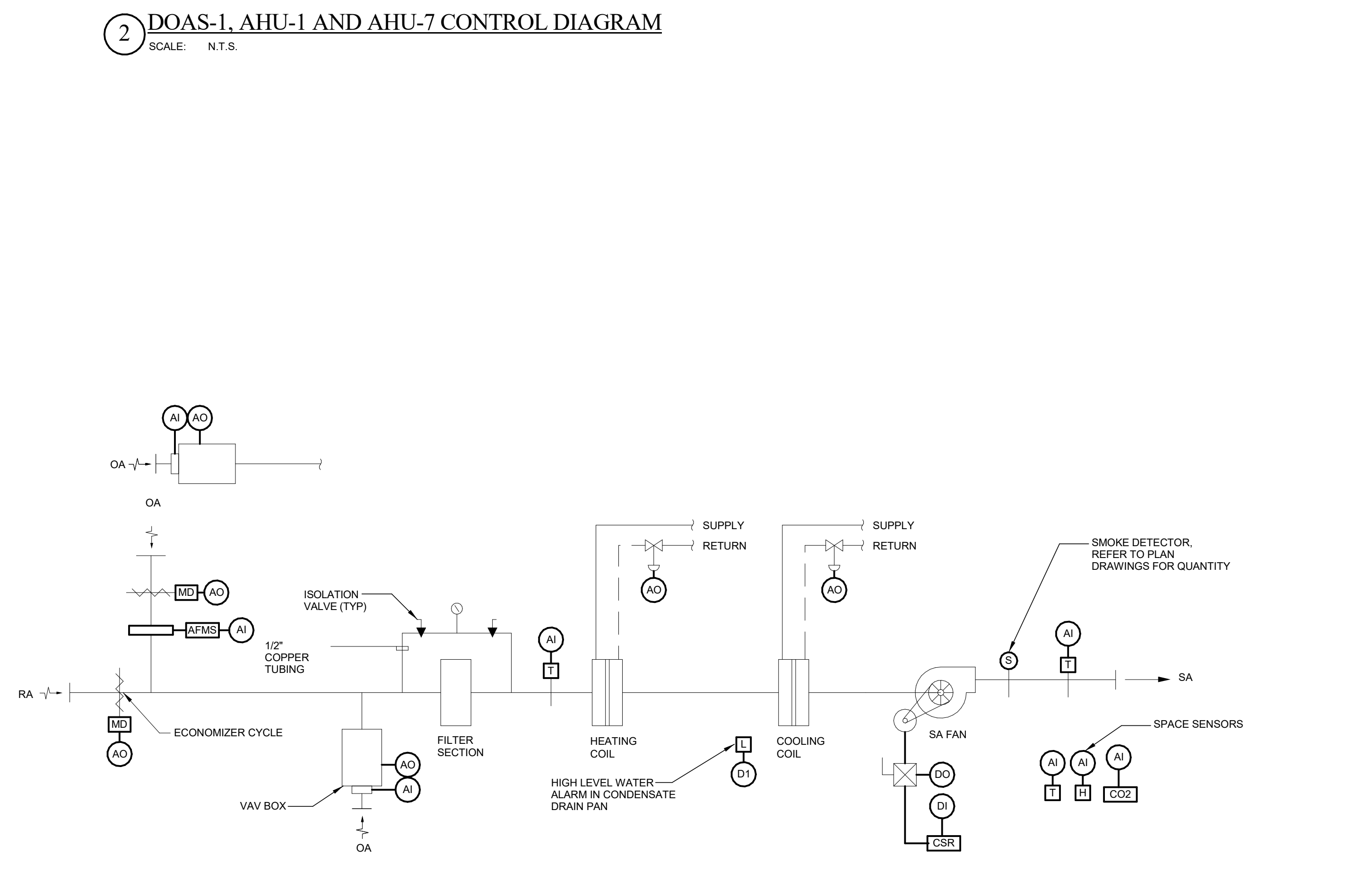
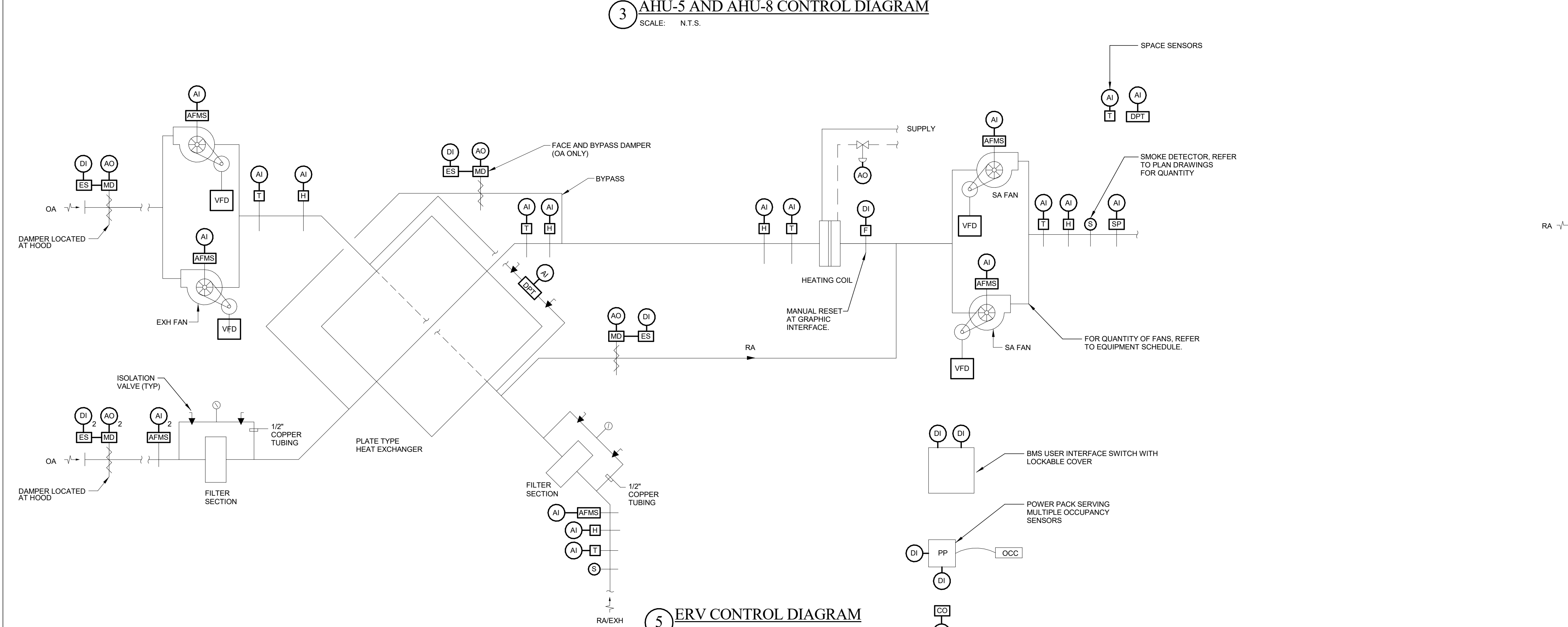
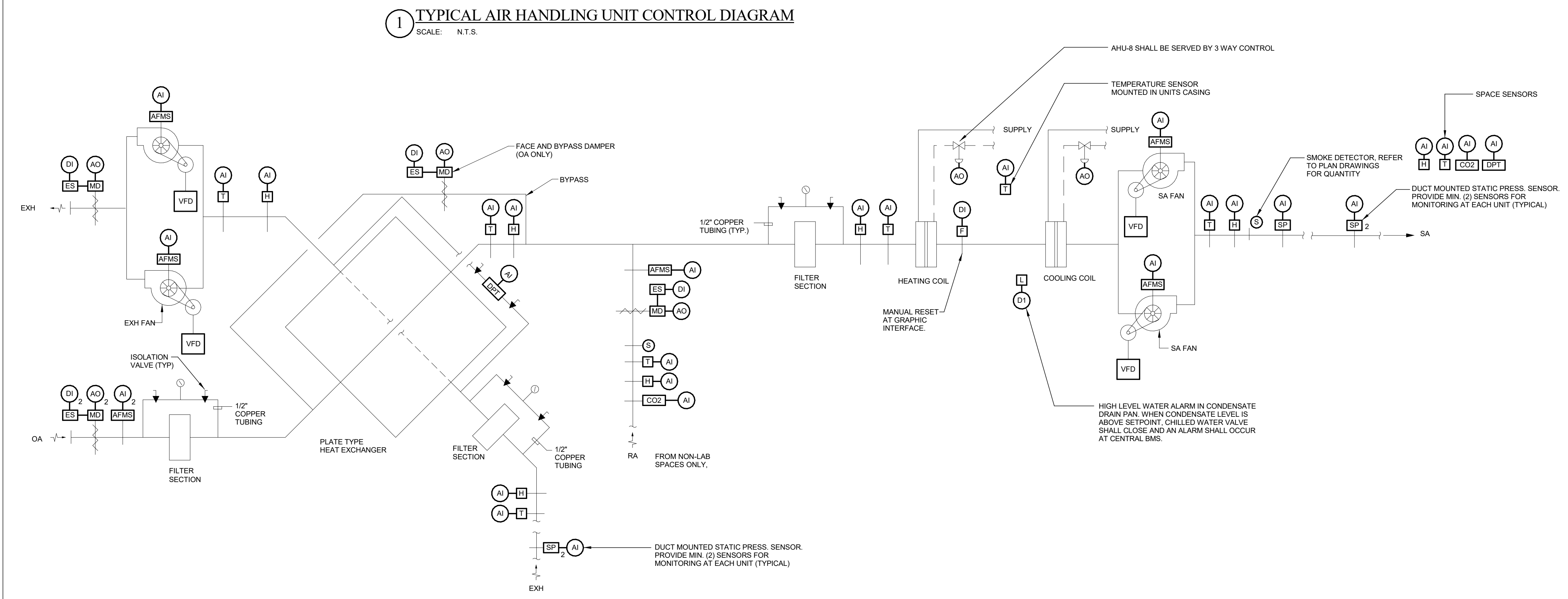
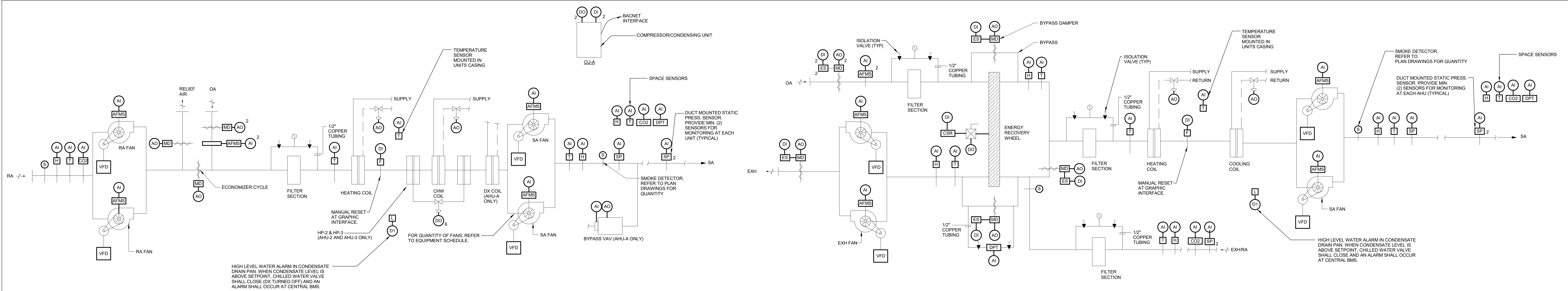


18 INDUCED DRAFT FAN CONTROL DIAGRAM
N.T.S.



REVISIONS			drawing title	date
mark	date	description		
	11/8/2019	Addendum No. 1	MECHANICAL CONTROLS	10/11/2019

BID DOCUMENTS STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES		drawing prepared by Consulting Engineering Services, Inc. <small>911 Middle St., Middletown, CT 06457</small>	date 10/11/2019 scale 1/8" = 1'-0" drawn by BSW
project Additions and Renovations Platt Technical High School <small>600 Orange Avenue Middletown, CT 06461</small>		approved by BSW	drawing no. MS-1-2
CAD no.	DCS project no. BR-RT-276 CM-R	OSGCR project no. 990-0013	



8 SMOKE DAMPER CONTROL DIAGRAM
N.T.S.

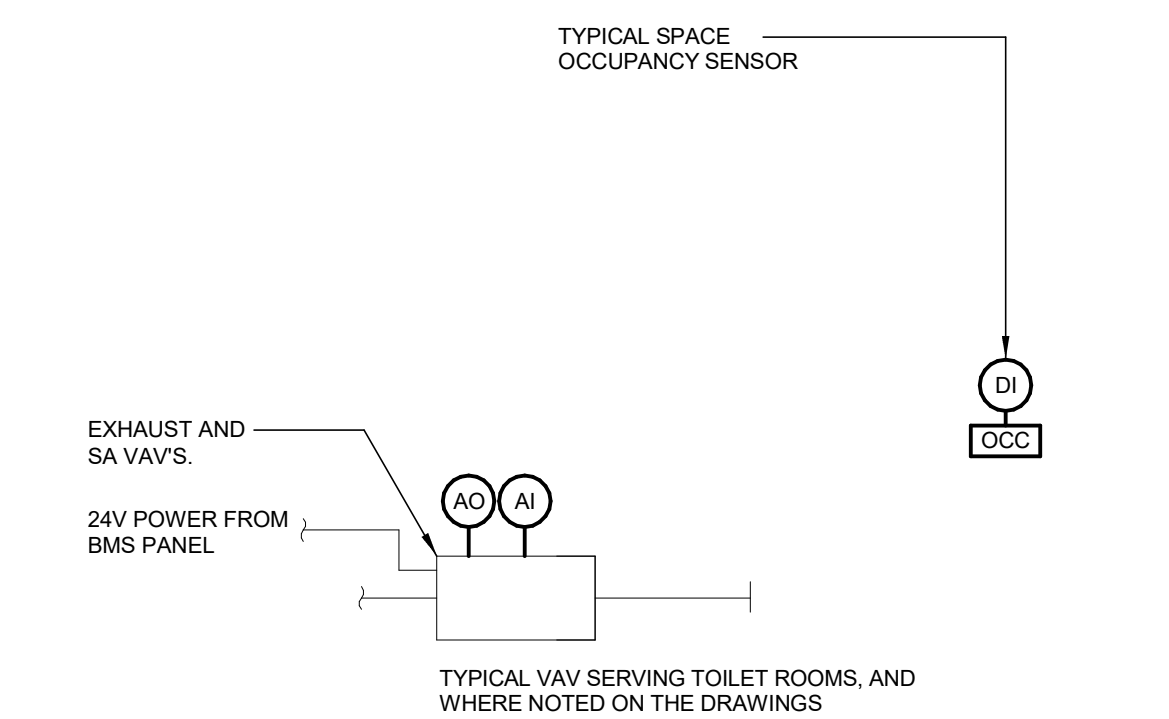
120 VOLT POWER BY DIVISION 26
ENCLOSED DPDT RELAY REFER TO ELECTRICAL DRAWINGS
STATUS
OPEN/CLOSE SIGNAL

NOTES:
1. INSTALL DUCT MOUNTED SMOKE DETECTORS. REFER TO ELECTRICAL DRAWINGS.
2. COORDINATE WITH FIRE ALARM SYSTEM. REFER TO ELECTRICAL DRAWINGS.

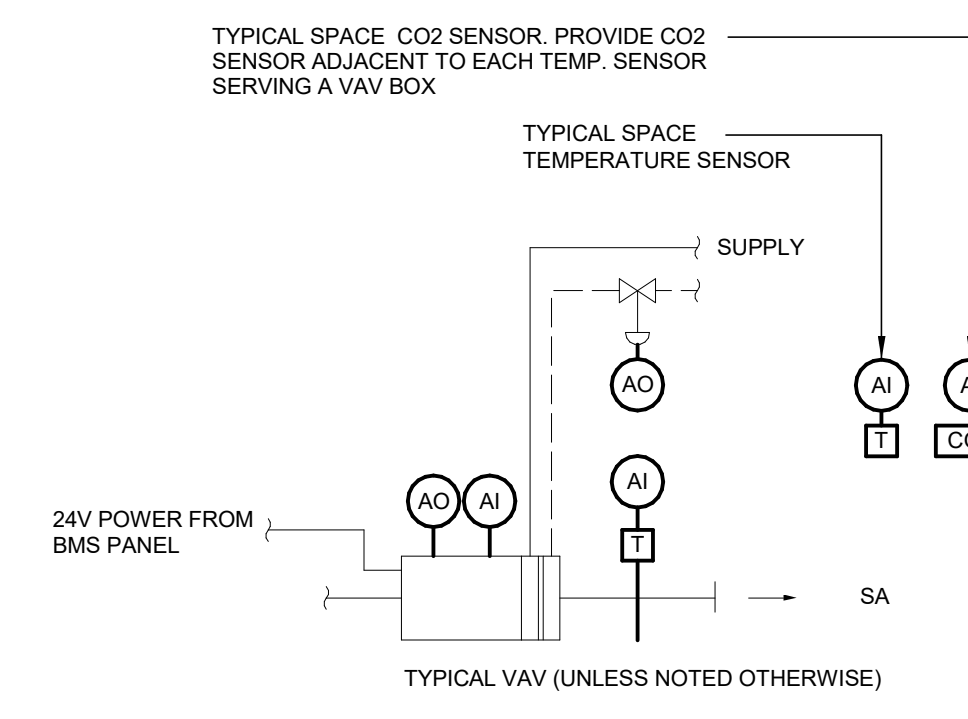
BID DOCUMENTS

MECHANICAL CONTROLS			STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	
drawing title			drawing prepared by	
11/8/2019			Consulting Engineering Services, Inc.	
Addendum No. 1			811 Middle St., Middletown, CT 06457	
date			date	
			10/11/2019	
description			scale	
			1/8" = 1'-0"	
project			drawn by	
Additions and Renovations Platt Technical High School 600 Orange Avenue Middletown, CT 06461			approved by	
CAD no.			drawing no.	
DCS project no. 01-RF-076 CM-R			MS-1-3	
OSCR project no. 990-0013				

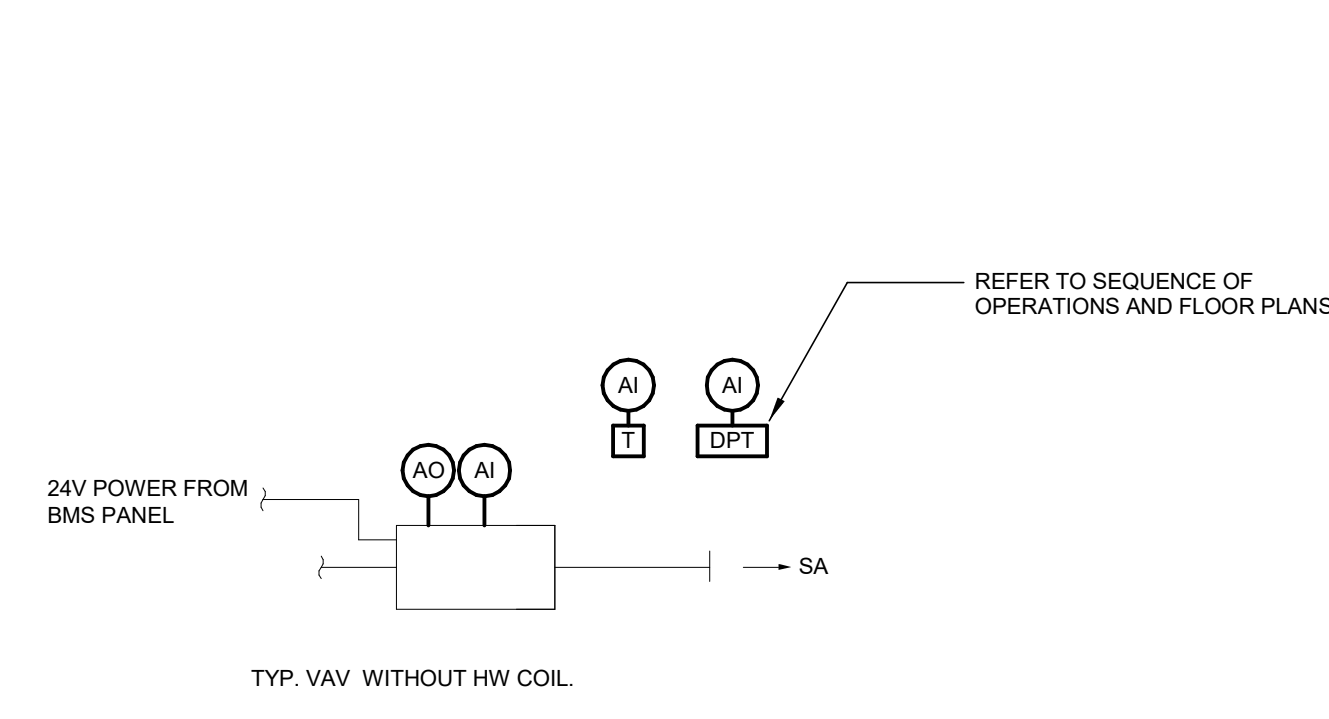
UNIVERSITY OF CONNECTICUT
STATE OF CONNECTICUT
LICENSED PROFESSIONAL ENGINEER



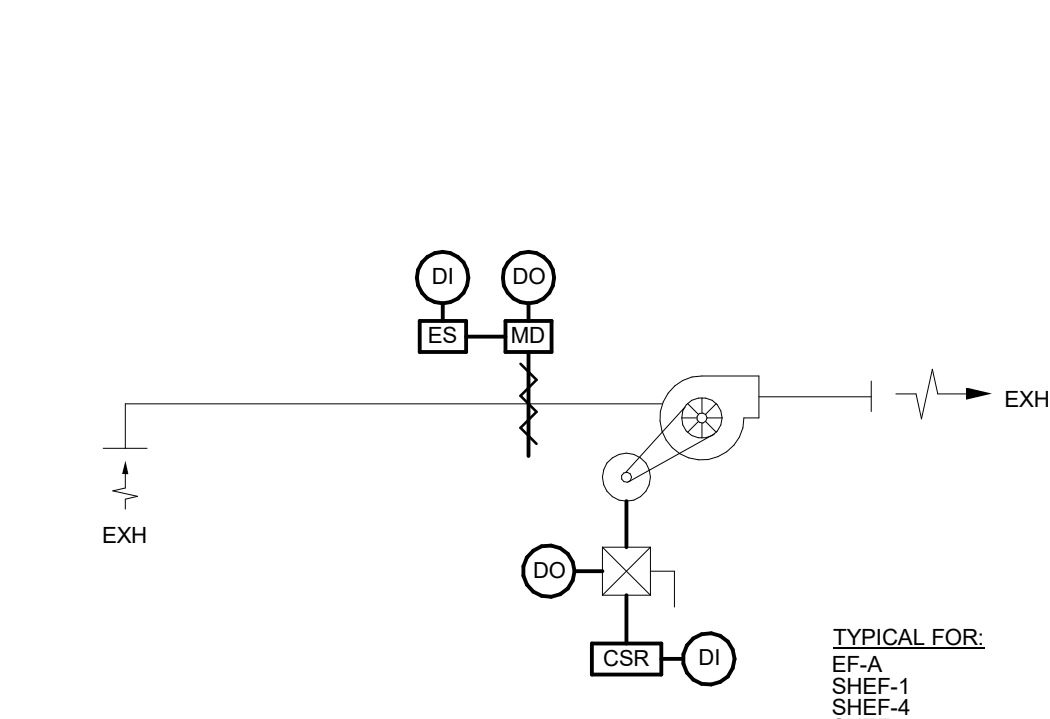
1 VAV CONTROL DIAGRAM-OCCUPANCY SENSOR
N.T.S.



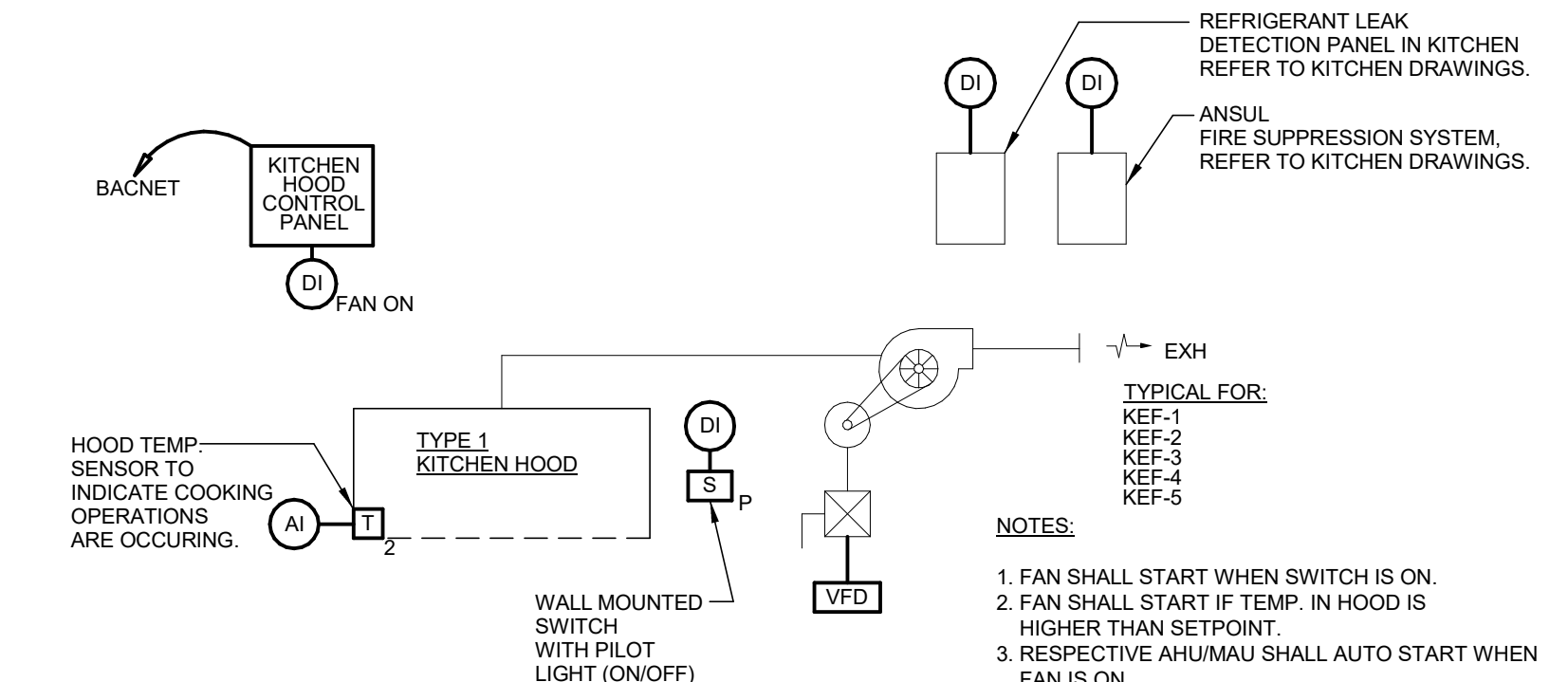
2 VAV CONTROL DIAGRAM
N.T.S.



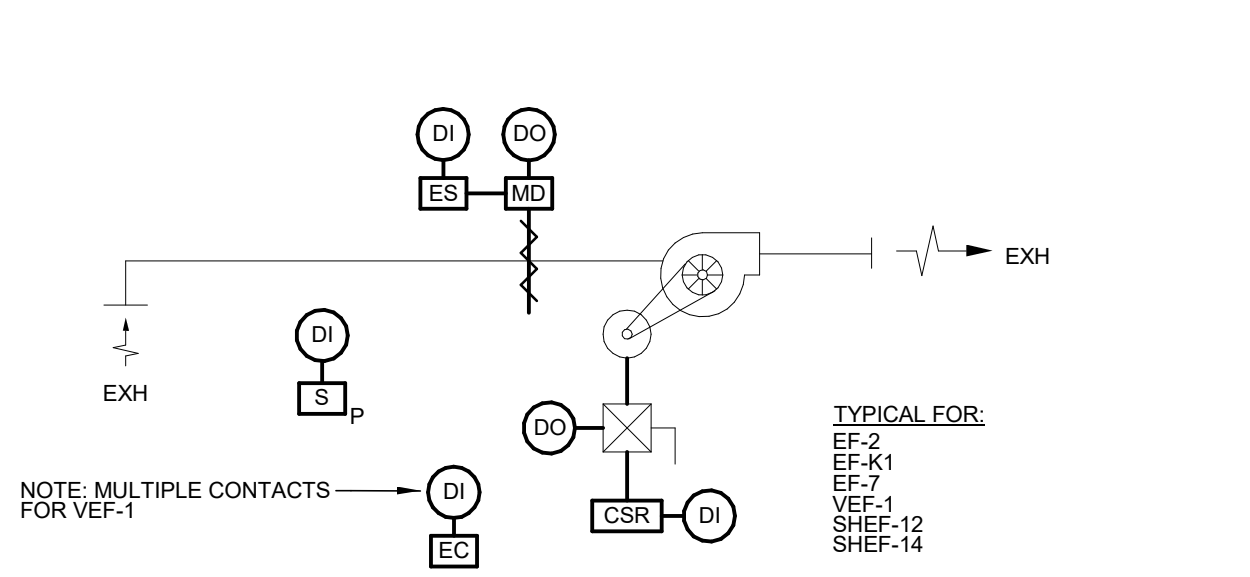
3 VAV CONTROL DIAGRAM
N.T.S.



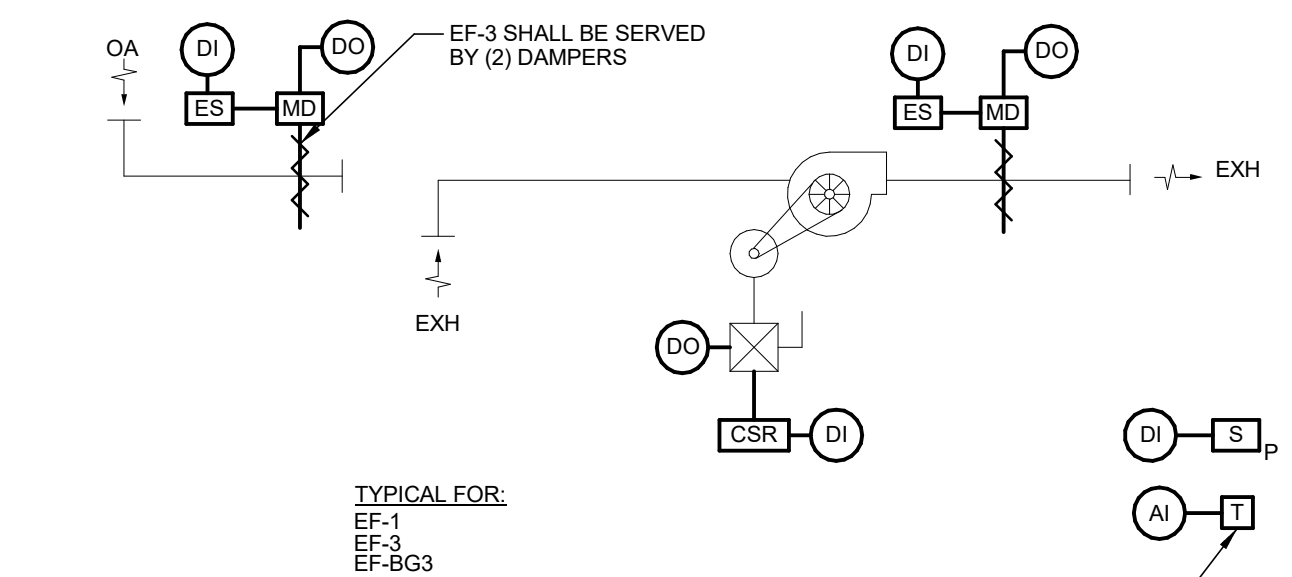
4 FAN CONTROL DIAGRAM - TIME OF DAY
N.T.S.



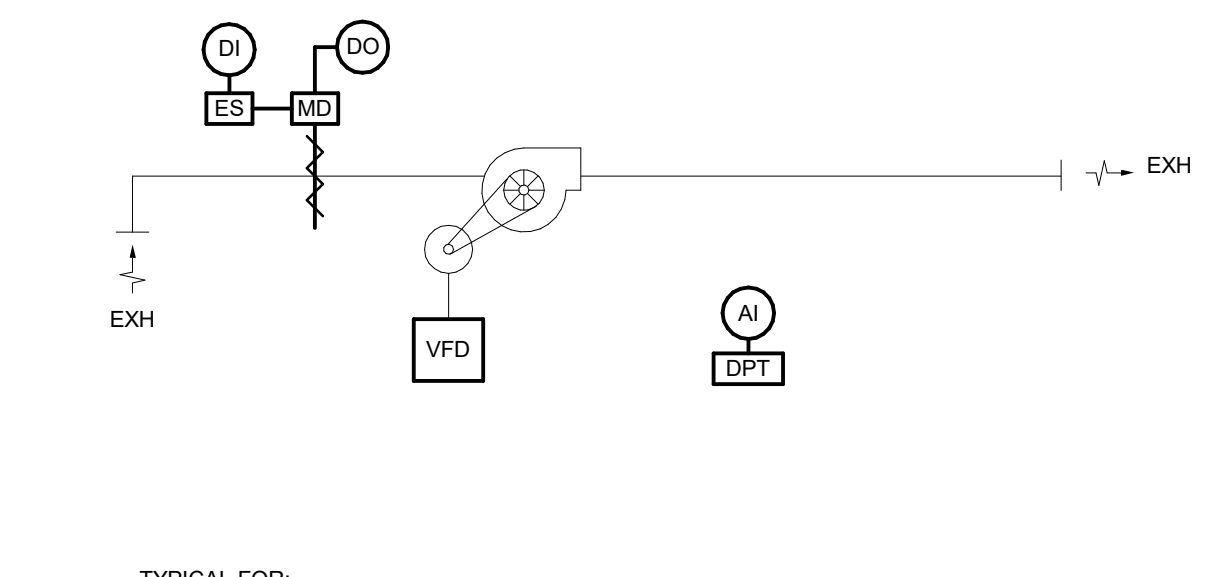
5 KITCHEN HOOD CONTROL DIAGRAM
N.T.S.



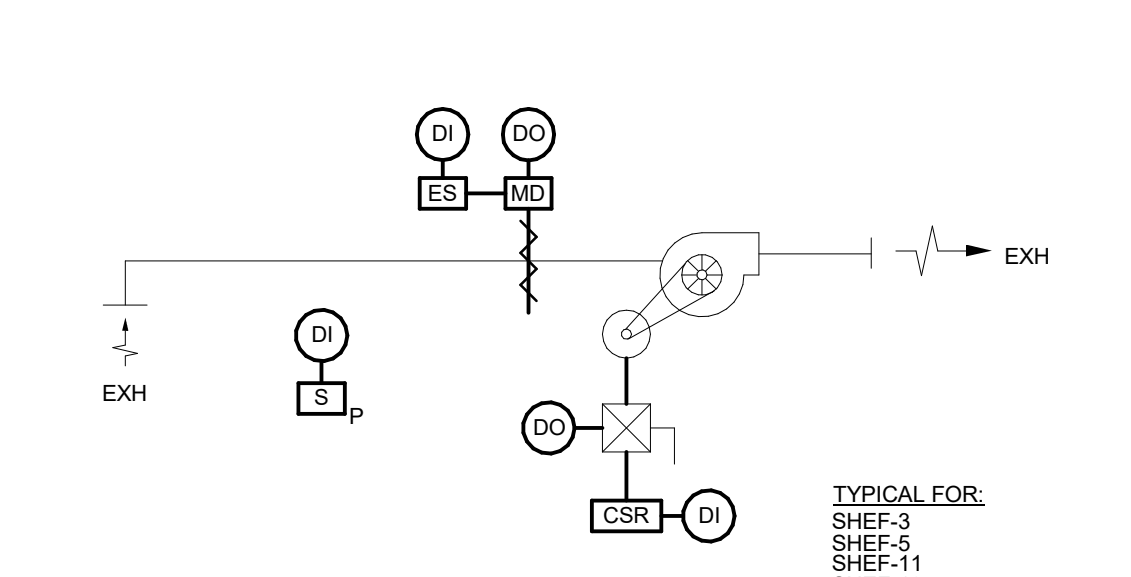
6 FAN CONTROL DIAGRAM - SWITCH/EQUIP. CONTACT
N.T.S.



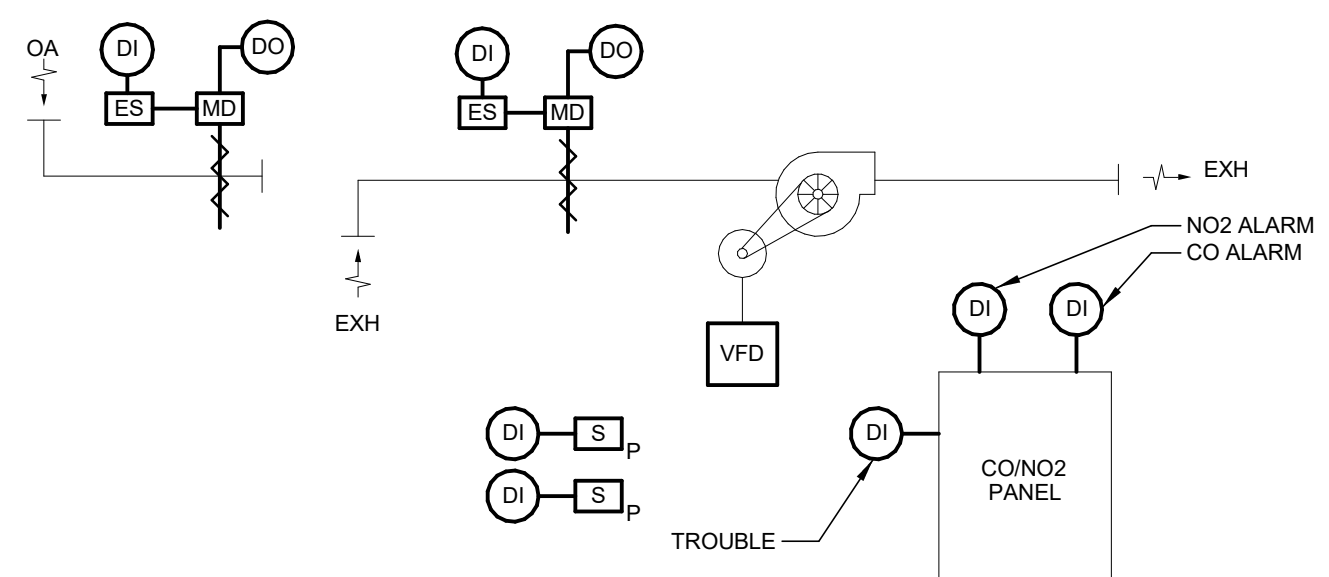
7 FAN CONTROL DIAGRAM - TEMP/SWITCH CONTROL
N.T.S.



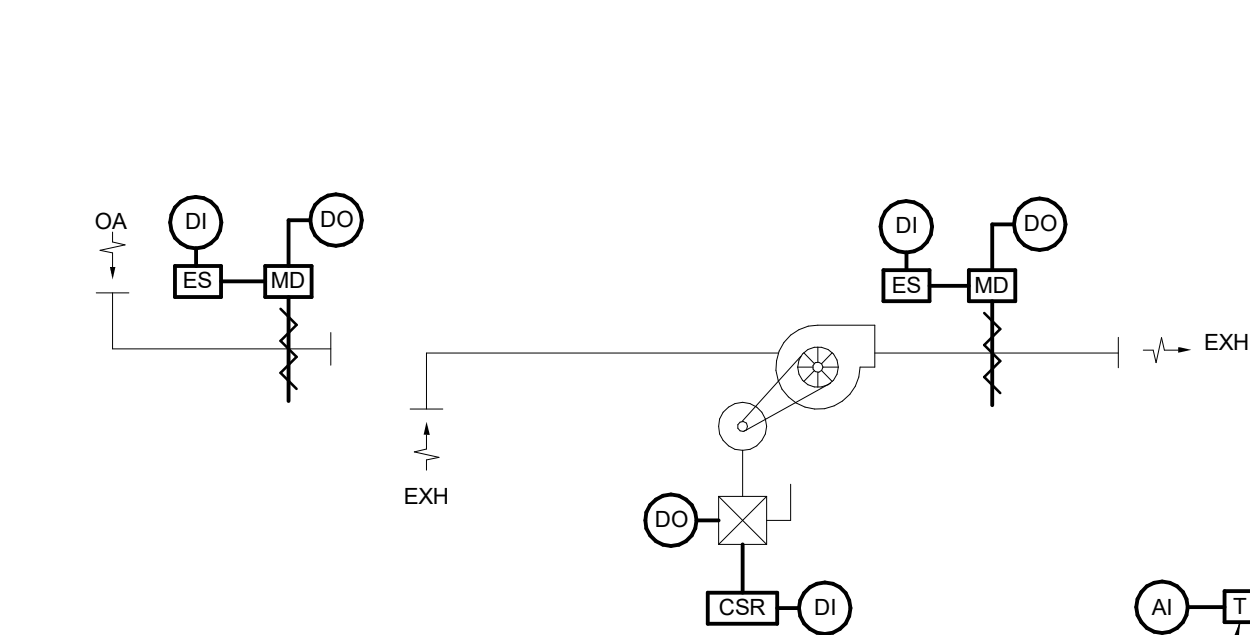
8 FAN CONTROL DIAGRAM - LEF-3
N.T.S.



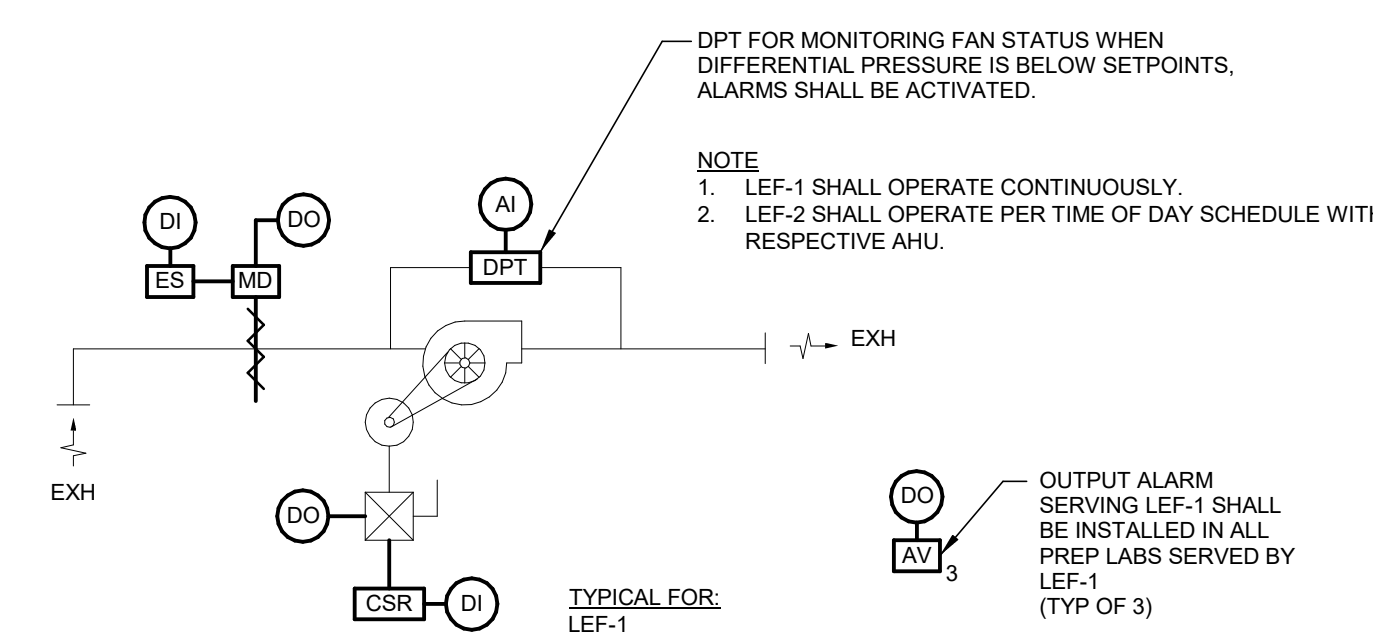
9 FAN CONTROL DIAGRAM - SWITCH OPERATED
N.T.S.



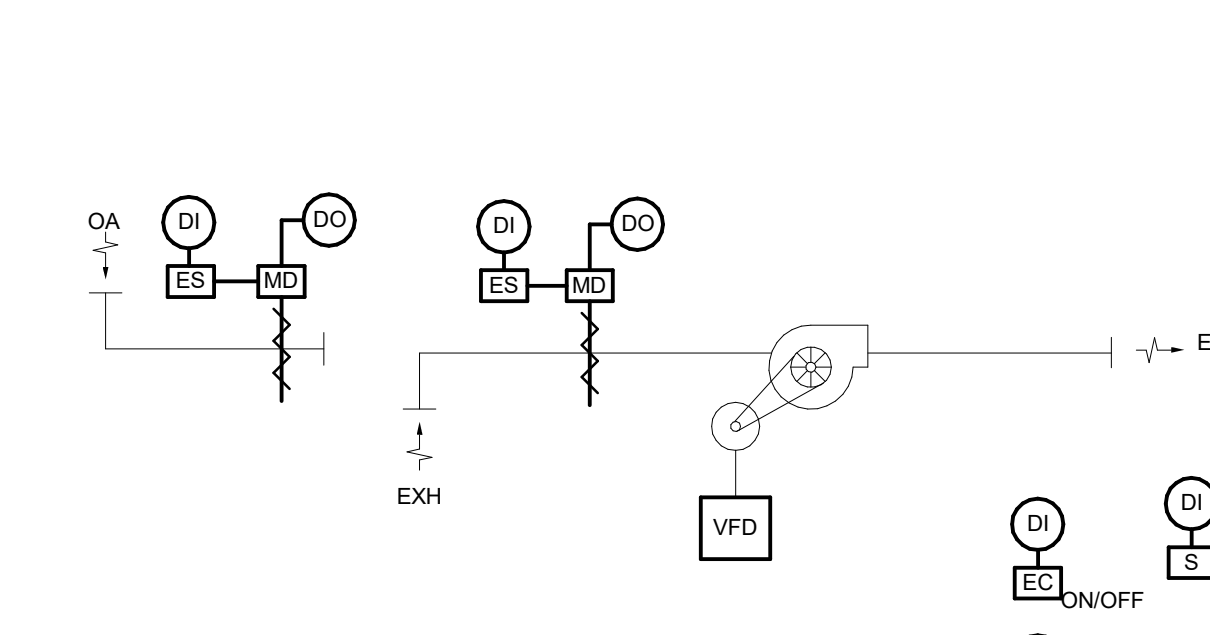
10 EF-BG1 AND EF-BG2 FAN CONTROL DIAGRAM
N.T.S.



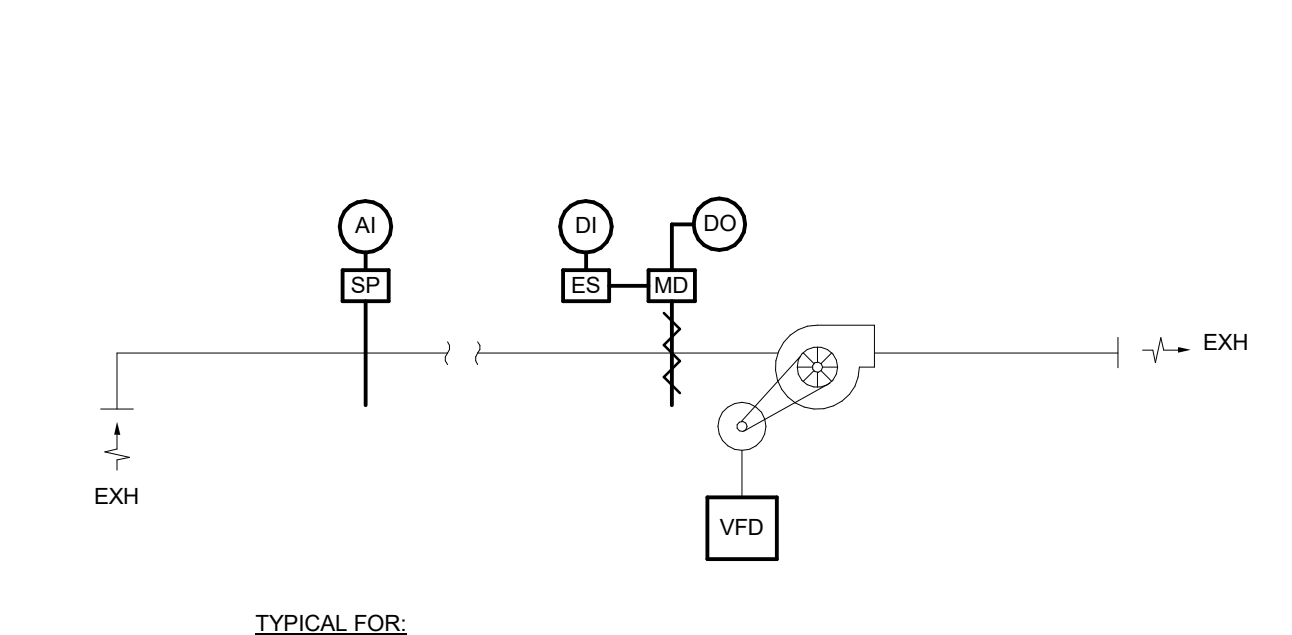
11 FAN CONTROL DIAGRAM - TEMPERATURE CONTROL
N.T.S.



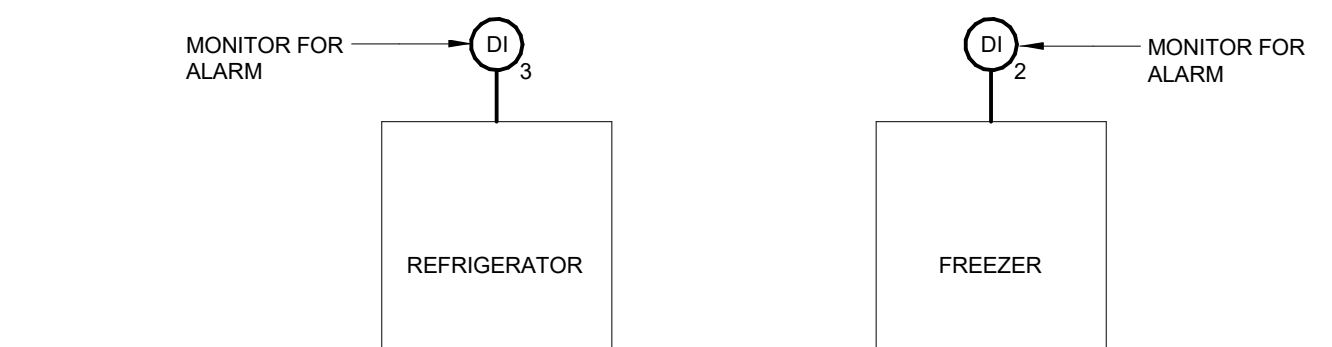
12 FAN CONTROL DIAGRAM - LAB EXHAUST FAN
N.T.S.



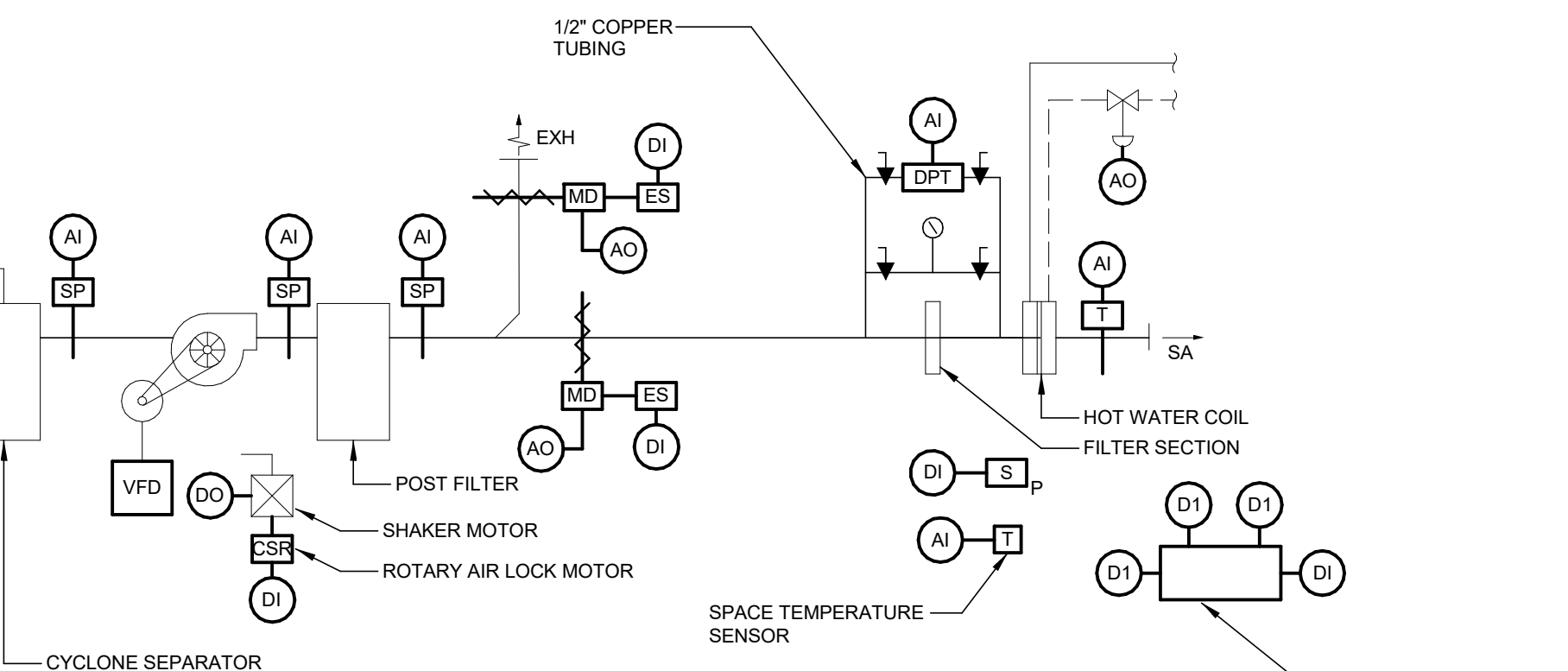
13 FAN CONTROL DIAGRAM - SPRAY BOOTHS
N.T.S.



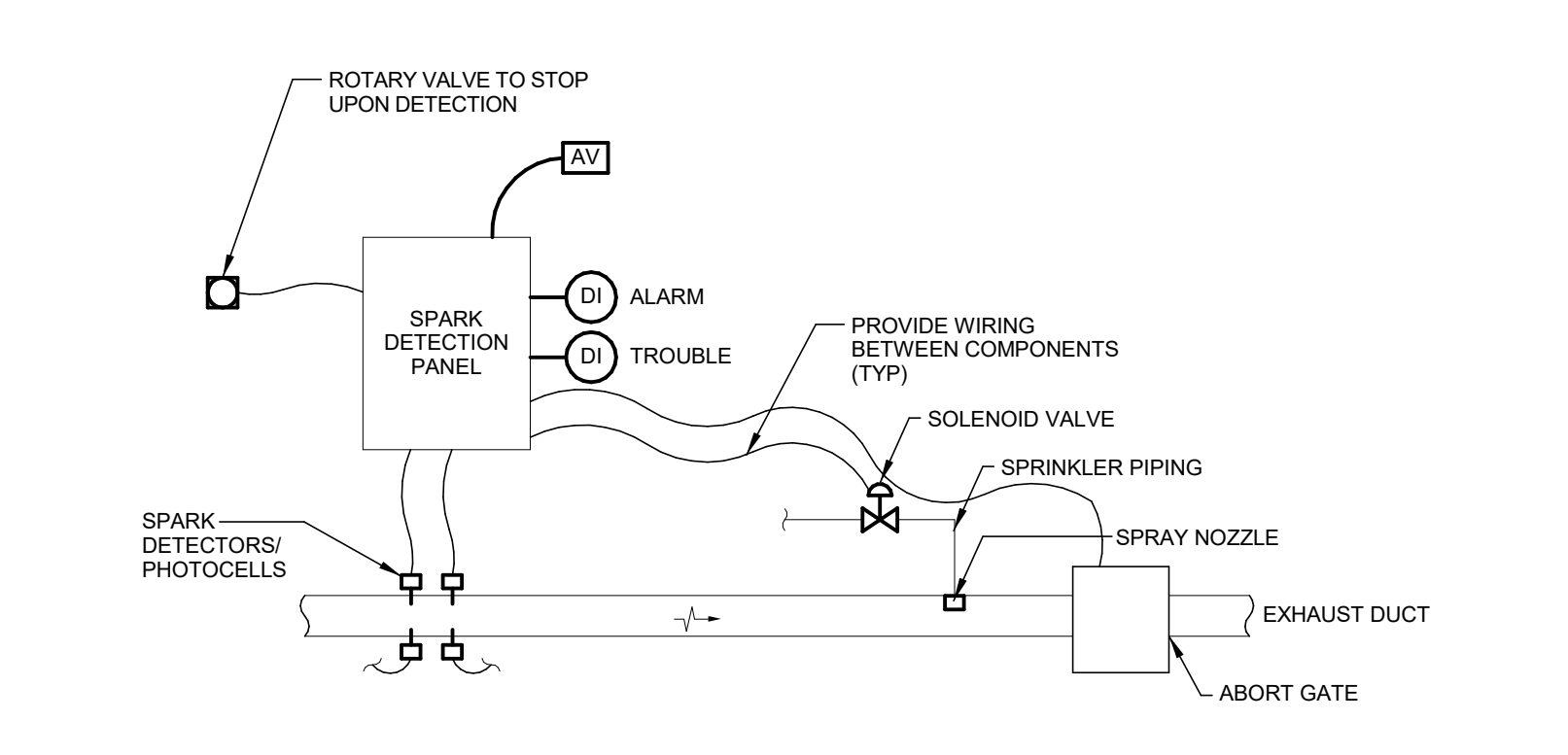
14 FAN CONTROL DIAGRAM - VARIABLE FLOW CONTROL
N.T.S.



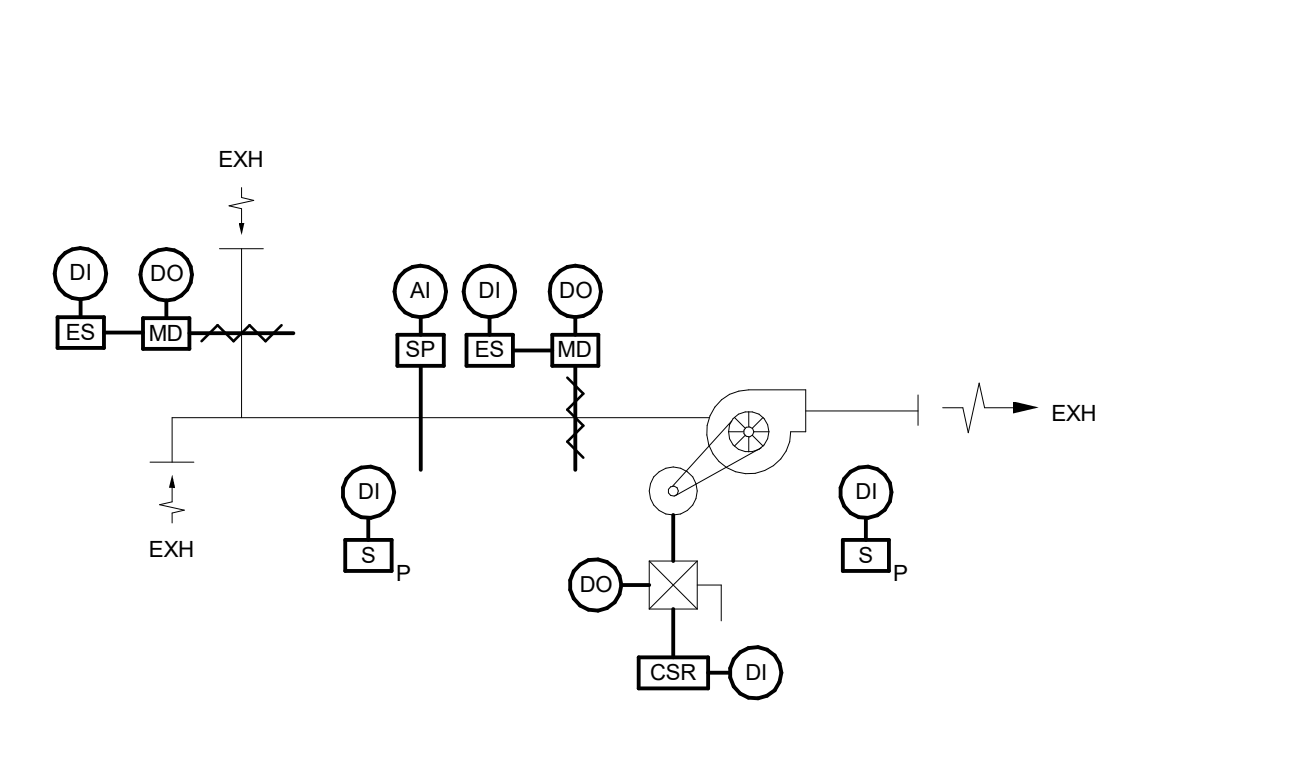
15 KITCHEN EQUIPMENT ALARMS
N.T.S.



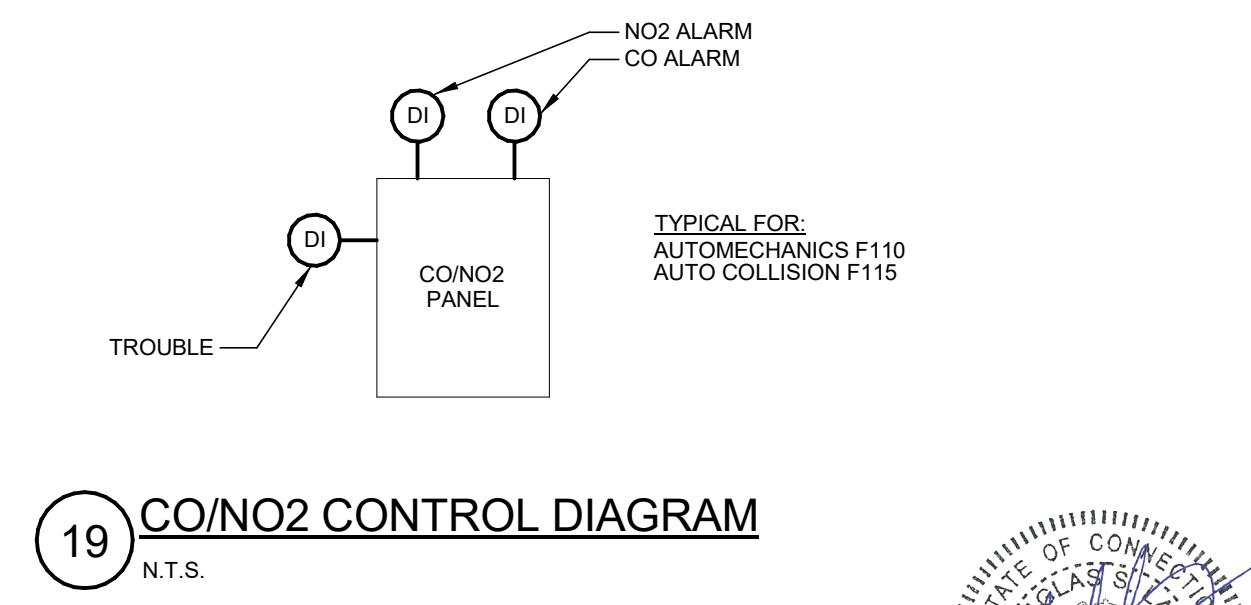
16 DUST COLLECTION DC-1 AND DC-2 CONTROL DIAGRAM
N.T.S.



17 DC-1 & DC-2 SPARK DETECTION/EXTINGUISHING CONTROL DIAGRAM
N.T.S.



18 SHEF-4 CONTROL DIAGRAM - SWITCH OPERATED
N.T.S.



19 CO/NO2 CONTROL DIAGRAM
N.T.S.

REVISIONS			drawing title	drawing date	date
mark	date	description			
	11/8/2019	Addendum No.1	MECHANICAL CONTROLS	10/11/2019	10/11/2019

BID DOCUMENTS MECHANICAL CONTROLS		STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	
drawing prepared by Consulting Engineering Services, Inc. 811 Middle St., Middletown, CT 06457		date 10/11/2019	
project Additions and Renovations Platt Technical High School 600 Orange Avenue Middletown, CT 06461		scale 1/8" = 1'-0" drawn by Author	
CAD no. DCS project no. BIRT-076 CM-R		approved by Approver drawing no. MS-14	
OSCGR project no. 900-0113			

