



Addendum No. 1 Page 1 of 2

DATE: January 18, 2019

Joliet Junior College
1215 Houbolt Road
Joliet, IL 60431

TO: Prospective Bidders
SUBJECT: Addendum No. 1
PROJECT NAME: S Bldg AHU Replacement
JJC PROJECT NO.: B18030

This Addendum forms a part of the Bidding and Contract Documents and modifies the original bidding document as posted on the JJC website. Acknowledge receipt of this addendum in the space provided on the Bid Form. FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.

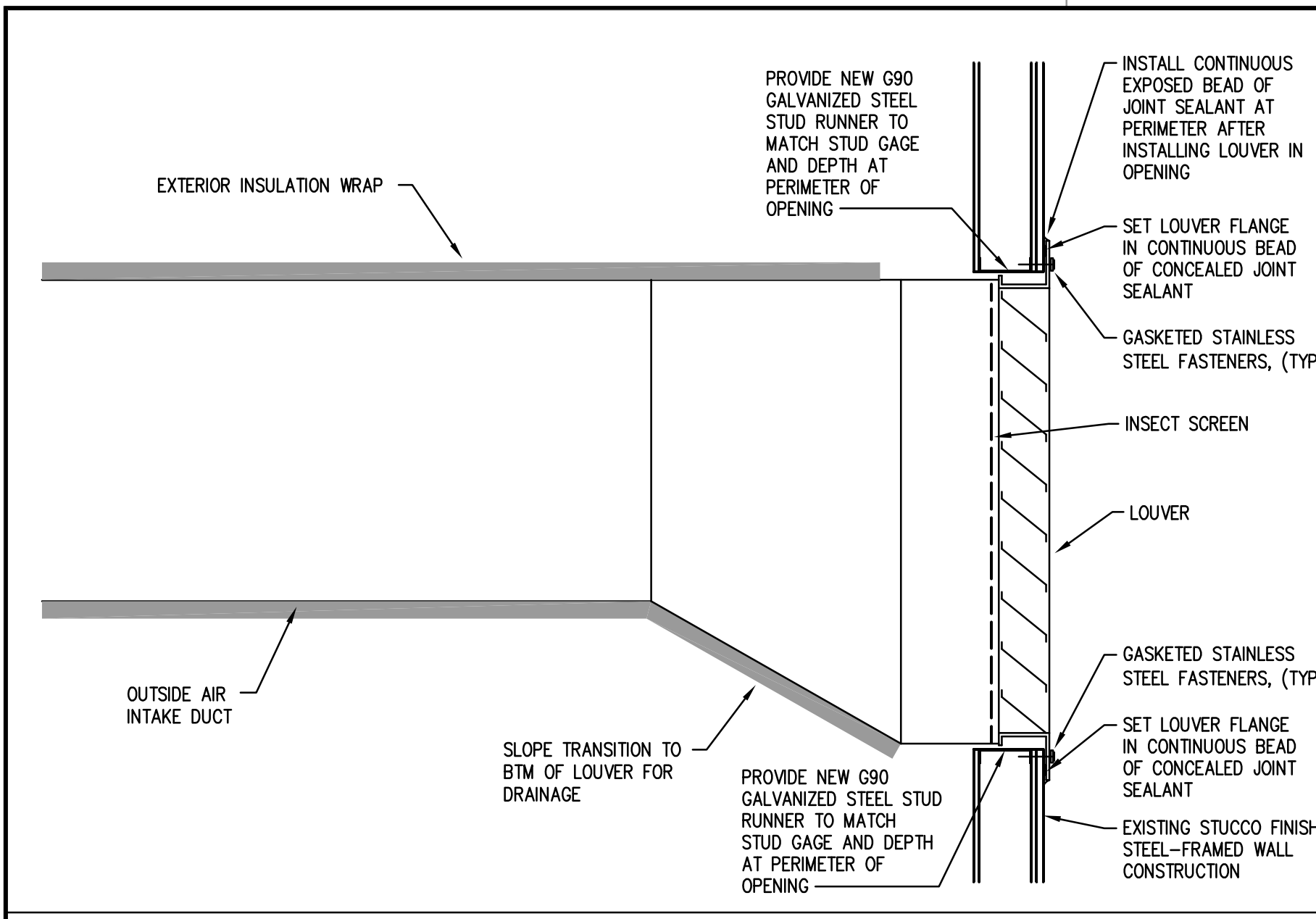
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1. It was mentioned in the pre-bid that isolation valves would be installed by JJC. However, all valves shown in the bid documents shall be installed by this contractor.
 2. This addendum includes a revised bid form to incorporate a line item for Alternate 1 (AHU 17 & 18).
 3. This addendum includes the following changes to the specifications;
 - a. Section 23 09 23 – Direct-Digital Control System for HVAC –
 - i. Paragraph 1.04 A.; Delete “Delta Controls Enteliweb Enterprise” from first sentence and replace with “Johnson Controls, Inc.”.
 - ii. Paragraph 2.01 A.; Add the following after Johnson Controls, Inc., “Jim Pierson – 708-418-2268”
 - b. Section 23 33 00 – Air Duct Accessories
 - i. Add Paragraph 1.01 E. Fire Dampers.
 - ii. Add Article 2.06 as follows:
 1. 2.06 FIRE DAMPERS
 - A. Manufacturers:
 1. Ruskin Company.
 2. Greenheck.
 3. Potorff.
 - B. Fabricate in accordance with NFPA 90A and UL 555, and as indicated.
 - C. Curtain Type Dampers: Galvanized steel with interlocking blades. Provide stainless steel closure springs and latches for horizontal installations. Configure with blades out of air stream except for 1.0 inch pressure class ducts up to 12 inches in height.
 - D. Fusible Links: UL33, separate at 160 degrees F with adjustable link straps.
 - E. Rating: Dampers shall be marked with 1-1/2 or 3-hour fire protection rating as required for damper location.



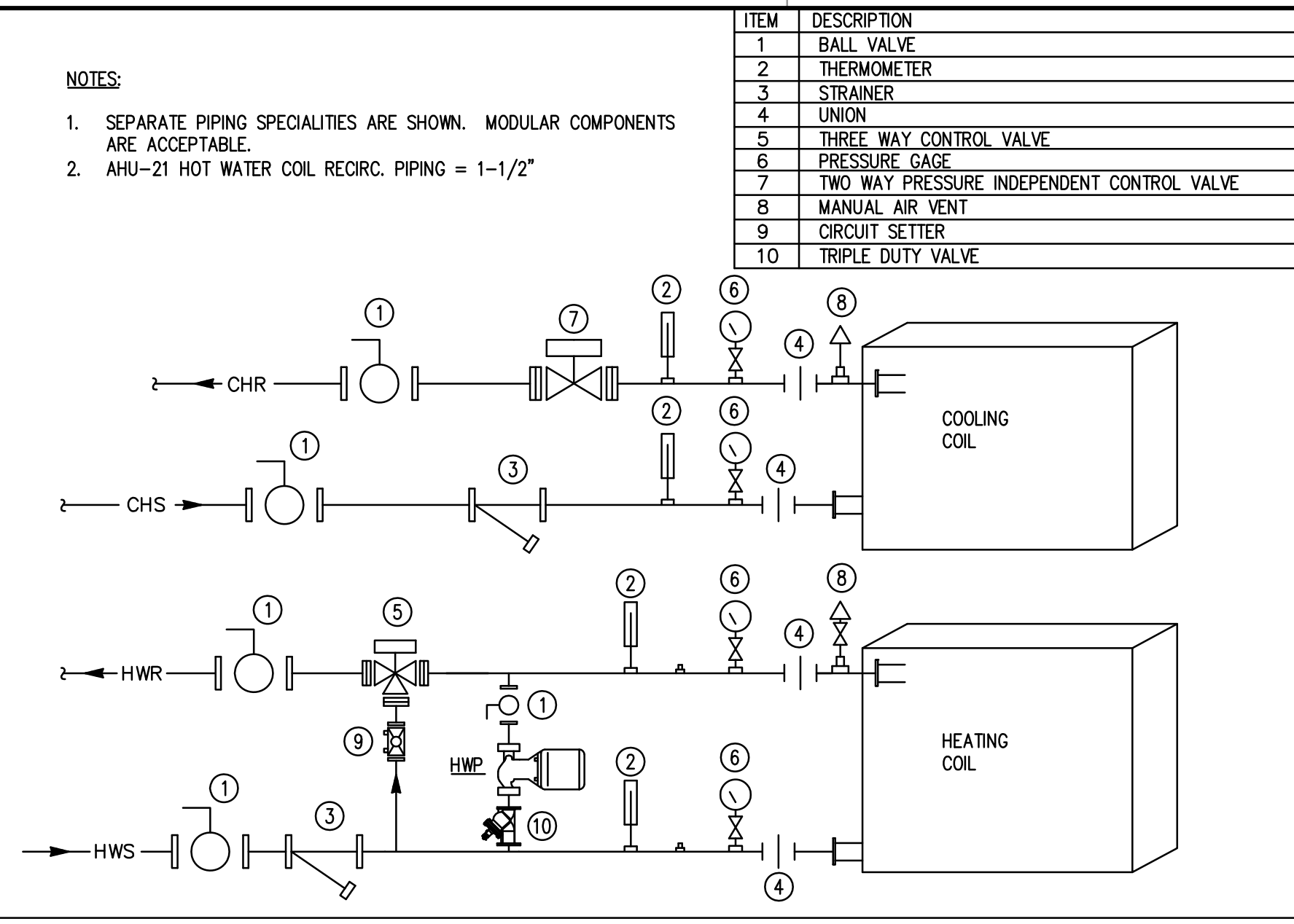
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4. This addendum includes the following changes to these drawings;
 - a. Drawing M311 – First Floor Enlarged Mechanical Plans: Add items and keynotes as shown in attached Drawing M311.
 - b. Drawing M321 – Second Floor Enlarged Mechanical Plans: Add fire damper as shown in attached Drawing M321.
 - c. Drawing M510 – Mechanical Details: Change equipment rail from 6 inches to 8 inches in Air Handling Unit (AHU-20) Detail and in Air Handling Unit (AHU-21) Detail.
 - d. Drawing M610 – Mechanical Schedule and Details: Add Detail 7 Wall Fire Damper Detail as shown in attached Drawing M610.

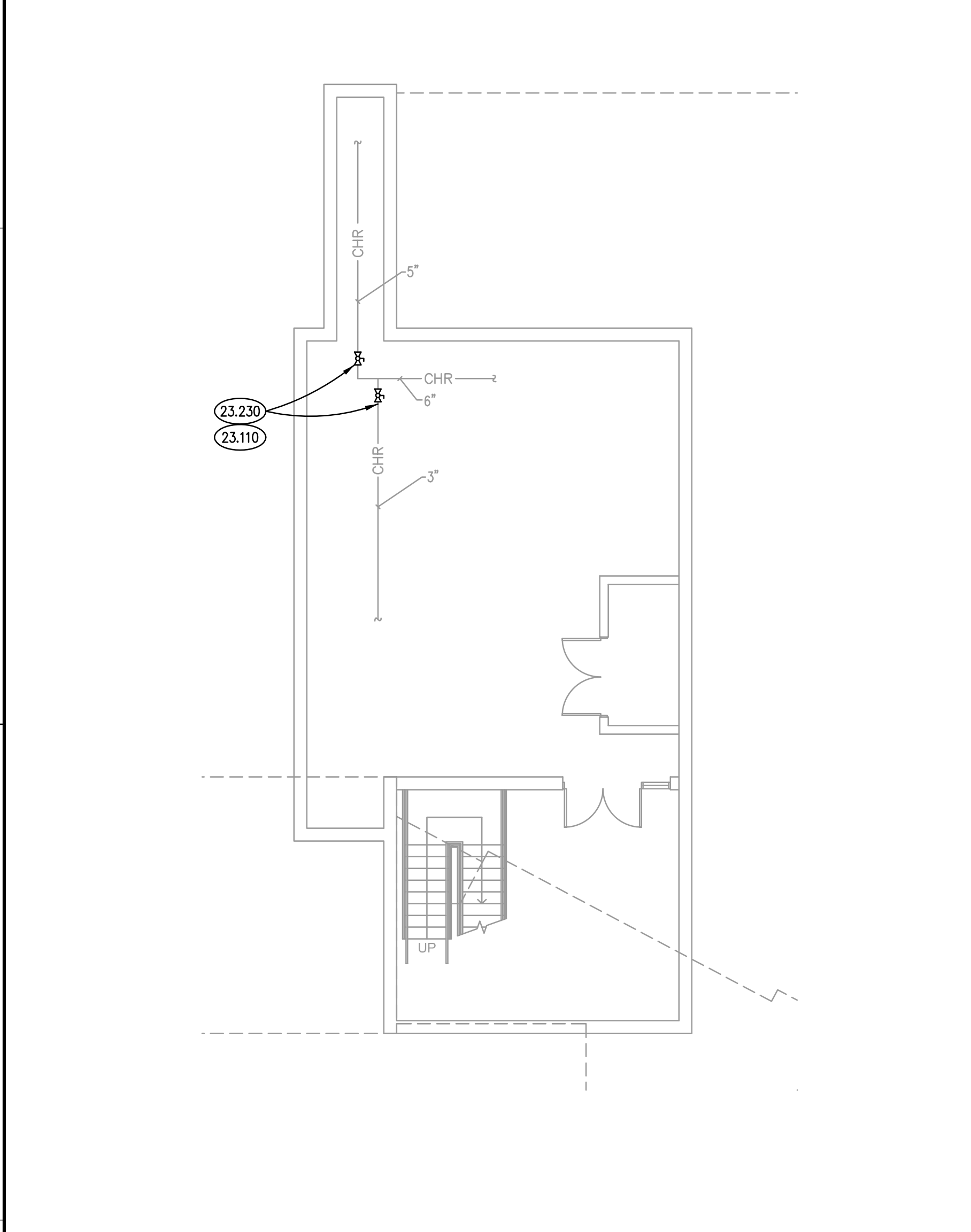
End of Addendum #1



WALL LOUVER IN STUD WALL DETAIL
SCALE: NTS **5**

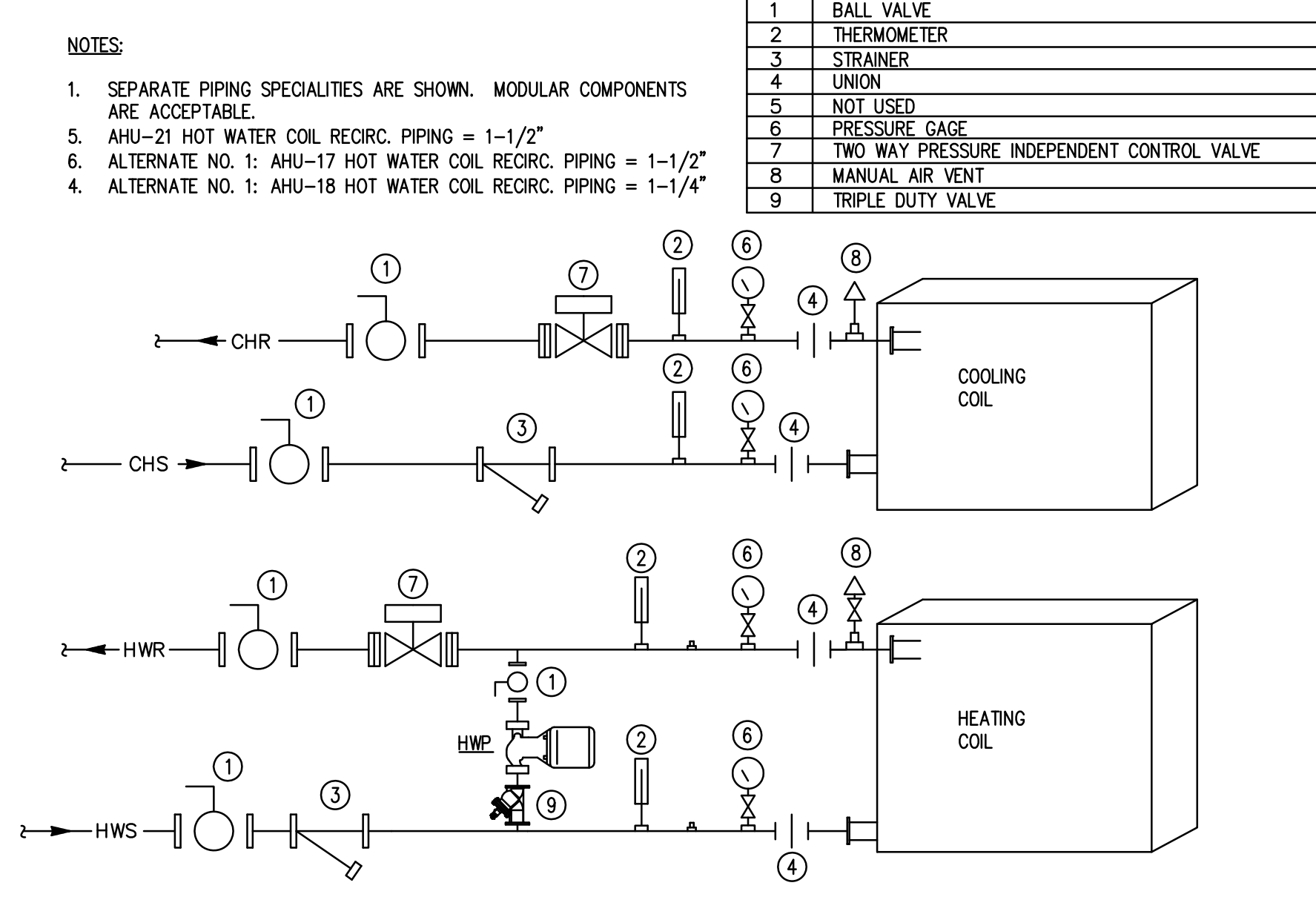


AHU-21 COIL PIPING DETAIL
SCALE: NTS **1**

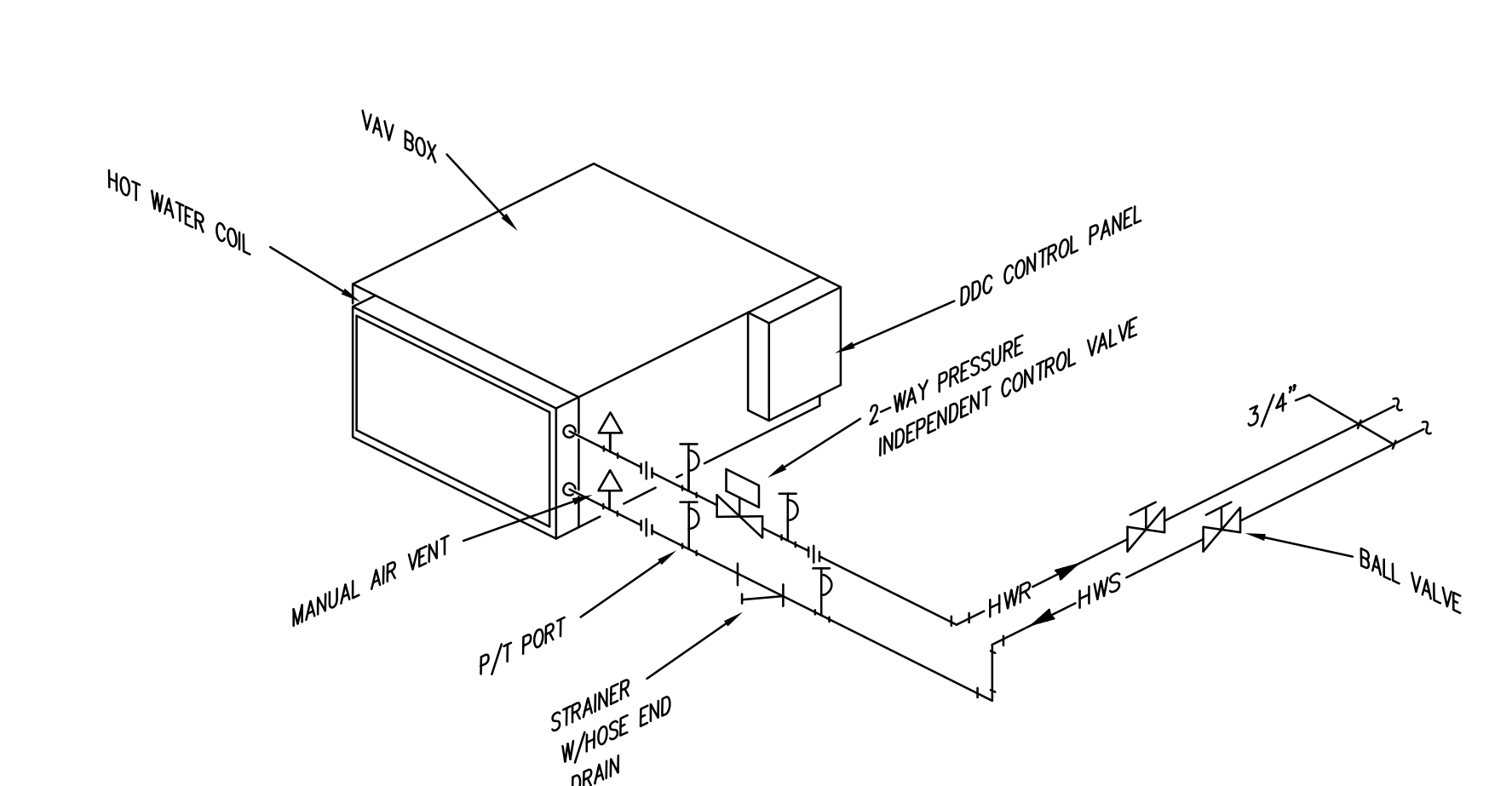


KEYNOTES:
23.110 COORDINATE WITH OWNER FOR DRAINING PIPES. OWNER TO DRAIN AND FILL CHILLED WATER AND HEATING WATER PIPING
23.230 PROVIDE ALL MATERIALS AND LABOR TO INSTALL NEW ISOLATION VALVES ON EXISTING CHILLED WATER RETURN PIPING.

SUBSTATION A NEW WORK PLAN
SCALE: NTS **6**

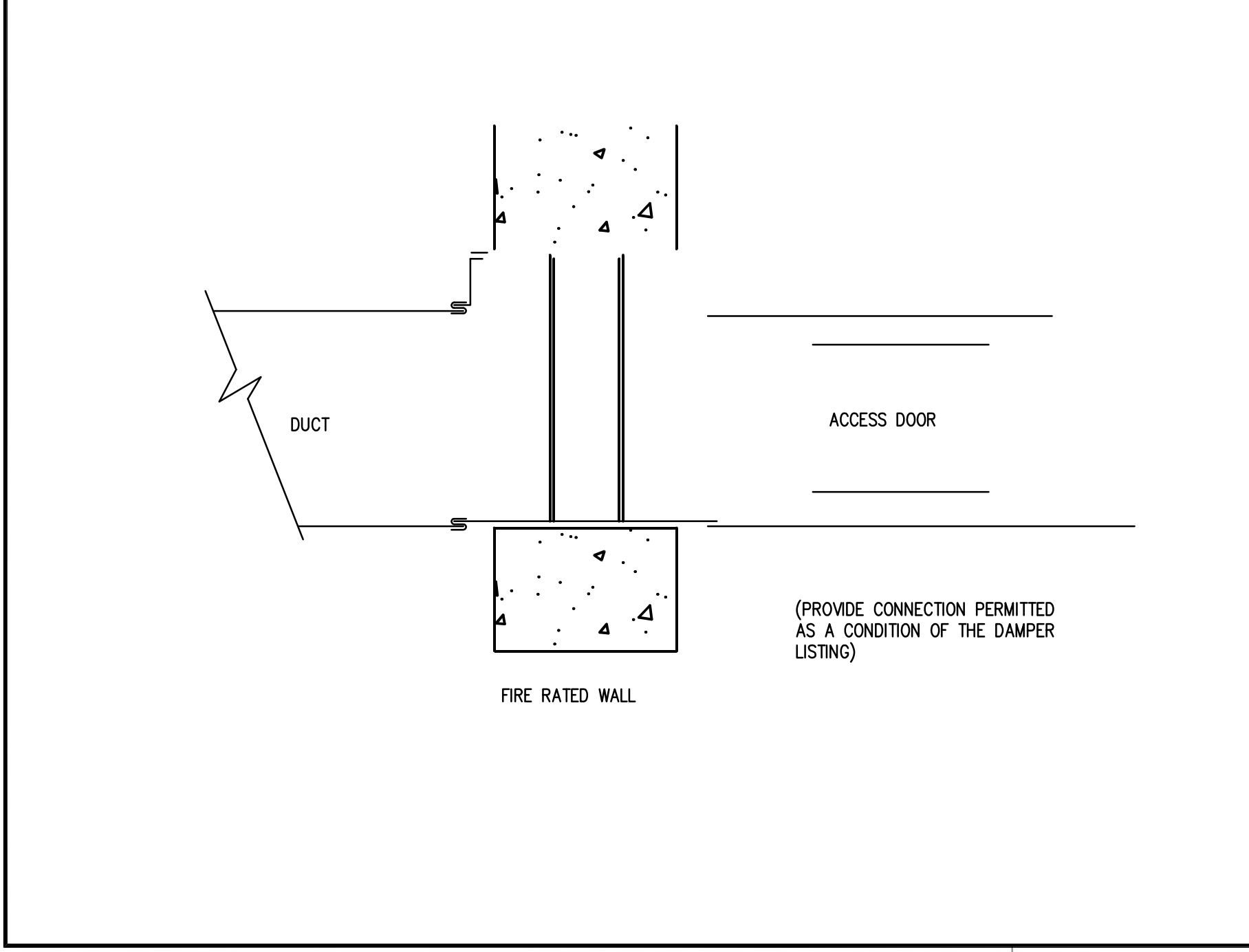


AHU-17, AHU-18 & AHU-20 COIL PIPING DETAIL
SCALE: NTS **2**



NOTES:
1. PIPING TO ALL REHEAT COILS SHALL BE MINIMUM 3/4" UNLESS OTHERWISE NOTED.
2. SEPARATE PIPING SPECIALTIES ARE SHOWN. MODULAR COMPONENTS ARE ACCEPTABLE.

REHEAT COIL PIPING DETAIL
SCALE: NTS **3**



COOLING COIL CONDENSATE TRAP DETAILS
SCALE: NTS **4**

AIR HANDLING UNIT SCHEDULE

MARK	AIR FLOW (CFM)	MINIMUM OA (CFM)	COOLING					HEATING					SUPPLY FAN (HP)	EXTERNAL STATIC PRESS (IN WG)	ELECTRICAL		MODEL	NOTES		
			ENT AIR TEMP (db / wb °F)	LVG AIR TEMP (db / wb °F)	EWT / LWT (°F)	SENS CAP (MBH)	TOTAL CAP (MBH)	WATER FLOW RATE (GPM)	WATER PRESS DROP (FT)	TOTAL CAP (MBH)	EWT / LWT (°F)	EAT / LAT (°F)			WATER FLOW RATE (GPM)	WATER PRESS DROP (FT)			VPHHZ	MCA
AHU-20	21,225	3,500	78.3 / 65.5	54.7 / 54.7	45.0 / 54.3	527.0	678.8	160.0	10.3	651.5	180 / 160	48 / 85	66.7	7.7	20	1.5	460/3/60	33.8	39MN-40W	1, 2, 3
AHU-21	24,970	5,100	79.1 / 66.2	54.2 / 54.2	45.0 / 54.4	651.2	875.4	204.0	12.9	816.9	180 / 160	45 / 83	63.6	9.3	25	1.5	460/3/60	42.5	39MN-S0W	1, 2, 4
AHU-17	7,750	1,500	79.0 / 66.0	54.9 / 54.6	45.0 / 55.0	198.6	260.1	57.0	8.5	388.3	180 / 160	50 / 94.4	40	6.1	7.5	0.75	460/3/60	12.1	39MN-17W	1, 2, 5
AHU-18	2,070	1,000	81.4 / 68.5	54.6 / 54.5	45.0 / 55.0	58.7	87.1	19.0	9.3	163.5	180 / 160	0.0 / 63.6	17	2.5	2.0	1.5	460/3/60	3.6	39MN-06W	1, 2, 5

NOTES:
1. MODEL BASED ON CARRIER.
2. COOLING COIL BASED ON 30% EG.
3. HEATING CFM = 15,920.
4. HEATING CFM = 18,970.
5. ALTERNATE NO. 1.

VARIABLE AIR VOLUME BOX SCHEDULE

MARK	AIR FLOW (CFM)	MIN AIR FLOW (CFM)	INLET SIZE (IN)	REHEAT COIL										MODEL	AREA SERVED	NOTES
				AIR FLOW (CFM)	MAX APD (IN WG)	EAT / LAT (°F)	WATER (GPM)	EWT/LWT (°F)	MAX WPD (FT)	ROWS/ FPI	CAPACITY (MBH)					
VAV-20A	1000	750	10	750	0.28	55 / 95	1.8	180 / 143	0.22	2 / 10	32.5	DESV	-	1		
VAV-20B	1280	425	12	960	0.25	55 / 95	1.9	180 / 134	0.28	2 / 10	41.5	DESV	-	1		
VAV-20C	3205	1050	24/20	2400	0.48	55 / 94	4.5	180 / 134	2.6	2 / 8	100.9	DOCV	-	1		
VAV-20D	1450	485	12	1090	0.31	55 / 95	2.4	180 / 139	0.45	2 / 10	47.3	DESV	-	1		
VAV-20E	770	250	10	580	0.18	55 / 95	1.2	180 / 134	0.16	2 / 10	25.2	DESV	-	1		
VAV-20G1	6760	2250	36/30	5070	0.53	55 / 95	6.0	180 / 106	8.4	2 / 10	219.3	DOCV	-	1		
VAV-20G2	6760	2250	36/30	5070	0.53	55 / 95	6.0	180 / 160	8.4	2 / 10	219.3	DOCV	-	1		
VAV-21A	1140	380	20/10	855	0.34	55 / 95	2.0	180 / 142	0.4	2 / 8	37.2	DOCV	-	1		
VAV-21B	1765	1325	18/15	1325	0.46	55 / 95	3.4	180 / 145	1.0	2 / 8	57.7	DOCV	-	1		
VAV-21C	2000	675	14	1500	0.28	55 / 95	3.0	180 / 135	0.39	2 / 10	65.1	DESV	-	1		
VAV-21D	2000	675	14	1500	0.28	55 / 95	3.0	180 / 135	0.39	2 / 10	65.1	DESV	-	1		
VAV-21E	960	325	10	720	0.26	55 / 95	1.7	180 / 141	0.21	2 / 10	31.2	DESV	-	1		
VAV-21F	1100	370	12	825	0.19	55 / 95	1.5	180 / 131	0.24	2 / 10	35.8	DESV	-	1		
VAV-21G	1100	370	12	825	0.19	55 / 95	1.5	180 / 131	0.24	2 / 10	35.8	DESV	-	1		
VAV-21H1	1455	485	12	1320	0.31	55 / 95	3.7	180 / 148	1.0	2 / 10	57.3	DESV	-	1		
VAV-21H2	6810	2270	36/30	5100	0.54	55 / 95	6.0	180 / 106	8.0	2 / 10	219.6	DOCV	-	1		
VAV-21I2	6640	2215	50/22	5000	0.51	55 / 95	6.0	180 / 106	7.3	2 / 10	219.1	DOCV	-	1		
VAV-18A	990	330	10	500	0.27	55 / 95	1.0	180 / 136	0.12	2 / 10	21.7	DESV	-	1, 2		
VAV-18B	1080	360	12	800	0.12	55 / 95	1.4	180 / 129.9	0.22	2 / 10	34.7	DESV	-	1, 2		

NOTES:
1. MODEL BASED ON TITUS.
2. ALTERNATE NO. 1.

FAN SCHEDULE

MARK	AIR FLOW RATE (CFM)	EXTERNAL S.P. (IN WG)	TYPE	MOTOR (HP)	ELECTRICAL (V/PHHZ)	AREA SERVED	LOCATION	MODEL	NOTES
EF-20	15,000	0.75	CENTRIFUGAL	7.5	208/3/60	AHU-20	RM S1020	SON-B	1, 2, 3
EF-21	17,000	0.75	CENTRIFUGAL	7.5	208/1/60	AHU-21	RM S2008	SON-B	1, 2, 3

NOTES:
1. MODEL BASED ON COOK.
2. PROVIDE WITH SPACE STATIC PRESSURE SPEED CONTROL.

PUMP SCHEDULE

MARK	WATER FLOW RATE (GPM)	HEAD (FT)	TYPE	MOTOR POWER (HP)	ELECTRICAL (V/PHHZ)	MOTOR SPEED (RPM)	SERVICE	MODEL	NOTES
HWP-20	15	15	INLINE	1/6	115/1/60	2963	AHU-20	ECOCIRC-XL	1
HWP-21	20	15	INLINE	1/6	115/1/60	3086	AHU-21	ECOCIRC-XL	1
HWP-17	15	10	INLINE	1/6	115/1/60	2963	AHU-17	ECOCIRC-XL	1, 2
HWP-18	10	10	INLINE	1/6	115/1/60	2393	AHU-18	ECOCIRC-XL	1, 2

NOTES:
1. MODEL BASED ON BELL & GOSSETT.
2. ALTERNATE NO. 1.

WALL LOUVER SCHEDULE

MARK	AIR FLOW RATE (CFM)	SIZE H x L (IN x IN)	VELOCITY (FPM)	PRESSURE DROP (IN WG)	APPLICATION	SERVED BY	LOCATION	MODEL	NOTES
WL-1	41,000	127 X 84	912	0.1	EXHAUST	-	AG-SHOP	ELF6375DX	1, 2, 3, 4.

NOTES:
1. MODEL BASED ON RUSKIN.
2. PROVIDE INSECT SCREEN.
3. COLOR = WHITE.
4. SERVED BY EF-20, EF-21, AHU-18, AHU-17.

DIFFUSERS, REGISTERS AND GRILLES SCHEDULE

MARK	MODEL	SIZE	NECK	DAMPER	MATERIAL	REMARKS
S-1	300RL	12 / 8	-	OBD	ST	1, 2
S-2	300RL	12 / 10	-	OBD	ST	1, 2
S-3	300RL	18 / 10	-	OBD	ST	1, 2
S-4	300RL	24 / 16	-	OBD	ST	1, 2
R-1	350RL	20 / 20	-	-	ST	1, 2

NOTES:
1. MODEL BASED ON TITUS.
2. ALTERNATE NO. 1.