

 $\langle 2
angle$ remove self contained control valve in supply piping. Remove piping from valve down to first floor.

(3) REMOVE SELF CONTAINED CONTROL VALVE. REPLACE WITH STRAIGHT PIECE OF PIPING.

 $\langle 4 \rangle$ EXISTING SUPPLY PIPING TO FIRST FLOOR TO REMAIN.

(5) REMOVE PORTION OF WALL FIN CABINET AND FIN TUBE BACK TO LOCATION OF NEW CHASE. REFER TO ARCHITECTURAL PLAN FOR DIMENSION OF NEW CHASE. REMOVE SELF CONTAINED CONTROL VALVE AND SUPPLY PIPING DOWN TO FIRST FLOOR. NEW CONNECTION WILL BE MADE TO REMAINING FIN TUBE.

(6) REMOVE SELF CONTAINED CONTROL VALVE. REPLACE WITH STRAIGHT PIECE OF PIPING.

(7) EXISTING RETURN PIPING TO FIRST FLOOR TO REMAIN.

(8) REMOVE WALL FIN CABINET AND FIN TUBE INCLUDING CONTROL VALVE AND SUPPLY AND RETURN PIPING DOWN TO FIRST FLOOR, RETAIN FOR REINSTALLATION IN SAME ROOM.

(9) EXISTING SUPPLY AND RETURN SHEET METAL DUCTWORK IN CHASE TO REMAIN.

REMOVE SHEET METAL SUPPLY DUCTWORK BACK TO RISER. NEW CONNECTIONS ARE TO BE MADE TO EXISTING SUPPLY DUCT RISER.

REMOVE SHEET METAL RETURN DUCTWORK BACK TO RISER. NEW CONNECTIONS ARE TO BE MADE TO EXISTING RETURN DUCT RISER.

 $\langle 1
angle$ remove 19 x 19 duct riser to roof exhaust fan. Roof opening to be used for New exhaust duct riser.

(3) 8 X 16 EXHAUST DUCT RISING FROM FIRST FLOOR TO REMAIN.

14 REMOVE HW S AND R PIPING FROM FIRST FLOOR.

(15) REMOVE HW S AND R PIPING ABOVE CEILING.

(6) REMOVE CEILING MOUNTED RECESSED CABINET UNIT HEATER AND REMOTE THERMOSTAT.

⟨↑⟩ REMOVE WALL RECESSED CABINET UNIT HEATER.

(8) REMOVE DAMPER FROM EXISTING RELIEF HOOD. EXISTING CEILING RELIEF GRILLES AND DUCTWORK TO ROOF HOOD TO REMAIN. NEW MOTOR OPERATED DAMPER TO BE INSTALLED.

(19) REMOVE DAMPER FROM EXISTING RELIEF HOOD. REMOVE CEILING RELIEF GRILLES AND TRANSITION DUCTWORK TO DUCT RISER TO ROOF HOOD. DUCT UP TO HOOD TO REMAIN. NEW MOTOR OPERATED DAMPER TO BE INSTALLED.

② EXISTING ROOFTOP AIR CONDITIONING UNIT CONTROLS TO BE REMOVED.

CONTROL FOR SUPPLY DUCT DAMPER TO BE REMOVED.

REMOVE EXISTING BOILER VENT STACK. NEW PVC BOILER AND WATER HEATER VENT STACKS TO BE INSTALLED AT THIS LOCATION.

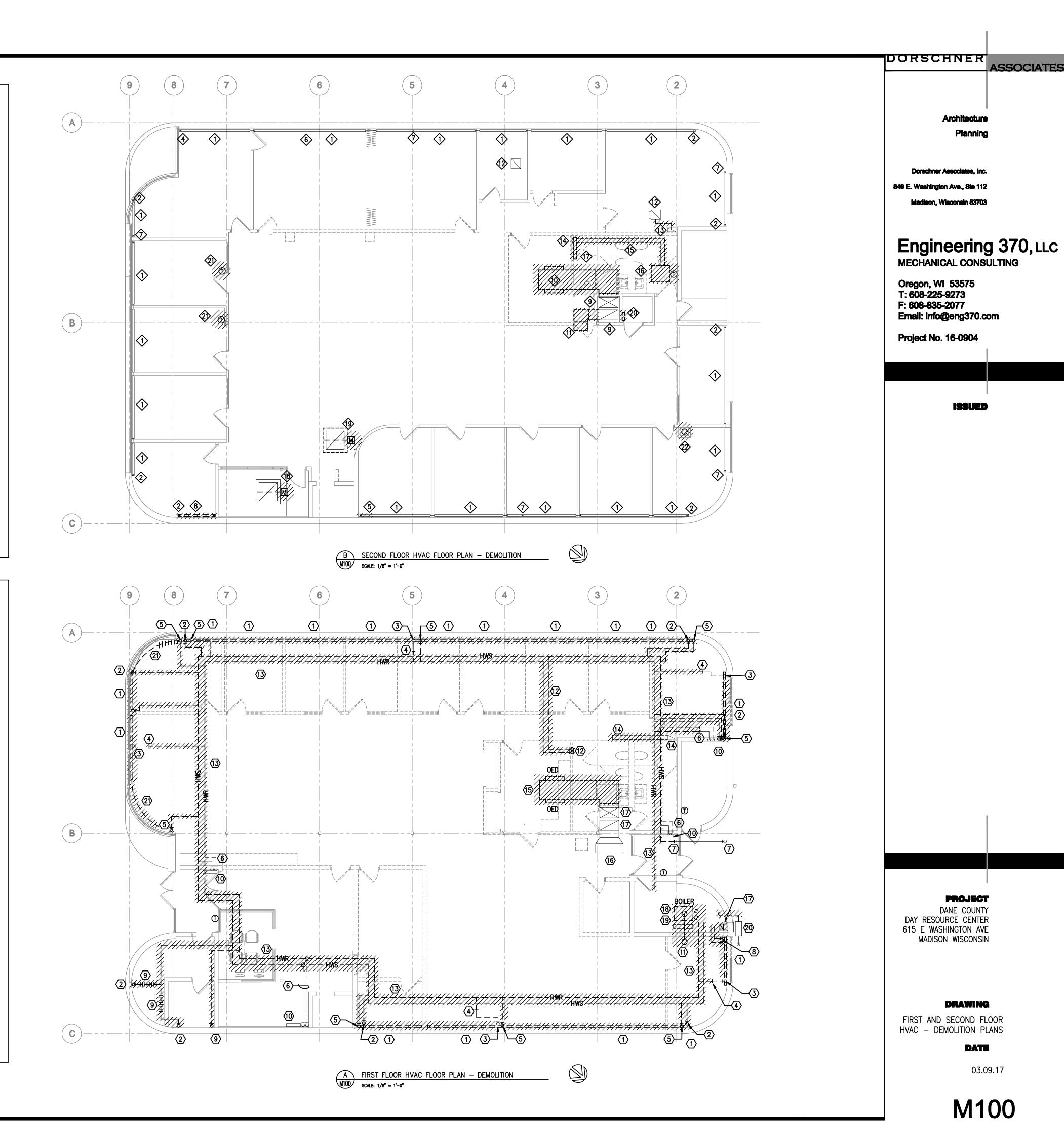
43 SUPPLY PIPING TO FIRST FLOOR TO REMAIN.

FIRST FLOOR PLAN GENERAL DEMOLITION NOTE

- 1. THE OWNER IS REMOVING EXISTING CEILING SUPPLY AND RETURN FIBERGLASS DUCTWORK, EXHAUST GRILLES, FLEXIBLE EXHAUST DUCTWORK, SUPPLY TERMINAL UNITS AND RETURN GRILLS, EXCEPT AS NOTED ON THIS DEMOLITION DRAWING, BEFORE THE START OF THIS PROJECTS CONSTRUCTION.
- 2. ALL EXISTING HOT WATER WALL FIN RADIATION ON THE FIRST FLOOR TO BE REMOVED EXCEPT AS NOTED TO REMAIN.
- 3. RETAIN ALL WALL FIN CABINET END CAPS ON TRIM PARTS TO REPLACE CABINET PARTS MISSING ON EXISTING WALL FIN TO REWAIN ON
- 4. ALL PIPING LOCATIONS SHOWN ARE APPROXIMATE LOCATIONS.

FIRST FLOOR PLAN DEMOLITION KEY NOTES

- (1) EXISTING WALL FIN RADIATION CABINET AND FIN TUBE TO BE REMOVED INCLUDING CONTROL VALVES AND SUPPLY AND RETURN PIPING TO OVERHEAD MAINS.
- $\langle 2 \rangle$ REMOVE SUPPLY PIPING RISING TO WALL FIN ON SECOND FLOOR.
- (3) RETURN PIPING RISING TO WALL FIN ON SECOND FLOOR TO REMAIN.
- REMOVE RETURN PIPING SERVING SECOND FLOOR FROM THIS POINT BACK TO MAIN. NEW CONNECTION TO BE MADE TO REMAINING RETURN TO SECOND FLOOR.
- (5) REMOVE SUPPLY AND RETURN PIPING TO FIRST FLOOR WALL FIN.
- (6) EXISTING SUPPLY AND RETURN PIPING SERVING CABINET UNIT HEATER OR CONVECTOR TO REMAIN FROM THE POINT TO UNIT. NEW
- SUPPLY PIPING TO SECOND FLOOR TO REMAIN FROM VESTIBULE TO RISER TO SECOND FLOOR. NEW CONNECTION TO BE MADE AT
- (8) REMOVE SUPPLY AND RETURN PIPING TO WALL FIN BACK TO MECHANICAL ROOM.
- PREMOVE BARE ELEMENT WALL FIN AT CEILING AND SUPPLY AND RETURN PIPING BACK TO MAINS.
- (10) CABINET UNIT HEATERS AND CONVECTOR TO REMAIN
- (11) BOILER VENT STACK TO BE REMOVED.
- (12) REMOVE SUPPLY AND RETURN PIPING TO SECOND FLOOR.
- ALL HOT WATER SUPPLY AND RETURN PIPING MAINS TO BE REMOVED.
- (14) REMOVE HORIZONTAL 8 X 16 HORIZONTAL DUCT. 8 X 16 RISER TO SECOND FLOOR TO REMAIN FOR NEW CONNECTION.
- (15) REMOVE HORIZONTAL SUPPLY DUCT BACK TO RISER. NEW CONNECTION TO BE MADE TO RISER.
- (16) EXISTING 54 X 14 OPEN END RETURN DUCT TO REMAIN FOR NEW CONNECTION.
- 77 REMOVE COMBUSTION AIR DUCT. AIR TAKE LOUVER TO REMAIN.
- (18) REMOVE BOILER, TWO PUMPS, AND EXPANSION TANK INCLUDING ALL ASSOCIATED HOT WATER PIPING CONTROLS AND ACCESSORIES WITHIN THE MECHANICAL ROOM.
- (19) COORDINATE WITH GENERAL CONTRACTOR FOR REMOVAL OF THE CONCRETE PAD UNDER THE BOILER.
- UTILITY GAS METER. REMOVE GAS PIPING FROM METER INTO BUILDING AND REMOVE ALL GAS PIPING IN MECHANICAL ROOM.
- (21) UNDERFLOOR PIPING FROM RISER TO WALL FIN. REMOVE PIPING AT RISER WALL FIN AND CLOSE OPENINGS TO BELOW FLOOR TO PERMIT



M100

DATE

03.09.17

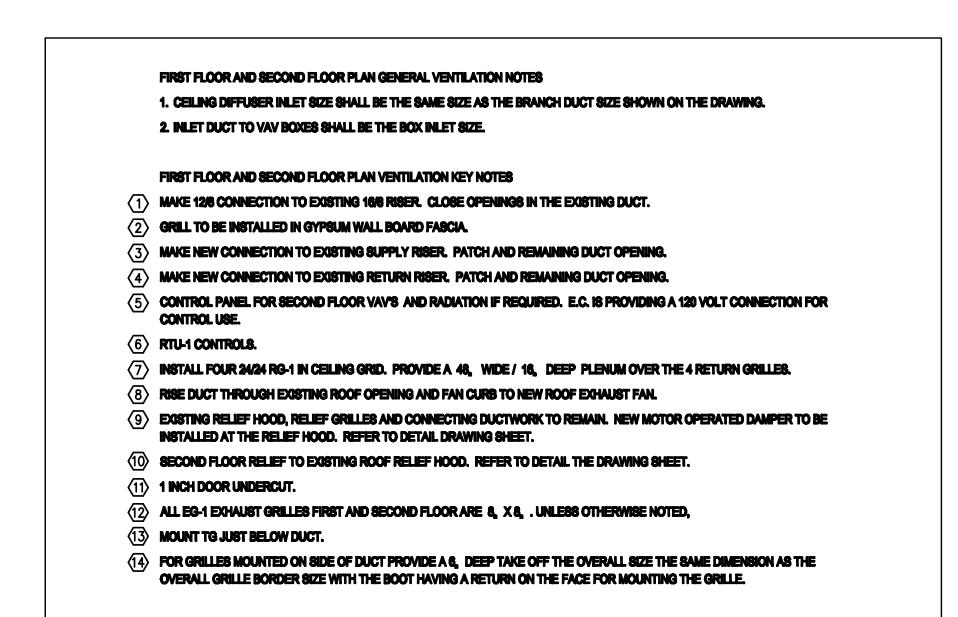
PROJECT DANE COUNTY

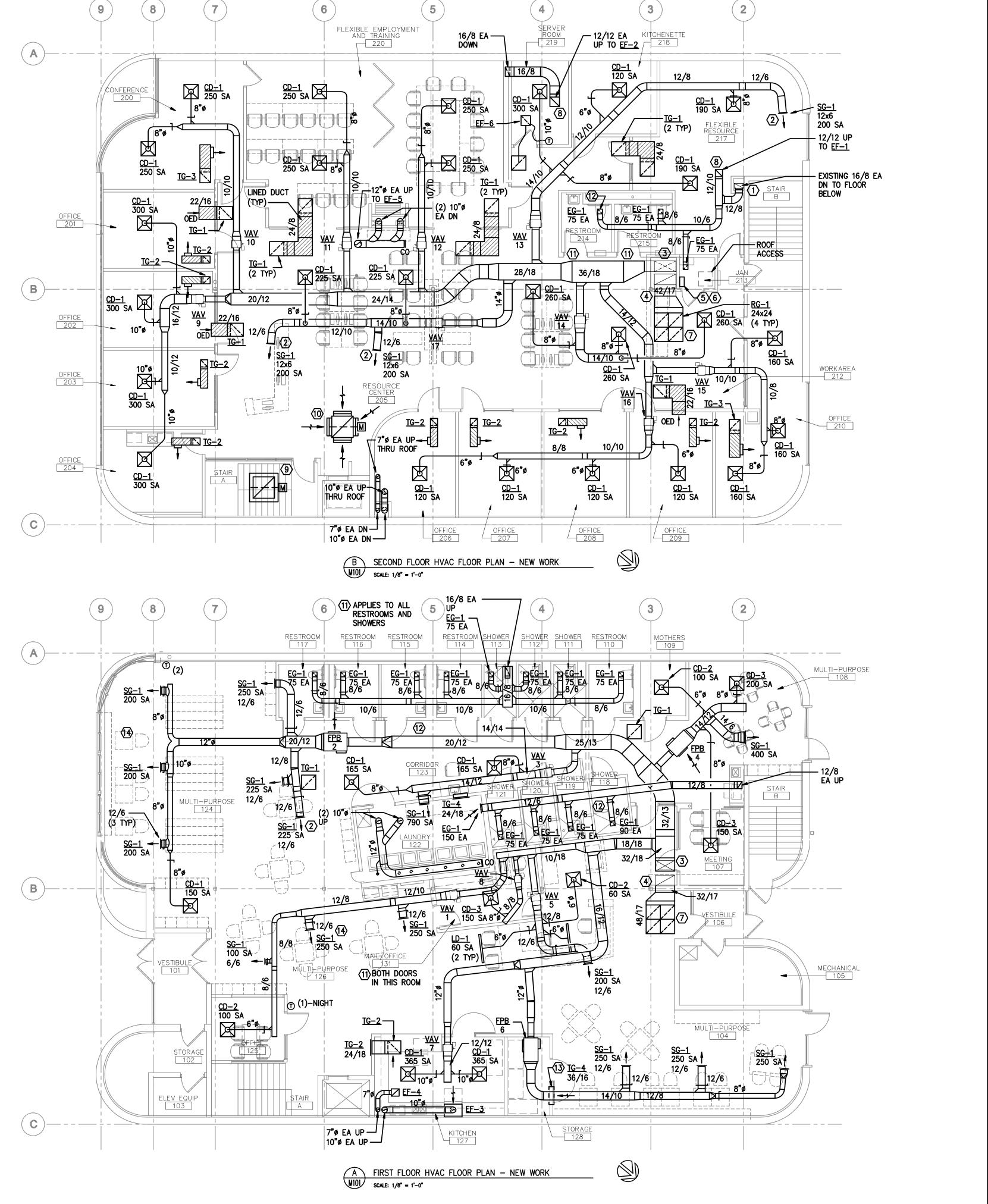
DRAWING

ASSOCIATES

Architecture

Planning





Engineering 370, LLC MECHANICAL CONSULTING Oregon, WI 53575 T: 608-225-9273 F: 608-835-2077 Email: info@eng370.com Project No. 16-0904 **ISSUED PROJECT** DANE COUNTY DAY RESOURCE CENTER 615 E WASHINGTON AVE MADISON WISCONSIN **DRAWING** FIRST AND SECOND FLOOR HVAC PLANS - NEW WORK DATE 03.09.17 M101

DORSCHNER

Architecture

Madison, Wisconsin 53703

Planning

ASSOCIATES

SECOND FLOOR PIPING PLAN GENERAL NOTES

- 1. EXISTING WALL FIN CABINET AND FIN TUBE IS TO REMAIN WITH MINOR REVISIONS TO THE CABINET AND PIPING AS NOTED.
- 2. REFER TO VAV BOXE SCHEDULE FOR HOT WATER GPM FOR EACH UNIT.
- 3. BRANCH PIPING SIZES TO ALL VAV'S IS 1/4 INCH.
- 4. REFER TO DRAWING A300 FOR REFLECTED CEILING PLANS AND E300 FOR LIGHTING PLANS.
- 5. WHERE PIPING IS LOCATED IN AREAS OF EXPOSED STRUCTURE COORDINATE LOCATIONS OF PIPING WITH LIGHTING. REFER TO
- 6. ALL VALVES SHALL BE LOCATED IN EXPOSED PIPING OR ABOVE ACCESSIBLE CEILINGS.

SECOND FLOOR PIPING PLAN KEY NOTES

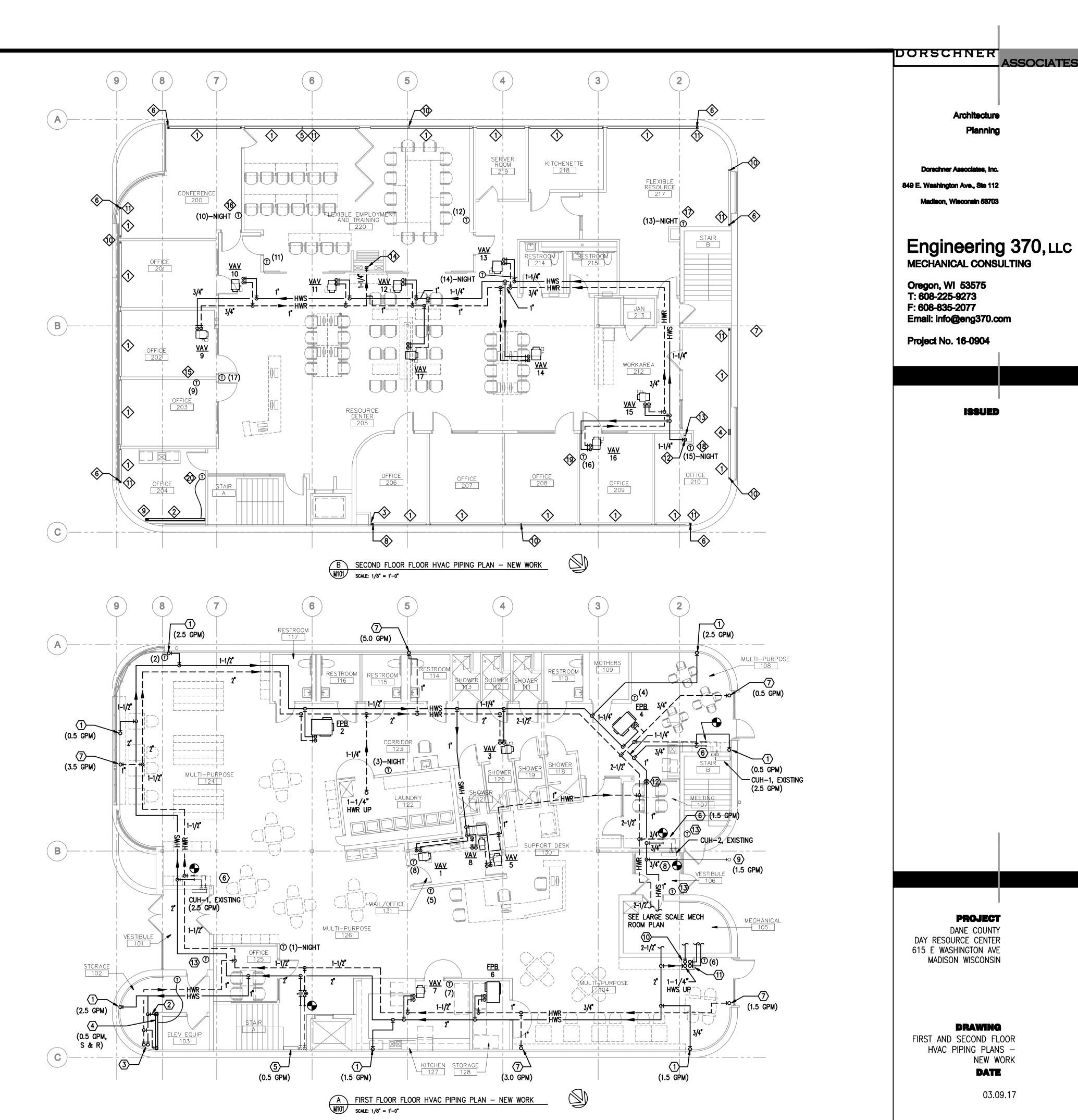
- (1) EXISTING WALL FIN RADIATION TO REMAIN.
- $\langle 2
 angle$ existing wall fin cabinet and fin tube to be reinstalled with additional cabinet removed from first floor to be installed
- $\langle 3 \rangle$ Wall fin removed to permit construction of New Chase. Cut fin and cabinet and install end trim Piece.
- $\langle 4
 angle$ install cabinet section and trim pieces remover from first floor to enclose piping where wall was removed.
- $\langle 5
 angle$ location of removed control valve. Install section of PIPE to connect PIPEs at valve location.
- $\langle 6
 angle$ new supply pipe connection to fin tube with-in cabinet. Refer to wall fin piping detail.
- $\langle 7 \rangle$ LOCATION OF REMOVED CONTROL VALVE. INSTALL SECTION OF PIPE TO CONNECT PIPES AT VALVE LOCATION. EXISTING SUPPLY PIPING IN SOFFIT BELOW TO REMAIN INTO VESTIBULE 106.
- (8) NEW LOCATION OF SUPPLY FROM BELOW. CONNECT TO SHORTENED FIN TUBE PIPING.
- (9) NEW SUPPLY PIPING RISING FROM STORAGE ROOM BELOW. RETURN PIPING TO RUN IN CABINET AND DROP TO STORAGE ROOM ADJACENT TO
- (1) LOCATION OF EXISTING RETURN DROP. REFER TO WALL FIN PIPING DETAIL.
- (1) COVER OPENINGS WHERE SELF-CONTAINED CONTROL VALVES WERE REMOVED WITH TRIM PIECES REMOVED FROM FIRST FLOOR.
- $\sqrt{2}$ 1-1/4 INCH HOT WATER SUPPLY RISER FROM FIRST FLOOR.
- 43 1-1/2 INCH NATURAL GAS PIPING FROM MECHANICAL ROOM RISING TO ROOF.
- $\langle 14 \rangle$ 1-1/4 INCH HOT WATER RETURN DROP TO FIRST FLOOR.
- $\langle 15 \rangle$ Thermostat also controls wall fin radiation in rooms 201 Through 204.
- $\langle \hat{0} \rangle$ THERMOSTAT ALSO CONTROLS WALL FIN RADIATION IN ROOMS 200 AND 220
- $\langle 18 \rangle$ THERMOSTAT ALSO CONTROLS WALL FIN RADIATION IN ROOM 210.
- 4 THERMOSTAT ALSO CONTROLS WALL FIN RADIATION IN ROOMS 206 THROUGH 209.
- THERMOSTAT CONTROLS RELOCATED WALL FIN RADIATION IN ROOM 204.

FIRST FLOOR PIPING PLAN GENERAL NOTES:

- 1. REFER TO VAY BOXES AND VAN POWERED VAY BOXES (FPB) FOR HOT WATER GPM FOR EACH UNIT.
- 2. BRANCH PIPING SIZES TO ALL VAV'S IS 1/4 INCH.
- 3. BRANCH PIPING SIZES TO FPB-2 IS 1 INCH, FPB-4 IS 1/4 INCH AND FPB-6 IS 1-1/4 INCH.
- 4. REFER TO DRAWING A300 FOR REFLECTED CEILING PLANS AND E300 FOR LIGHTING PLANS.
- 5. WHERE PIPING IS LOCATED IN AREAS OF EXPOSED STRUCTURE COORDINATE LOCATIONS OF PIPING WITH LIGHTING. REFER TO
- 6. ALL VALVES SHALL BE LOCATED IN EXPOSED PIPING OR ABOVE ACCESSIBLE CEILINGS.

FIRST FLOOR PIPING PLAN KEY NOTES:

- SUPPLY PIPING UP TO EXISTING WALL FIN RADIATION. SEE WALL FIN PIPING DETAIL FOR ISOLATION/SHUT OFF VALVES AND CONTROL VALVE.
- (2) 3/4 INCH SUPPLY TO RELOCATED WALL FIN IN THIS ROOM. PROVIDE CONTROL VALVE WITH BALL VALVE ON INLET AND OUTLET. EXTEND PIPING AND DROP EXPOSED IN CORNER TO FIN TUBE.
- (3) % INCH SUPPLY AND RETURN UP TO RELOCATED WALL FIN. SEE WALL FIN PIPING DETAIL
- $\overline{4}$ RELOCATED SIX FOOT WALL FIN CABINET AND FIVE FEET OF FIN TUBE.
- (5) 3/4 INCH SUPPLY AND RETURN TO EXISTING CONVECTOR. PROVIDE CONTROL VALVE WITH BALL VALVE ON INLET AND OUTLET AND BALL VALVE ON RETURN CONNECT TO EXISTING PIPING AT CEILING.
- (6) CONNECT TO EXISTING % INCH PIPING AT CEILING SERVING EXISTING CABINET UNIT HEATER.
- 7 RETURN PIPING FROM SECOND FLOOR WALL FIN. SEE WALL FIN PIPING DETAIL.
- (8) CONNECT TO EXISTING % INCH SUPPLY WITH CONTROL AND ISOLATION VALVE LOCATED ABOVE VESTIBULE CEILING. SEE WALL FIN PIPING
- $\langle 9 \rangle$ EXISTING PIPING UP TO WALL FIN.
- (10) 1-1/2 INCH NATURAL GAS RISER TO ROOF. SEE GAS PIPING DETAIL
- TWO 3 INCH PVC BOILER VENTS RISE IN CHASE THROUGH SECOND FLOOR AND TERMINATE ON ROOF PER MANUFACTURERS REQUIREMENTS.
- 12 HOT WATER SUPPLY PRESSURE SENSOR.
- (13) REPLACE EXISTING THERMOSTAT CONTROLLING EXISTING CABINET UNIT HEATER.



DATE 03.09.17

NEW WORK

DRAWING

PROJECT

DANE COUNTY

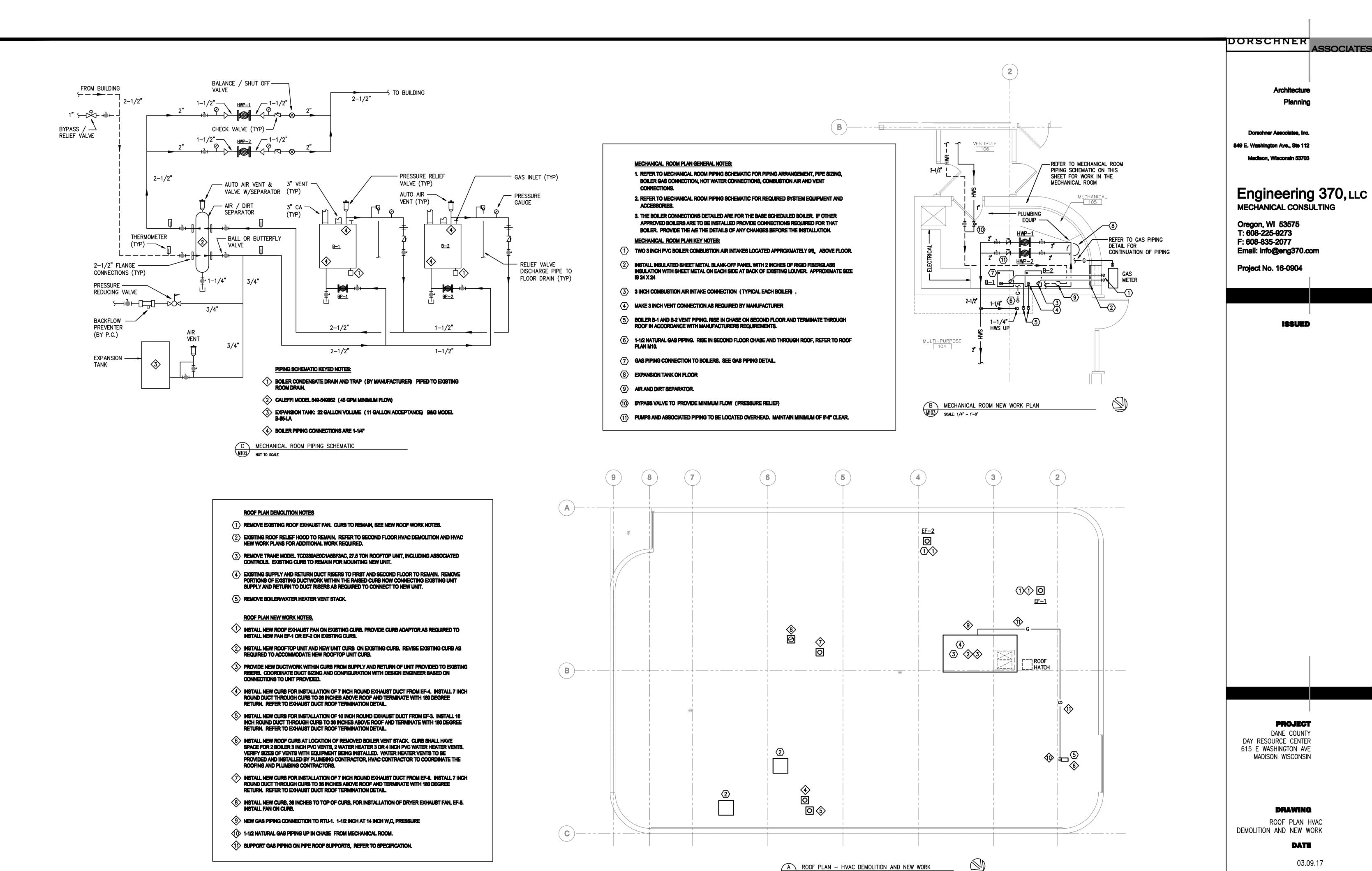
ASSOCIATES

Architecture

Planning

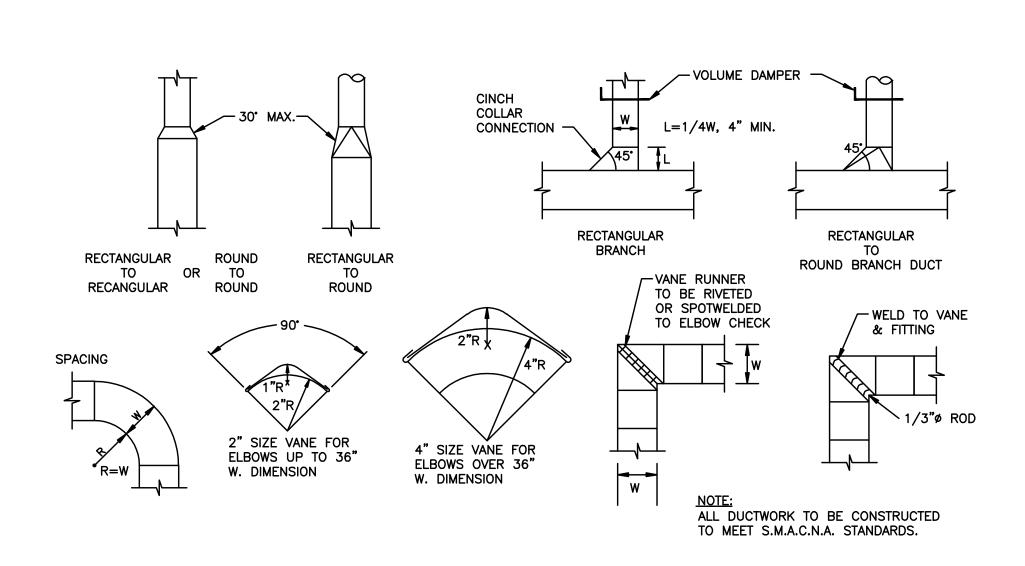
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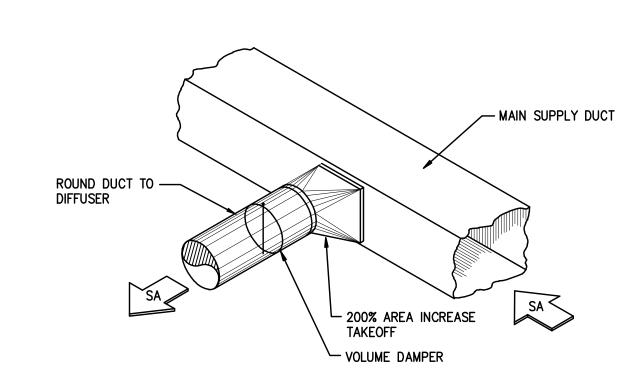
M102



M103 SCALE: 1/8" = 1'-0"

M103



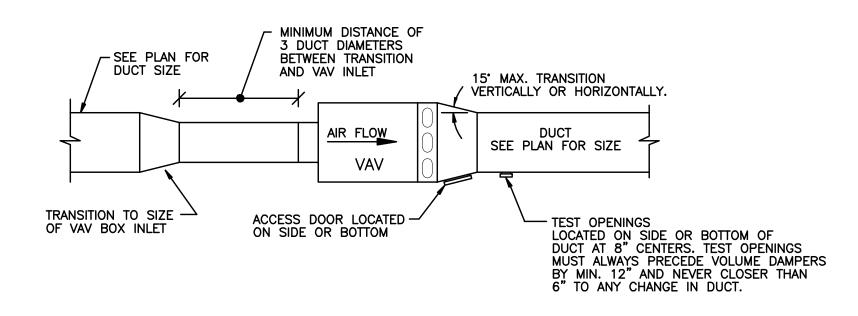


J GENERAL DUCT DETAILS

M104 NOT TO SCALE

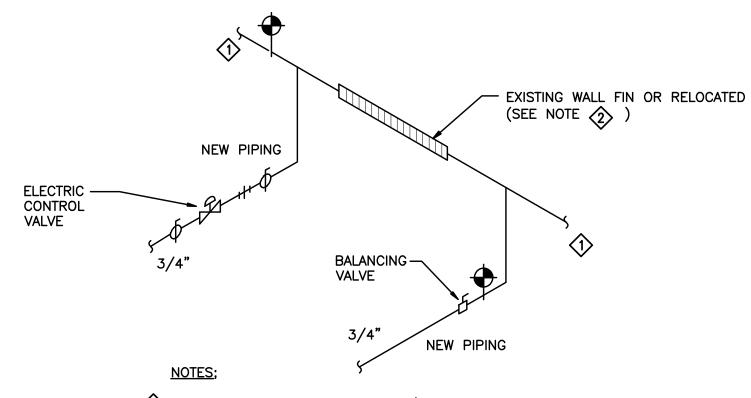
BRANCH DUCT TAKEOFF DETAIL

NOT TO SCALE



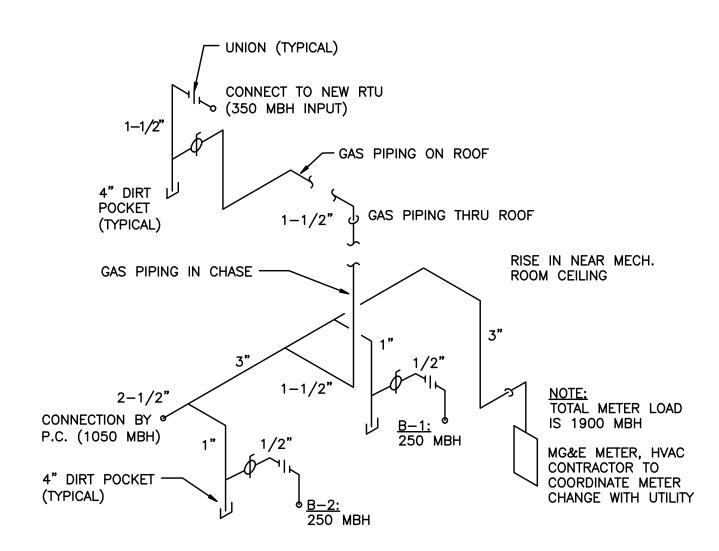
H VARIABLE AIR VOLUME BOX DETAIL (VAV & FPB SIMILAR)

NOT TO SCALE

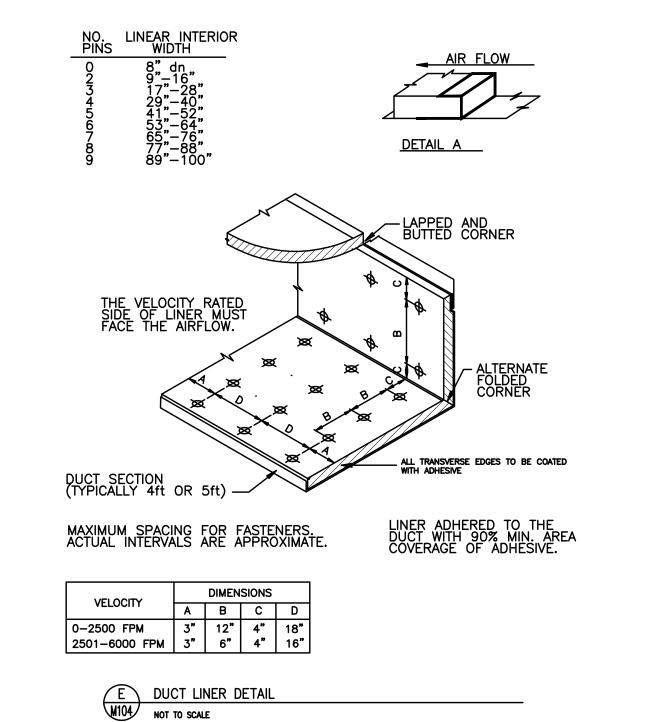


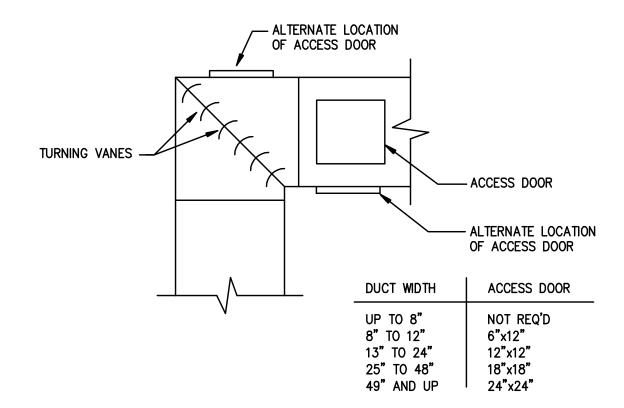
- AT SOME LOCATIONS SUPPLY AND/OR RETURN ALSO SERVES ADJACENT FIN TUBE.
- SEE PLANS FOR LOCATIONS OF RELOCATED OR MODIFIED FIN TUBE.
- CONNECT TO SUPPLY WHERE EXISTING CONTROL VALVE WAS REMOVED.





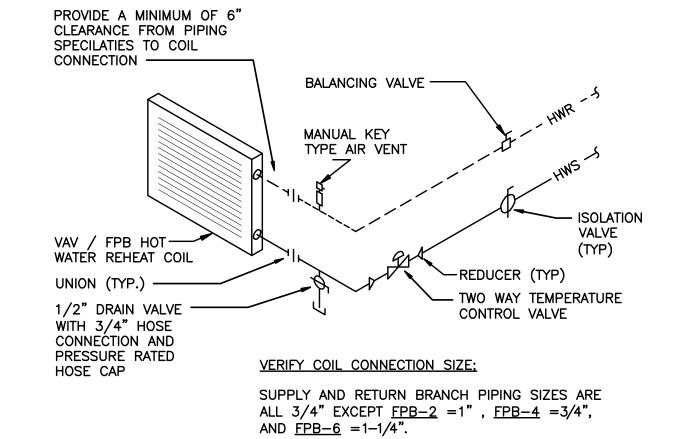






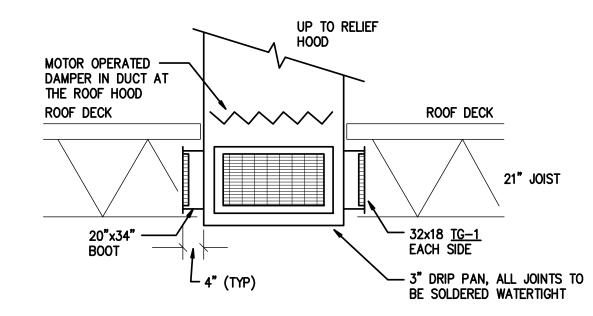
D TURNING VANE ACCESS DETAIL

M104 NOT TO SCALE



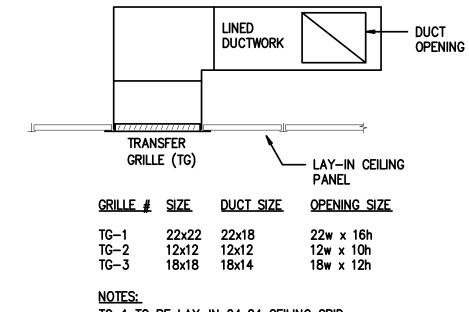
C HOT WATER REHEAT COIL PIPING DETAIL

M104 NOT TO SCALE



B SECOND FLOOR RELIEF HOOD DETAIL

NOT TO SCALE



NOTES:

TG-1 TO BE LAY-IN 24x24 CEILING GRID

TG-2 TO BE CENTERED IN 24x24 CEILING PANEL

A TRANSFER GRILL AND DUCT DETAIL

M104 NOT TO SCALE

Architecture
Planning

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Project No. 16-0904

DANE COUNTY
DAY RESOURCE CENTER
615 E WASHINGTON AVE
MADISON WISCONSIN

DRAWINGHVAC DETAILS

DATE

M104

03.09.17

								VARIABI	_E AI	R VOI	LUME S	INGLE I	DUCT TE	RMIN	IAL UI	NITS	SCHEDULE								
												В	ASE UNIT												
RESUL		UNIT		DESIGN	MIN	APD @	COOLING	VALVE	PRIMA		COIL	HEATING	HEATING	HEATIN	COIL			НОТ	ROOM		PROPORTION		PIPING	COOLING	
	QUANTIT	MODE	PRIMARY	COOLING	COOLING	COOLING	INLET	HEATING	RY	UNIT	HEATING	FLOW	ENT FLUID	G		HEATIN		WATER	HEAT	UNIT	AL WATER		PACKAG	INLET	COMMENTS
TAGS		L	INLET	AIRFLOW	AIRFLOW	AIRFLOW	VELOCITY	AIRFLOW	EDB		CAPACITY	RATE	TEMP	DELTA	PD	G CV	HOT WATER COIL	VALVES?	LOSS	INSULATION	VALVE	GPM	E	DIAMETER	
		-		CFM	CFM	IN H2O	FT/MIN	CFM	F	F	МВН	GPM	F	F	FT H2O	NUMBER	₹		МВН						
VAV-1	1	VCWE	8" (203MM)	600	180	0.162	1719	300	55	88.18	10.8	0.5	180	43.18	0.65	0.94	ROW HOT WATER COI	NO	4.29	1" FOIL FACED	NONE	NONE	NONE	8"	
		1	(200)	000	100	0.102			"	100.10		0.0		10.10	0.00	0.01	non non maza do.		7.20		, ronz				
VAV-3	1	VCWF	10" (254MM)	1100	330	0.437	2017	550	55	100	26.84	1.01	180	52.91	0.18	3.59	ROW HOT WATER COI	NO	14.92	I" FOIL FACED	NONE	NONE	NONE	10"	
VAV-5	1	VCWF	6" (152MM)	380	114	0.136	1935	190	55	92.88	7.81	0.5	180	31.2	0.49	1.09	ROW HOT WATER COI	NO	3.69	1" FOIL FACED	NONE	NONE	NONE	6"	
VAV-7	1	VCWF	8" (203MM)	630	189	0.176	1805	315	55	90	11.96	0.68	180	35.38	1.1	0.98	ROW HOT WATER COI	NO	5.13	1" FOIL FACED	NONE	NONE	NONE	8"	
			(======,									,													
8-VAV	1	VCWF	5" (127MM)	150	45	0.025	1100	85	55	115.4	5.56	0.5	180	22.23	0.48	1.09	ROW HOT WATER COI	NO	3.72	1" FOIL FACED	NONE	NONE	NONE	5"	
		1																							
VAV-9	1	VCWE	10" (254MM)	1200	360	0.506	2200	600	55	96.95	27.3	0.99	180	54.92	0.18	3.59	ROW HOT WATER COI	NO	14.29	1" FOIL FACED	NONE	NONE	NONE	10"	
77.0		1	(20111111)	.200		0.000	2200		"	100.00	21.10	0.00	,,,,	0 1.02	0.10	0.00	THE THE THE THE TENT		11.20		110112	NO.LL			
VAV-10	1	VCWF	8" (203MM)	500	150	0.12	1432	250	55	103	13	2.27	180	11.43	9.1	1.14	ROW HOT WATER COI	NO	7.58	1" FOIL FACED	NONE	NONE	NONE	8"	
VAV-11	1	VCWF	6" (152MM)	500	150	0.231	2546	225	55	89.24	8.36	0.5	180	33.4	0.49	1.09	ROW HOT WATER COI	NO	3.48	1" FOIL FACED	NONE	NONE	NONE	6"	
VAV-12	1	VCWF	6" (152MM)	500	150	0.231	2546	225	55	89.24	8.36	0.5	180	33.4	0.49	1.09	ROW HOT WATER COI	NO	3.48	I" FOIL FACED	NONE	NONE	NONE	6"	
			(_	
VAV-13	1	VCWF	10" (254MM)	990	297	0.22	1815	400	55	91.88	16	0.71	180	45.15	1.65	0.84	ROW HOT WATER COI	NO	7.33	1" FOIL FACED	NONE	NONE	NONE	10"	
		1								-															
VAV-14	1	VCWE	8" (203MM)	780	234	0.252	2235	350	55	85.18	11.46	0.5	180	45.82	0.65	0.94	ROW HOT WATER COI	NO	3.87	1" FOIL FACED	NONE	NONE	NONE	8"	
	•	1	_ (255,1111)	. 30								5.0	.50		2.00	5.04			2.07						
VAV-15	1	VCWF	8" (203MM)	480	144	0.112	1375	240	55	99.57	11.6	1.03	180	22.39	2.29	1.04	ROW HOT WATER COI	NO	6.4	1" FOIL FACED	NONE	NONE	NONE	8"	
VAV-16	1	VCWF	6" (152MM)	480	144	0.213	2445	240	55	90.73	9.3	0.69	180	27.1	0.84	1.14	ROW HOT WATER COI	NO	4.1	1" FOIL FACED	NONE	NONE	NONE	6"	
VAV-17	1	VCWF	8" (203MM)	850	255	0.551	2435	425	55	105	23.05	1.64	180	28.13	0.21	5.38	ROW HOT WATER COI	NO	13.83	1" FOIL FACED	NONE	NONE	NONE	8"	

			l	CAPACITY	,			FAN				AMBIENT	NO OF	NO. OF		FLECTE	RICAL DATA	1
MARK	LOCATION	MANUFACTURER			COOLING	HEATING	G MBH	3.5.00	EXT SP	HP	REFRIG	THE RESERVE OF THE PERSON NAMED IN	COMPRESS	THE PART OF THE PARTY	EER / IEER			REMARKS
				TONS	TOTAL MBH	INPUT	OUTPUT		IN. WC		TYPE	°F		FANS			PHASE	
RTU-1	SEE PLAN	TRANE	YCD330 E STAGE	27.5	347	350	280	11,000	1.5	7.5	410A	95	3	3	11 - 13.6	162.88	208/3	1, 2, 3
	REMARKS																	
		5 STAGES OF																
			IN DISCONNECT: 17 ROL vav (dtc) W/O E		V/SGAFT GI	ROUNDIN	1G											
			UPPLY, UPFLOW F		100 00 00 00 00 00 00 00 00 00 00 00 00													
	5	NO RELIEF (RE	LIEF IS THROUGH	EXISTING	BUILDING R	ELIEF												
	6	14" N ATURAL	GAS PRESSURE															

ONDE	ENSING BOIL	LERS														
									COMB			BOILER				REMAR
TAG	MANUFACTURER	MODEL NUMBER	TYPE	FUEL	INPUT MBH	OUTPUT MBH	DOE AFUE	FLUE OUTLET	AIR INLET	WATER FLOW	RELIEF VALVE	P[RESSURE RATING	GAS PRESSURE	TOTAL AMPS	VOLTS/ PHASE	
		NOWBER				DOE HEATING		SIZE	SIZE	GPM	PSI	PSI	FRESSORE	AWIFS	FIASE	
B-1	INTI	TRINITY tft 250	CONDENSING	NAT GAS	31-250	230	95	3 INCH	3 INCH	18	30	160	14" WC	< 12 AMPS	120/1	1
B-2	INTI	TRINITY tft 250	CONDENSING	NAT GAS	31-250	230	95	3 INCH	3 INCH	18	30	160	14" WC	< 12 AMPS	120/1	1
	REMARKS															
	1 PVC COMBUSTION	AIR AND VENTING.	INSTALLED PER	MANUFACT	JRERS REQ	UIREMENTS										

	FANSC	HEDULE												
				FAN PERF	ORMANCE	FAN DATA					MOTOR DAT	A		
MARK	LOCATION	MANUFACTUR	MODEL NO.	AIR FLOW	EXT STATIC	FAN	DRIVE	RPM	TIP	OUTLET	BHP	HP	VOLTS /	REMARKS
				(CFM)	PRESS	TYPE	TYPE		SPEED	VEL.OCITY			PHASE	
EF-1	ABOVE 217	GREENHECK	G-103-A	690	0.55	PRV	DIRECT	1349	3929		0.13	1/4	120/1	1
EF-2	ABOVE 219	GREENHECK	G-103-A	600	0.55	PRV	DIRECT	1304	3796		0.11	1/4	120/1	1
EF-3	127	BROAN	QP4 36 INCH	360 HIGH		RANGE HOOD	DIRECT				3.5 AMPS		120/1	2
EF-4	127	GREENHECK	SP-A-290	200	0.5	CEILING	DIRECT	1050			87 WATTS		120/1	3
EF-5	205	ENERVEX	EFV-315	1500		DRYER ROOF	DIRECT	1600				1/2	120/1	5
EF-6	21	GREENHECK	SP-A-510	425	0.25	CEILING	DIRECT	1050			224 WATTS		120/1	4
	REMARKS					ALANCING, LINE								
				HREE SPEE	D CONTROL II	NTEGRAL TO FAI	N, TOP O	UTLET, 4.5	SONES AT	HIGH SPEED,	STAINLESS	STEEL	FINISH, FIL	TERS
			AFT DAMPER,											
		3. 3.5 SONE												
		4. 4.5 SONE			0T 00 UTD 01	\	000451			0.455 4 1405				
						WITH ALL NECE	SSSARY	ACCESSO	RIES TO PR	OVIDE A MOL	DULATING EX	HAUST		
		FOR EXH	AUSTING 7 LAI	JNDRY DRY	ERS									

MARK	MANUFACTURER	MODEL NO.	DESCRIPTION	MATERIAL	MOUNTING	AIR	SIZE	DAMPER	APD	ACCESSORIES	REMARKS
						PATTERN			MAX " W.C.		
CD-1	CARNES	SFPA -24	PLAQUE	STEEL	T BAR	4 WAY	24 X 24	NO	0.05		1, 2
CD-2	CARNES	SFPA 11	PLAQUE	STEEL	T BAR	3 WAY	12 X 12	NO	0.05		1, 2
CD-3	CARNES	SFPA 24	PLAQUE	STEEL	T BAR	3 WAY	24 X 24	NO	0.05		1, 2
SG-1	CARNES	RSDBH	DOUBLE DEFLECTION	STEEL	WALL OR DUCT	22-1/2 DEGREE	SEE PLAN	YES	0.05		
RG-1	CARNES	RAPAC	1/2X1/2X1/2 EGG CRATE	ALUM	TBAR		24 X 24	NO	0.05		4
EG-1	CARNES	RNJMH	1/2" BLADE SPACING	ALUM	FLANGE CEILING	45 DEG SETTING	8 X 8	YES	0.05		3
EG-2	CARNES	RNJMH	1/2" BLADE SPACING	ALUM	FLANGE WALL	45 DEG SETTING	SEE PLAN	YES	0.05		
TG-1	CARNES	RAPAF	1/2X1/2X1/2 EGG CRATE	ALUM	FLANGE IN T BAR		22 X 22	NO	0.05		5
TG-2	CARNES	RAPAF	1/2X1/2X1/2 EGG CRATE	ALUM	FLANGE		12 X 12	NO	0.05		5
TG-3	CARNES	RAPAF	1/2X1/2X1/2 EGG CRATE	ALUM	FLANGE		18 X 18	NO			5
TG-4	CARNES	RAJMH	1/2" BLADE SPACING	ALUM	FLANGE	45 DEG SETTING	SEE PLAN	NO	0.05		6
LD-1	CARNES	DASC-06-48-D-1-R-06-V	ONE 1-1/2" SLOT		WOOD CEILING		1-1/2 SLOT 48"	YES			7
	REMARKS										
1	ROUND NECK, S	IZE AS INDICATED BY SIZE	OF SUPPLY DUCT								
2	OVER-ALL SIZE I	FOR 24 X 24 LAY-IN									
3	DAMPER FOR A	LL CEILING MOUNTED RES	TROOM AND SHOWER RO	OOM EXHA	UST GRILLES						
4	CORE ONLY FOR	R T BAR MOUNTNG									
5	REFER TO TRAN	ISFER GRILLE AND DUCT D	FTAII								

PUMI	PS													
							CAPACITY	HEAD	RPM	BHP	l HP	VOLT/PHASE		REMARKS
TAG	TYPE	SERVICE	MANUFACTURER	MODEL	IMPELLER	TYPE	GPM	(FT -H2O						
BP-1	INLINE	BOILER PRIMARY	BELL &GOSSETT	NRF-36		WET ROTOR	18	18	3300		270 W; 2.3 FLA	120/1		
BP-2	INLINE	BOILER PRIMARY	BELL & GOSSETT	NRF-36		WET ROTOR	18	18	3300		270 W; 2.3 FLA	120/1		
HWP-1	INLINE	BUILDING SECONDARY HOT WATER	BELL & GOSSETT	SERIES e-60 1.5x6.25	6.125	CENTRIFUGAL	. 22	38	1750	0.48	1	208/3	YES	
HWP-2	INLINE	BUILDING SECONDARY HOT WATER	BELL & GOSSETT			CENTRIFUGAL	. 22	38	1750	0.48	1	208/3	YES	
	REMARKS													

					,		V	AV F	ΑN	P	DW	ERE	D T	ER	MIN	AL U	NI'	TS S	СН	EDI	JLE				
															BASE	UNIT									
RESULT TAGS	QUANTITY	MODEL NUMBER		PRIMARY	DESIGN	MIN	COOLING	APD @	EAN	FAN	FAN	%OF FAN	MOTOR		UNIT	VALVE HEATING	UAUT	COIL HEATING	200.000	COIL	HEATIN G ENT	NG			COMMENTS
			M ODE	INLET		COOLING AIRFLOV		AIRFLOV			FAN TSP	E	E			AIRFLOV	l		RATE		TEMP	T	HEATING CV	HOT V ATER COIL	
					CFM	CFM	FT/MIN	IN H2 O		CFM	IN H2 O	%		HP	CFM	CFM	F	мвн	GPM	FT H2O	F	F	NUMBER		
/AV-2	1	VSWF12	VSWF	12"	1450	435	1846	0.08	06SQ	1450	0.572	71	208	0.5	1450	4 50	95	41.21	1.76	1.01	18 0	46.95	2.66	ONE ROW HOT WATER COIL ON DISCHARGE - LH	
V A V -4	ì	VSWF10	VSWF	10"	8 50	2 55	1558	0.01	06SQ	8 50	0.529	43	208	0.5	8 50	300	95	24.94	0.8	0.25	180	62.55	2.42	ONE ROW HOT WATER COIL ON DISCHARGE - LH	
AV-6	1	VSWF10	VSWF	10"	750	225	1375	0.01	06SQ	750	0.524	23	208	0.5	750	750	110	44.74	7.15	12.56	18 0	12.49	3.06	ONE ROW HOT WATER COIL ON DISCHARGE - LH	

Architecture
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Project No. 16-0904

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PROJECT

DANE COUNTY

DAY RESOURCE CENTER

615 E WASHINGTON AVE

MADISON WISCONSIN

DRAWING

HVAC SCHEDULES

DATE

03.09.17

M105