

- DRAWING NOTES**
- EXISTING ROOF MOUNTED LAB HOOD EXHAUST FAN BE REMOVED AND REPLACED WITH NEW. EXISTING CONTROL WIRING, POWER WIRING, DISCONNECT SWITCH, CURB, BACKDRAFT DAMPER AND DUCTWORK TO REMAIN. EXTEND ALL EXISTING UTILITIES NEW FAN. REFER TO FAN SCHEDULE FOR ADDITIONAL INFORMATION.
 - EXISTING DUCTWORK TO REMAIN.
 - EXISTING VAV TERMINAL BOX TO REMAIN.
 - EXISTING AIR DEVICE TO REMAIN.
 - EXISTING TRANSFER OPENING TO REMAIN.
 - EXISTING THERMOSTAT TO REMAIN.



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Alterations 2022 Project at:
Piqua High School
1 Indian Trail
Piqua, Ohio 45356
Piqua City Schools

Print Record
01/24/22 BID SET
02/02/22 PERMIT SET
02/10/22 ADDENDUM #3

Project Number
2021131

Date
JANUARY 24, 2022

Sheet Title
ENLARGED CLASSROOMS
208, 227 & 229 - NEW
WORK

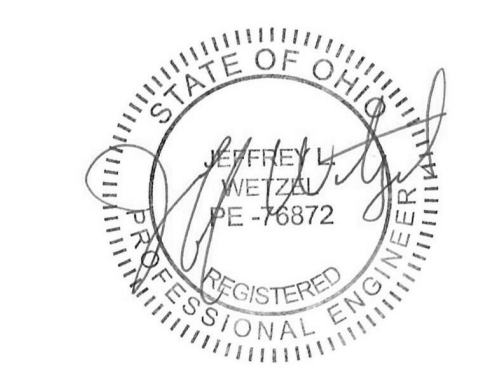
Sheet Number

H2.06

1 ENLARGED CLASSROOMS 210 & 225 - NEW WORK
3/16" = 1'-0"



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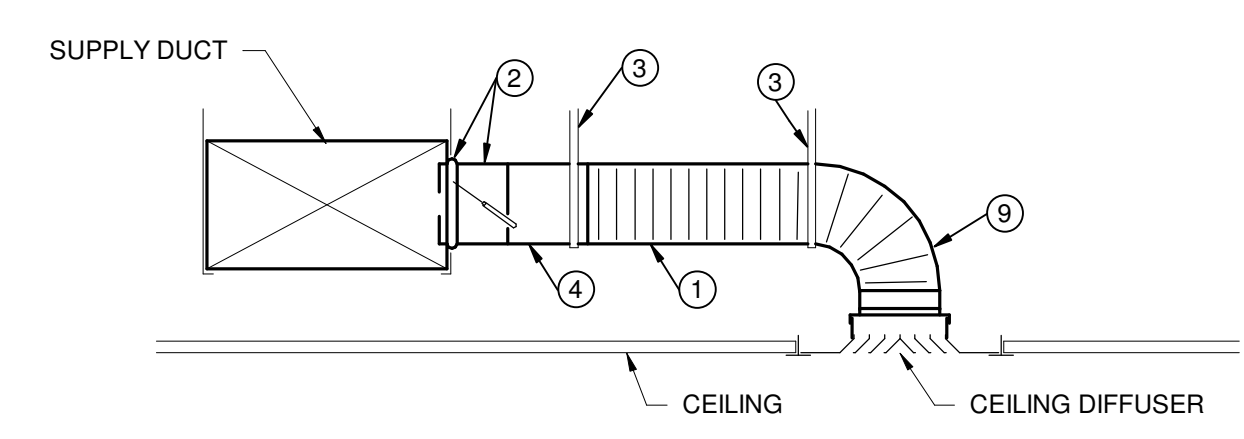
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DUCTWORK CONSTRUCTION SCHEDULE

DUCT SYSTEM	SHAPE	PRESS. CLASS W.G.	MATERIAL	LINER			INSULATION			NOTES	
				THK.	TYPE	D	THK.	TYPE	D		JACKET
CONCEALED SUPPLY & RETURN	RND/RECT	-1/2"	GS	-	-	-	1.5"	IFD	-	FFJ	1,3
CONCEALED SUPPLY AIR DEVICE RUNOUT	RND	+1"	IFD	-	-	-	1.5"	IFD	-	FFJ	2
EXPOSED SUPPLY & RETURN	RND/RECT	-1/2"	GS	1"	PFL	-	-	-	-	-	4
CHEMISTRY/BIOLOGY LAB EXHAUST	RND/RECT	-2"	SS	-	-	-	-	-	-	-	5

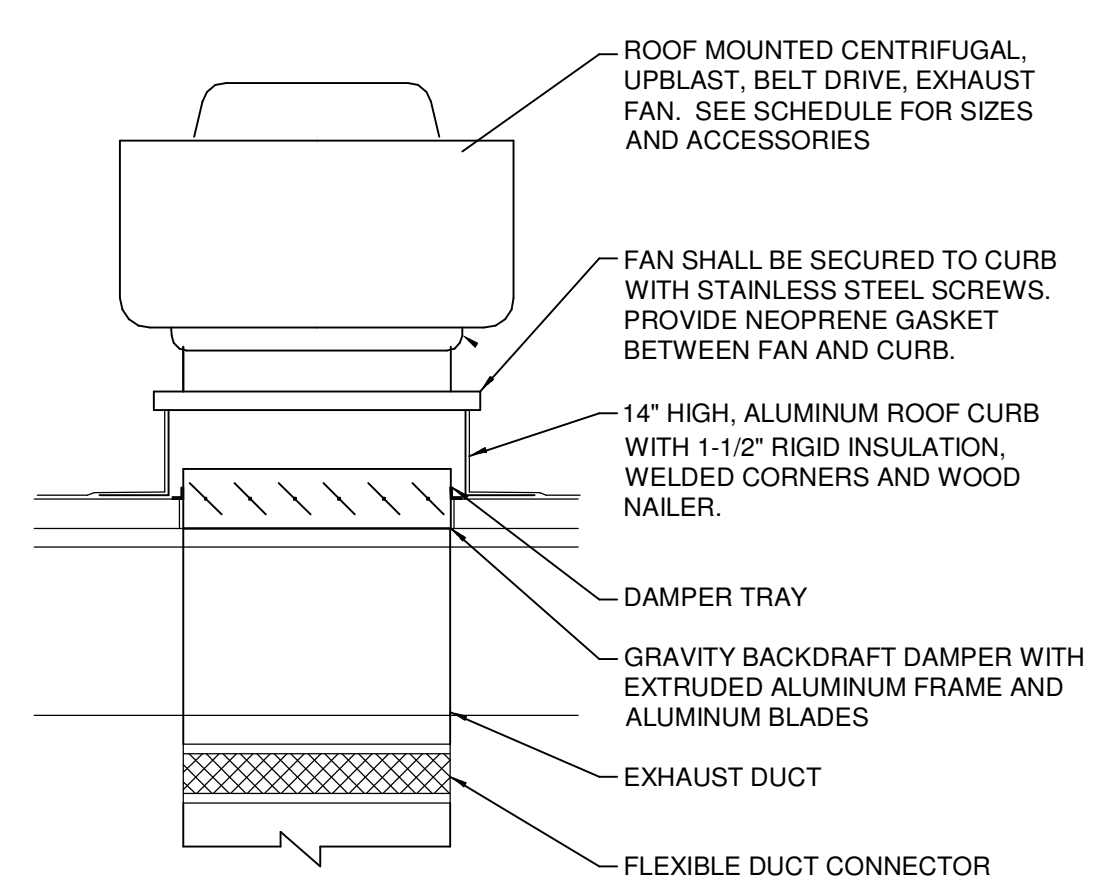
GENERAL NOTES: A ALL PAINTING BY GENERAL CONTRACTOR. B ALL DUCT JOINTS AND SEAMS SHALL BE SEALED PER OMC CHAPTER 5.	SCHEDULE NOTES: 1. INCLUDES DUCTWORK INSTALLED ABOVE CEILINGS ROUTED WITHIN THE PLENUM AREA. 2. ROUND RUNOUTS TO AIR DEVICES SHALL BE EXTERNALLY INSULATED. 3. DUCTWORK WITHIN 15 FT OF UNIT SHALL BE INTERNALLY LINED. 4. AT CONTRACTOR'S OPTION, DOUBLE WALL INSULATED DUCT MAY BE SUBSTITUTED. 5. DUCTWORK SHALL BE HAVE WELDED SEAMS.
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ABBREVIATIONS: AIFD ACOUSTICAL INSULATED FLEX-DUCT ALUM ALUMINUM ABA ADHESIVE BACKED ALUMINUM ASJ ALL SERVICE JACKET CS CARBON STEEL D DENSITY (PCF) DWI DOUBLEWALL INSULATED ETPS EXTRUDED POLYSTYRENE FB FIBERGLASS BOARD	FFJ FOIL FACED JACKET FGW FIBERGLASS WRAP FPW FIRE WRAP GS GALVANIZED STEEL GSSP GALVANIZED STEEL SPIRAL PIPE IFD INSULATED FLEXIBLE DUCT MFF MATT FACED FIBERGLASS PFD PERFORATED FABRIC DUCT PFL PREFORMED LINER	PGGS PAINTGRIP GALVANIZED STEEL PVCGS PVC COATED GALVANIZED STEEL RECT RECTANGULAR RND ROUND SS STAINLESS STEEL TH THICKNESS UFD UNISULATED FLEXIBLE DUCT
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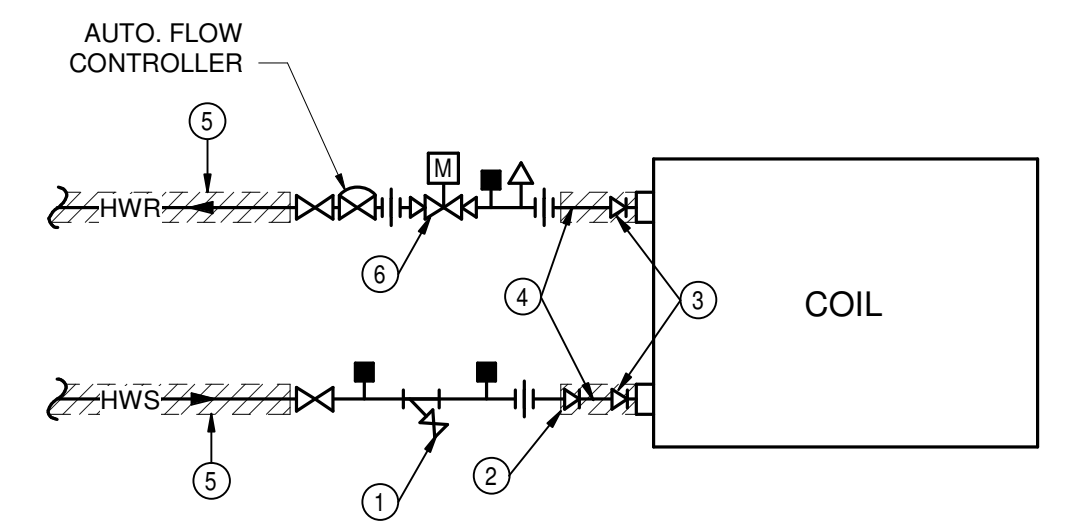
- NOTES**
- INSULATED FLEXIBLE DUCT SAME DIAMETER AS BRANCH DUCT, 6 FT. MAXIMUM TOTAL LENGTH PER AIR DEVICE. STRETCH FLEXIBLE DUCT TO AT LEAST 90% OF FULLY EXTENDED LENGTH.
 - SPIN-IN BRANCH TAP FITTING, STRAIGHT SIDE WITH MANUAL DAMPER. DAMPER SHAFT IN HORIZONTAL. INTEGRAL INSULATION GUARD SLEEVE REQUIRED FOR TAP FITTING TO MAIN DUCT WITH INTERNAL INSULATION, AND EXTENDED DAMPER SHAFT AND HANDLE WITH STAND-OFF TO ACCOMMODATE EXTERNAL INSULATION.
 - DUCT STRAP HANGER. ATTACH TO STRUCTURE.
 - ROUND SHEET METAL BRANCH DUCT, SAME SIZE AS DIFFUSER INLET UNLESS NOTED OTHERWISE.

1 CEILING DIFFUSER DUCT CONNECTION
NTS

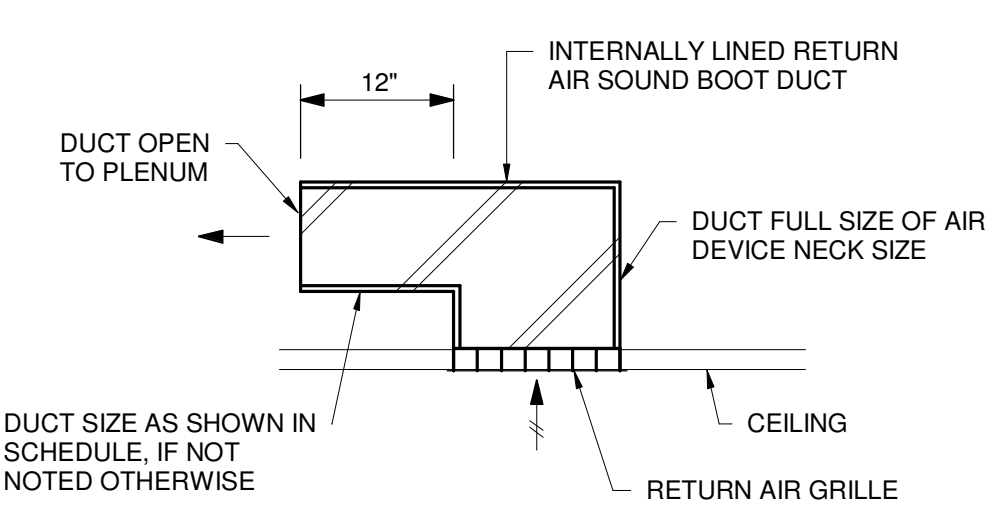


2 ROOF MOUNTED FAN
NTS

- NOTES**
- LOCATE STRAINER WITH BLOW-DOWN VALVE AND HOSE CONNECTION AT LOW POINT OF COIL PIPING.
 - PIPE REDUCER IF REQUIRED.
 - PIPE REDUCER/INCREASER IF COIL CONNECTION SIZE DIFFERS FROM AUTO CONTROL VALVE SIZE.
 - PIPING SAME SIZE AS AUTO CONTROL VALVE OR COIL CONNECTION, WHICH EVER IS LARGER.
 - INSULATE PIPING UP TO SHUT-OFF VALVE.
 - MODULATING 2-WAY AUTOMATIC CONTROL VALVE.



3 TERMINAL UNIT REHEAT PIPING DIAGRAM
NTS



4 RETURN AIR SOUND BOOT
NTS

FAN SCHEDULE

PLAN MARK	TYPE	BASIS OF DESIGN		CFM	ESP ("WG)	WHEEL SIZE	DRIVE	MAX. SONES	ELECTRICAL			NOTES
		MANUF.	MODEL						HP	VOLT	PHASE	
EF-1	CENTRIF. UPBLAST	GREENHECK	CUBE-140	1,500	0.38"	14"	BELT	10.0	1/4	120	1	1,2
EF-2	CENTRIF. UPBLAST	GREENHECK	CUBE-140	1,500	0.38"	14"	BELT	10.0	1/4	120	1	1,2
EF-3	CENTRIF. UPBLAST	GREENHECK	CUBE-140	1,550	0.38"	14"	BELT	10.0	1/4	120	1	1,2
EF-4	CENTRIF. UPBLAST	GREENHECK	CUBE-140	1,550	0.38"	14"	BELT	10.0	1/4	120	1	1,2
EF-6	CENTRIF. UPBLAST	GREENHECK	VK-H-12-10	1,920	0.66"	12"	BELT	-	2	208	1	3

NOTES:
 A. EQUIPMENT PLAN MARKS ARE FOR REFERENCE. CONTRACTOR SHALL COORDINATE FINAL EQUIPMENT NAMING/NUMBERING WITH SCHOOL MAINTENANCE SUPERVISOR.

NOTES:
 1. PROVIDE WITH 14" HIGH MOUNTING CURB, NON-FUSED, DISCONNECT SWITCH, BACKDRAFT DAMPER AND BIRDSCREEN.
 2. FAN SHALL BE CONTROLLED BY WALL TIMER SWITCH. REFER TO ELECTRICAL DRAWINGS FOR SWITCH LOCATION. SWITCH AND WIRING BY E.C.
 3. PROVIDE WITH CORROSION COATING AND CAPACITOR MOTOR START. FAN SHALL UTILIZE EXISTING CURB, DUCTWORK, POWER WIRING, CONTROL WIRING FROM FUME HOOD, ETC. FAN MUST FIT ON EXISTING 21"x21"x14"H CURB.

AIR DEVICE SCHEDULE

PLAN MARK	DESCRIPTION	BASIS OF DESIGN		MOUNTING	FINISH	MATERIAL	ACCESSORIES	NOTES
		MFR	MODEL					
A1	SQUARE FACE DIFFUSER, 24x24 FACE	TITUS	OMNI	LAY-IN	WHITE	STEEL	-	-
A2	SQUARE FACE DIFFUSER, 24x24 FACE	TITUS	OMNI	SURFACE	WHITE	STEEL	OPP. BLADE DMPR	-
B1	EGGCRATE CEILING GRILLE	TITUS	50F	LAY-IN	WHITE	ALUM.	-	-
B2	EGGCRATE CEILING GRILLE	TITUS	50F	SURFACE	WHITE	ALUM.	OPP. BLADE DMPR	-

GENERAL NOTES:
 A. CARNES AND KRUEGER ACCEPTABLE ALTERNATE MANUFACTURER

NOTES:
 1. -

TERMINAL UNIT SCHEDULE - HOT WATER REHEAT

PLAN MARK	TYPE	INLET SIZE	AIRFLOW			REHEAT COIL					NOTES	
			COOL MAX CFM	HEAT MAX. CFM	COOL MIN. CFM	EWT (°F)	EAT (°F)	MBH	GPM	CONN. SIZE		CTRL. VLV CV.
VVR-118	SINGLE DUCT	12"	1,375	1,375	275	180	55	58.9	2.9	-	-	1
VVR-119	SINGLE DUCT	7"	600	600	120	180	55	25.9	1.3	1"	-	3
VVR-120	SINGLE DUCT	7"	600	600	120	180	55	25.9	1.3	1"	-	3
VVR-121	SINGLE DUCT	14"	1,800	1,800	360	180	55	77.7	3.9	1"	-	3
VVR-121B	SINGLE DUCT	14"	1,500	1,500	300	180	55	64.8	3.3	1"	-	-
VVR-122	SINGLE DUCT	14"	1,275	1,275	255	180	55	50.1	2.5	-	-	2
VVR-123	SINGLE DUCT	12"	900	900	180	180	55	38.9	1.9	-	-	2
VVR-213	SINGLE DUCT	10"	600	600	120	180	55	25.9	1.3	1"	-	4
VVR-142	SINGLE DUCT	5"	275	275	0	180	55	13.4	0.6	-	-	2
VVR-143	SINGLE DUCT	4"	150	150	0	180	55	7.3	0.7	-	-	1
VVR-144	SINGLE DUCT	4"	150	150	0	180	55	7.3	0.7	-	-	1
VVR-146	SINGLE DUCT	4"	150	150	0	180	55	7.3	0.7	-	-	2
VVR-147	SINGLE DUCT	5"	225	225	0	180	55	12.2	0.5	-	-	2

GENERAL NOTES:
 A. MANUFACTURER SHALL BE TITUS MODEL DESV
 B. MAXIMUM APD OF 0.35" WC. FOR BOX AND COIL.
 C. HOT WATER CONTROL VALVE SHALL BE MODULATING 2-WAY UNLESS NOTED OTHERWISE.
 D. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOW VOLTAGE POWER WIRING AND ANY REQUIRED TRANSFORMERS.

NOTES:
 1. UNIT IS EXISTING TO REMAIN. UNIT SHALL BE COMMISSIONED FOR PROPER OPERATION AND REBALANCED TO THE MAXIMUM AIRFLOW LISTED.
 2. UNIT IS EXISTING TO REMAIN. BALANCE TO PERFORMANCES LISTED.
 3. UNIT IS RELOCATED. BALANCE TO PERFORMANCES LISTED.
 4. UNIT SHALL BE FURNISHED BY THE OWNER FOR INSTALLATION. EXISTING UNIT TAG INDICATES VVR-213. BALANCE TO PERFORMANCES LISTED.

Alterations 2022 Project at:
Piqua High School
 1 Indian Trail
 Piqua, Ohio 45356
 Piqua City Schools

Print Record

01/24/22 BID SET
 02/02/22 PERMIT SET
 02/10/22 ADDENDUM #3

Project Number
 2021131

Date
 JANUARY 24, 2022

Sheet Title
 HVAC SCHEDULES & DETAILS

Sheet Number

H3.01