

DUCTWORK SYMBOLS

RECTANGULAR	ROUND / OVAL	
		ROUND BRANCH DUCTWORK
		RECTANGULAR BRANCH DUCTWORK
		SQUARE TEE WITH TURNING VANES NOTE: ALL SQUARE ELBOWS IN RECTANGULAR AND ROUND/OVAL DUCTWORK SHALL BE PROVIDED WITH TURNING VANES. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.
		RADIUS TEE
		RADIUS BRANCH UNLESS NOTED OTHERWISE ON DRAWINGS, 15' MAX FOR DIVERGING, 30' MAX FOR CONVERGING TRANSITION
		EXISTING DUCTWORK TO REMAIN
		EXISTING DUCTWORK TO BE REMOVED
		RETURN AIR, RELIEF AIR, OR TRANSFER AIR DUCTWORK (UP AND DOWN) RADISED OR SQUARE WITH TURNING VANES. SUPPLY AIR OR OUTDOOR AIR DUCTWORK (UP AND DOWN) RADISED OR SQUARE WITH TURNING VANES. EXHAUST AIR DUCTWORK (UP AND DOWN) RADISED OR SQUARE WITH TURNING VANES.
		RADIUS ELBOW RECTANGULAR AND ROUND / OVAL DUCTWORK RISE / DROP WITH 90° RADISED OR SQUARE ELBOWS AND TURNING VANES.
		90° SQUARE ELBOW (WITH TURNING VANES) NOTE: ALL SQUARE ELBOWS IN RECTANGULAR AND ROUND DUCTWORK SHALL BE PROVIDED WITH TURNING VANES.
		SQUARE THROAT / RADIUS HEEL FITTINGS NOT ACCEPTABLE.
		ACCESS DOOR OR PANEL
		DUCTWORK RISE IN DIRECTION OF AIR FLOW
		DUCTWORK DROP IN DIRECTION OF AIR FLOW
		FLEXIBLE DUCTWORK DUCTWORK WITH ACOUSTICAL LINER LISTED DUCT SIZES ARE INSIDE CLEAR DIMENSIONS.
		FLEXIBLE CONNECTION DUCTWORK CONSTRUCTED OF SPECIAL MATERIAL AS NOTED.
		DIRECTION OF PITCH
		RECTANGULAR DUCTWORK DIMENSIONS (W x H)
		ROUND DUCTWORK DIMENSIONS (DIA)
		OVAL DUCTWORK DIMENSIONS (W x H)

DUCTWORK DEVICE SYMBOLS

	AR DEVICE. A3 = DESIGNATION REFER TO FLOOR PLANS AND AIR DEVICE SCHEDULE FOR VARIOUS DESIGNATIONS. 10# = NECK SIZE (IN INCHES). 300 = REQUIRED CFM. ALL AIR DEVICE DISCHARGE 4-WAY UNLESS NOTED WITH FLOW ARROWS. AIR DEVICE SHOWN IS 2-WAY SIDE THROW. METHOD OF IDENTIFICATION ALSO APPLIES TO OTHER CEILING MOUNTED AIR DEVICES.
	WALL OR DUCTWORK MOUNTED AIR DEVICE. SG1 = DESIGNATION (REFER TO AIR DEVICE SCHEDULE). 20x12 = DUCT CONNECTION SIZE (IN INCHES). 300 = REQUIRED CFM. 9'-0" = MOUNTING HEIGHT FROM FLOOR TO BOTTOM OF GRILLE.
	MANUAL BALANCING DAMPER WITH LOCKING DEVICE
	BDD = BACK DRAFT DAMPER CBD = COUNTER-BALANCED BACK DRAFT DAMPER
	FIRE DAMPER A = TYPE (REFER TO FLOOR PLANS FOR VARIOUS TYPES) D OR S = DYNAMIC OR STATIC
	SD = SMOKE DAMPER FS = COMBINATION FIRE - SMOKE DAMPER MDD = MOTORIZED DAMPER AFMS = AIR FLOW MEASURING STATION
	DUCT MOUNTED SMOKE DETECTOR. COORDINATE LOCATION.
	HUMIDITY SENSOR - DUCT MOUNTED
	STATIC PRESSURE SENSOR - DUCT MOUNTED
	CARBON DIOXIDE SENSOR - DUCT MOUNTED
	TEMPERATURE SENSOR - DUCT MOUNTED

VALVES AND FITTINGS

	CHECK VALVE
	SHUTOFF VALVE (REFER TO SPECIFICATIONS FOR REQUIRED TYPE BASED ON APPLICATIONS)
	COMBINATION SHUTOFF AND BALANCING VALVE (REFER TO SPECIFICATIONS FOR REQUIRED TYPE BASED ON APPLICATIONS)
	CENTRIC PIPE REDUCER
	ECCENTRIC PIPE REDUCER
	PRESSURE GAUGE
	TEMPERATURE GAUGE OR THERMOMETER
	UNION
	CLEANOUT
	STRAINER
	STRAINER WITH A BLOW DOWN VALVE AND HOSE CONNECTION
	DRAIN VALVE WITH HOSE END CONNECTION
	AUTOMATIC FLOW CONTROLLER WITH P/T PLUG IN AND OUT
	EXPANSION JOINT
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	PRESSURE REDUCING VALVE
	MODULATING 2 PORT AUTOMATIC CONTROL VALVE
	2 PORT AUTOMATIC CONTROL VALVE, 2-POSITION UNLESS SPECIFIED OTHERWISE
	MODULATING 3 PORT AUTOMATIC CONTROL VALVE
	3 PORT AUTOMATIC CONTROL VALVE, 2-POSITION UNLESS SPECIFIED OTHERWISE
	AUTOMATIC PRESSURE INDEPENDENT CONTROL VALVE
	QUICK OPENING MANUAL VALVE
	SAFETY RELIEF VALVE. FOR HYDROVIC SYSTEMS PIPE DISCHARGE AIR GAPPED TO FLOOR DRAIN UNLESS NOTED OTHERWISE. FOR STEAM SYSTEMS PIPE DISCHARGE TO OUTDOORS.
	VACUUM BREAKER
	NEEDLE VALVE
	PRESSURE AND TEMPERATURE TEST PLUG
	VACUUM GAUGE WITH STOP
	END GAP
	GLOBE VALVE
	SHUTOFF VALVE AND BOX
	SHUTOFF VALVE ON RISER
	SOLENOID VALVE
	WATER METER
	FLOW METER
	BI-METALIC STEAM TRAP AND DRIP ASSEMBLY
	THERMODYNAMIC STEAM TRAP AND DRIP ASSEMBLY
	INVERTED BUCKET STEAM TRAP AND DRIP ASSEMBLY
	FLOAT AND THERMOSTATIC STEAM TRAP AND DRIP ASSEMBLY
	THERMOSTATIC STEAM TRAP AND DRIP ASSEMBLY
	PRESSURE GAUGE WITH COCK AND SIPHON LOOP

MISC SYMBOLS

	CARBON DIOXIDE SENSOR. WHEN WALL MOUNTED, MOUNTING HEIGHT 48" TO MEET ADA REQUIREMENTS. WHEN MOUNTED NEXT TO WALL SWITCH COORDINATE WITH ARCHITECT.
	CARBON MONOXIDE SENSOR. WHEN WALL MOUNTED, MOUNTING HEIGHT 48" TO MEET ADA REQUIREMENTS. WHEN MOUNTED NEXT TO WALL SWITCH COORDINATE WITH ARCHITECT.
	DIFFERENTIAL PRESSURE SENSOR. WHEN WALL MOUNTED, MOUNTING HEIGHT 48" TO MEET ADA REQUIREMENTS. WHEN MOUNTED NEXT TO WALL SWITCH COORDINATE WITH ARCHITECT.
	HUMIDITY SENSOR. WHEN WALL MOUNTED, MOUNTING HEIGHT 48" TO MEET ADA REQUIREMENTS. WHEN MOUNTED NEXT TO WALL SWITCH COORDINATE WITH ARCHITECT.
	TEMPERATURE SENSOR. WHEN WALL MOUNTED, MOUNTING HEIGHT 48" TO MEET ADA REQUIREMENTS. WHEN MOUNTED NEXT TO WALL SWITCH COORDINATE WITH ARCHITECT.
	TEMPERATURE SENSOR MOUNTED IN CEILING PLENUM.
	STATIC PRESSURE SENSOR.
	SPACE TEMPERATURE SENSOR / THERMOSTAT. WHEN WALL MOUNTED, MOUNTING HEIGHT 48" TO MEET ADA REQUIREMENTS. WHEN MOUNTED NEXT TO WALL SWITCH COORDINATE WITH ARCHITECT.
	EMERGENCY SHUTOFF STATION. 48" MOUNTING HEIGHT UNLESS NOTED OTHERWISE.

GENERAL FLOOR PLAN NOTES

	PLAN NOTE. APPLIES ONLY TO THE SHEET WHICH IT IS SHOWN UNLESS NOTED OTHERWISE.
	DETAIL NOTE. APPLIES ONLY TO THE ASSOCIATED DETAIL.
A1	EQUIPMENT, DEVICE, OR PLUMBING FIXTURE MARK. LETTER DESIGNATIONS REFER TO SCHEDULES.
H1 OR H11	EQUIPMENT REFERENCE. LETTER DESIGNATION VARIES. REFER TO SCHEDULES.
	RISER OR STACK NUMBER
	DETAIL: B = DETAIL DESIGNATION H2 = SHEET WHERE DETAIL IS LOCATED
	SECTION: 1 = SECTION DESIGNATION H2 = SHEET WHERE DETAIL IS LOCATED
	"UP TO" SYMBOL (ITEM ON FLOOR ABOVE)
	TOE: 9' - 0"
	BOE: 0' - 6"
	APPROXIMATE DIMENSION ABOVE FINISHED FLOOR TO TOP OR BOTTOM OF EQUIPMENT, UNLESS NOTED OTHERWISE
	APPROXIMATE DIMENSION ABOVE FINISHED FLOOR TO CENTERLINE OF PIPE. UNLESS NOTED OTHERWISE
	APPROXIMATE DIMENSION ABOVE FINISHED FLOOR TO TOP OR BOTTOM OF EQUIPMENT, UNLESS NOTED OTHERWISE
	DOOR UNDERCUT. X = HEIGHT OF UNDERCUT IN INCHES; 0.75 INCH UNDERCUT IF NO HEIGHT IS NOTED. COORDINATE WITH GC.
	DOOR LOUVER. 1 = SQUARE FEET OF LOUVER.
	CONNECT TO EXISTING

PIPING SYMBOLS

DOUBLE LINE	SINGLE LINE	
		BOTTOM CONNECTION (45°)
		BOTTOM CONNECTION (90°)
		BRANCH TEE CONNECTION (NOTE: BULLHEAD TEES ARE NOT PERMITTED)
		DIRECTION OF PITCH
		DROP
		ELBOW DOWN
		ELBOW UP
		EXISTING PIPE TO BE REMOVED
		EXISTING PIPE TO REMAIN
		FLOW DIRECTION DESIGNATION
		PIPE RISER
		PUMP
		RISE
		TOP CONNECTION (45°)
		TOP CONNECTION (90°)

HVAC PIPING DESIGNATIONS

	CHILLED WATER SUPPLY PIPE
	CHILLED WATER RETURN PIPE
	CONDENSER WATER SUPPLY PIPE
	CONDENSER WATER RETURN PIPE
	CHILLED WATER GLYCOL SOLUTION SUPPLY PIPE
	CHILLED WATER GLYCOL SOLUTION RETURN PIPE
	DRAIN LINE. PITCH IN DIRECTION INDICATED
	HEATING HOT WATER RETURN PIPE
	HEATING HOT WATER SUPPLY PIPE
	WATER MAKE-UP PIPE
	VENT PIPE
	EXPANSION TANK PIPE
	REFRIGERANT HOT GAS LINE
	REFRIGERANT LIQUID LINE
	REFRIGERANT SUCTION LINE

ABBREVIATIONS

AC	- AIR COMPRESSOR OR AIR CONDITIONER	ID	- INSIDE DIAMETER
ADC	- AIR COOLED CONDENSING UNIT	IN	- INVERT ELEVATION
ADU	- ADJUSTABLE	N	- NCHES
AFF	- ABOVE FINISHED FLOOR	KEC	- KITCHEN EQUIPMENT CONTRACTOR
AFG	- ABOVE FINISHED GRADE	L	- LENGTH
AFMS	- AIR FLOW MEASURING STATION	LAV	- LEAVING AIR TEMPERATURE
ALT	- ALTERNATE	LBS	- LAVATORY
AP	- ACCESS PANEL	LPC	- LOW PRESSURE CONDENSATE RETURN
APPROX	- APPROXIMATE	LPS	- LOW PRESSURE STEAM SUPPLY
ARCH	- ARCHITECT OR ARCHITECTURAL	LWT	- LEAVING WATER TEMPERATURE
ASSY	- ASSEMBLY	MAX	- MAXIMUM
ATC	- AUTOMATIC TEMPERATURE CONTROL (SYNONYMOUS WITH BAS)	MDD	- MOTORIZED DAMPER
BAS	- BUILDING AUTOMATION SYSTEM	MEZZ	- MEZZANINE
BDD	- BACK DRAFT DAMPER	MFR	- MANUFACTURER
BDFD	- BACKFLOW PREVENTER	MH	- MANHOLE
BUDG	- BUILDING	MIN	- MINIMUM OR MINUTE
BOB	- BOTTOM OF BEAM	MISC	- MISCELLANEOUS
BOD	- BOTTOM OF DUCT	MTD	- MOUNTED
BOE	- BOTTOM OF EQUIPMENT	MTG	- MOUNTING
BOF	- BOTTOM OF FOOTING	MPC	- MEDIUM PRESSURE CONDENSATE RETURN
BOG	- BOTTOM OF GRIлле	MPS	- MEDIUM PRESSURE STEAM SUPPLY
BOP	- BOTTOM OF PIPE	MSU	- WATER MAKE-UP
BTU	- BRITISH THERMAL UNIT	N/C	- NORMALLY CLOSED
BTH	- BRITISH THERMAL UNIT PER HOUR	NIC	- NOT IN CONTRACT
CBU	- COUNTER BALANCED BACKDRAFT DAMPER	NO	- NORMALLY OPEN
CFCI	- CONTRACTOR FURNISHED CONTRACTOR INSTALLED	NOM	- NOMINAL
CFM	- CUBIC FEET PER MINUTE	NPT	- NATIONAL PIPE THREAD
CHS	- CHILLED WATER SUPPLY	NTS	- NOT TO SCALE
CHR	- CHILLED WATER RETURN	OA	- OUTDOOR AIR
CHSR	- CHILLED WATER GLYCOL SOLUTION RETURN	OD	- OPPOSED BLADE DAMPER
CHSS	- CHILLED WATER GLYCOL SOLUTION SUPPLY	OD	- OUTSIDE DIAMETER
CLG	- CEILING	OFCI	- OWNER FURNISHED CONTRACTOR INSTALLED
CMU	- CONCRETE MASONRY UNIT	OFOW	- OWNER FURNISHED OWNER INSTALLED
CO	- CLEAN OUT	P	- PROPANE GAS
CO2	- CARBON DIOXIDE	PC	- PLUMBING CONTRACTOR (DIVISION 22) OR PUMPED CONDENSATE RETURN
COIN	- CONNECT OR CONNECTION	PBG	- PLUMBING
CONTR	- CONTRACTOR	PRESS	- PRESSURE
CTR	- CENTER	PRV	- PRESSURE REGULATING VALVE
CJ	- COPPER	PSP	- POUNDS PER SQUARE FOOT
CW	- COLD WATER	PSI	- POUNDS PER SQUARE INCH
CWR	- CONDENSER WATER RETURN	PSIG	- POUNDS PER SQUARE INCH GAUGE
CWS	- CONDENSER WATER SUPPLY	RA	- RETURN AIR
D	- DRAIN LINE	RD	- RADIUS
DB	- DRY BULB	RAD	- REFLECTED CEILING PLAN
DDC	- DIRECT DIGITAL CONTROLS	REF	- RECESSED
DI	- DEIONIZED WATER	REO	- REQUIRED
DIA	- DIAMETER	RH	- ROUGH IN
DIW	- DIMENSION	RI	- REFRIGERANT LIQUID
DN	- DOWN	ROS	- REVERSE OSMOSIS WATER SUPPLY
DWG	- DRAWING	ROR	- REVERSE OSMOSIS WATER RETURN
EA	- EACH OR EXHAUST AIR	RPM	- REVOLUTIONS PER MINUTE
EAT	- ENTERING AIR TEMPERATURE	R/S	- REFRIGERANT SUCTION
EC	- ELECTRICAL CONTRACTOR (DIVISION 26)	S	- SPRINKLER (WET)
EJ	- EXPANSION JOINT	SA	- SUPPLY AIR
ELEC	- ELECTRICAL	SAN	- SANITARY OR SANITARY DRAIN
ELEV	- ELEVATOR	SCH	- SCHEDULE
EQUIP	- EQUIPMENT	SCW	- SOFT COLD WATER
EQ	- EQUIPMENT TANK	SHT	- SHEET
ETR	- EXISTING TO REMAIN	SPEC	- SPECIFICATIONS
EOS	- EQUIPMENT SUPPLIER	SS	- SQUARE
EWT	- ENTERING WATER TEMPERATURE	SR	- SUPPLY RISER
EXH	- EXHAUST	SRV	- SAFETY RELIEF VALVE
EXP	- EXPANSION	SS	- STAINLESS STEEL
EXT	- EXTERIOR	STD	- STANDARD
EX	- EXISTING	STM	- STORM OR STORM DRAINAGE
FD	- FLOOR DRAIN	ST/UC	- STRUCTURAL OR STRUCTURE
FF	- FINISHED FLOOR ELEVATION	SUC	- SITE UTILITY CONTRACTOR
FLR	- FLOOR	TEMP	- TEMPERATURE
FLO	- FLOOR	TOB	- TOP OF BEAM
FGB	- FLAT ON BOTTOM	TOD	- TOP OF DUCT
FGL	- FUEL OIL FLOW	TOE	- TOP OF EQUIPMENT
FGL	- FUEL OIL GAUGE	TOF	- TOP OF FOOTING
FOS	- FUEL OIL SUPPLY	TOJ	- TOP OF JOIST
FOR	- FUEL OIL RETURN	TOP	- TOP OF PIPE
FOS	- FUEL OIL SUPPLY	TOS	- TOP OF SLAB OR TOP OF STEEL
FOT	- FLAT ON TOP	TP	- TYPICAL
FS	- FEET PER MINUTE	UNO	- UNLESS NOTED OTHERWISE
FT	- FEET	V	- VENT
FTG	- FOOTING	VAC	- VACUUM
G	- GAS OR NATURAL GAS	VEL	- VELOCITY
GA	- GAUGE	SA	- VARIABLE FREQUENCY DRIVE (ADJUSTABLE FREQUENCY MOTOR CONTROLLER)
GAL	- GALLON	VB	- VALVE IN BOX
GALV	- GALVANIZED	VOL	- VOLUME
GC	- GENERAL TRADES CONTRACTOR	VTR	- VENT THROUGH ROOF
GPM	- GALLONS PER MINUTE	VR	- VENT RISER
HB	- HOSE BIBB	W	- WITH
HC	- HVAC CONTRACTOR (DIVISION 23)	WI	- WITHOUT
HD	- HUB DRAIN	WB	- WET BULB
HG	- REFRIGERANT HOT GAS	WCO	- WALL CLEANOUT
HP	- HORSEPOWER		
HPC	- HIGH PRESSURE CONDENSATE RETURN		
HPS	- HIGH PRESSURE STEAM SUPPLY		
HR	- HOUR		
HT	- HEAT TRACE		
HTR	- HEATER		
HVAC	- HEATING, VENTILATING, AND AIR CONDITIONING		
HW	- HOT WATER		
HWR	- HEATING HOT WATER RETURN		
HWS	- HEATING HOT WATER SUPPLY		

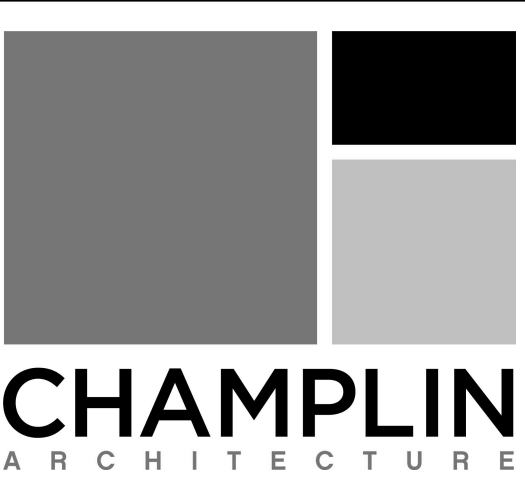
NOTE: ALL SYMBOLS AND ABBREVIATIONS ARE SUBJECT TO MODIFICATIONS ON OTHER DRAWINGS.

ALL SYMBOLS OR ABBREVIATIONS MIGHT NOT NECESSARILY BE USED ON THIS PROJECT.

SHEET LIST - HVAC	
SHEET NUMBER	SHEET NAME
H001	LEGEND, INDEX & GENERAL NOTES
H002	SCHEDULES & DETAILS
H102	THIRD FLOOR DEMOLITION WORK
H102	THIRD FLOOR NEW WORK
H103	ROOF PLAN - NEW WORK

GENERAL NOTES

A.	COORDINATE THE LOCATION OF ALL DEVICES LOCATED IN THE CEILING WITH THE ARCHITECT'S REFLECTED CEILING PLAN AND OTHER TRADES DURING CONSTRUCTION. ALL CEILING AIR DEVICES SMALLER THAN THE GRID DIMENSIONS SHALL BE CENTERED WITHIN THE CEILING GRID TILE.
B.	ALL EQUIPMENT ABOVE THE CEILING REQUIRING MAINTENANCE ACCESS SHALL BE MOUNTED A MAXIMUM OF 18" ABOVE THE CEILING TO ALLOW FOR ACCESS.
C.	ANNUAL SPACE AROUND DUCTWORK, PIPING, CONDUIT, AND OTHER SIMILAR PENETRATIONS OR COMBINATIONS OF PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE FIRESTOPPED TO RETARD THE PASSAGE OF FIRE AND SMOKE. REFER TO SPECIFICATION SECTION 23 05 05 FIRESTOPPING.
D.	H.C. TO COORDINATE LOCATIONS OF ALL EQUIPMENT, DUCTWORK, PIPING, AND AIR DEVICES WITH STRUCTURAL MEMBERS AND THE WORK OF OTHER TRADES PRIOR TO FINAL INSTALLATION OFFSET PIPING AND DUCTWORK AS REQUIRED TO MAINTAIN ALL MANUFACTURER'S RECOMMENDED CLEARANCES.
E.	COORDINATE ALL WALL AND ROOF OPENINGS WITH GENERAL TRADES CONTRACTOR.
F.	IN GENERAL, KEEP DUCT AND PIPING MANS HIGH IN CEILING CAVITY. TIGHT TO STRUCTURE, WHERE POSSIBLE. ALL DUCTS AND PIPES SHALL BE RUN ABOVE CEILING UNLESS NOTED OTHERWISE. WHERE NO CEILING ARE INSTALLED HOLD AS HIGH AS POSSIBLE TO STRUCTURE UNLESS NOTED OTHERWISE.
G.	BRANCH DUCTS TO AIR DEVICES SHALL BE EQUAL TO DEVICE INLET SIZE UNLESS NOTED OTHERWISE.
H.	HVAC CONTRACTOR SHALL CLEAN AND PREPARE FOR PAINTING ALL HVAC PIPING, DUCTWORK, AND HVAC TEMPERATURE CONTROL CONDUIT LOCATED IN FINISHED ROOMS WHICH DO NOT HAVE A CEILING. THESE ITEMS ARE EXPOSED DUE TO THE LACK OF A CEILING AND WILL BE PAINTED BY THE GENERAL CONTRACTOR.
I.	RUN-OUTS TO SUPPLY DIFFUSERS, RETURN GRILLES, AND EXHAUST GRILLES SHALL INCLUDE MANUAL DAMPERS PER DETAILS (NOT SHOWN ON PLANS FOR CLARITY). PROVIDE ADDITIONAL DAMPERS AS SHOWN ON FLOOR PLANS OR WHERE REQUIRED FOR SYSTEM BALANCING REGARDLESS OF BEING SHOWN OR NOT.
J.	ALL SQUARE CONNER DUCT FITTINGS SHALL BE EQUIPPED WITH TURNING VANES AS SPECIFIED IN 23 31 31.
K.	DUCT RUN-OUT SIZE TO CEILING DIFFUSERS TO BE SAME SIZE AS THE DIFFUSER NECK UNLESS OTHERWISE NOTED.
L.	BRANCH PIPING TO ALL HEATING COILS OR HEATING EQUIPMENT SHALL BE SIZED AS NOTED ON THE EQUIPMENT SCHEDULE.
M.	EXACT LOCATION OF ALL WALL MOUNTED ITEMS (STATS, SENSORS, SWITCHES, CONTROL PANELS) SHALL BE SUBMITTED FOR REVIEW AND APPROVED BY THE OWNER ENGINEER. SUBMITTAL SHALL BE MADE IN A TIMELY FASHION SO REVIEW MAY BE CONDUCTED PRIOR TO INSTALLATION OF FINISHED WALL SURFACES.
N.	ALL RETURN GRILLES OPEN TO THE CEILING PLENUM SHALL HAVE A RETURN AIR SOUND BOOT PER DETAIL ON SHEET H002.
O.	MEP ABOVE CEILING COORDINATION: ALL



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FAC 24-03 Move and Upgrade eLearn Production Studio (Re-bid)



444 W 3rd St,
Dayton, OH 45302
Building 4

ISSUANCES

No.	Description	Date
75%	REVIEW SET	10/02/2023
90%	REVIEW SET	10/23/2023
1	CONSTRUCTION DOCS	11/13/2023
2	ADDENDUM 2	12/08/2023
3	CD RE-BID	02/12/2024

Drawn By
AJS

Checked By
AJS

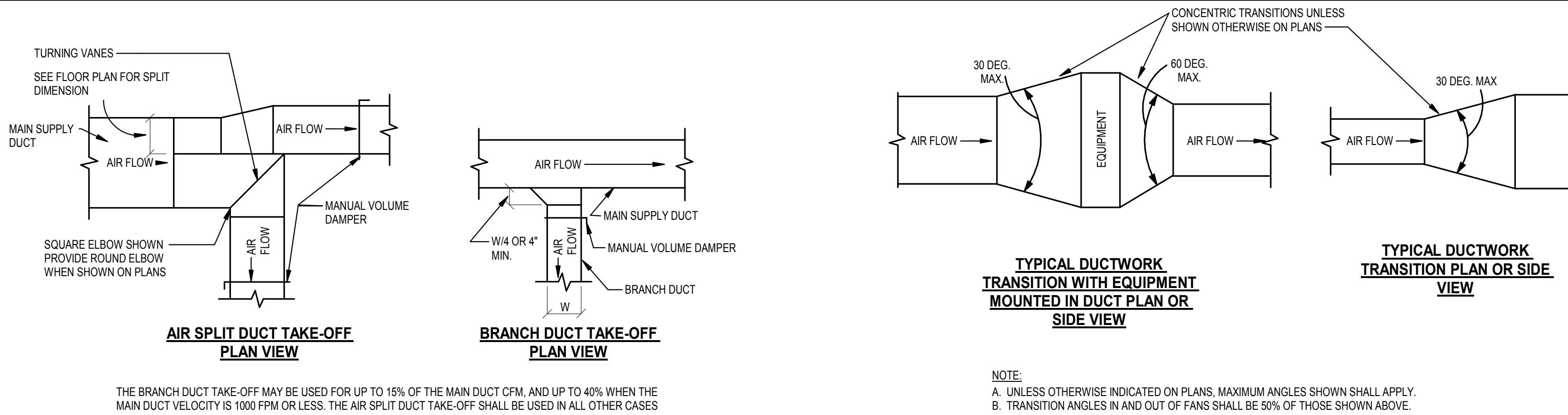
Client No.
659

Project No.
7262

SCHEDULES & DETAILS

H002

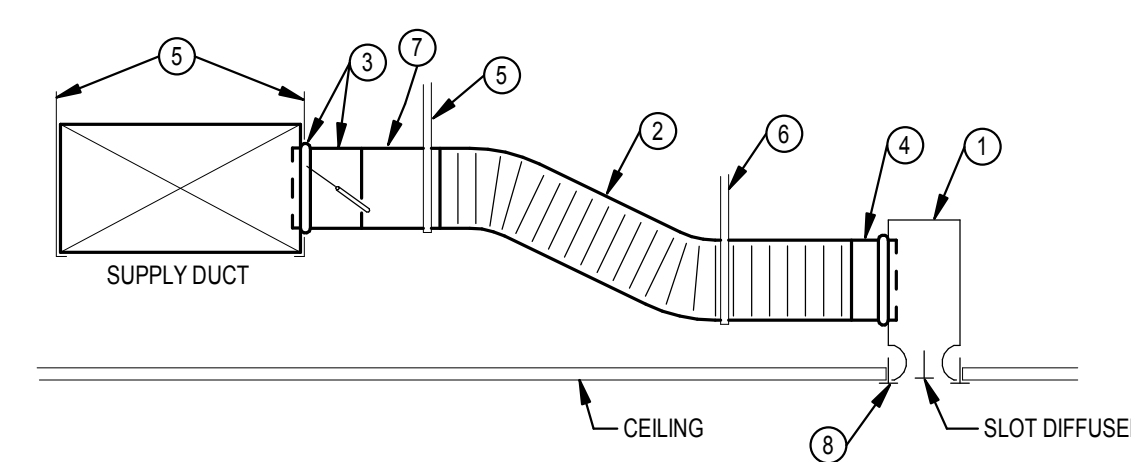
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1 SUPPLY DUCTWORK BRANCH TAKE-OFFS
SCALE: NONE

2 DUCTWORK TRANSITIONS
SCALE: NONE

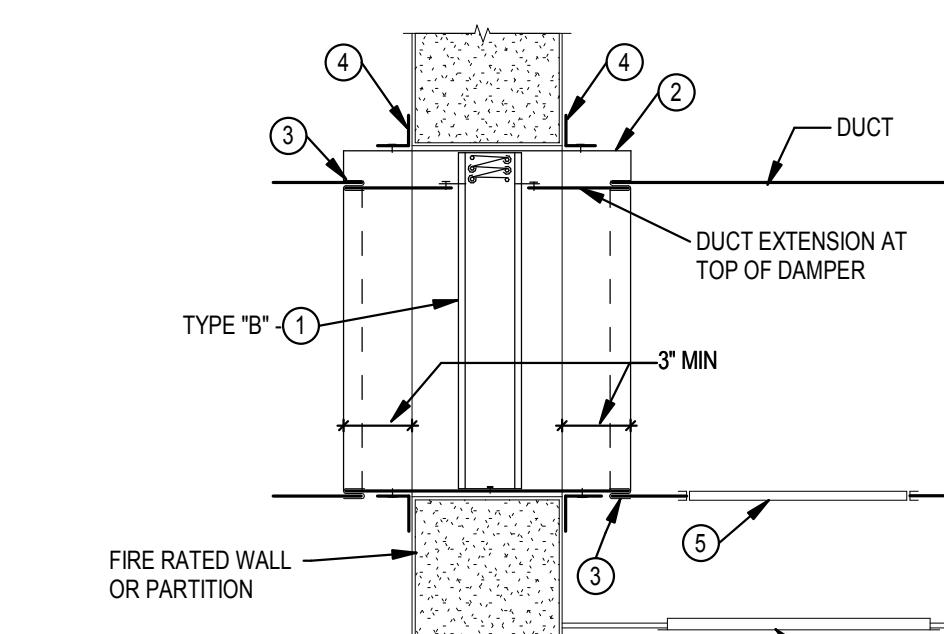
3 RETURN BRANCH DUCTWORK
SCALE: NONE



NOTES

- SLOT DIFFUSER ASSEMBLY AND PLENUM WITH SAME INTERNAL OR EXTERNAL INSULATION AS MAIN SUPPLY DUCT. CONNECT PLENUM TO DIFFUSER. SEAL PLENUM TO DIFFUSER. SEAL CLASS A. INSULATE BACKSIDE SURFACES OF DIFFUSER.
- INSULATED FLEXIBLE DUCT SAME DIAMETER AS BRANCH DUCT (Ø) 5 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. EXTENDED DAMPER SHAFT AND HANDLE WITH STAND-OFF TO ACCOMMODATE EXTERNAL INSULATION.
- SPIN-IN TAP FITTING SIMILAR TO (Ø) EXCEPT NO DAMPER.
- DUCT STRAP HANGER. ATTACH TO STRUCTURE.
- STRAP HANGER REQUIRED IF LENGTH OF FLEXIBLE DUCT IS LONGER THAN 4 FT.
- ROUND SHEET METAL BRANCH DUCT, SAME SIZE AS DIFFUSER INLET UNLESS NOTED OTHERWISE.
- CEILING T-BAR SUPPORT (FOR LAY-IN APPLICATIONS). COORDINATE AND VERIFY T-BAR TYPE FOR COMPATIBILITY WITH DIFFUSER.

4 SLOT DIFFUSER DUCT CONNECTION
SCALE: NONE



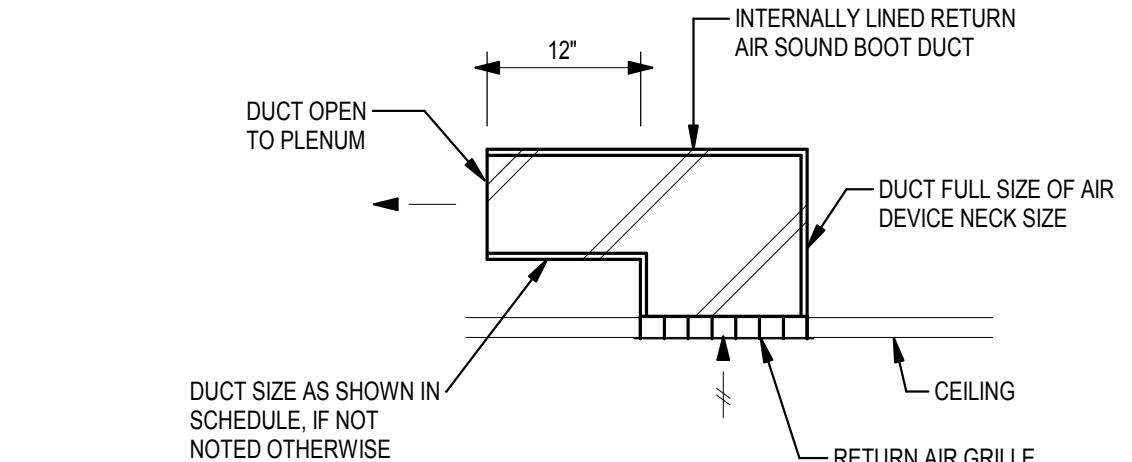
5 FIRE DAMPER TYPE "B"
SCALE: NONE

GENERAL NOTES

- FIRE DAMPER: FOLDED BLADE CURTAIN TYPE, EXCEPT AS NOTED. VERTICAL MOUNT, GRAVITY DROP; HORIZONTAL MOUNT, SPRING LOADED TO CLOSE. REFER TO SPECS FOR VELOCITY LIMITATIONS OF EACH TYPE. REFER TO DRAWINGS FOR STATIC OR DYNAMIC REQUIREMENTS.
- TYPE "A" - BLADES STORED IN AIR STREAM. RECTANGULAR, ROUND OR OVAL DUCT CONNECTION.
- TYPE "B" - BLADES STORED OUT OF AIR STREAM. RECTANGULAR, ROUND OR OVAL DUCT CONNECTION.
- SHEET METAL WALL SLEEVE, SAME MATERIAL AS DUCT (EXCEPT GALVANIZED SHEET METAL FOR FIBERGLASS DUCT). SHEET METAL GAUGE PER SMACNA. USE EXTENDED HEAVY GAUGE SLEEVES WHEN INSTALLED CONDITION REQUIRES.
- DUCT/SLEEVE CONNECTION. BREAKAWAY TYPE SHOWN. CONNECTION MAY BE RIGID TYPE IF ALLOWED BY CODE AUTHORITY.
- RETAINING ANGLE ALL FOUR SIDES, GAUGE PER SMACNA. 1" MINIMUM OVERLAP OF WALL OPENING. LONGER LEG MAY BE REQUIRED TO ATTAIN REQUIRED OVERLAP. BOLT, SCREW OR TACK WELD TO WALL SLEEVE. SPACING OF FASTENERS PER SMACNA.
- DUCT ACCESS PANEL OR DOOR. REFER TO SPECIFICATIONS.
- CEILING ACCESS PANEL IF CEILING IS NOT ACCESSIBLE.

NOTES

- FIRE DAMPER: FOLDED BLADE CURTAIN TYPE, EXCEPT AS NOTED. VERTICAL MOUNT, GRAVITY DROP; HORIZONTAL MOUNT, SPRING LOADED TO CLOSE. REFER TO SPECS FOR VELOCITY LIMITATIONS OF EACH TYPE. REFER TO DRAWINGS FOR STATIC OR DYNAMIC REQUIREMENTS.
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- DUCT ACCESS PANEL OR DOOR. REFER TO SPECIFICATIONS.
- CEILING ACCESS PANEL IF CEILING IS NOT ACCESSIBLE.



AIR DEVICE SIZE	DUCT SIZE
12x12	12x10
24x12	12x12
24x24	24x12

6 RETURN AIR SOUND BOOT
SCALE: NONE

HVAC DESIGN DATA				
GENERAL NOTES: A. OUTDOOR DESIGN CONDITIONS: 92°F DB SUMMER 74°F WB SUMMER 1°F DB WINTER		B. DESIGN ALTITUDE: 850 FT.		
NOTES: 1. LISTED RH IS MAXIMUM ANTICIPATED AT LISTED DB TEMPERATURE. 2. "FLOATING" MEANS THERE IS NO ACTIVE CONTROL.				
SPACE NAME / TYPE	SUMMER		WINTER	
	*F DB	% RH (NOTE 1)	*F DB	% RH
OFFICES	74	50	70	FLOATING
STUDIOS	75	50	70	FLOATING
CONTROL ROOM	74	50	70	FLOATING
MACHINE ROOM	78	50	70	FLOATING
ALL OTHER SPACES	74	50	70	FLOATING

AIR DISTRIBUTION DEVICES																
GENERAL NOTES: A. ALL LAY-IN AIR DEVICES SHALL FIT IN 24"x24" LAY-IN CLG SYSTEM. VERIFY GRID TYPE AND COORDINATE AIR DEVICE COMPATIBILITY. B. FINISH KEY: "W.B.E." - WHITE BAKED ENAMEL. "E.C.L." - ETCHED CLEAR LACQUER OR ANODIZED. "C.C.B.A." - CUSTOM COLOR SELECTED BY ARCHITECT.			C. SUPPLY AIR DIFFUSERS SHALL BE 4-WAY BLOW, UNLESS INDICATED OTHERWISE ON DRAWINGS. D. PROVIDE AUX. FRAMES FOR AIR DEVICES IN PLASTER, GYPSUM BOARD, TILE OR OTHER HARD SURFACES.			BASIS OF DESIGN										
MARK	DESCRIPTION	LAY-IN	SURFACE	DUCT	SPINE	SNAP-IN	STEEL	ALUMINUM	STAINLESS STEEL	W.B.E.	E.C.L.	C.C.B.A.	SOFT-ROD NECK ADAPTOR	MANUFACTURER	MODEL	SEE NOTE
F1	22.5" LOUVERED SUPPLY GRILLE													PRICE	510	
F2	SPIRAL DUCT MOUNTED SUPPLY GRILLE													PRICE	SDGE	
G1	SIDEWALL RETURN GRILLE													TITUS	350FL	
J1	EGGCRATE RETURN GRILLE													TITUS	50F	
S1	HIGHTHROW SLOT DIFFUSER - 2 SLOT, 48" LENGTH													TITUS	FL-20	1

DUCT CONSTRUCTION, SEALING, AND INSULATION									
GENERAL NOTES: A. REFER TO SPECIFICATIONS FOR DUCT CONSTRUCTION: SHEET METAL DUCT; INTERIOR LINING; EXTERIOR INSULATION; FIBERGLASS DUCTBOARD; ETC.					B. DUCT CONSTRUCTION AND SEALING SHALL BE PER LATEST S.M.A.C.N.A. STANDARDS.				
NOTES: 1. ROUND SHEET METAL RUN-OUTS TO AIR DEVICES DOWNSTREAM OF VAV BOXES SHALL BE EXTERNALLY INSULATED. 2. CONCEALED ROUND RUNOUT DUCTS TO AIR DEVICES MAY BE 1" S.P. CLASS. 3. REFER TO DETAIL 6 ON THIS SHEET. 4. EXPOSED DUCTWORK SHALL BE PAINTED BY GENERAL CONTRACTOR. REFER TO SPECIFICATIONS FOR DUCT REQUIREMENTS.									
MARK	DUCT SYSTEM	S.M.A.C.N.A. CLASS			INTERNALLY LINED	EXTERNAL INSULATION	DOUBLE WALL INSULATED	NOT INSULATED	SEE NOTE
		S.P. CON-STRUCT.	SEAL CLASS	RECT RND					
	CONCEALED SUPPLY DUCTWORK UPSTREAM OF VAV BOXES & VRF UNITS	+3"	A	8	4	-	-	-	-
	CONCEALED SUPPLY DUCTWORK DOWNSTREAM OF VAV BOXES & VRF UNITS	+1"	A	16	8	-	-	-	1, 2
	EXPOSED SUPPLY DUCTWORK DOWNSTREAM OF AIR TERMINAL UNITS	+1"	A	16	8	-	-	-	4
	RETURN DUCTWORK	-2"	A	16	8	-	-	-	-
	TRANSFER/RETURN AIR SOUND BOOT	-1"	A	16	-	-	-	-	3

EXISTING AIR TERMINAL UNITS - HW HEAT						
GENERAL NOTES: A. TYPES: "V.V." - VARIABLE VOLUME; "V.V.R." - VARIABLE VOLUME REHEAT; "C.V.R." - CONSTANT VOLUME REHEAT. B. ALL TERMINAL UNITS ARE EXISTING. CONTRACTOR SHALL REBLANCE UNITS TO ACCOMMODATE NEW AIR DEVICES.			C. LEAVING AIR TEMP. SHALL BE APPROXIMATELY 110°F FOR UNITS. D. ALL EXISTING CONTROL SEQUENCES TO REMAIN.			
MARK	TYPE	DIAMETER	MIN. INLET SIZE	CFM	ASSOCIATED RISER	
			COOLING MAXIMUM	WINTER MINIMUM	SUMMER MINIMUM	
A4Z038	V.V.V.R.	12"	1,800	750	12	
A4Z045	V.V.V.R.	12"	1,600	560	325	

VRF HEAT PUMP MULTI-SPLIT A/C SYSTEMS																				
GENERAL NOTES: A. UNLESS NOTED OTHERWISE, CAPACITIES SHALL BE BASED ON INTERIOR DESIGN CONDITIONS OF 75 DB / 65 WB COOLING; 70 DB HEATING. B. REFRIGERANT PIPING - SIZES LISTED ARE APPROX. CIRCUITING, SIZING, NUMBER OF PIPES AND CIRCUITS, ARRANGEMENT, ETC. SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.			C. ELECTRIC SERVICES FOR OUTDOOR UNIT AND INDOOR UNIT - SINGLE POINT POWER SERVICE CONNECTIONS TO EACH UNIT. UNLESS NOTED OTHERWISE, ADEQUACY OF LISTED CIRCUIT SIZES MUST BE VERIFIED BY H.C. AND UNIT SUPPLIER. COST FOR INCREASE OR CHANGE OF ELECTRIC SERVICE FOR EQUIPMENT SELECTED SHALL BE BORNE BY H.C.			E. IF EC MOTORS ARE INDICATED OR SPECIFIED, EACH MOTOR SHALL BE PROVIDED WITH FACTORY DISCONNECTING MEANS, INTERNAL OVERLOAD PROTECTION, FIELD ADJUSTABLE SPEED CONTROL, AND REMOTE ANALOG SPEED CONTROL. INPUT WHEN REMOTE CONTROL IS SPECIFIED, COORDINATED WITH THE BUILDING AUTOMATION SYSTEM. BASIS OF DESIGN IS TRANS/MITSUBISHI 2-PIPE SYSTEM. 3-PIPE SYSTEMS ARE ALLOWED. COST FOR INCREASE OR CHANGE OF ELECTRIC SERVICE FOR THE EQUIPMENT SELECTED SHALL BE BORNE BY THE H.C.														
MARK	DESCRIPTION	INDOOR UNIT						BASIS OF DESIGN												
		TYPE	FAN	DX COOLING	HEATING	ELECTRICAL SERVICE	APPROX. DIMENSIONS	LENGTH	WIDTH	HEIGHT	COOLING COIL CONDENSATE DRAIN PUMP (NOTE D)	MANUFACTURER	MODEL							
IU-1	CEILING SUSPENDED (CONCEALED)	-	875	0.6	22.3	17.5	75/64	56.5	-	16.5	208-3	3	15	5000	44"	29"	10"	-	TRANE	TPEFYP024
IU-2	CEILING SUSPENDED (CONCEALED)	-	1400	0.6	50.34	35.7	75/64	52.5	-	36.6	208-3	4	15	5000	65"	29"	10"	-	TRANE	TPEFYP054
IU-3	CEILING SUSPENDED (CONCEALED)	-	600	0.6	16.78	12.5	75/64	55.4	-	12.2	208-3	2	15	5000	36"	30"	10"	-	TRANE	TPEFYP018
IU-4	WALL MOUNTED (EXPOSED)	-	425	-	16.78	11.1	75/64	55.4	-	12.2	208-3	0.5	15	5000	36"	10"	12"	-	TRANE	TPKFYP018

VRF CONDENSING UNITS - AIR-COOLED																
GENERAL NOTES: A. REFER TO VRF MULTI-SPLIT A/C SYSTEMS SCHEDULE FOR ASSOCIATED INDOOR UNITS. B. CONDENSING UNIT COOLING CAPACITY SHALL BE BASED ON 95°F AMBIENT CONDITIONS. HEATING CAPACITY SHALL BE BASED ON 5°F AMBIENT CONDITIONS. C. WHEN APPLICABLE, REFER TO SPECIFICATIONS FOR VIBRATION ISOLATOR TYPES AND REQUIREMENTS. D. REFRIGERANT PIPING - SIZES LISTED ARE APPROX. CIRCUITING, SIZING, NUMBER OF PIPES AND CIRCUITS, ARRANGEMENT, ETC. SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.					E. ELECTRIC SERVICES FOR OUTDOOR UNIT AND INDOOR UNIT - SINGLE POINT POWER SERVICE CONNECTIONS TO EACH UNIT. UNLESS NOTED OTHERWISE, ADEQUACY OF LISTED CIRCUIT SIZES MUST BE VERIFIED BY H.C. AND UNIT SUPPLIER. COST FOR INCREASE OR CHANGE OF ELECTRIC SERVICE FOR EQUIPMENT SELECTED SHALL BE BORNE BY H.C. F. WHEN VARIABLE SPEED COMPRESSOR IS SELECTED, SPEED CONTROLLER SHALL BE INTEGRAL WITH UNIT.											
MARK	DESCRIPTION	COMPRESSORS		ELECTRICAL SERVICE		DIMENSIONS		REFRIG. CONN. SIZES		MISC.		BASIS OF DESIGN				
		MINIMUM QUANTITY	VARIABLE SPEED QUANTITY	VOLTAGE - PHASE	MIN CIRCUIT AMPS (MCA)	MAX OVER CURRENT PROTECTION (MOCP)	MINIMUM SCQR (AMPS)	LENGTH	WIDTH	HEIGHT	LIQUID	SUCTION	APPROXIMATE WEIGHT (LBS)	MANUFACTURER	MODEL	
HP-1	HEAT RECOVERY	1	1	208-3	41	60	5000	49"	30"	72"	0.75"	1.13"	625	TRANE	TURYE120	1

VRF BRANCH CONTROLLERS

GENERAL NOTES:
A. COORDINATE REQUIRED POWER CONNECTION.

MARK	MIN. NUMBER OF CIRCUITS	ELECTRICAL SERVICE		APPROX. DIMENSIONS		
		VOLTAGE - PHASE	WATTS	LENGTH	WIDTH	HEIGHT
BC-1	5	208-3	800	24"	20"	10"

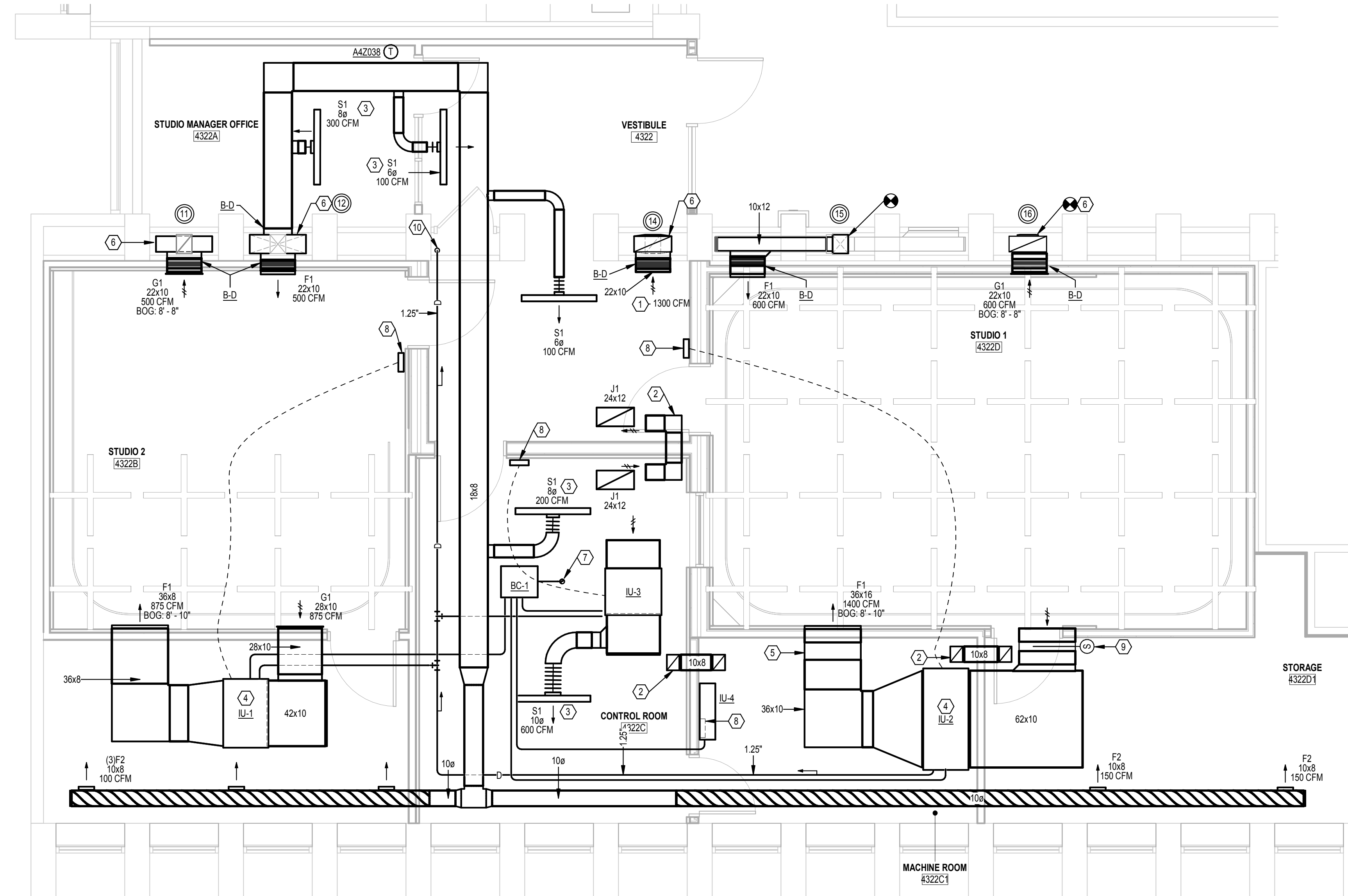


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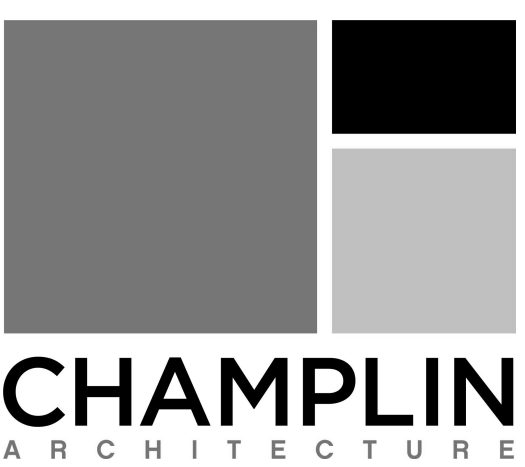
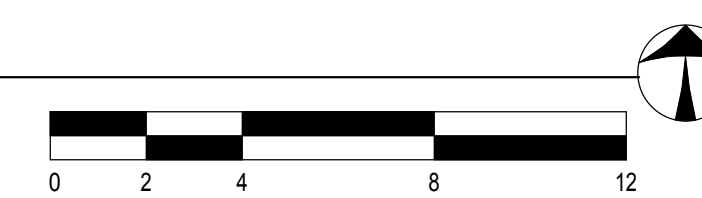
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GENERAL NOTES

- A. HATCHED DUCTWORK SHALL BE DOUBLE WALL INSULATED. REFER TO DUCT CONSTRUCTION SCHEDULE.
- B. REFRIGERANT PIPING IS SHOWN IN SINGLE LINE. IT IS EXPECTED THAT BOTH THE LIQUID AND SUCTION LINES WILL BE ROUTED TOGETHER. COORDINATE FINAL ROUTING, OFFSETS, FITTINGS, ETC. WITH VRF MANUFACTURER TO DETERMINE THE CORRECT REFRIGERANT CHARGE AND PIPE SIZING.
- NOTES**
1. RETURN DUCT OPEN TO THE PLENUM ABOVE THE CEILING. PROVIDE MANUAL BALANCE DAMPER TO ACHIEVE AIRFLOW SPECIFIED ON PLAN.
 2. PROVIDE TRANSFER AIR DUCTWORK BETWEEN SPACES WITH A MINIMUM OF TWO ELBOW FITTINGS FOR SOUND ATTENUATION PURPOSES. INTERNALLY LINE PER SPECIFICATIONS AND SIZE 10X8 UNLESS SHOWN OTHERWISE ON PLANS. IN EXPOSED CEILING SPACES TURN ELBOW FITTINGS UP TOWARD THE BOTTOM OF STRUCTURE. INSTALL AS HIGH AS POSSIBLE.
 3. PROVIDE LINEAR SLOT DIFFUSER FRAME THAT IS APPROPRIATE FOR CEILING TYPE. REFER TO REFLECTED CEILING PLANS.
 4. INSTALL EQUIPMENT AND DUCTWORK AS TIGHT AS POSSIBLE TO BOTTOM OF STRUCTURE.
 5. PROVIDE ECCENTRIC TRANSITION FITTING TO BACK OF SUPPLY GRILLE.
 6. PROVIDE NEW DUCTWORK AND TRANSITION FITTING IN RISER TO ACCOMMODATE NEW GRILLE.
 7. REFRIGERANT PIPING UP TO ROOF. REFER TO ROOF PLAN.
 8. LOCAL CONTROLLER FROM VRF EQUIPMENT MANUFACTURER TO INCLUDE THERMOSTAT UNLESS NOTED OTHERWISE. REFER TO VRF EQUIPMENT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 9. PROVIDE DUCT MOUNTED TEMPERATURE SENSOR IN IU-2 RETURN DUCT IN LIEU OF A WALL-MOUNTED THERMOSTAT FOR FAN COIL UNIT CONTROL. THERMOSTAT SHALL CONTROL THE FAN COIL UNIT AND THE ASSOCIATED VAV BOX A42045 LOCATED IN THE BASEMENT.
 10. ROUTE NEW CONDENSATE DRAIN LINE INTO EXISTING SHAFT AND TIE INTO EXISTING PLUMBING DRAIN RISER ON FLOOR BELOW. COORDINATE NEW HVAC WORK AND PLUMBING DEMOLITION WORK WITH PLUMBING CONTRACTOR.



1 LEVEL THREE HVAC FLOOR PLAN - NEW WORK
SCALE: 1/4" = 1'-0"



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FAC 24-03 Move and Upgrade eLearn Production Studio (Re-bid)

SINCLAIR COMMUNITY COLLEGE
444 W 3rd St,
Dayton, OH 45302
Building 4

ISSUANCES

No.	Description	Date
	75% REVIEW SET	10/22/2023
	90% REVIEW SET	10/23/2023
1	CONSTRUCTION DOCS	11/13/2023
2	ADDENDUM 2	12/08/2023
3	CD RE-BID	02/12/2024

Drawn By
AJS

Checked By
AJS

Client No.
659

Project No.
7262



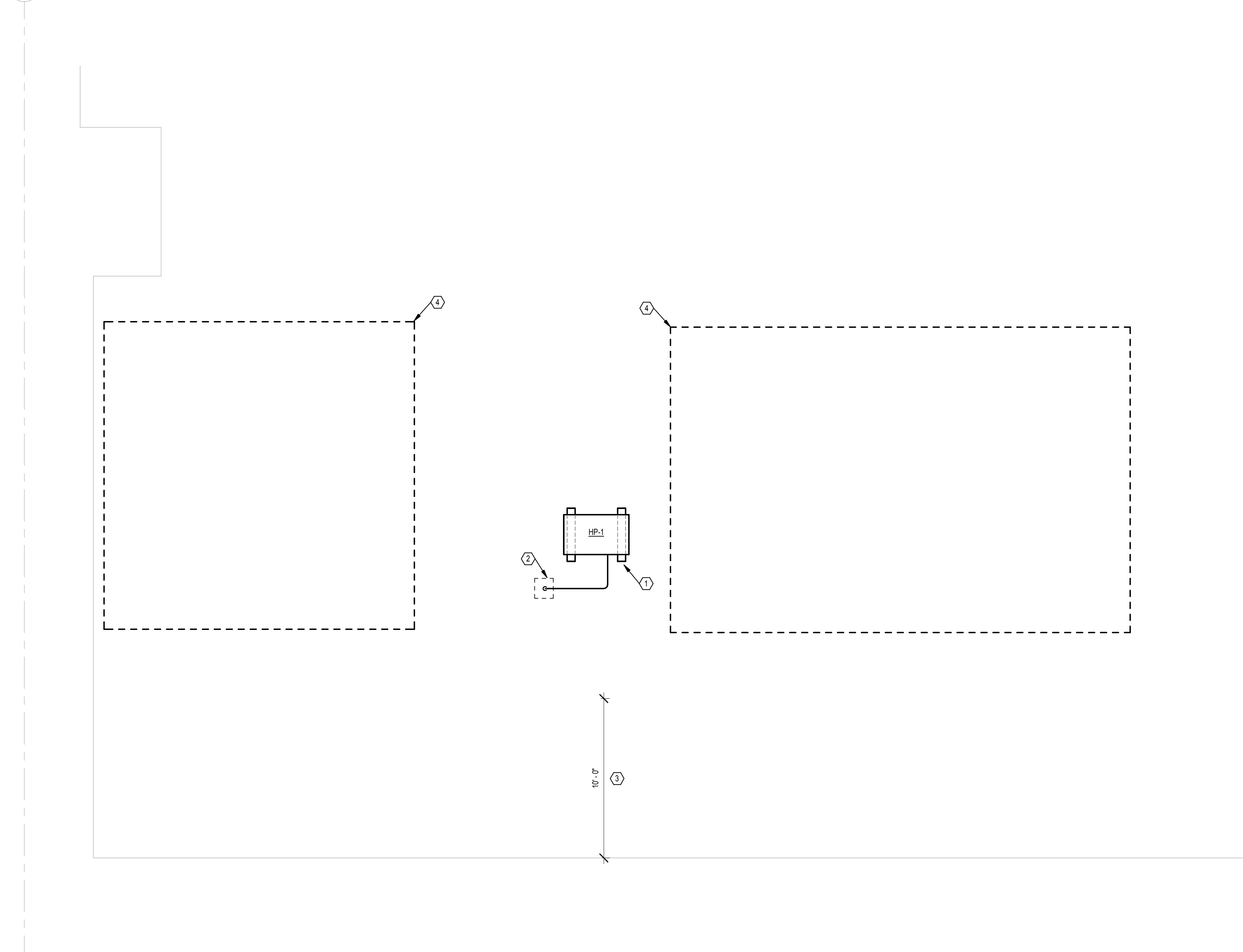
THIRD FLOOR NEW WORK

H102

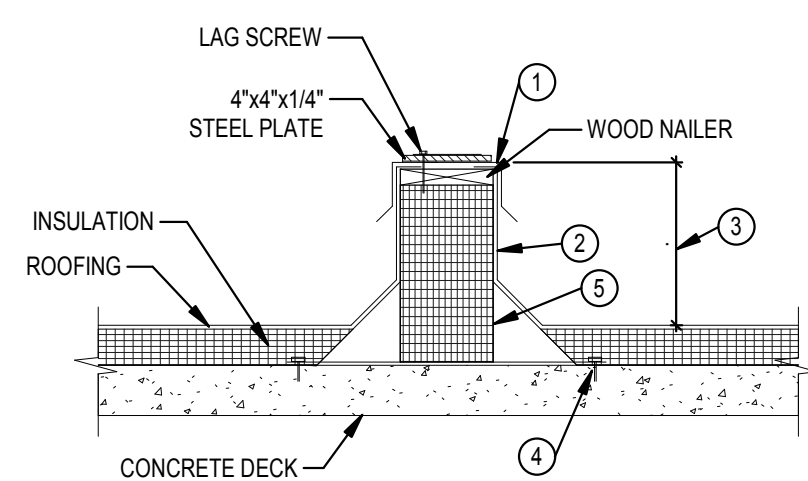


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1 HVAC ROOF PLAN - NEW WORK
SCALE: 1/4" = 1'-0"



2 HP-1 ROOF EQUIPMENT SUPPORT
SCALE: NONE

NOTES

1. PROVIDE COUNTER-FLASHING.
2. HEAVY GAUGE CONTINUOUS SUPPORT EXTENDS 8" BEYOND LAST EQUIPMENT LEG. SCREW ATTACHMENT TO DECK.
3. MINIMUM 12 INCHES.
4. EXPANSION LAGS TO DECK.
5. 14 INCH HIGH INSULATED STEEL CURB.

GENERAL NOTES

- A. EQUIPMENT LOCATED ON THE ROOF AND EXPOSED TO WIND MUST MEET RESTRAINT REQUIREMENTS AS DESCRIBED IN SPECIFICATION SECTION 23 05 30.
- B. REFRIGERANT PIPING IS SHOWN IN SINGLE LINE. IT IS EXPECTED THAT BOTH THE LIQUID AND SUCTION LINES WILL BE ROUTED TOGETHER. COORDINATE FINAL ROUTING, OFFSETS, FITTINGS, ETC. WITH VRF MANUFACTURER TO DETERMINE THE CORRECT REFRIGERANT CHARGE AND PIPE SIZING.

NOTES

1. POSITIVELY ATTACH NEW OUTDOOR UNIT TO EQUIPMENT RAILS AND THE BUILDING STRUCTURE IN ORDER TO MEET WIND RESTRAINT REQUIREMENTS. FIELD VERIFY AND COORDINATE FINAL INSTALLATION LOCATION WITH STRUCTURE BELOW BUT DO NOT LOCATE NEW EQUIPMENT ABOVE THE FOOTPRINT OF EITHER STUDIO FOR SOUND MITIGATION PURPOSES.
2. FIELD VERIFY FINAL ROOF PENETRATION LOCATION WITH EXISTING STRUCTURE BELOW. PROVIDE PIPE PENETRATION CURB EQUAL TO PATE MODEL PCA. COORDINATE CURB WITH FINAL PIPE DIAMETERS AS DETERMINED BY THE VRF EQUIPMENT MANUFACTURER.
3. ENSURE NEW EQUIPMENT IS LOCATED AND INSTALLED A MINIMUM OF 10'-0" AWAY FROM BUILDING EDGE.
4. DASHED LINED INDICATES APPROXIMATE STUDIO AREA BELOW. DO NOT MOUNT NEW OUTDOOR VRF UNIT OVER THE NEW STUDIO SPACES.



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FAC 24-03 Move and Upgrade eLearn Production Studio (Re-bid)



444 W 3rd St,
Dayton, OH 45302
Building 4

ISSUANCES

No.	Description	Date
	75% REVIEW SET	10/22/2023
	90% REVIEW SET	10/23/2023
1	CONSTRUCTION DOCS	11/13/2023
3	CD RE-BID	02/12/2024

Drawn By AJS	
Checked By AJS	
Client No. 659	
Project No. 7262	

ROOF PLAN - NEW WORK

H103



PROJECT NO. 2023-06062

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FAC 24-03 Move and Upgrade eLearn Production Studio (Re-bid)



444 W 3rd St,
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Building 4

ISSUANCES

No.	Description	Date
	75% REVIEW SET	10/02/2023
	90% REVIEW SET	10/23/2023
1	CONSTRUCTION DOCS	11/13/2023
2	ADDENDUM 2	12/08/2023
3	CD RE-BID	02/12/2024

Drawn By
AJS

Checked By
AJS

Client No.
659

Project No.
7262



THIRD FLOOR
DEMOLITION WORK

HD102

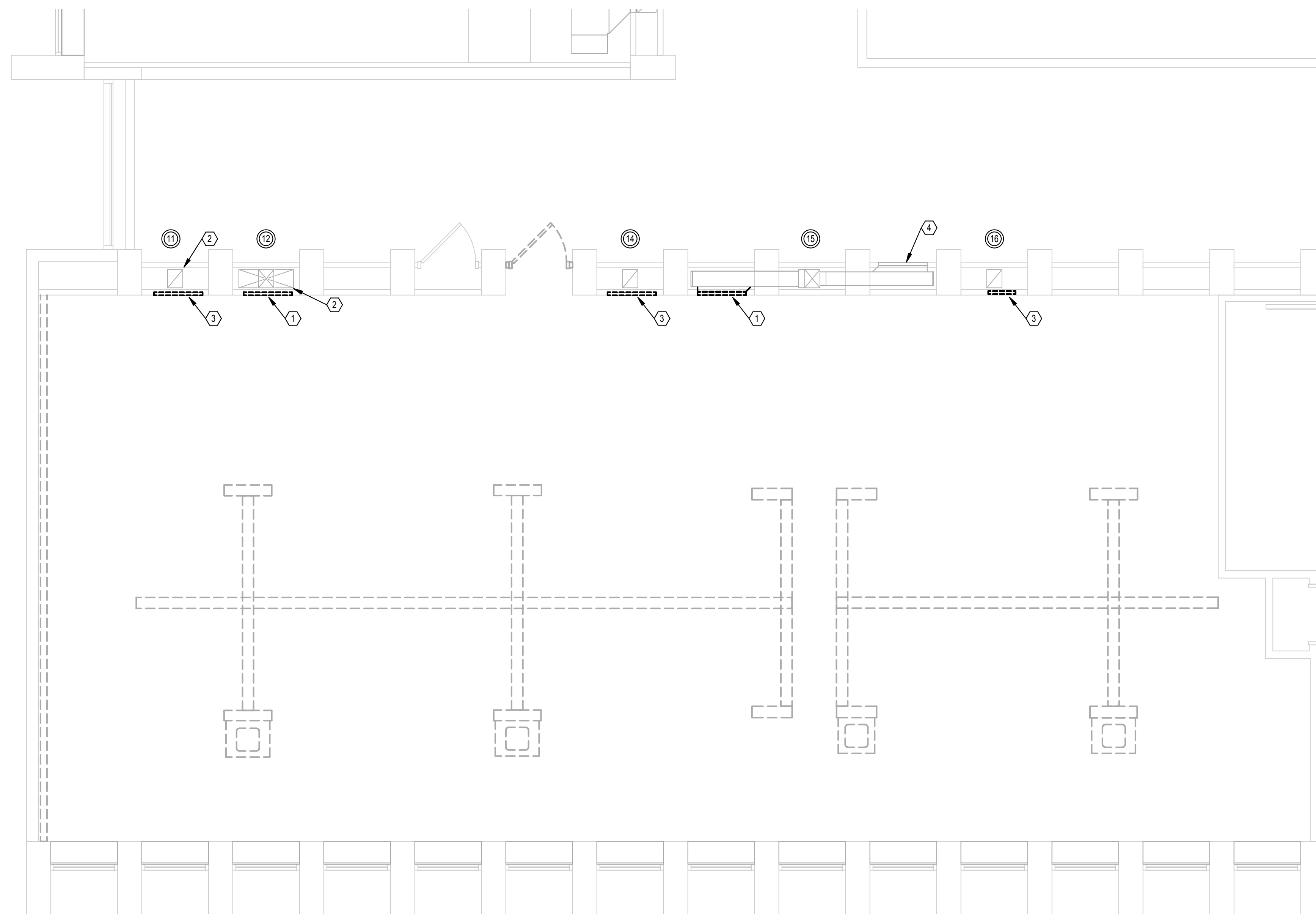


PROJECT NO. 2023-06062

NOTES

1. REMOVE EXISTING SUPPLY AIR GRILLE AND ASSOCIATED DUCTWORK BACK TO RISER.
2. REMOVE SECTION OF EXISTING DUCT RISER TO ACCOMMODATE NEW DUCTWORK AND GRILLE. REFER TO NEW WORK PLAN AND NOTES.
3. REMOVE EXISTING RETURN AND GRILLE AND ASSOCIATED DUCTWORK BACK TO RISER.
4. EXISTING AIR DEVICE SERVING THE COMMON AREA TO REMAIN.

H92



1 THIRD FLOOR HVAC PLAN - REMOVALS
SCALE: 1/4" = 1'-0"

