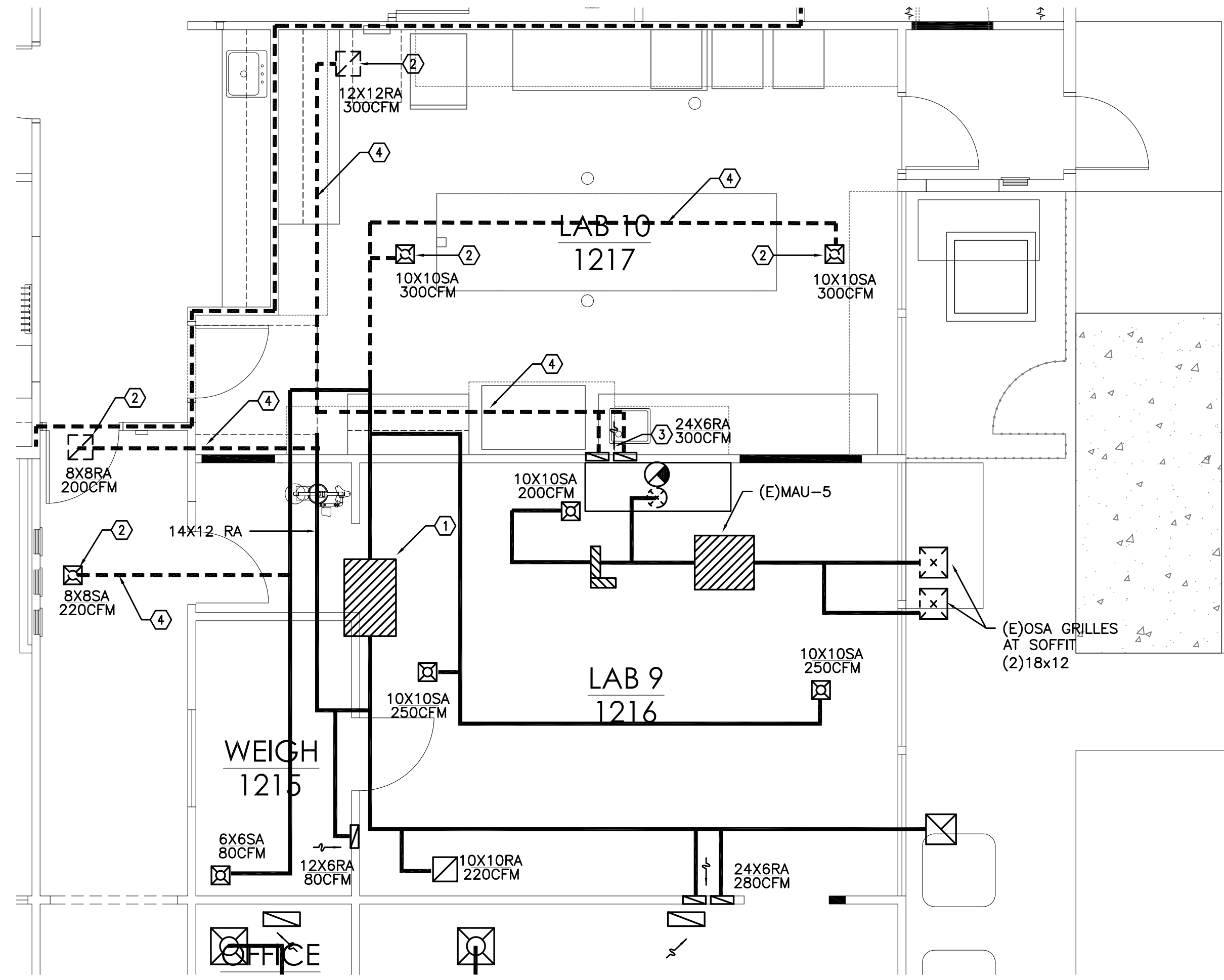


PLAN REVIEW APPROVAL STAMP



- KEYED NOTES:
- ① - (E)HP-1 TO REMAIN OPERATIONAL.
 - ② - REMOVE (E)SA/RA GRILLE AND FIRE DAMPER.
 - ③ - REMOVE (E)LOW WALL RETURN GRILLE. CAP DUCT IN WALL AND PATCH WALL.
 - ④ - REMOVE (E)DUCT AND CAP.

1 MECHANICAL DEMO PLAN
 M1.0 SCALE: 1/4"=1'-0"

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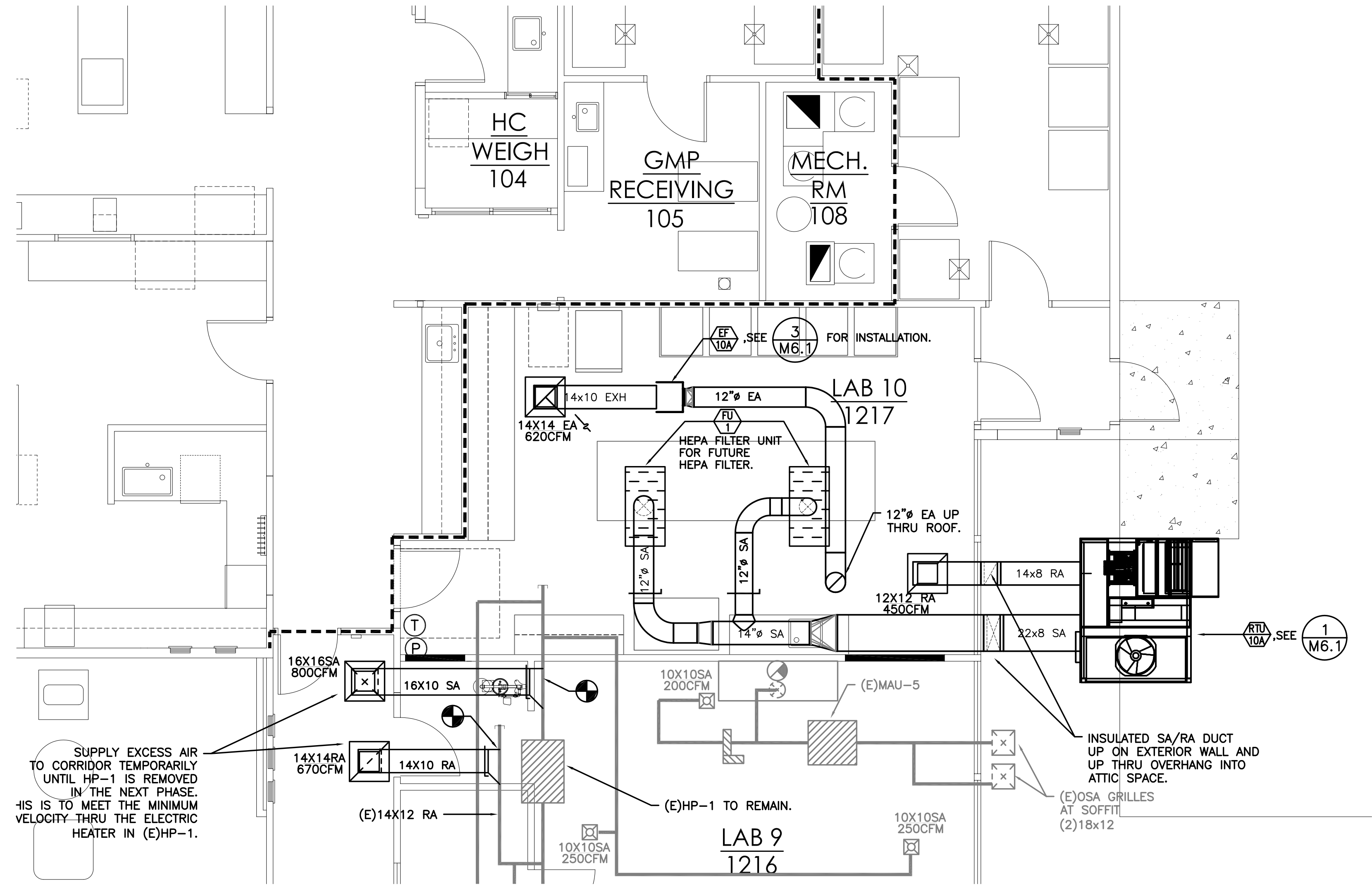
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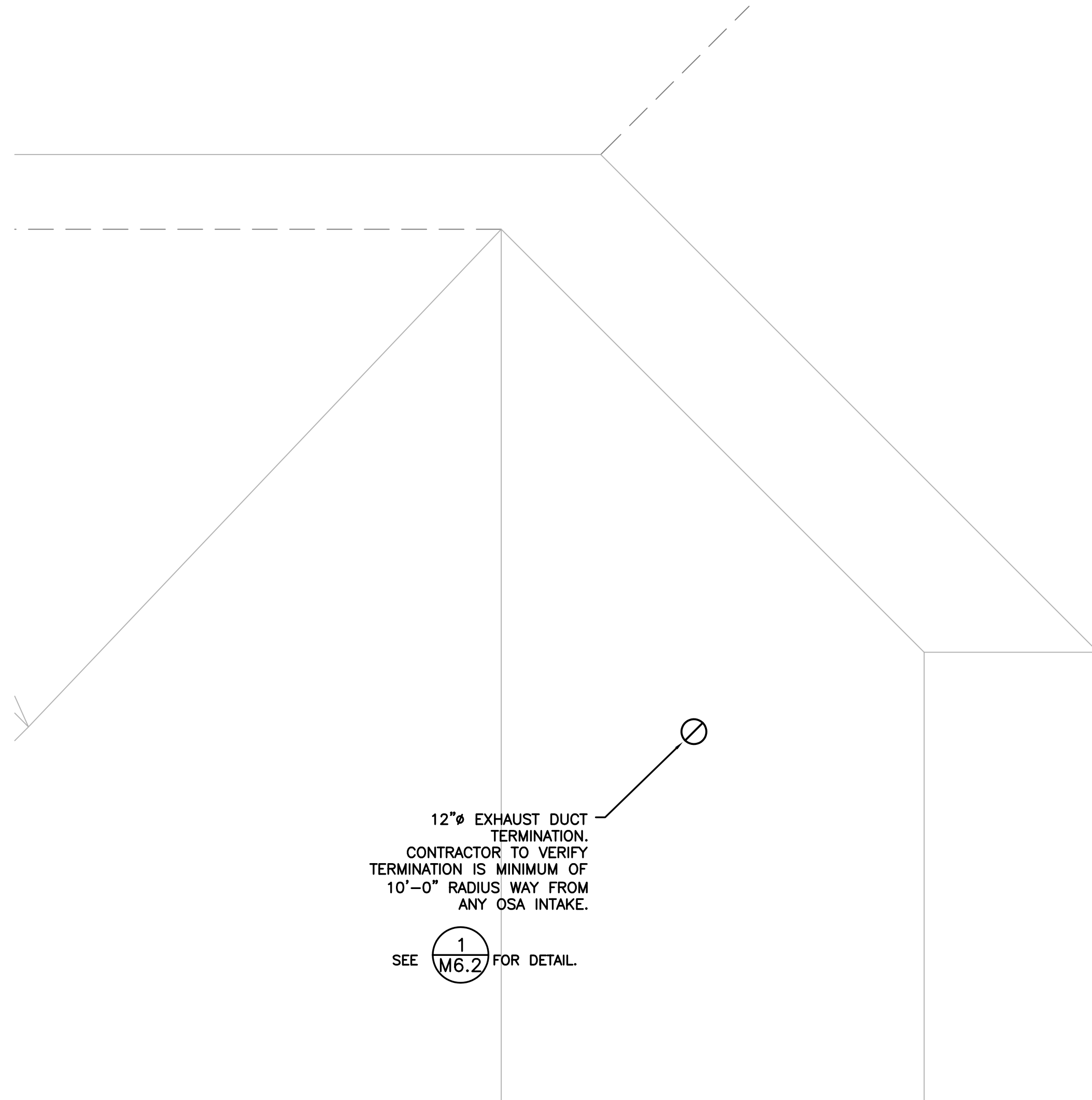
PHASE II LAB 10

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PLAN REVIEW APPROVAL STAMP



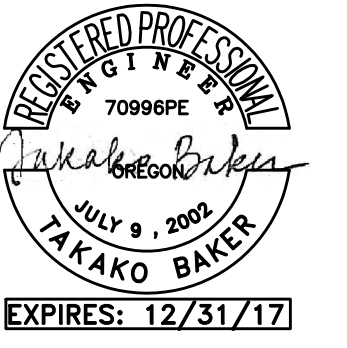
1 MECHANICAL FLOOR PLAN
M2.0 SCALE: 1/4" = 1'-0"



2 MECHANICAL ROOF PLAN
M2.0 SCALE: 1/4" = 1'-0"

12" EXHAUST DUCT TERMINATION. CONTRACTOR TO VERIFY TERMINATION IS MINIMUM OF 10'-0" RADIUS WAY FROM ANY OSA INTAKE.
 SEE **1** M6.2 FOR DETAIL.

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PHASE II LAB 10



MECHANICAL LEGEND

	SUPPLY AIR DIFFUSER	AFF	ABOVE FINISH FLOOR
	RETURN AIR GRILLE	AHU	AIR HANDLING UNIT
	EXHAUST AIR GRILLE	B.D.	BOTTOM OF DUCT
	PERFORATED RETURN AIR PANEL	BHP	BRAKE HORSEPOWER
	DIRECTIONAL AIR FLOW	BTU	BRITISH THERMAL UNITS
	MANUAL VOLUME DAMPER	CFM	CUBIC FEET PER MINUTE
	SUPPLY OR OUTSIDE AIR DUCT UP & DOWN	CONN.	CONNECTION
	RETURN AIR DUCT UP & DOWN	CONT.	CONTINUATION
	EXHAUST AIR DUCT UP & DOWN	CW	DOMESTIC COLD WATER
	SUPPLY OR OUTSIDE AIR DUCT UP & DOWN	DB	DRY BULB
	RETURN AIR DUCT UP & DOWN	DIA.	DIAMETER
	EXHAUST AIR DUCT UP & DOWN	DIST.	DISTRIBUTION
	VAV TERMINAL UNIT	EA	EXHAUST AIR
	VVT TERMINAL UNIT	EDB	ENTERING DRY BULB TEMPERATURE
	EXISTING	EWB	ENTERING WET BULB TEMPERATURE
	CONNECT TO EXISTING	EWT	ENTERING WATER TEMPERATURE
	THERMOSTAT OR TEMP. SENSOR	FF	FINISH FLOOR
	NOTE	FIXT.	FIXTURE
	EQUIPMENT DESIGNATOR	FPM	FEET PER MINUTE
	BALL VALVE	FPS	FEET PER SECOND
	GATE VALVE	FT.	FEET / FOOT
	CHECK VALVE	GA.	GAUGE
	BALANCING VALVE	GPM	GALLONS PER MINUTE
	THERMOMETER	H	HEIGHT
	DIRECTION OF FLOW	HP	HORSEPOWER
	PUMP	I.D.	INSIDE DIAMETER
	STRAINER	IN.	INCHES
	PRESSURE GAUGE	L	LENGTH
	PETE'S PLUG	LBS.	POUNDS
	DOUBLE CHECK ASSEMBLY	LDB	LEAVING DRY BULB
	PRESSURE REDUCING VALVE	LWB	LEAVING WET BULB
	UNION	LWT	LEAVING WATER TEMPERATURE
	2-WAY CONTROL VALVE	MAX.	MAXIMUM
	3-WAY CONTROL VALVE	MBH	THOUSANDS OF BTUs PER HOUR
	CAP	MIN.	MINIMUM
	SMOKE DETECTOR	NC	NOISE CRITERIA
	MOTORIZED DAMPER	N.C.	NORMALLY CLOSED
		N.I.M.	NOT IN MECHANICAL
		NO.	NUMBER
		N.O.	NORMALLY OPEN
		O.A.	OUTSIDE AIR
		P.	PERSON
		PSI	POUNDS PER SQUARE INCH
		P/T	PRESSURE / TEMPERATURE
		R.A.	RETURN AIR
		RECT.	RECTANGULAR
		REQ'D	REQUIRED
		S.A.	SUPPLY AIR
		S.P.	STATIC PRESSURE
		SQ.	SQUARE
		TEMP.	TEMPERATURE
		TYP.	TYPICAL
		VAV	VARIABLE AIR VOLUME
		W	WIDTH
		WB	WET BULB
		WPD	WATER PRESSURE DROP
		Ø	DIAMETER
		(E)	EXISTING
		(D)	DEMOLISH
			NEW WORK
		HWS	(HWS) HEATING WATER SUPPLY
		HWR	(HWR) HEATING WATER RETURN
		▲	FIRE DAMPER
		■	FIRE / SMOKE DAMPER
		▲	SMOKE DAMPER
			SEISMIC BRACING
			LATERAL BRACING
			LONGITUDINAL BRACING
			LONGITUDINAL & LATERAL BRACING

FAN COIL UNIT

MARK NUMBER	RTU 10A
SERVICE	LAB 10
AIRFLOW(CFM)	1050 CFM
OUTSIDE AIR (CFM)	620 CFM
ESP (*W.G.)	1.5" *
FAN HP	2.3 HP
FAN RPM/BHP	2006 RPM/0.85BHP
EC-MOTOR	YES
PRE-FILTER	2" 30 %
DX COIL EAT (DB/WB) - COOLING 86.8/60 °F LAT (DB/WB) - COOLING 55.9/47.2 °F SENSIBLE/TOTAL COOLING CAPACITY 35,480 BTUH EAT (DB) - HEATING 83 °F LAT (DB) - HEATING 83 °F HEATING CAPACITY (@5°F) 14,894 BTUH TYPE ELECT DUCT HEATER KW 18 KW CONTROL SCR* SEER 15.3 COP @ 47°F 4.06 TOTAL UNIT WEIGHT 1320 LBS BASIS OF DESIGN: DAIKIN DPS003A	
* INCLUDES PRESSURE DROP @ FUTURE HEPA FILTER.	

EXHAUST FANS

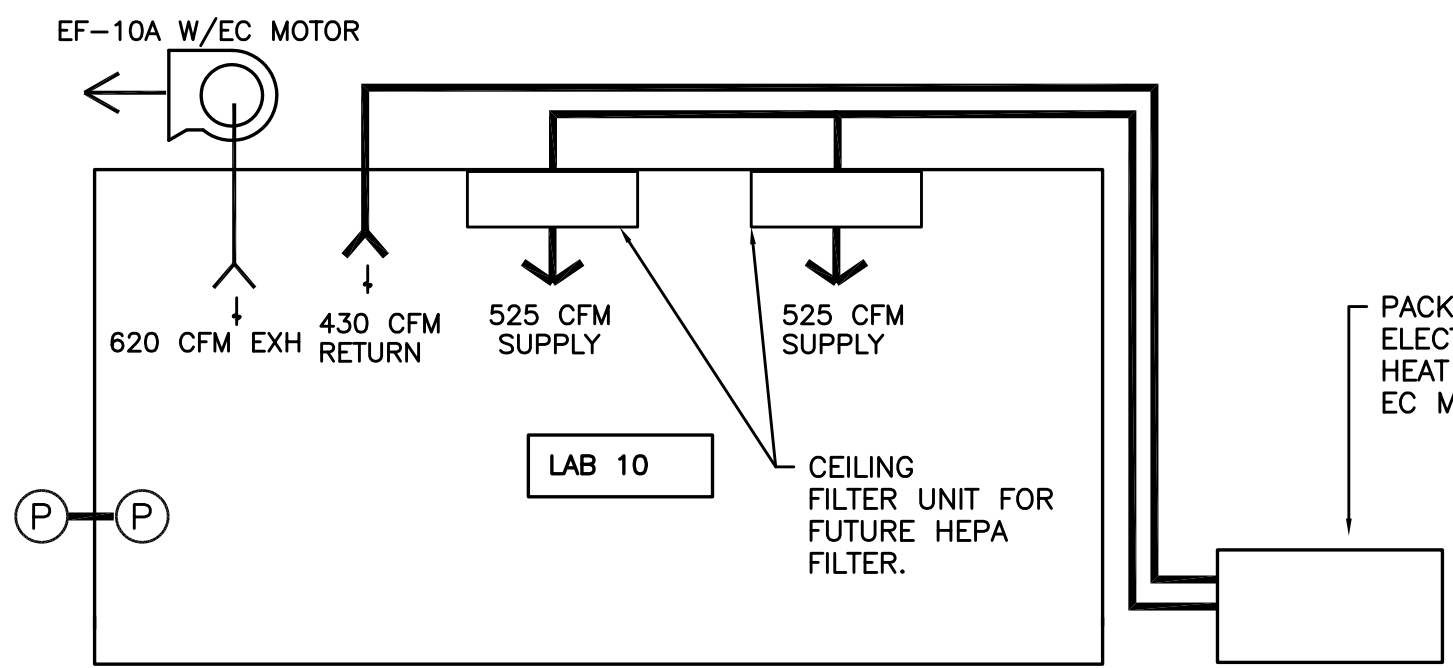
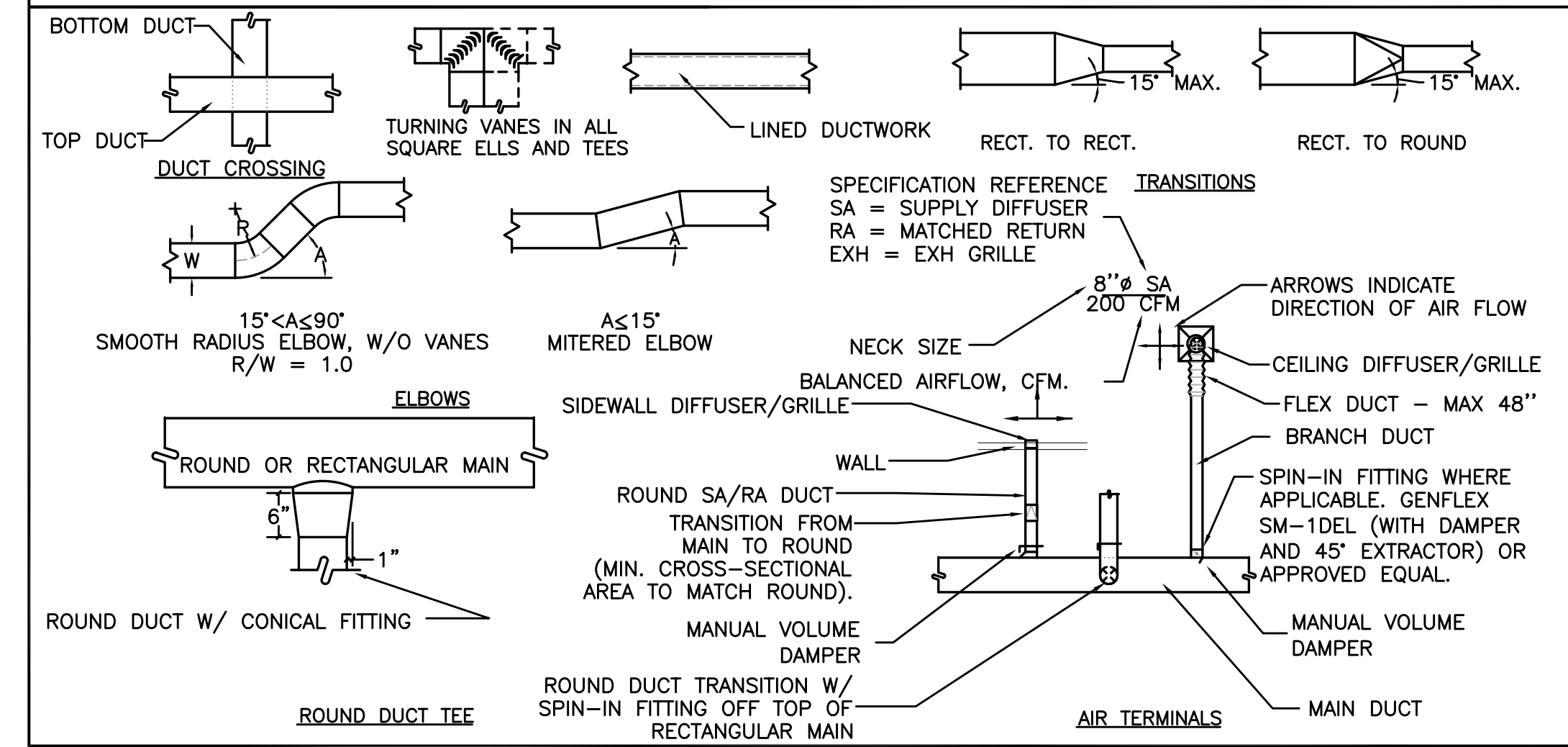
MARK NUMBER	EF 10A
TYPE	IN-LINE
SYSTEM	LAB 10
CFM	620
TOTAL SP. (IN H2O)	0.50"
RPM	1705
MOTOR WATTS OR HP	1/6
CONTROLLED BY	PRESSURE SENSOR
INTERLOCK WITH	-
FAN SPEED CONTROLLER	EC MOTOR*
WHEEL TYPE	BI
BACK DRAFT DAMPER	YES
ISOLATION	R.I.S.
DESIGN WEIGHT (LBS)	50
MAX. SONES	9.50
POWER (VOLTS/PHASE/HZ)	115/1
BASIS OF DESIGN:	GREENHECK SQ-95-VG

* PROVIDE WITH 0-10 INPUT SIGNAL TO CONTROL FAN SPEED TO MAINTAIN SPACE PRESSURE TO +0.05" W.G. WITH RESPECT TO THE CORRIDOR.

- NOTES:
 1. PROVIDE UNIT WITH 2-ELECTRICAL CONNECTIONS. ONE CIRCUIT FOR COMPRESSORS & CONDENSER FANS. SECOND CIRCUIT FOR FANS, CONTROLS, ELEC HEAT.
 2. SUPPLY FAN TO BE CONTROLLED TO MAINTAIN DISCHARGE PRESSURE.
 3. FAN PERFORMANCE SHOWN IS AT FUTURE CONDITION WHEN A HEPA FILTER IS INSTALLED.

FU 1 - BLANK 24X48 HEPA FILTER MODULE FOR FUTURE 99% HEPA FILTER. FLANDERS TH SERIES WITH 10" Ø DIA INLET CONNECTION, 525 CFM EA.

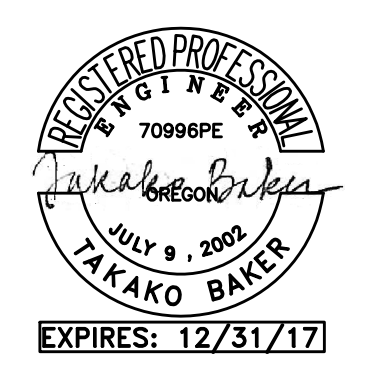
AIR DISTRIBUTION DETAILS



CONTROLS SEQUENCE:
 EF-10A: EF-10A IS EQUIPPED WITH EC MOTOR WITH INPUT SIGNAL. CONTROL EXHAUST FAN SPEED TO MAINTAIN SPACE PRESSURE @ -0.025" W.G. WITH RESPECT TO CORRIDOR. EXHAUST FAN OPERATES 24/7.
 RTU-10A: RTU-10A IS A PACKAGED HEAT PUMP UNIT WITH INVERTOR COMPRESSOR, ELECTRIC HEAT WITH SCR CONTROL, AND A SUPPLY FAN WITH EC-MOTOR. SUPPLY FAN SPEED IS CONTROLLED TO MAINTAIN DISCHARGE PRESSURE.

LAB 10: BASIS OF DESIGN:
 AMBIENT TEMPS:
 SUMMER: 95°F/64°F
 WINTER: -5°F
 DESIGN SPACE TEMPS:
 ROOM TEMP TEMP = 65°F - 75°F
 OFF HOURS TEMP SET POINT: (ADJUSTABLE, COORD. WITH OWNER)
 SPACE PRESSURE:
 NEGATIVE(-0.05" TO -0.01" W.G.) WITH RESPECT TO ADJACENT CORRIDOR.
 AIRFLOWS:
 1 CFM/SQFT EXHAUST/OA IS CODE MINIMUM.

PHASE II LAB 10



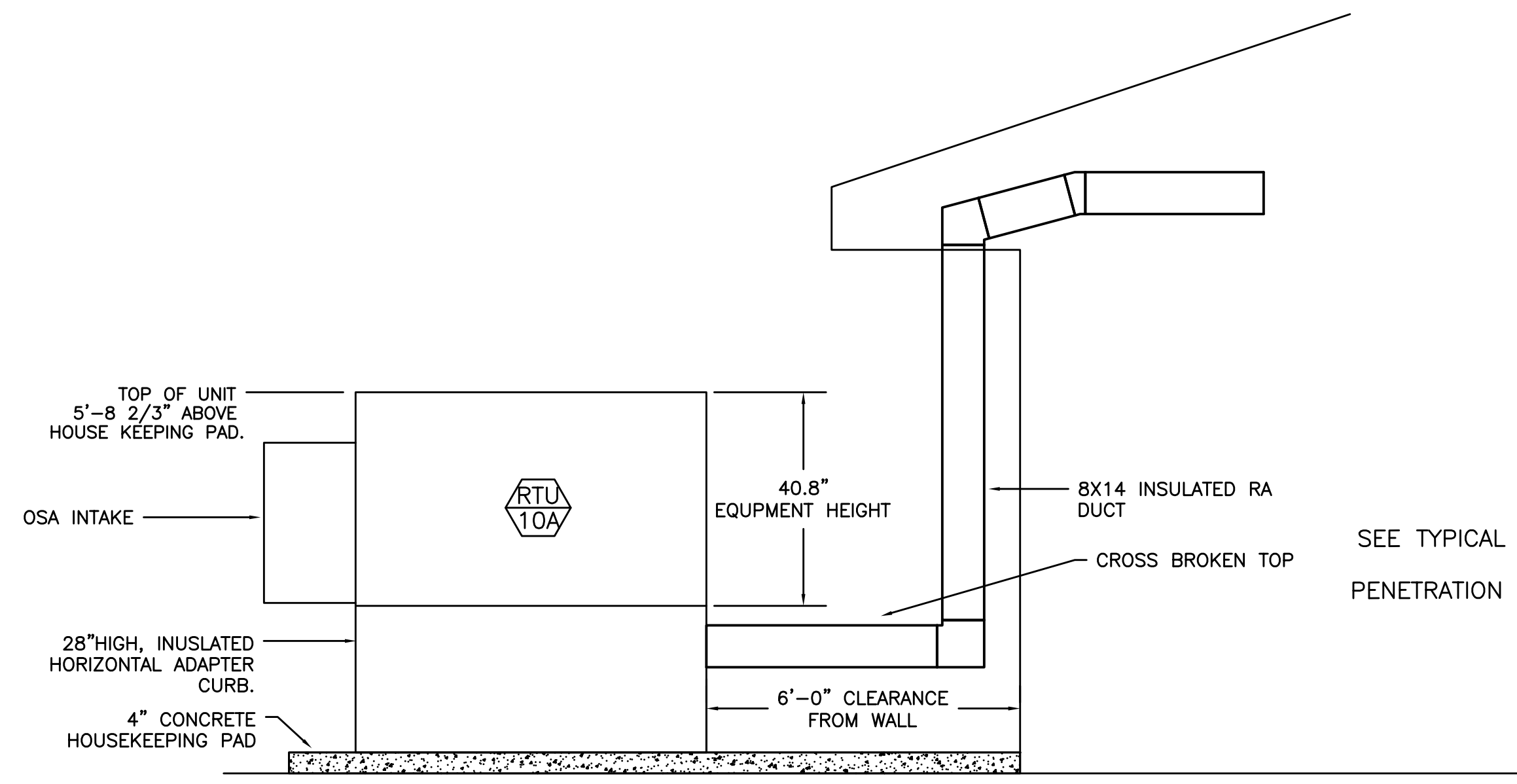
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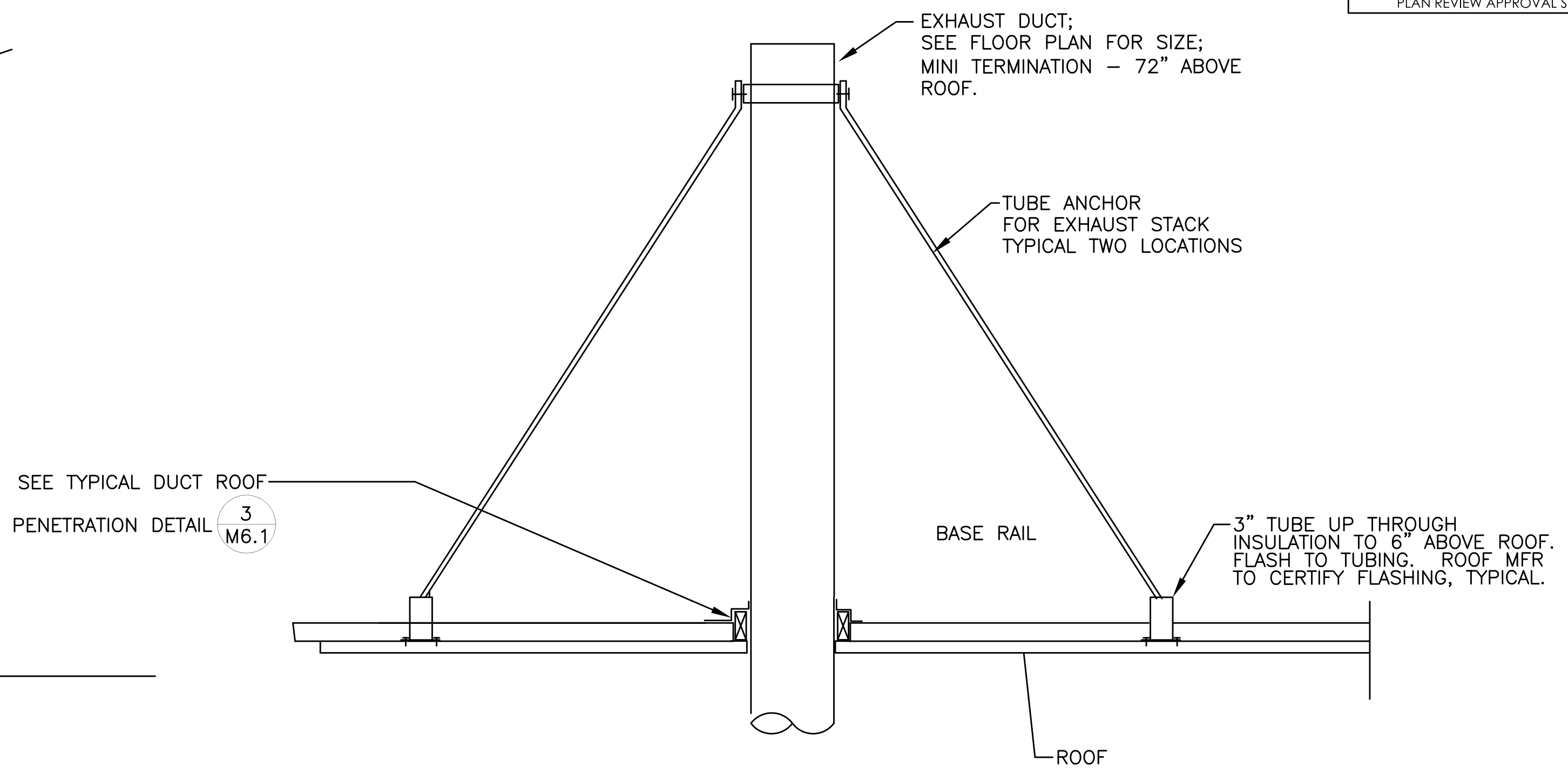
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MECHANICAL LEGEND AND SCHEDULES

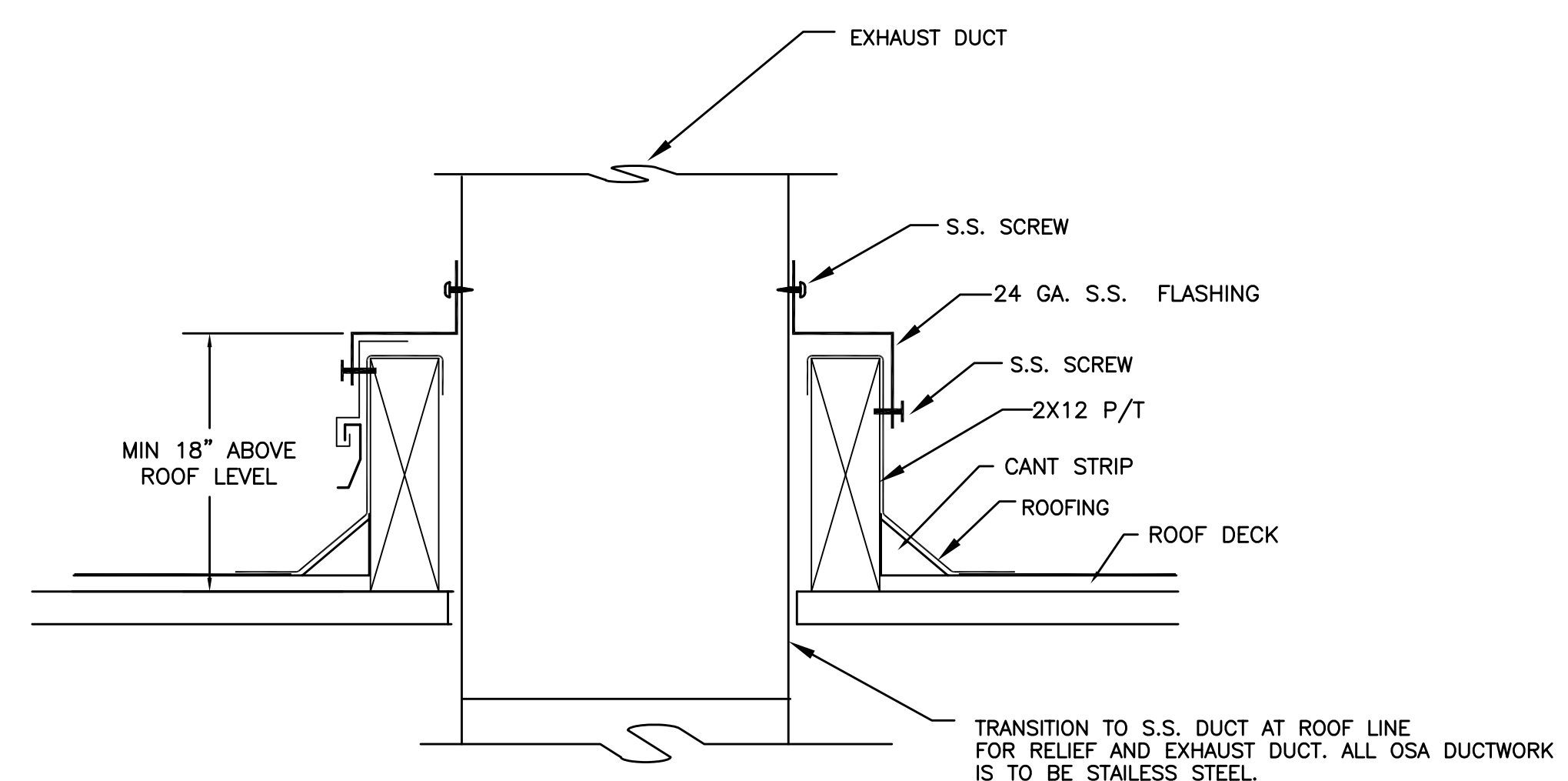
M6.0



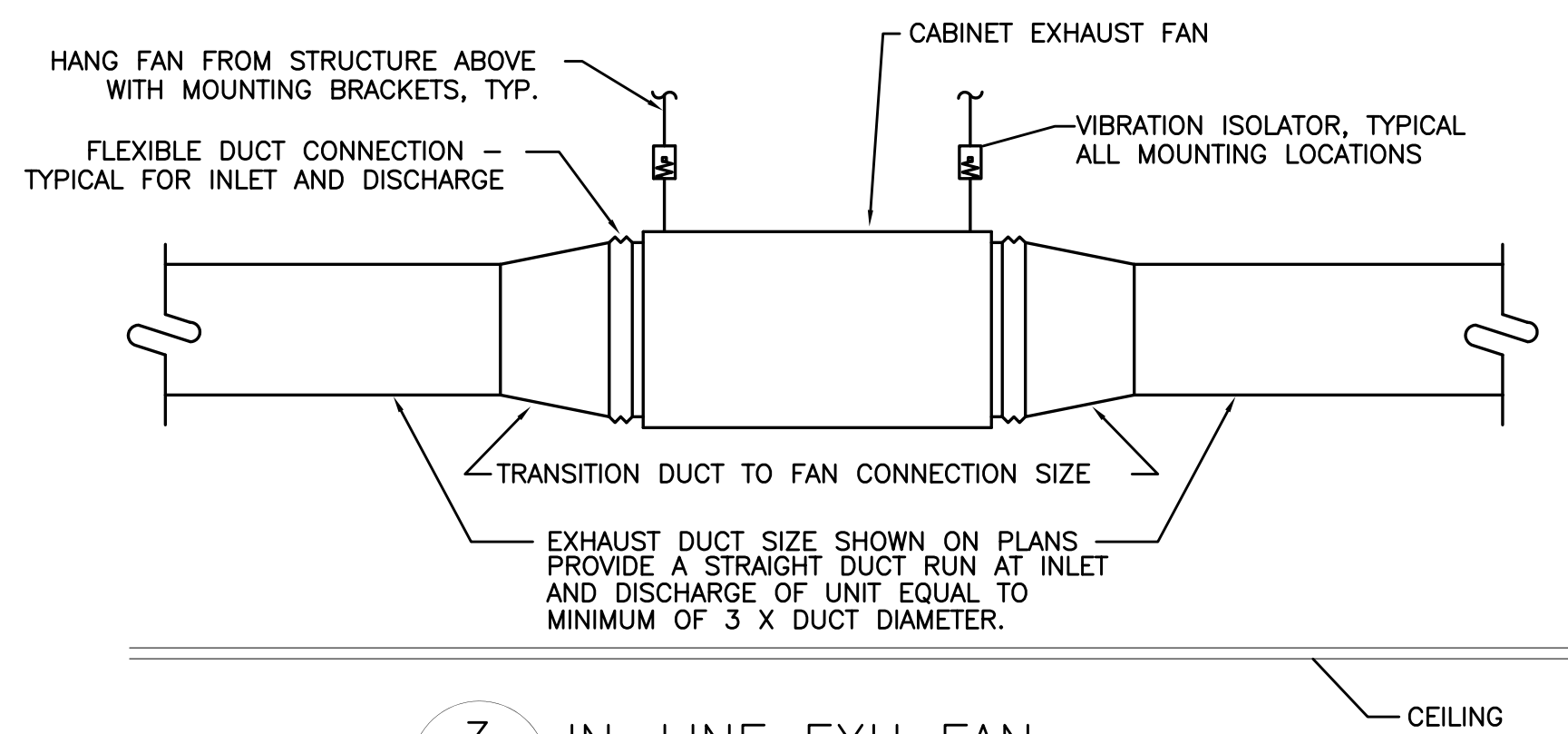
1 RTU-10A SECTION
 M6.1 SCALE: DETAIL



2 EXHAUST PENETRATION
 M6.1 SCALE: DETAIL

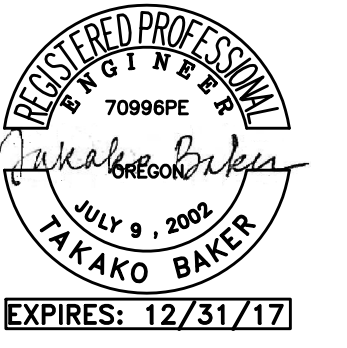


3 DUCT PENETRATION DETAIL
 M6.1 DETAIL



3 IN-LINE EXH FAN
 M6.2 SCALE: DETAIL

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