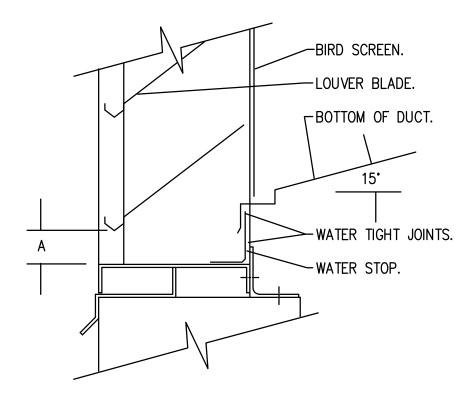
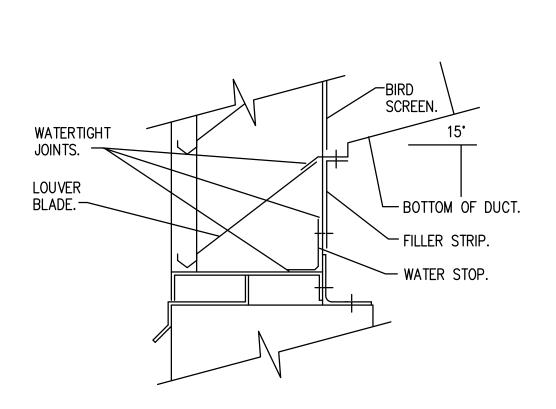
LOW PRESSURE DUCT CONSTRUCTION DETAILS — TYPICAL

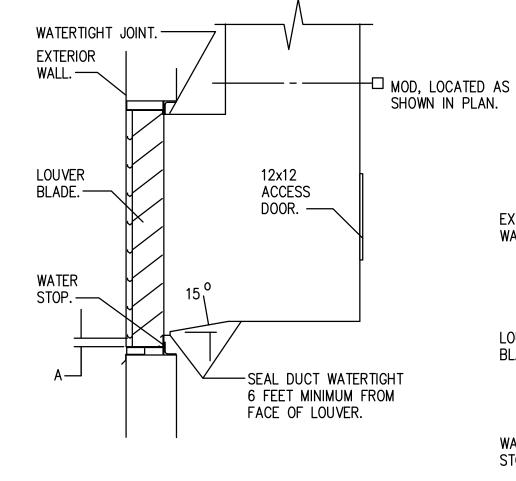


LOUVER CONNECTION DETAIL

NOTE: TYPICAL FOR LOUVERS AND BLOCK VENTS.
IF DIMENSION "A" IS LESS THAN 1 INCH
SEE MODIFIED LOUVER DETAIL AT RIGHT
(LOUVERS ONLY).

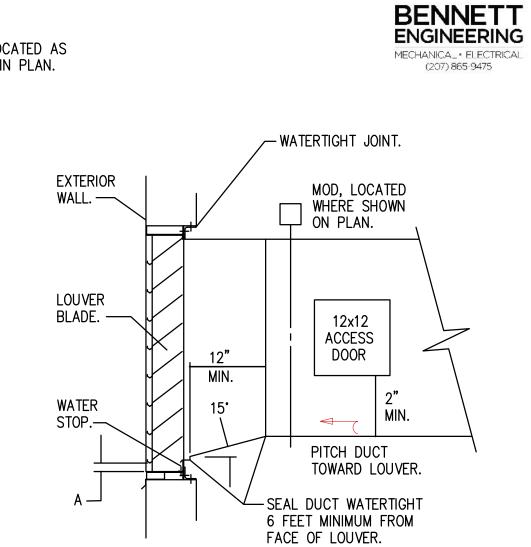


MODIFIED LOUVER DETAIL
NTS



LOUVER DETAIL WITH DUCT FROM ABOVE

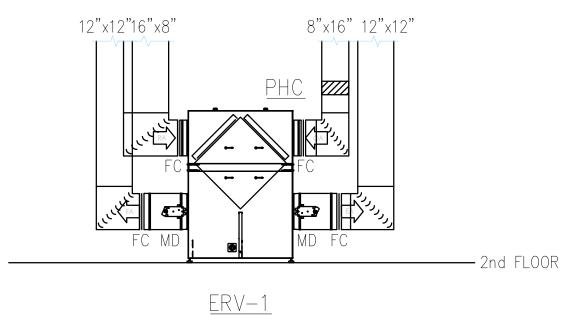
NOTE: IF DIMENSION "A" IS LESS THAN 1 INCH SEE MODIFIED LOUVER DETAIL THIS SHEET.



<u>LOUVER DETAIL WITH</u> <u>HORIZONTAL DUCT</u>

NTS

NOTE: IF DIMENSION "A" IS LESS THAN 1 INCH SEE MODIFIED LOUVER DETAIL THIS SHEET.



ERV-1 ELEVATION

P	LUMBING FIXTURE CONN	ECTION SCHEDULE						
TAG	DESCRIPTION	SAN	VENT	CW	HW			
P-1	ADA SINGLE BOWL SS KITCHEN SINK	1-1/2"	1-1/2"	1/2"	1/2"			

AIR	DEVIC	E PER	RFORM,	ANCE	SCHED	JLE					
TAG	PANEL SIZE(IN)	NECK SIZE(IN)	AIRFLOW (CFM)	SP.LOSS (IN.WG.)	THROW(L)	THROW(S)	Nc	BASIS OF DESIGN = SEIHO			
1710								DUCT CONN.(IN)	PATTERN	MODEL	
A	6"∼	4"∼	25-50	0.05	_	_	15	SEE DWGS	ROUND	TT-4	

LOUVER PERFORMANCE SCHEDULE										
TAG	AIR FLOW	SP LOSS (IN.WG)	AIR VEL. (FPM)	SIZE (INCHES) (W x H)		DRAINABLE (Y) OR (N)	BLADE ANGLE & FRAME DEPTH	BASIS OF DESIGN = RUSKIN		
TAG	(CFM)							SERVICE	MODEL	
L-1A	725	0.05	300	30x24	2.4	Y	35°, 6"	ERV-1 INTAKE/EXHAUST	ELF6375DX	
APPROXIM <i>A</i>	ATE SIZE S	CHEDULED	, FIELD VE	RIFY PRIOF	R TO ORDERII	NG.			<u> </u>	

ABBREVIATION DESCRIPTION

RTU

SD

SR-#

SQ.FT

TCP

TSP

TYP

U.N.O.

VAV-#

VTR

WSA

ZD-#

V/PH/HZ

REDUCED PRESSURE ZONE RETURN REGISTER TAG

ROOM TEMPERATURE SENSOR

SANITARY (DRAIN & WASTE)

SEASONAL ENERGY EFFICIENCY RATIO

RELIEF VALVE RAINWATER LEADER

SUPPLY AIR

SUPPLY FAN

SQUARE FEET

TEMPERATURE

TYPICAL

SMOKE DAMPER

SUPPLY GRILLE TAG STATIC PRESSURE SUMP PUMP TAG

SUPPLY REGISTER TAG

TEMPERATURE DIFFERENTIAL

TOTAL STATIC PRESSURE

UNLESS NOTED OTHERWISE

VARIABLE AIR VOLUME BOX TAG

VARIABLE FREQUENCY INVERTER DRIVE

UNIT HEATER TAG

VACUUM BREAKER

VENT THRU ROOF

WALL CLEANOUT

WIRE SIZING AMPS

ZONE DAMPER TAG

WATER GAGE

WET BULB

VOLTS/PHASES/HERTZ

WATER PRESSURE DROP

WATER TEMPERATURE DROP

TEMPERATURE CONTROL PANEL
THERMOSTATIC MIXING VALVE TAG

MECHANICAL AND PLUMBING SYMBOLS AND ABBREVIATIONS LEGEND NOTE - USE SYMBOLS AND ABBREVIATIONS AS APPLICABLE FOR THIS MECHANICAL DRAWING SET.

					SOME SYMBOLS	AND ABBREVIATION	IS IN THIS LEGEND MAY NOT APPLY.				
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
—— CA——	COMPRESSED AIR PIPING (CA)	Ø	BALL VALVE	\bigcirc	TSTAT OR SENSOR W/ TAMPERPROOF GUARD	B-#	BOILER TAG	EWB	ENTERING WET BULB	LB	POUNDS
—c—	CONDENSATE DRAIN PIPING (C)	•	BALL VALVE	\bigcirc	MANUAL AIR VENT	BD-#	BYPASS DAMPER TAG	EWH-#	ELECTRIC WATER HEATER TAG	LD-#	LINEAR DIFFUSER TAG
—_CTR—_	COOLING TOWER RETURN PIPING (CTR)	Ø-E	3/4" BALL VALVE WITH 3/4" HOSE END	(<u>)</u>	NOTE TAG (NUMBER)	BFP-#	BACKFLOW PREVENTER TAG	EWT	ENTERING WATER TEMPERATURE	LTHWS/R	LOW TEMPERATURE HOT WATER
—_CTS—	COOLING TOWER SUPPLY PIPING (CTS)	\bowtie	GATE VALVE	(A)250	AIR DEVICE TAG (LETTER) WITH CFM	BHP	BRAKE HORSEPOWER	EXG	EXISTING	LRA	LOCKED ROTOR AMPS
—— CWR —	CHILLED WATER RETURN PIPING (CWR)		PRESSURE REDUCING VALVE	101	ROOM NUMBER	BTUH	BRITISH THERMAL UNITS PER HOUR	EXH	EXHAUST	LWCO	LOW WATER CUTOUT
—— CWS —	CHILLED WATER SUPPLY PIPING (CWS)	Á	FUSIBLE VALVE	((<u>((</u> ((((TURNING VANES	CBD	COUNTER BALANCED DAMPER	FC	FLEXIBLE CONNECTION	LWT	LEAVING WATER TEMPERATURE
—_FOR—	FUEL OIL RETURN PIPING (FOR)		STRAINER W/BLOWDOWN BALL VALVE		DUCT W/MANUAL DAMPER	CC-#	COOLING COIL TAG	FC0	FLOOR CLEANOUT	MAX	MAXIMUM
—F0S—	FUEL OIL SUPPLY PIPING (FOS)	□ □	2-WAY CONTROL VALVE		DUCT W/FLEXIBLE CONNECTION (FC)	CFM	CUBIC FEET PER MINUTE	FD	FIRE DAMPER	MBH	THOUSANDS OF BTU PER HOUR
—-G——	GAS PIPING (G)	_ ▼	SOLENOID VALVE		LAGGED DUCT	CHLR-#	CHILLER TAG	FD-#	FLOOR DRAIN TAG	MCA	MINIMUM CIRCUIT AMPACITY
——HWR——	HOT WATER RETURN PIPING (HWR)		3-WAY CONTROL VALVE		DUCT W/ACOUSTIC LINING	CO	CLEANOUT	FLA	FULL LOAD AMPS	MIN	MINIMUM
——HWS——	HOT WATER SUPPLY PIPING (HWS)	, - ŞŞ}-	3-WAY CONTROL VALVE (TOP VIEW)		DUCT W/SQUARE-TO-ROUND TRANSITION	CONV-#	CONVECTOR TAG	FOR	FUEL OIL RETURN	NC	NOISE CRITERION
—RL	REFRIGERANT LIQUID PIPING (RL)	- \$	4-WAY CONTROL VALVE (TOP VIEW)		FLEXIBLE DUCT	CUH-#	CABINET UNIT HEATER TAG	FOS	FUEL OIL SUPPLY	NIC	NOT IN CONTRACT
—RG—	REFRIGERANT GAS PIPING (RG)		· · · · · ·	MOD □	MOTOR OPERATED DAMPER	CP-#	CIRCULATING PUMP TAG	FPHB	FROST PROOF HOSE BIBB	NTS	NOT TO SCALE
	 SANITARY PIPING BELOW FLOOR (SAN) 		2 BUTTERFLY VALVES W/SINGLE ACTUATOR		AIRFLOW OUT	CT-#	COOLING TOWER TAG	FPM	FEET PER MINUTE	OA	OUTSIDE AIR
	 SANITARY PIPING ABOVE FLOOR (SAN) 	- - '	BUTTERFLY VALVE W/ACTUATOR	- \-	AIRFLOW IN	Cv	VALVE COEFFICIENT	FS-#	FLOOR SINK TAG	OBD	OPPOSED BLADE DAMPER
	- SANITARY VENT PIPING		TRIPLE-DUTY VALVE	~	DIAMETER OR FLAT OVAL	CW	COLD WATER	FT	FEET	O.D.	OUTSIDE DIAMETER
RWL	- RAINWATER LEADER ABOVE SLAB (RWL)	ιμ ——↓——	UNION		FIRE DAMPER	CHWS/R	CHILLED WATER SUPPLY AND RETURN	FTR-#	FINTUBE RADIATION TAG	OED	OPEN ENDED DUCT
	- COLD WATER PIPING (CW)	II	PIPE FLANGE		ROUND OR FLAT OVAL DUCT DOWN	DB	DRY BULB	GA.	GAGE	OFRWL	OVERFLOW RAINWATER LEADER
	, , , ,		PUMP WITH FLANGES		ROUND OR FLAT OVAL DUCT UP	dB RE	DECIBELS RELATIVE TO	GAL	GALLONS	OFWH-#	OIL FIRED WATER HEATER TAG
	RECIRCULATED HOT WATER PIPING (RHW)		BASE MOUNTED PUMP		SUPPLY DIFFUSER	DC	DOUBLE CHECK	GFWH-#	GAS FIRED WATER HEATER TAG	OFRD	OVERFLOW ROOF DRAIN
——7	PIPE CAP		57.62 M.0077.25 7 0		RETURN GRILLE	DCA	DOUBLE CHECK ATMOSPHERIC	GPH	GALLONS PER HOUR	OPD	OVERCURRENT PROTECTIVE DEVICE
	DIRECTION OF FLUID FLOW	∭ ≊⊘	CARTRIDGE TYPE INLINE PUMP		STEAM TRAP	DEG F	DEGREES FAHRENHEIT	GPM	GALLONS PER MINUTE	P-#	PLUMBING FIXTURE TAG
	ELBOW UP		VERTICAL INLINE PUMP	•	WATER HAMMER ARRESTOR	DIA	DIAMETER	GUH-#	GAS UNIT HEATER TAG	PENET'N	PENETRATION
	ELBOW DOWN					DIW	DOWN IN WALL	HC-#	HEATING COIL TAG	PF-#	PADDLE FAN TAG
<u> </u>	PIPE TEE UP	FC 🖂	FLEXIBLE PIPE CONNECTION (FC)	ABBREVIATION	DESCRIPTION	DN	DOWN	HP	HORSEPOWER	PSIA	POUNDS PER SQUARE INCH ABSOLUTE
	PIPE TEE DOWN	_ o _	PITCH DOWN			EA	EXHAUST AIR	HRV-#	HEAT RECOVERY VENTILATOR TAG	PSIG	POUNDS PER SQUARE INCH GAGE
Č	PIPE REDUCER		PETCOCK	AAV	AUTOMATIC AIR VENT	EAT	ENTERING AIR TEMPERATURE	HW	HOT WATER	PVC	POLYVINYL CHLORIDE (PIPE)
=	PIPE WITH GUIDE		FLOW METER	AD	ACCESS DOOR	EDB	ENTERING DRY BULB	HWS/R	HOT WATER SUPPLY AND RETURN	RA	RETURN AIR
	PIPE WITH GOIDE PIPE WITH ANCHOR	@- z-	PRESSURE GAGE WITH GAGE COCK	AFF	ABOVE FINISHED FLOOR	EDC-#	ELECTRIC DUCT COIL TAG	I=B=R	INSTITUTE OF BOILER AND	RD	ROOF DRAIN
٦ı ^ +	BUTTERFLY VALVE	⊕⇒	THERMOMETER IN WELL	AHU-#	AIR HANDLING UNIT TAG	EER	ENERGY EFFICIENCY RATIO		RADIATOR MANUFACTURERS	RDE	RECOMMENDED DUAL ELEMENT FUSE AMP
III Д	OS & Y GATE VALVE		WATER FLOW SWITCH	AMS	AIRFLOW MONITORING STATION	EF-#	EXHAUST FAN TAG	IFWH-#	INDIRECT FIRED WATER HEATER TAG	RFM-#	RADIANT FLOOR MANIFOLD TAG
	BACKFLOW PREVENTER (BFP)		PRESSURE SWITCH OR SENSOR	AMPS	AMPERES	EFF	EFFICIENCY	IN.	INCHES	RG-#	RETURN GRILLE TAG
7 12	CHECK VALVE	<u>Ļ</u>	IMMERSION TEMPERATURE SENSOR	AP	ACCESS PANEL	EG-#	EXHAUST GRILLE TAG	IV-#	INTAKE VENT TAG	RHW	RECIRCULATED HOT WATER
· 7		SDHI O	DUCT MOUNTED SMOKE DETECTOR	APD	AIR PRESSURE DROP	ER-#	EXHAUST REGISTER TAG	I.W.	INDIRECT WASTE (AIR GAP)	RLA	RUNNING LOAD AMPS
⊗ ⊗	BALANCING VALVE (ADJUSTABLE)	\mathbb{R}	ROOM TEMPERATURE SENSOR	AS-#	AIR SEPARATOR TAG	ESP	EXTERNAL STATIC PRESSURE	L-#	LOUVER TAG	RPM	REVOLUTIONS PER MINUTE
	AUTOMATIC FLOW CONTROL VALVE RELIEF VALVE (RV)	Ō S	THERMOSTAT OR SENSOR ON WALL	ATC "	AUTOMATIC TEMPERATURE CONTROL	ET-#	EXPANSION TANK TAG	LAT	LEAVING AIR TEMPERATURE	RPS	REVOLUTIONS PER SECOND

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