

RECT. ELBOW W/TURNING VANES

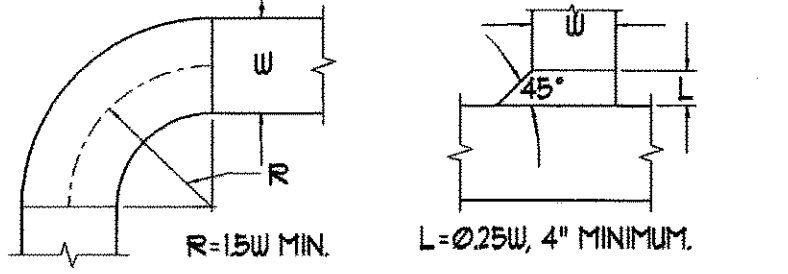
NTS NOTE: INSTALL VANE EDGES TO PROJECT TANGENTS PARALLEL TO DUCT SIDES.

OFFSET TYPE 1 (ANGLED)

NTS

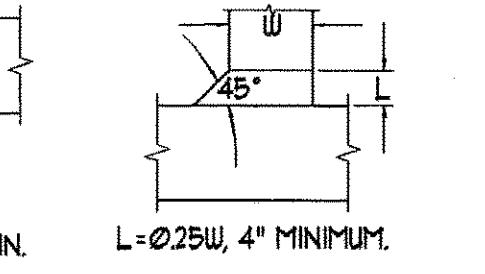
CONCENTRIC TRANSITION

NTS



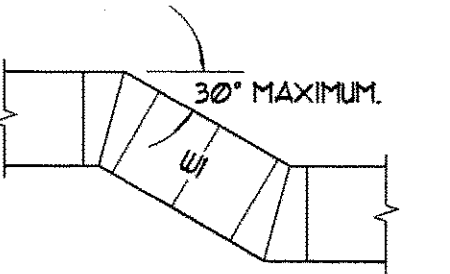
RADIUS ELBOW

NTS



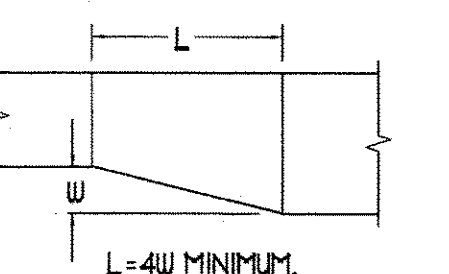
RECTANGULAR TAP 45 DEGREE ENTRY

NTS



OFFSET TYPE 2 (MITERED)

NTS

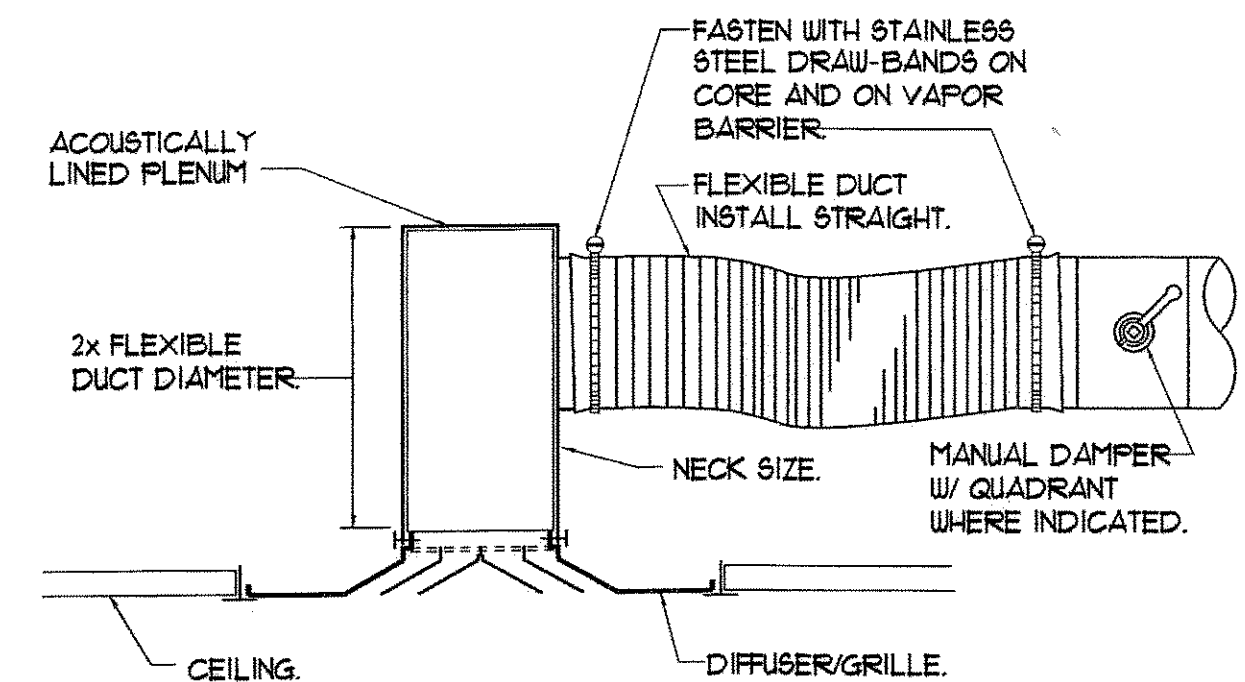


ECCENTRIC TRANSITION

NTS

LOW PRESSURE DUCT CONSTRUCTION DETAILS - TYPICAL

NTS



DIFFUSER/RETURN CONNECTION DETAIL

NTS

NOTE: DETAIL TYPICAL FOR CEILING GRILLES, REGISTERS AND LINEAR DIFFUSERS. FOR SURFACE-MOUNT DEVICES, SUPPORT PLENUM FROM CEILING GRID WITH STEEL ANGLE FASTENED TO PLENUM.

PLUMBING FIXTURE CONNECTION SCHEDULE

TAG	DESCRIPTION	SAN	VENT	CW	HW
P-1	FLR MNTD FV W/C	3"	2"	1"	-
P-2	ADA COUNTERTOP LAV	1-1/2"	1-1/2"	1/2"	1/2"
P-2A	ADA WALL HUNG LAV	1-1/2"	1-1/2"	1/2"	1/2"
P-3	ADA WALL MTD URINAL	3"	2"	3/4"	-
P-4	ADA SINGLE BOWL SS KITCHEN SINK	1-1/2"	1-1/2"	1/2"	1/2"
P-4A	ADA DOUBLE BOWL SS KITCHEN SINK	1-1/2"	1-1/2"	1/2"	1/2"
P-5	ELECTRIC WATER COOLER	1-1/2"	1-1/2"	1/2"	-
P-6	ICE MACHINE	2"	1-1/2"	1/2"	-
FD	FLOOR DRAIN w/TRAP PRIMER	2"	2"	-	-

MINIMUM SIZE OF BELOW SLAB SANITARY & VENT PIPING SHALL BE 2".
* - INDIRECT WASTE.

AIR DEVICE PERFORMANCE SCHEDULE

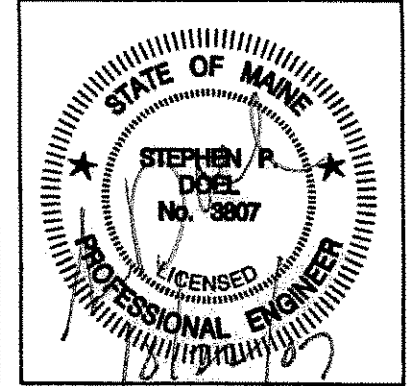
TAG	PANEL SIZE (IN)	NECK SIZE (IN)	AIRFLOW (CFM)	SP LOSS (INWG)	THROU(L)	THROU(S)	Nc	BASIS OF DESIGN - TITUS		
								DUCT CONN(IN)	PATTERN	MODEL
(A)	24x24	8"	160	0.05	-	-	25	SEE DWG6	SEE DWG6	TMS-D
(B)	24x24	10"	400	0.05	-	-	30	SEE DWG6	SEE DWG6	TMS-D
(C)	24x24	10"	400	0.05	-	-	30	SEE DWG6	SEE DWG6	TDC-D
(4A)	12x24	10x22	-	0.05	-	-	30	SEE DWG6	1/2"x1/2"x1/2"	50F-NT
(6B)	24x24	22x22	-	0.05	-	-	30	SEE DWG6	1/2", 45°	4F
(6C)	24x24	22x22	-	0.05	-	-	30	SEE DWG6	1/2"x1/2"x1/2"	50F-NT

PROVIDE ALL AIR DEVICES WITH OPPOSED BLADE DAMPERS.

MECHANICAL AND PLUMBING SYMBOLS AND ABBREVIATIONS LEGEND

NOTE - USE SYMBOLS AND ABBREVIATIONS AS APPLICABLE FOR THIS MECHANICAL DRAWING SET. SOME SYMBOLS AND ABBREVIATIONS IN THIS LEGEND MAY NOT APPLY.

<p>SYMBOL DESCRIPTION</p> <p>--- SANITARY PIPING BELOW FLOOR (SAN)</p> <p>--- SANITARY PIPING ABOVE FLOOR (SAN)</p> <p>--- SANITARY VENT PIPING</p> <p>--- R/W --- RAINWATER LEADER ABOVE SLAB (R/W)</p> <p>--- C/W --- COLD WATER PIPING (C/W)</p> <p>--- H/W --- HOT WATER PIPING (H/W)</p> <p>--- R/H/W --- RECIRCULATED HOT WATER PIPING (R/H/W)</p> <p>---] --- PIPE CAP</p> <p>--->--- DIRECTION OF FLUID FLOW</p> <p>---o--- ELBOW UP</p> <p>---o--- ELBOW DOWN</p> <p>---o--- PIPE TEE UP</p> <p>---o--- PIPE TEE DOWN</p> <p>---o--- PIPE REDUCER</p> <p>---o--- PIPE WITH GUIDE</p> <p>---o--- PIPE WITH ANCHOR</p> <p>---o--- BALL VALVE</p> <p>---o--- BALL VALVE</p> <p>---o--- UNION</p>	<p>SYMBOL DESCRIPTION</p> <p>(T) ROOM TEMPERATURE SENSOR</p> <p>(G) THERMOSTAT OR SENSOR ON WALL</p> <p>(T) TSTAT OR SENSOR W/ TAMPERPROOF GUARD</p> <p>(A) AIR DEVICE TAG (LETTER) WITH CFM</p> <p>(A) TURNING VANES</p> <p>(A) DUCT W/MANUAL DAMPER</p> <p>(A) DUCT W/FLEXIBLE CONNECTION (FC)</p> <p>(A) LAGGED DUCT</p> <p>(A) DUCT W/ACOUSTIC LINING</p> <p>(A) DUCT W/SQUARE-TO-ROUND TRANSITION</p> <p>(A) FLEXIBLE DUCT</p> <p>(A) MOTOR OPERATED DAMPER</p> <p>(A) AIRFLOW OUT</p> <p>(A) AIRFLOW IN</p> <p>(A) DIAMETER OR FLAT OVAL</p> <p>(A) FIRE DAMPER</p> <p>(A) ROUND OR FLAT OVAL DUCT DOWN</p> <p>(A) ROUND OR FLAT OVAL DUCT UP</p> <p>(A) SUPPLY DIFFUSER</p> <p>(A) RETURN GRILLE</p>	<p>ABBREVIATION DESCRIPTION</p> <p>AD ACCESS DOOR</p> <p>AFF ABOVE FINISHED FLOOR</p> <p>AHU-* AIR HANDLING UNIT TAG</p> <p>AMP AMPERES</p> <p>AP ACCESS PANEL</p> <p>APD AIR PRESSURE DROP</p> <p>ATC AUTOMATIC TEMPERATURE CONTROL</p> <p>BD-* BYPASS DAMPER TAG</p> <p>BHP BRAKE HORSEPOWER</p> <p>BTUH BRITISH THERMAL UNITS PER HOUR</p> <p>CFM CUBIC FEET PER MINUTE</p> <p>CO CLEANOUT</p> <p>CW COLD WATER</p> <p>DB DRY BULB</p> <p>dB RE DECIBELS RELATIVE TO</p> <p>DEG F DEGREES FAHRENHEIT</p> <p>DIA DIAMETER</p> <p>DIW DOWN IN WALL</p> <p>DN DOWN</p> <p>EA EXHAUST AIR</p> <p>EAT ENTERING AIR TEMPERATURE</p>	<p>ABBREVIATION DESCRIPTION</p> <p>EDB ENTERING DRY BULB</p> <p>EER ENERGY EFFICIENCY RATIO</p> <p>EF-* EXHAUST FAN TAG</p> <p>EFF EFFICIENCY</p> <p>EG-* EXHAUST GRILLE TAG</p> <p>ER-* EXHAUST REGISTER TAG</p> <p>ESP EXTERNAL STATIC PRESSURE</p> <p>EWB ENTERING WET BULB</p> <p>EXG EXISTING</p> <p>EXH EXHAUST</p> <p>FC FLEXIBLE CONNECTION</p> <p>FCO FLOOR CLEANOUT</p> <p>FD FIRE DAMPER</p> <p>FLA FULL LOAD AMPS</p> <p>FFM FEET PER MINUTE</p> <p>FT FEET</p> <p>GAL GALLONS</p> <p>GPM GALLONS PER MINUTE</p> <p>HP HORSEPOWER</p> <p>HU HOT WATER</p>	<p>ABBREVIATION DESCRIPTION</p> <p>I-B-R INSTITUTE OF BOILER AND RADIATOR MANUFACTURERS</p> <p>IN INCHES</p> <p>LAT LEAVING AIR TEMPERATURE</p> <p>LB POUNDS</p> <p>LRA LOCKED ROTOR AMPS</p> <p>MAX MAXIMUM</p> <p>MBH THOUSANDS OF BTU PER HOUR</p> <p>MCA MINIMUM CIRCUIT AMPACITY</p> <p>MIN MINIMUM</p> <p>NC NOISE CRITERION</p> <p>NIC NOT IN CONTRACT</p> <p>NTS NOT TO SCALE</p> <p>OA OUTSIDE AIR</p> <p>OPD OPPOSED BLADE DAMPER</p> <p>OD OUTSIDE DIAMETER</p> <p>OPD OVERCURRENT PROTECTIVE DEVICE</p> <p>P-* PLUMBING FIXTURE TAG</p> <p>PENETN PENETRATION</p> <p>PSIA POUNDS PER SQUARE INCH ABSOLUTE</p> <p>PSIG POUNDS PER SQUARE INCH GAGE</p>	<p>ABBREVIATION DESCRIPTION</p> <p>PVC POLYVINYL CHLORIDE (PIPE)</p> <p>RA RETURN AIR</p> <p>RLA RUNNING LOAD AMPS</p> <p>RFM REVOLUTIONS PER MINUTE</p> <p>RFS REVOLUTIONS PER SECOND</p> <p>RTU ROOM TEMPERATURE SENSOR</p> <p>SA SUPPLY AIR</p> <p>SAN SANITARY (DRAIN & WASTE)</p> <p>SP STATIC PRESSURE</p> <p>SQFT SQUARE FEET</p> <p>ΔT TEMPERATURE DIFFERENTIAL</p> <p>TEMP. TEMPERATURE</p> <p>TCP TEMPERATURE CONTROL PANEL</p> <p>TSP TOTAL STATIC PRESSURE</p> <p>TYP TYPICAL</p> <p>V/PH/Hz VOLTS/PHASES/HERTZ</p> <p>WCO WALL CLEANOUT</p> <p>WG WATER GAGE</p> <p>WSA WIRE SIZING AMPS</p> <p>W WITH</p> <p>ZD-* ZONE DAMPER TAG</p>
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REVISIONS

#	DATE	DESCRIPTION

REVISIONS

#	DATE	DESCRIPTION
1	08.29.07	PROGRESS RELEASE - RJC CONSULTING

DATE:	10.22.07
PROJECT #	020807
DRAWN BY:	JMV
CHECKED BY:	SPDeL
DRAWING SCALE	AS NOTED

SHEET TITLE

MECHANICAL SCHEDULES LEGEND & DETAILS

M301

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