MECHANICAL LEGEND

CC	CANVAS CONNECTION	EAT	ENTERING AIR TEMPERATURE
	DIFFUSER OR GRILLE NOTATION	TEMP	TEMPERATURE
CFM	CUBIC FEET PER MINUTE OF AIR	UH	UNIT HEATER
T	THERMOSTAT	BTUH	BTU PER HOUR
H	HUMIDISTAT	MBTUH	THOUSANDS OF BTU PER HOUR
T	TEMPERATURE SENSOR	GPM	GALLONS PER MINUTE
H	HUMIDITY SENSOR	RPM	REVOLUTIONS PER MINUTE
BDD	BACKDRAFT DAMPER	TDH	TOTAL DYNAMIC HEAD
VD	VOLUME DAMPER	DIA	DIAMETER
FD	FIRE DAMPER	CENT	CENTRIFUGAL
26/10	DUCTWORK WITH TURNING VANES (DOUBLE WALL). SIZE INDICATED IS CLEAR INSIDE DIMENSION.	PSI	POUNDS PER SQUARE INCH
		ΔP	PRESSURE DIFFERENCE
	VOLUME DAMPER IN DUCTWORK	HP	HORSEPOWER
		KW	KILOWATTS
	SUPPLY AIR DUCT UP/DOWN	PH	PHASE
	RETURN OR EXHAUST AIR DUCT UP/DOWN	W.G.	WATER GAUGE
		S.P.	STATIC PRESSURE
	45° TAKE-OFF PER SMACNA FIG. 2-6	N.O.	NORMALLY OPEN
OA	OUTSIDE AIR	N.C.	NORMALLY CLOSED
RA	RETURN AIR	B.S.	BIRDSCREEN
SA	SUPPLY AIR	ALUM	ALUMINUM
BOT	BOTTOM ELEVATION	CS	CONDENSER WATER SUPPLY
AFF	ABOVE FINISHED FLOOR	CR	CONDENSER WATER RETURN
DN	DOWN	CWS	CHILLED WATER SUPPLY
CONN	CONNECTION OR CONNECTED	CWR	CHILLED WATER RETURN
	CONNECTION POINT TO EXISTING	HWS	HEATING WATER SUPPLY
AHU	AIR HANDLING UNIT	HWR	HEATING WATER RETURN
EF	EXHAUST FAN		SUPPLY DIFFUSER WITH 3-WAY AIRFLOW
EWT	ENTERING WATER TEMPERATURE		ROUND DUCT CUT SECTION
LWT	LEAVING WATER TEMPERATURE		

DUCT LEAKAGE CLASSIFICATION AND ALLOWABLE LEAKAGE

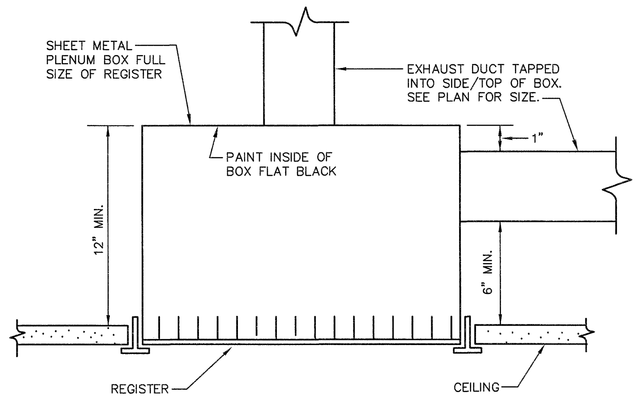
DUCT PRESSURE CLASS, W.G.	SEAL CLASS	APPLICABLE SEALING	SMACNA LEAKAGE CLASS	
			RECTANGULAR DUCT	ROUND DUCT
1/2", 1", 2"	C	TRANSVERSE JOINTS ONLY	24	12
3"	B	TRANSVERSE JOINTS AND SEAMS	12	6
4", 6", 10"	A	JOINTS, SEAMS AND ALL WALL PENETRATIONS	6	3

GRILLE & REGISTER SCHEDULE

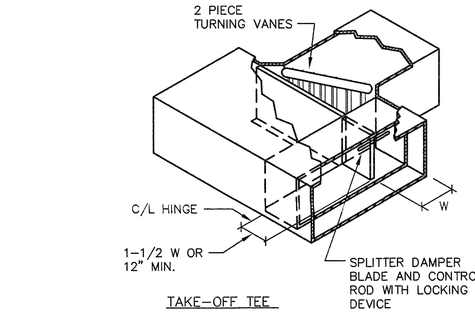
MARK	TYPE	NECK	DAMPER	FINISH	REMARKS
R-1	24"x12" EGGCRATE ALUMINUM RETURN GRILLE	RECTANGULAR	OBD	ALUM.	LAY-IN, 1/2"x1/2" EGGCRATE GRID
E-1	24"x12" EGGCRATE ALUMINUM EXHAUST GRILLE	RECTANGULAR	OBD	ALUM.	LAY-IN, 1/2"x1/2" EGGCRATE GRID
S-1	24"x24" FULL FACE SQUARE CEILING SUPPLY DIFFUSER	ROUND	OBD	WHITE	LAY-IN, 3-CONE, DIE STAMPED STEEL SECTIONALIZED BAFFLE (SEE PLANS)

DUCT PRESSURE CLASSES

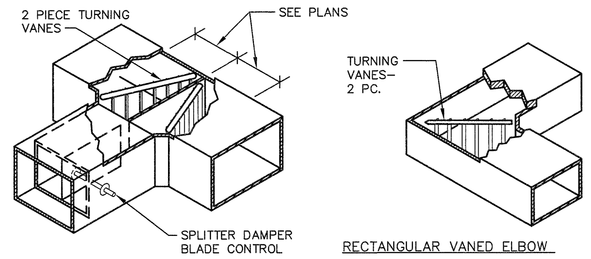
FAN NO.	DUCT INVOLVED	POSITIVE (P) OR NEGATIVE (N) PRESSURE	MINIMUM PRESSURE CLASS, IN. W.G.
AHU SYSTEM	FROM AHU TO TERMINAL UNIT	P	4
	DOWNSTREAM OF TERMINAL UNIT	P	2 RECTANGULAR 10 ROUND (SPIRAL)
	RETURN AIR	N	2 THRU 24" DUCT 4 ABOVE 24" DUCT
EACH EXHAUST SYSTEM	DUCTS 24" & SMALLER IN EITHER DIMENSION	N	2
	DUCTS GREATER THAN 24" IN EITHER DIMENSION	N	4
ALL SYSTEMS	ROUND DUCTS (SPIRAL)	N/P	10
	OVAL DUCTS (SPIRAL)	N/P	10



3 EXHAUST REGISTER DETAIL
NO SCALE



TAKE-OFF TEE

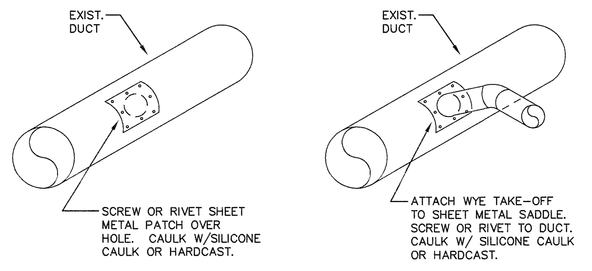


TEE SECTION

RECTANGULAR VANED ELBOW

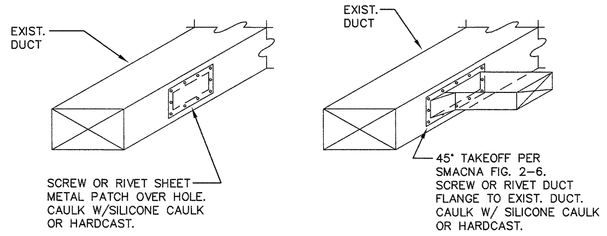
NOTES:
1- DUCT DETAILS SHOWN ARE FOR LINED AND UNLINED SHEET METAL DUCTS.
2- REFER TO SMACNA DUCT MANUAL FOR ADDITIONAL DETAILS AND/OR INFORMATION IF REQUIRED.

2 AIR CONDITIONING DUCTWORK FITTING DETAILS
NO SCALE



PATCH NEW TAP

ROUND DUCT



PATCH NEW TAP

RECTANGULAR DUCT

1 EXISTING DUCT MODIFICATION DETAIL
NO SCALE

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Revisions:	Date

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MECHANICAL SCHEDULES AND DETAILS

Project Title: ICU Headwall Relocation Jack C. Montgomery VA Medical Center			Project Number: 623-10-107
			Building Number: 53
Location: V.A.M.C. Muskogee, OK			Drawing Number: MS101
Date: 5/23/12	Checked	Drawn	15 of 38 Sheets

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