

A

B

C

D

E

F

one inch = one foot
three-quarters inch = one foot
one-half inch = one foot
three-eighths inch = one foot
one-quarter inch = one foot
one-eighth inch = one foot

DUCT PRESSURE CLASS SCHEDULE	
SYSTEM	CLASS
AHU-2 SUPPLY UPSTREAM OF TERMINALS	+2.5"
AHU-2 RETURN DUCT	-1.0"
AHU-2 SUPPLY DUCT DOWNSTREAM OF TERMINALS	+0.5"
EF-4 SUCTION	-1.0"
EF-4 DISCHARGE	+2.0"
EF-5 SUCTION	-1.0"

BUILDING AIR BALANCE		
UNIT	OUTSIDE AIR	EXHAUST AIR
AHU-2	2,800 CFM	0
EF-4	0	360 CFM
EF-5	0	2100 CFM
TOTALS	2800 CFM	2460 CFM
NET	+340 CFM	

GENERAL NOTES

- SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND DETAILS. THESE MECHANICAL DRAWINGS ARE DIAGRAMMATIC ONLY AND ARE NOT TO BE SCALED. THE CONTRACTOR SHALL VISIT THE JOB SITE BEFORE WORK BEGINS TO VERIFY ALL DIMENSIONS. NOTIFY THE ENGINEER OF ANY CONFLICTS.
- COORDINATE DUCT ROUTING AND EQUIPMENT LOCATIONS WITH PLUMBING AND ELECTRICAL INSTALLATIONS AND WITH BUILDING STRUCTURAL MEMBERS. OFFSET DUCTS AND SHIFT EQUIPMENT AS REQUIRED TO AVOID CONFLICTS.
- COORDINATE LOCATIONS OF CEILING REGISTERS AND DIFFUSERS WITH LIGHTING LAYOUT AND REFLECTED CEILING PLAN.
- PROVIDE DUCT/PIPING SHOP COORDINATION DRAWINGS AS SPECIFIED.
- DUCT SIZES INDICATED ARE CLEAR INSIDE DIMENSIONS REQUIRED. WHERE DUCT LINER OCCURS, INCREASE SHEET METAL DUCT SIZES TO ACCOMMODATE LINER.
- REFER TO ELECTRICAL DRAWINGS FOR VOLTAGE REQUIREMENTS OF ALL EQUIPMENT.
- SUPPORT ALL DUCTS, PIPING, AND EQUIPMENT FROM PRIMARY BUILDING STRUCTURAL MEMBERS. PROVIDE ADDITIONAL STRUCTURAL MEMBERS WHERE NECESSARY TO ACCOMPLISH THIS REQUIREMENT.
- THE TEST AND BALANCE CONTRACTOR SHALL BE A SUB-CONTRACTOR TO THE PRIME CONTRACTOR AND NOT A SUB-CONTRACTOR TO THE MECHANICAL CONTRACTOR.
- DUCT HANGERS SHALL BE IN STRICT ACCORDANCE WITH FIG 4-4 OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE - SECOND EDITION EXCEPT THAT HANGER WIRE SHALL NOT BE USED TO SUPPORT DUCTS OR EQUIPMENT, AND HANGERS THAT REQUIRE PENETRATION OF DUCT WITH BOLTS, RIVETS, SCREWS, WIRES OR ANY OTHER FASTENER SHALL NOT BE USED.
- PAINT AND IDENTIFY ALL NEW PIPING, VALVES, AND EQUIPMENT, INCLUDING CONTROL COMPONENTS PER SPECIFICATIONS. ALL NEW PIPING INSULATION SHALL BE MARKED AND IDENTIFIED WITH SERVICE TYPE, SERVICE PRESSURE WHERE APPLICABLE, AND DIRECTION OF FLOW.
- EQUIPMENT INDICATED TO BE REMOVED SHALL BE REMOVED FROM THE PROJECT SITE IN ITS ENTIRETY INCLUDING ALL HANGERS, ELECTRICAL CONDUIT, WIRING, ELECTRICAL JUNCTION BOXES, PIPING, CONTROLS AND ACCESSORIES RENDERED USELESS OR ABANDONED BY THE REMOVAL OF THE INDICATED EQUIPMENT.
- THESE MECHANICAL DRAWINGS ARE DIAGRAMMATIC ONLY AND ARE NOT TO BE SCALED. THE CONTRACTOR SHALL VISIT THE JOB SITE BEFORE WORK BEGINS TO VERIFY ALL DIMENSIONS. NOTIFY THE ENGINEER OF ANY CONFLICTS.

FAN COIL UNIT SCHEDULE

MARK	MNFR	MODEL NO.	C.F.M.	O.A. C.F.M.	E.S.P. IN. W.G.	TOTAL COOLING BTU/hr	SENSIBLE COOLING BTU/hr	CHILLED WATER G.P.M.	MAX. CHILLED WATER P.D. FT. W.G.	HEATING BTU/hr	HOT WATER G.P.M.	MAX. HOT WATER P.D. FT. W.G.	NOTES	HW RUNOUT PIPE SIZE	CW RUNOUT PIPE SIZE
FC-1	*	42CGB02	185	0	0.00	5,242	3,960	1.0	1.99	7,594	0.8	0.25	2:3:	¾"	¾"
FC-2	*	42CFA10	1000	50	.25	24,469	18,591	4.1	1.74	32,414	2.2	5.12	1:2:3:	¾"	1"
FC-3	*	42CFA10	1000	50	.25	24,469	18,591	4.1	1.74	32,414	2.2	5.12	1:2:3:	¾"	1"
FC-4	*	42CFA10	1000	50	.25	24,469	18,591	4.1	1.74	32,414	2.2	5.12	1:2:3:	¾"	1"
FC-5	*	42CFA10	1000	50	.25	24,469	18,591	4.1	1.74	32,414	2.2	5.12	1:2:3:	¾"	1"
FC-6	*	42CFA10	1000	50	.25	24,469	18,591	4.1	1.74	32,414	2.2	5.12	1:2:3:	¾"	1"
FC-7	*	42CFA10	1000	50	.25	24,469	18,591	4.1	1.74	32,414	2.2	5.12	1:2:3:	¾"	1"
FC-8	*	42CFA10	1000	50	.25	24,469	18,591	4.1	1.74	32,414	2.2	5.12	1:2:3:	¾"	1"
NOTES															
1. OUTSIDE AIR SUPPLY IS TEMPERED AIR															
2. CHILLED WATER ENT 45°F LV 57°F.															
3. HEATING WATER ENT 180°F LV 150°F.															

PACKAGED AIR CONDITIONER SCHEDULE

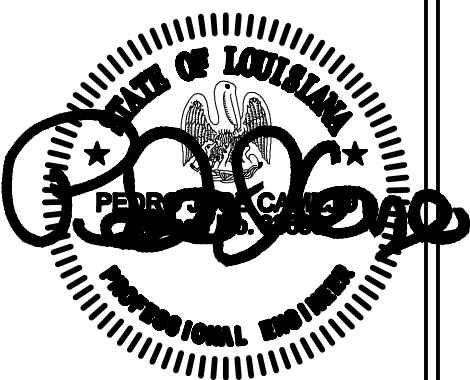
MARK	MNFR			MODEL NO.	AIR FLOW					COOLING DATA					HEATING DATA			AUXILIARY HEAT						ACCESSORIES		MAXIMUM OPERATING WEIGHT (LBS)	NOTES			
	TRANE	IBARD	CARRIER		MAX. SUPPLY C.F.M.	MIN. SUPPLY C.F.M.	MIN. O.A. C.F.M.	TOTAL IN. W.G.	EXT IN. W.G.	MAX FAN H.P.	O.D. D.B. °F	E.A.T.		TOTAL MBH	SENS. MBH	O.D. D.B. °F	EAT D.B. °F	TOTAL MBH	TYPE		TOTAL MBH	KW.	G.P.M. °F E.W.T.	PRESS. DROP FT. W.G.	ROOF CURB			MANUAL O.A. DAMPER	AUTOMATIC O.A. DAMPER	TIME PROG. TSTAT.
												D.B. °F	W.B. °F						HYDRONIC	FURNACE										
RTU-1			*	50HC-D08A2	2,800	2,800	50	0.50	0.50	1.0	95.0	75.0	62.5	85.55	66.97	-	-	-	-	-	-	-	-	-	*	*	*	1,000	1:	
NOTES:																														
1. MINIMUM ARI EER 12.20.																														

LEGEND

DEMOLITION PLANS		NEW WORK PLANS CONTINUED	
	EXISTING DUCT, PIPING OR EQUIPMENT TO BE REMOVED	N.O.	NORMALLY OPEN
	EXISTING DUCT, PIPING OR EQUIPMENT TO BE RELOCATED	NO. #	NUMBER
	EXISTING DUCT, PIPING OR EQUIP. TO REMAIN	OPER.	OPERATING
NEW WORK PLANS		O.A.	OUTDOOR AIR
	NEW DUCT, PIPING OR EQUIPMENT	LB/HR	POUNDS PER HOUR
	EXISTING DUCT, PIPING OR EQUIPMENT TO BE RELOCATED	P.S.I.G.	POUNDS PER SQUARE INCH - GAUGE
	EXISTING DUCT, PIPING OR EQUIPMENT TO REMAIN	PRESS.	PRESSURE
	POINT OF CONNECTION/SCOPE OF WORK	P.D.	PRESSURE DROP
	DUCT SIZE: FIRST DIMENSION IS SIDE DRAWN	R.A.	RETURN AIR
	DUCT SECTION, POSITIVE	NC	NOISE CRITERIA
	DUCT SECTION, NEGATIVE	R.P.M.	REVOLUTIONS PER MINUTE
	FLEXIBLE DUCT CONNECTION	SEER	SEASONAL ENERGY EFFICIENCY RATIO
	SQUARE ELBOW WITH TURNING VANES	SF.	SQUARE FEET
	RADIUS ELBOW WITH TURNING VANES	S.A.	SUPPLY AIR
	CHANGE OF ELEVATION, ARROW INDICATES DIRECTION OF DROP	TEMP.	TEMPERATURE
	DUCTWORK WITH 1" ACOUSTICAL LINER	VAV	VARIABLE AIR VOLUME
	TRANSITION	WTD	WATER TEMPERATURE DROP
	MANUAL VOLUME DAMPER	W.	WATT
	AUTOMATIC (MOTORIZED) VOLUME DAMPER	WT.	WEIGHT
	ACCESS DOORS, VERTICAL OR HORIZONTAL	W.P.D.	WATER PRESSURE DROP
	DUCT MOUNTED SMOKE DETECTOR	WBT	WET BULB TEMPERATURE
	SMOKE DAMPER AND SLEEVE		AIR FLOW
	FIRE DAMPER AND SLEEVE		CONCRETE
	RIGID ROUND DUCTWORK		THERMOMETER
	FLEXIBLE DUCT		WALL MOUNTED T'STAT W/ASSOCIATED EQUIPMENT IDENTIFIED
	DUCT SIZE: FIRST DIMENSION IS HORIZONTAL		CONDENSATE DRAIN PIPING
	MANUAL VOLUME DAMPER		CHILLED WATER RETURN/ CHILLED WATER SUPPLY
	GRILLE DESIGNATION		HOT WATER RETURN/ HOT WATER SUPPLY
	SIDEWALL DIFFUSER		DROPPING OR RISING PIPE
	CEILING SUPPLY DIFFUSER		CONCENTRIC PIPE REDUCER
	CEILING RETURN OR EXHAUST REGISTER		ECCENTRIC PIPE REDUCER
	ABOVE FINISHED FLOOR		PITCH OF PIPE ARROW SHOWS DIRECTION OF DROP
	CAPACITY		EXPANSION JOINT
	C.F.M.		FLEXIBLE CONNECTOR
	dB		BOTTOM CONNECTION FITTING
	°F		TOP CONNECTION FITTING
	db/wb		ELBOW TURNED UP
	EFF.		ELBOW TURNED DOWN
	ELEC.		GATE VALVE
	EER		GATE ANGLE VALVE
	E.A.T./L.A.T.		GLOBE VALVE
	ENT./LVG.		GLOBE ANGLE VALVE
	E.W.T./L.W.T.		BALL VALVE
	E.A.		BUTTERFLY VALVE
	E.S.P.		PLUG VALVE
	FD		CHECK SWING GATE VALVE
	FT.		AUTOMATIC FLOW BALANCING VALVE
	F.P.M.		PRESSURE REDUCING VALVE
	FRIC.		RELIEF VALVE
	GAL.		AUTOMATIC AIR VENT
	G.P.M.		MANUAL AIR VENT
	HP.		STRAINER
	IN.		BLOW OFF STRAINER
	IN. W.G. / FT. W.G.		2 WAY CONTROL VALVE
	KW.		3- WAY CONTROL VALVE
	MNFR		ELECTRIC MOTOR VALVE ACTUATOR
	MAX.		ELECTRIC VALVE ACTUATOR
	MBH		PNEUMATIC VALVE ACTUATOR
	MIN.		SCREWED UNION
	MIN. EFF.		THERMOMETER
	N.C.		PRESSURE/TEMPERATURE PLUG

Revisions	Date

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Drawing Title LEGEND, SCHEDULES, AND GENERAL NOTES MECHANICAL
Approved Project Engineer

Project Title 2ND FLOOR OUTPATIENT MENTAL HEALTH		
Building Number BLDG 1 SOUTH WING	Checked PJC	Drawn WSS
Location VA MEDICAL CENTER SHREVEPORT, LOUISIANA		

	100% REVIEW SUBMITTAL
Date 05-25-2011	Veterans Administration
Project No. VA256-C-1047	
DRAWING NO. M601	
Dwg. Of	