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Drawing Title
MECHANICAL SCHEDULES

Project Title
PHASE 2B: Renovation of
Operating Rooms, ER and Triage

Project Number 657-13-300JC	Veterans Health Administration
Building Number 01	
Drawing Number	

 Department of
Veterans Affairs

VARIABLE FREQUENCY DRIVE					
MARK	EQUIPMENT SERVED	LOCATION	ELECTRICAL VOLTS/2PH/2P	HP	REMARKS
VFD-11A	EF-11A EXHAUST	7TH FLR ROOF	460/3	1	1,2,3,4
VFD-11B	EF-11A EXHAUST	7TH FLR ROOF	460/3	1	1,2,3,4
VFD-11C	EF-11A EXHAUST	7TH FLR ROOF	460/3	1	1,2,3,4

1. REDUNDANT VFD FOR BYPASS OPERATION WITH AUTO CHANGEOVER CAPABILITY IN THE EVENT THAT THE LEAD VFD FAILS.

2. PROVIDED BY CONTROLS CONTRACTOR.

3. SEE SPECIFICATION SECTION 26 29 11 FOR ADDITIONAL REQUIREMENTS.

4. RATED FOR OUTDOOR USE.

VAVR AND VAVE TERMINAL UNIT SCHEDULE					
TAC	AREA/SERVICE	INLET SIZE	NOMINAL	CFM	REMARKS
VAVR-55-02	H416 N COUR	12	500	1	
VAVR-55-03	PACU	20x14	2200	1	
VAVR-55-04	H416 S CORR	12	400	1	
VAVR-55-05	SCU	20x14	2075	1	
VAVE-11A-01	C615 MCU	8	220	1	
VAVE-11A-02	C602 MCU	10	390	1	
VAVE-11A-03	C605 MCU	8	290	1	
VAVE-11B-01	C506 PICU	12	400	1	
VAVE-11C-01	C403 BCU-11	12	400	1	
VAVE-11C-02	C406 SCU-10	10	350	1	
VAVE-11C-03	C404 ANTE ROOM	8	125	1	

FIRE DAMPER SCHEDULE					
PLAN MARK	MODEL	HORIZ. OR VERT. DUCT	DUCT SIZE	RATING	REMARKS
FD 11B-1	DBDI	HORIZ.	12x12	2 HR	1
FD 11B-2	DBDI	HORIZ.	12x12	2 HR	1
FD 11C-1	DBDI	HORIZ.	14x12	2 HR	1
FD 11C-2	DBDI	HORIZ.	14x12	2 HR	1
FD 11C-3	DBDI	HORIZ.	14x12	2 HR	1

1. FIELD VERIFY SIZE PRIOR TO ORDERING.

VAV TERMINAL UNIT SCHEDULE															
TAG	SERVES ROOM(S)	INLET SIZE MODEL	MAX. CFM	MIN CLG CFM	HTG. CFM	GPM	EAT' F	LAT' F	EWTF F	LWTF F	MBH	MAX WPO (FT)	MAX WPO (IN)	ROWS	REMARKS
VAV 55-01	C437 - PACU SICIU CLEAN	6	200	200	200	1.0	54	106.8	160	136.3	11.6	0.2	0.2	2HC	1,2,3,4
VAV 55-02	H416 - CORRIDOR	4	400	400	400	1.1	54	92.4	160	129.1	17.2	0.3	0.2	2	1,2,3,4
VAV 55-03	H416 - CORRIDOR	4	400	400	400	1.1	54	92.4	160	129.1	17.2	0.3	0.2	2	1,2,3,4
VAV 55-04	C437,C428,C429,C430 - PACU 5-8	10	650	650	650	1.7	54	92.4	160	127.4	27.9	0.8	0.2	2	1,2,3,4
VAV 55-05	C431,C432,C433 - SOILED, CLEAN, MEDS	8	350	350	350	1.0	54	92.4	160	125.5	15.0	0.2	0.2	2	1,2,3,4
VAV 55-06	C434,C435 - PACU 9-10	7	300	300	300	1.0	54	92.4	160	121.7	15.0	0.2	0.2	2	1,2,3,5
VAV 55-07	C425 - PACU 1-4	10	600	600	600	1.5	54	92.4	160	124.9	25.7	0.6	0.2	2	1,2,3,5
VAV 55-08	C401 - CONSULT - CORRIDOR	6	300	275	275	1.0	54	92.4	160	129.1	17.2	0.3	0.2	2	1,2,3,4
VAV 55-09	C402 - TEMP SICIU WAITING	8	225	225	225	1.5	54	103.7	160	138.7	15.5	0.3	0.2	2HC	1,2,3,4
VAV 55-10	C403 - SICIU 11 ISOLATION	8	375	375	375	2.3	54	103.5	160	140.2	22.2	1.0	0.2	2HC	1,2,3,4
VAV 55-11	C415 - SICIU CORRIDOR W	10	625	625	625	1.6	54	92.4	160	126.8	26.8	0.7	0.2	2	1,2,3,4
VAV 55-12	C419 - MEDS, WORKROOM	10	725	550	550	1.6	54	92.4	160	122.3	26.0	0.5	0.3	2	1,2,3,4
VAV 55-13	C422 - OFFICE	4	125	125	125	1.0	54	92.4	160	144.9	7.0	0.3	0.03	1HC	1,2,3,4
VAV 55-14	C421 - BREAK ROOM	5	150	150	150	1.2	54	92.4	160	149.3	6.4	0.6	0.04	1HC	1,2,3,4
VAV 55-15	C415 - SICIU CORRIDOR E	4	400	400	400	1.1	54	92.4	160	131.1	17.2	0.3	0.2	2	1,2,3,5
VAV 55-16	C414 - SICIU 1	6	250	175	250	1.5	54	103.7	160	138.7	15.5	0.3	0.2	2HC	1,2,3,4
VAV 55-17	C413 - SICIU 2	6	250	175	250	1.5	54	103.7	160	138.7	15.5	0.3	0.2	2HC	1,2,3,4
VAV 55-18	C412 - SICIU 3	6	250	175	250	1.5	54	103.7	160	138.7	15.5	0.3	0.2	2HC	1,2,3,4
VAV 55-19	C411 - SICIU 4	6	250	175	250	1.5	54	103.7	160	138.7	15.5	0.3	0.2	2HC	1,2,3,4
VAV 55-20	C410 - SICIU 5	6	250	175	250	1.5	54	103.7	160	138.7	15.5	0.3	0.2	2HC	1,2,3,4
VAV 55-21	C409 - SICIU 6	6	250	175	250	1.5	54	103.7	160	138.7	15.5	0.3	0.2	2HC	1,2,3,4
VAV 55-22	C408 - SICIU 7	6	250	175	250	1.5	54	103.7	160	138.7	15.5	0.3	0.2	2HC	1,2,3,4
VAV 55-23	C407 - SICIU 8	6	250	175	250	1.5	54	103.7	160	138.7	15.5	0.3	0.2	2HC	1,2,3,4
VAV 55-24	C406 - SICIU 9	6	250	175	250	1.5	54	103.7	160	138.7	15.5	0.3	0.2	2HC	1,2,3,4
VAV 55-25	C405 - INFECT ISOLATION SICIU 10	6	225	225	225	1.5	54	103.7	160	138.7	15.5	0.3	0.2	2HC	1,2,3,4

1. VERIFY LEFT OR RIGHT HAND PIPING CONNECTIONS SIDE AND CONTROL BOX SIDE
2. FIBER FREE INSULATION.
3. FACTORY MOUNTED CONTROLS COORDINATE WITH CONTROL CONTRACTOR.
4. 2-WAY HOT WATER PICV.
5. 3-WAY HOT WATER CONTROL VALVE.

HC = HIGH CAPACITY COIL

VIBRATION ISOLATION AND SEISMIC RESTRAINT SCHEDULE	
SEE SPECIFICATION SECTION 23 05 41	

Anchorage & Sway Bracing - Mechanical System Components						Seismic Design Category (D)	
Seismic Use Group (III)							
LISTING OF EQUIPMENT AND SYSTEM COMPONENTS	ANCHORAGE TO FLOORS, ROOFS, ETC.		SWAY BRACING		LOCATION OF PROFESSIONALLY SEALED ANCHORAGE AND SWAY BRACING DETAILS		COMMENTS
	Not Provided	Provided	Not Provided	Provided	Drawing No. or Spec. Section	Shop Drawings Separate Permit & Plans	
PIPING	X			X		X	
DUCT	X			X		X	
VAV BOXES	X			X		X	
HVAC GRILLES		X	X				
EXHAUST FAN (ROOF)		X	X			X	

EXHAUST FAN SCHEDULE									
MARK	MODEL NO.	SERVES	LOCATION	CFM	SP	RPM	VOLTS/PH	HP	REMARKS
EF-11A	100 TCHNBLE 0E	C602, C604 MICU ISOLATION	AREA A ROOF	750	3.0	3450	208/3	1	1,2,3,4,5,6
EF-11B	100 TCHNBLE 05	C505 PCCU ISOLATION	AREA C ROOF	600	3.0	3269	208/3	1	1,2,3,4,5,6
EF-11C	100 TCHNBLE 0H	C403, C404 SICU ISOLATION	AREA C ROOF	850	3.0	3450	208/3	1	1,2,3,4,5,6
1. TYPICAL CENTRIFUGAL W/INE WITH MIXING BOX. 2. HIGH VELOCITY DISCHARGE CONE. 3. BACKCRAFT DAMPER. 4. DISCONNECT SWITCH. 6. COORDINATE VFD WITH CONTROLS CONTRACTOR.									

FILTER BANK SCHEDULE								
MARK	SERVES	EFF.	NO.	SIZE (WxHxD)	CFM	RESIS. INITIAL	RESIS. FINAL	REMARKS
FF-11A	EF-11A	HEPA	1	24X24	750	5"	1"	1,2,3,4
FF-11B	EF-11B	HEPA	1	24X24	600	5"	1"	1,2,3,4
FF-11C	EF-11C	HEPA	1	24X24	850	5"	1"	1,2,3,4

1. FILTER PRESSURE DROP GIVEN IS INITIAL AND FINAL IN INCHES.
2. W.C. PRESSURE DROPS ARE AT 100 CFM.
3. SIEVE SERVICE
4. WEATHERPROOF ROOF MOUNTED HOUSING, STAINLESS STEEL HOUSING, SPRING LOADED GASKET SEAL.
4. WITH PRE-FILTER.

AIR DECK SCHEDULE						
PLAN MARK	MODEL	MATL.	NECK SIZE	FRAME TYPE	PANEL SIZE	REMARKS
S1	TDCAA	ALUM	8"	LAY-IN	12x12	1.36 1.80
S2	TDCAA	ALUM	8"	LAY-IN	26x24	1.36 1.80
S3	TDCAA	ALUM	10"x0	LAY-IN	26x24	1.36 1.80
S4	TDCAA	ALUM	12"x0	LAY-IN	26x24	1.36 1.80
S5	301FL	ALUM	12x4	SURFACE	14x6	4
S6	TD-B30	ALUM	8"x0	LAY-IN	48"	1.80 1.10
S7	TD-B30	ALUM	10"x0	LAY-IN	48"	1.80 1.10
S8	TD-B30	ALUM	12"x0	LAY-IN	48"	1.80 1.10
R1	PAR-AA	ALUM	22x10 (8")	LAY-IN	24x12	1.6,8
R2	PAR-AA	ALUM	22x10 (8")	LAY-IN	24x12	1.6,8
R3	PAR-AA	ALUM	10"x0	LAY-IN	24x24	1.6,8
R4	PAR-AA	ALUM	12"x0	LAY-IN	24x24	1.6,8
E1	PAR-AA	ALUM	22x10 (8")	LAY-IN	24x12	1.6,8
E2	PAR-AA	ALUM	22x10 (8")	LAY-IN	24x12	1.6,8
E3	PAR-AA	ALUM	12"x0	LAY-IN	24x24	1.6,8
E4	355FL	ALUM	10x10	SURFACE	12x12	4

1. PROVIDE TRANSITION FROM ROUND DUCT TO NECK SIZE.
2. 1/2" WAVEY TOP.
3. FULL FACE DIFFUSER (16"x16 DUCT SIZE)
4. BORDER TYPE 1 (SURFACE MOUNT)
5. SQUARE TO ROUND DUCT NECK ADAPTER
6. BORDER TYPE 1 LAY-IN
7. NOT USED
8. "RAPE-MOUNT FRAME" FOR LAY-IN TYPE AIR DECK IN HARD CING.
9. 2 SLOTS, 1" WIDTH SLOTS.
10. FACTORY INSTALLED R-6 FOAM BACKED MOLDED INSULATION BLANKET.

BRAND NAME OR EQUAL: NAME BRANDS USED ON THE DRAWINGS ARE NOT MEANT TO BE RESTRICTIVE, BUT ONLY TO INDICATE A BRAND THAT REFLECTS THE CHARACTERISTICS AND LEVEL OF QUALITY THAT WILL SATISFY THE GOVERNMENT'S NEEDS. THE SALIENT PHYSICAL, FUNCTIONAL, OR PERFORMANCE CHARACTERISTICS THAT EQUAL PRODUCTS MUST MEET ARE IDENTIFIED IN THE SPECIFICATIONS AND DRAWINGS.

BID DOCUMENTS