

[illegible]

3. SEE DETAIL 4/MI701 FOR CONTROLS.

SINGLE DUCT AIR TERMINAL UNIT SCHEDULE																			
MARK	SYSTEM AIR HANDLING	SIZE	AIR FLOW				CONTROL TYPE	CONTROL SEQUENCE	REHEAT HOT WATER HEATING COIL										REMARKS
			MAX		MIN				EAT		EWT		FLOW		MAX WPD		PIPE RUNOUT SIZE TO COIL		
			CFM	[L/s]	CFM	[L/s]			°F	[°C]	°F	[°C]	GPM	[L/m]	FT	[kPa]	IN	[mm]	
6-253	100-AHU-6	C	280	[130]	280	[130]	CAV	M/702	65	[18]	180	[82]	0.5	[2]	4	[12]	0.75	[19]	TITUS DESV
6-254	100-AHU-6	E	570	[270]	570	[270]	CAV	M/702	65	[18]	180	[82]	0.6	[2]	3	[9]	0.75	[19]	TITUS DESV
6-233	100-AHU-6	D	445	[210]	445	[210]	CAV	M/702	65	[18]	180	[82]	0.5	[2]	4	[12]	0.75	[19]	TITUS DESV
6-251	100-AHU-6	D	400	[190]	400	[190]	CAV	M/702	65	[18]	180	[82]	0.5	[2]	4	[12]	0.75	[19]	TITUS DESV
6-252	100-AHU-6	B	210	[99]	210	[99]	CAV	M/702	65	[18]	180	[82]	0.5	[2]	3	[9]	0.75	[19]	TITUS DESV
6A-001	100-AHU-6A	K	3,670	[1700]	1,835	[870]	SEE NOTES	M/702	52	[11]	180	[82]	4.6	[17]	4	[12]	1	[25]	NOTE 1, TITUS DESV
6A-002	100-AHU-6A	I	1,480	[700]	750	[350]	VAV	M/702	52	[11]	180	[82]	1.9	[7]	4	[12]	0.75	[19]	TITUS DESV
6A-003	100-AHU-6A	D	235	[110]	215	[100]	CAV	M/702	52	[11]	180	[82]	0.5	[2]	4	[12]	0.75	[19]	TITUS DESV
6A-004	100-AHU-6A	J	2,355	[1100]	1,180	[560]	SEE NOTES	M/702	52	[11]	180	[82]	2.9	[11]	4	[12]	1	[25]	NOTE 1, TITUS DESV
6A-005	100-AHU-6A	I	1,450	[680]	750	[350]	VAV	M/702	52	[11]	180	[82]	1.9	[7]	4	[12]	0.75	[19]	TITUS DESV
6A-006	100-AHU-6A	D	480	[230]	480	[230]	CAV	M/702	52	[11]	180	[82]	1.2	[5]	4	[12]	0.75	[19]	TITUS DESV

VARIABLE FREQUENCY DRIVE SCHEDULE					
UNIT MARK	100-VFD-AHU-6A	100-VFD-AHU-E6A	100-VFD-SCHP-6A1	100-VFD-SCHP-6A2	
OPERATING MODE	DESIGN	DESIGN	DESIGN	DESIGN	
SERVICE	AHU-6A (SUPPLY)	AHU-6A (EXHAUST)	100-SCHP6A1	100-SCHP6A2	
QTY. / LOCATION (INDOOR/OUTDOOR)	2 / OUTDOOR	2 / OUTDOOR	1 / OUTDOOR	1 / OUTDOOR	
ELECTRICAL					
MOTOR HP	24.0	16.0	2.0	2.0	
MAX. MOTOR RPM	3,500	1,750	1,750	1,750	
MOTOR VOLTAGE	460-3-60	460-3-60	460-3-60	460-3-60	
OPTIONS					
WEATHER-PROOF ENCLOSURE	YES - NEMA 3R	YES - NEMA 3R	YES - NEMA 3R	YES - NEMA 3R	
INTEGRAL DISCONNECT	YES	YES	YES	YES	
INTEGRAL BYPASS	YES	YES	YES	YES	
BMS COMMUNICATION CARD	YES	YES	YES	YES	
REMARKS	1, 2	1, 2	1	1	

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HEAT RECOVERY SYSTEM RUN AROUND WATER COIL SCHEDULE																															
MARK	LOCATION	AREA AND/OR BLDG	SYSTEM AND/OR SERVICE	APPLICATION	AIR FLOW		MAX FACE VELOCITY		APD		EAT				LAT				TOTAL MIN CAPACITY	CHILLED WATER								PUMP NO	REMARKS		
					CFM	[L/s]	FPM	[M/s]	IN WG	[Pa]	°F		°C		°F		°C			MBH	[kW]	FLOW		EWT		LWT				WPD	
																										GPM	[L/s]			°F	[°C]
100-ERCB0A1	B100 ROOF	2 CARDIO	100-AHUBA	SUPPLY COIL	11000	[5200]	400	[2]	0.44	[110]	35.7	[2]			56.8	[14]			269	[920]	20	[1]	67.4	[20]	40.6	[5]	6.3	[2]	100-ERPSA1,2	WINTER CONDITION	
100-ERCB0A2	B100 ROOF	2 CARDIO	100-AHUBA	EXHAUST COIL	11000	[5200]	400	[2]	0.46	[120]	72	[22]	60	[16]	51	[11]	51	[11]	269	[920]	20	[1]	40.6	[5]	67.4	[20]	6.3	[2]			
100-ERCB0A1	B100 ROOF	2 CARDIO	100-AHUBA	SUPPLY COIL	11000	[5200]	400	[2]	0.4	[100]	92.3	[34]	66.9	[19]	81.3	[27]	63.3	[17]	125	[430]	20	[1]	77.3	[25]	89.9	[32]	5.89	[2]	100-ERPSA1,2	SUMMER CONDITION	
100-ERCB0A2	B100 ROOF	2 CARDIO	100-AHUBA	EXHAUST COIL	11000	[5200]	400	[2]	0.42	[110]	75	[24]			85.6	[30]			125	[430]	20	[1]	89.9	[32]	77.3	[25]	5.89	[2]			

AIR COOLED CHILLER SCHEDULE																							
MARK	LOCATION	AREA AND/OR BLDG SERVED	TYPE	MIN OUTPUT CAPACITY		MAX KW/TON	MAX IPLV (KW/TON)	EVAPORATOR						CONDENSER		ELECTRICAL					REMARKS		
				TONS	[kW]			FLOW	EWT		LWT		MAX WPD	FOULING FACTOR	AMBIENT OA TEMP		MCA	MOP	PHASE	VOLT			
								GPM	[L/s]	°F	[°C]	°F	[°C]		FT	[kPa]		°F	[°C]				
100-ACCH6A	B100 ROOF	2 CARDIO	SCROLL	51	[180]	1.03	0.66	66	[5]	58	[14]	44	[7]	36	[110]	0.0001	95	[35]	125	125	3	460	TRANE CGAM 60

NOTES

1. SEE SPECIFICATIONS FOR OTHER APPLICABLE ENGINEERING REQUIREMENTS.

2. *MAX KW/TON* SPECIFIED ARE AT DESIGN CONDITIONS INDICATED. KW/TON INCLUDES CONDENSER FANS.

MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	TYPE	CIRCULATING FLUID										MIN % EFF	ELECTRICAL MOTOR					REMARKS	
					FLUID	FLOW		HEAD		NPSH AVAILABLE		TEMPERATURE		SP GR		NOMINAL POWER		PHASE	VOLT	MAX RPM		SPEED CONTROL
						GPM	[L/s]	FT	[kPa]	FT	[kPa]	°F	[°C]			HP	[kW]					
100-ERP6A1.2	B100 ROOF	2 CARDIO	HEAT RECOVERY	IN-LINE	HEAT RECOVERY WATER	20	[1]	20	[320]	N/A		77	[25]	1	N/A	0.1667	[]	1	115	3300	CONSTANT	NOTE 1, 3
100-SCHP1.2	B100 ROOF	2 CARDIO	BACKUP CHILLED WATER	END SUCTION	CHILLED WATER	86	[5]	65	[1000]	N/A		44	[7]	1	59%	5	[4]	3	460	1750	VARIABLE	NOTE 1, 2, 4
NOTES																						
1. REDUNDANT PUMPS: PROVIDE WITH EMERGENCY POWER.																						
2. PROVIDE WITH VFD. LIMIT MIN FLOW PER MANUFACTURER'S RECOMMENDATION.																						

		CONSULTANTS:				ARCHITECT/ENGINEERS:		<div><div>Project Title</div><div>MECHANICAL SCHEDULES</div><div>Approved: Project Director</div></div>		<div><div>Project Title</div><div>VA PALO ALTO B-100 CATH LAB RENOVATION AND HYBRID OR</div><div>Location VAPAHCS - PALO ALTO CAMPUS 3801 MIRANDA AVE, PALO ALTO, CA 94304</div></div>		<div><div>Project Number</div><div>640-13-134</div><div>Building Number</div><div>100</div><div>Drawing Number</div><div>M003</div><div>Dwg. of</div></div>		<div>Office of Construction and Facilities Management</div> <div> Department of Veterans Affairs</div>	
		<div><div><div>SYSKA HENNESSY GROUP</div><div>A member company of SH Group, Inc.</div></div><div><div>Syska Hennessy Group, Inc. 425 California Street Suite 700 San Francisco, CA 94104 Tel: 415.288.9050 Fax: 415.835.0385 www.syska.com</div></div></div>				<div><div>ESTABLISHED 1988</div><div><div>HILLIARD ARCHITECTS</div><div>GOING GREEN</div></div><div><div>HILLIARD ARCHITECTS, INC 251 Post Street, Suite 620 San Francisco, CA 94108-5017 Tel 415 989 6400, Fax 415 989 3056 www.HilliardArchitects.com</div></div></div>				<div><div>Date</div><div>08.22.2014</div></div> <div><div>Checked</div><div>OR</div></div> <div><div>Drawn</div><div>RB</div></div>					
		<div><div>AMENDMENT 1</div><div>Revisions:</div></div>		<div><div>09.05.2014</div><div>Date</div></div>											