GENERAL NOTES:

1. WORK THIS DRAWING WITH MH-600 AND MH-601
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND MAINTAIN PROPER AIR BALANCING THROUGH OUT THE ENTIRE PROJECT AFTER EACH PHASE.
3. CONTRACTOR TO TEST AND BALANCE COMPLETE SPS BEFORE START OF PHASE 1 AND AFTER COMPLETION OF PHASE 3. SEE ARCHITECTURAL PLANS AND MH-403.

1

HVAC PHASED TESTING AND BALANCING TABLE - PHASE 1

Room No.	Functional Area	Air balance	Register (S: Supply)	Phase I			Register (E: Exhaust)	Phase I						Notes
			Supply Air				Exhaust Air							
B073	Mens Toilet	negative (-)	73-S1	340			73-E1	***455.00***						No Change
B071	Lounge	neutral (0)	71-Sl	125			71-E1	230						No Change
B072	Womens Toilet	neutral (0)	72-S1	370			72-E1	610						No Change
B079	Case cart area													During Construction create negative pressure for construction zone by increasing exhaust

HVAC PHASED TESTING AND BALANCING TABLE - PHASE 2

Room No.	Functional Area	Air balance	Register (S: Supply)	Phase II - Construction CFM	Phase II Temp Decon	Register (E: Exhaust)	Phase II - Construction CFM	Phase II Temp Decon	Reference Sensor M= Manual, PIT= Sensor (Note 1 below)	Manual Balancing (M) or Control (C)	Balancing or Control Element (Note 2)	Notes
			Supply Air (CFM)			Exhaust Air (CFM)						
B061	Unisex Toilet	double negative (--)	61-S1	50	0	61-E1	250		M	M	61-E1	61-E1 - Adjust exhaust flow to create negative reference to vestibule.
B060	Vestibule	negative (-)	60S1	124	0	60-E1	150		PIT5-2	C	60-E1	60-E1 - Adjust flow to create negative pressure reference to Corridor
						60-E2	150		PIT5-1	M	60-E2	60-E2 - Adjust flow to ensure negative pressure with B064
B063	SPS Decon	double negative (--)					0					
			63-S1	200		63-E1	1000		PIT1-1	C	EF118 - VFD	63-E1 Adjust flow (EF 118 - VFD) to create negative pressure reference to Corridor- During construction phase II use as a swing to increase the suction
			63-S2	220		63-E2	700		M	M	63-E2	63-E2 - Complement with 63-1E - Use for Phase II negative pressure in the temporary decon and construction area. Needs to be 0 after construction
			63-S3		***430.00***	63-E3		***400.00***	PIT1-2	C	63-E3	63-E3 - Adjust flow to create negative pressure reference to Alt Cart Wash
			63-S4	400		63-E4	3000		M / PIT3-1	C	63-E4	63-E4 - Adjust flow to create negative pressure reference to Prep area / pass through. Ensure minimum vapor during washer operations.
			63-S5	400		63-E5		***500.00***	M / PIT 3-1	C	63-E5	63-E5 - Complement E4 and djust flow to create negative pressure reference to Prep Area B065. Ensure minimum vapor during washer operations
			63-S6	400		63-E6	100		PIT2-1	C	63-E6	63-E6 - Adjust flow to create negative pressure reference to Medivator area B064
			63-S7	500			0			C	AHU 20	Maximize AMH 20 during cartwash operation . Maximum flow to 1000 cfm at 63-S7 during max EF 119
	Total Decon Phase			2120		0	4800		M	M		Decontam area to be negative reference to others
B068	Alt Cart Wash - cart wash mode	negative (-)	-	0		68-E1		***250.00***	M	C	EF119-VFD	Adjust flow EF 119 - VFD. Normal 250 cfm exhausr, max. 1500 cfm exhaust ffor drying cycle. For Phase II Temp Decon Use as swing exhaust t o range 250-500 normal cycle. Establish minimum exhaust for no-vapor s during and after cart wash.
CW	Auto-Cartwash	negative (-)	77-s1	0		CW-E1		***250.00***	M	C	CW-E1	Adjust flow EF 119 - VFD. Normal 250 cfm exhausr, max. 1500 cfm exhaust ffor drying cycle. For Phase II Temp Decon Use as swing exhaust t o range 250-500 normal cycle. Establish minimum exhaust for no-vapor s during and after cart wash.
CW	Case Carts side					CW-E2		500.00			CW-E2	
B079	Storage Area	positive (+)	79-S1		***590.00***							Temporary supply for temp Decon
B064	Scope Sterilization	positive (+)	64-S1			64-E1	200		M		64-E1	64-E1 to create downward flow
						64-E2	200		PIT2-1		64-E2	64-E2 to create downward flow / Vapors at Cidex
B067	Sterilization	negative (-)	67-S1	700		67-E1	1200		PIT3-2	C	EF 140 VFD	Keep slight negative reference to 65. Manipulate VFD for EF 140
B065	Prep/Assembly	double positive (++)		1850		65-E1			M	M	65-E1	High positive pressure
				2150		(sterlizer)	1500					
	Totals			**6944**	***1020***		**7900**	**1400**				
							Excludes case carts E2					
						Note 1	Manual Sensor implies manual flag indicating diection of flow from positive to negative air-pressure areas					
						Note 2	For Items with a control / modulating Damper, the manual volum e damper shall be locked in open position.					
						Note 3	Ramp up AHU 20 to maximum 3000 cfm and coordinate with EF 119 max flow during wash cycle.					

HVAC PHASED TESTING AND BALANCING TABLE - PHASE 3 (FINAL)

Room No.	Functional Area	Air balance	Register (S: Supply)	Phase IIII CFM	Register (E: Exhaust)	Phase IIII CFM	Reference Sensor M= Manual, PIT= Sensor (Note 1 below)	Manual Balancing (M) or Control (C)	Balancing or Control Element (Note 2)	Notes
			Supply Air (CFM)		Exhaust Air (CFM)					
B061	Unisex Toilet	double negative (--)	61-S1	50	61-E1	250	M	M	61-E1	61-E1 - Adjust exhaust flow to create negative reference to vestibule.
B060	Vestibule	negative (-)	60S1	124	60-E1	150	PIT5-2	C	60-E1	60-E1 - Adjust flow to create negative pressure reference to Corridor
					60-E2	150	PIT5-1	M	60-E2	60-E2 - Adjust flow to ensure negative pressure with B064
B063	SPS Decon	double negative (--)								
			63-S1	0	63-E1	500	PIT1-1	C	EF118 - VFD	63-E1 Adjust flow (EF 118 - VFD) to create negative pressure reference to Corridor- During construction phase II use as a swing to increase the suction
			63-S2	220	63-E2	0	M	M	63-E2	63-E2 - Complement with 63-1E - Use for Phase II negative pressure in the temporary decon and construction area. Needs to be 0 after construction
			63-S3	0	63-E3	885	PIT1-2	C	63-E3	63-E3 - Adjust flow to create negative pressure reference to Alt Cart Wash
			63-S4	400	63-E4	1400	M / PIT3-1	C	63-E4	63-E4 - Adjust flow to create negative pressure reference to Prep area / pass through. Ensure minimum vapor during washer operations.
			63-S5	1000	63-E5	1400	M / PIT 3-1	C	63-E5	63-E5 - Complement E4 and djust flow to create negative pressure reference to Prep Area B065. Ensure minimum vapor during washer operations
			63-S6	1000	63-E6	100	PIT2-1	C	63-E6	63-E6 - Adjust flow to create negative pressure reference to Medivator area B064
			63-S7	500				C	AHU 20	Maximize AMH 20 during cartwash operation . Maximum flow to 1000 cfm at 63-S7 during max EF 119
	Total Decon Phase			3120	0	4285	M	M		Decontam area to be negative reference to others
B068	Alt Cart Wash - cart wash mode	negative (-)	-	0	68-E1	250	M	C	EF119-VFD	Adjust flow EF 119 - VFD. Normal 250 cfm exhausr, max. 1500 cfm exhaust ffor drying cycle. For Phase II Temp Decon Use as swing exhaust t o range 250-500 normal cycle. Establish minimum exhaust for no-vapor s during and after cart wash.
CW	Auto-Cartwash	negative (-)	77-s1	0	CW-E1	250	M	C	CW-E1	Adjust flow EF 119 - VFD. Normal 250 cfm exhausr, max. 1500 cfm exhaust ffor drying cycle. For Phase II Temp Decon Use as swing exhaust t o range 250-500 normal cycle. Establish minimum exhaust for no-vapor s during and after cart wash.
CW	Case Carts side				CW-E2	500			CW-E2	
B079	Storage Area	positive (+)	79-S1							Temporary supply for temp Decon
B064	Scope Sterilization	positive (+)	64-S1	600	64-E1	200	M		64-E1	64-E1 to create downward flow
					64-E2	200	PIT2-1		64-E2	64-E2 to create downward flow / Vapors at Cidex
B067	Sterilization	negative (-)	67-S1	700	67-E1	750	PIT3-2	C	EF 140 VFD	Keep slight negative reference to 65. Manipulate VFD for EF 140
B065	Prep/Assembly	double positive (++)		1850	65-E1	1600	M	M	65-E1	High positive pressure
				2150	(sterlizer)	1500				
	Totals			**8544**		**9535**				
				Note 1	Manual Sensor implies manual flag indicating diection of flow from positive to negative air-pressure areas					
				Note 2	For Items with a control / modulating Damper, the manual volum e damper shall be locked in open position.					
				Note 3	Ramp up AHU 20 to maximum 3000 cfm and coordinate with EF 119 max flow during wash cycle.					

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