

DUCT SOUND ATTENUATOR SCHEDULE																																		
TAG	SERVING	SILENCER DIMENSIONS WH (mm)	LENGTH (mm)	FACE VELOCITY (ms)	APD (Pa)	MAX AIRFLOW (L/s)	DYNAMIC INSERTION LOSS RATING (dB)								SELF NOISE POWER LEVELS, Db RE:10 ⁻¹ W								BASIS OF DESIGN		NOTES									
							OCTAVE BAND				OCTAVE BAND				OCTAVE BAND				OCTAVE BAND				MANUF	MODEL										
							1 63 HZ	2 125 HZ	3 250 HZ	4 500 HZ	5 1K HZ	6 2K HZ	7 4K HZ	8 8K HZ	1 63 HZ	2 125 HZ	3 250 HZ	4 500 HZ	5 1K HZ	6 2K HZ	7 4K HZ	8 8K HZ												
31-1	AHU-1 SUPPLY		915																															
31-2	AHU-1 RETURN		915																															
31-3	AHU-1 RETURN		915																															

AIR HANDLING UNIT SCHEDULE																																	
TAG	LOCATION	FILTERS (NOTE 2)	SUPPLY FAN CHARACTERISTICS						COOLING DATA						HEATING DATA						REMARKS												
			L (L/s)	MIN/MAX DB (L/s)	NEG. ETP	ESP (kPa)	MOTOR DATA (NOTE 1)			EAT (°C)	LAT (°C)	MAX. FACE VEL (m/s)	MAX. AIR PD (Pa)	TOTAL CAP (kW)	SENSIBLE CAP (kW)	EAT DB (°C)	LAT DB (°C)	TOTAL CAP (kW)	ELECTRIC HEATING COIL														
							HP	VOLT	PH										HZ	ROWS		DB	WB	DB	WB	KW	VOLT	PH	HZ				
08-1	LEVEL ONE	31-1 31-2 31-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- NOTES:
- ELECTRICAL CHARACTERISTICS SHALL BE MODIFIED, AS NEEDED TO ENSURE FULLY AND PROPERLY FUNCTIONING SYSTEMS AND COMPONENTS, TO MATCH HOST COUNTRY'S STANDARD ELECTRICAL CURRENT TYPE, FREQUENCY, NUMBER OF PHASES, AND NOMINAL VOLTAGE.
 - F-4 FILTERS ARE REQUIRED TO MEET USEPA NATIONAL AMBIENT AIR QUALITY STANDARDS (NAAQS).
 - COIL ENTERING AND LEAVING AIR TEMPERATURES ARE SITE SPECIFIC AND ARE PROVIDED FOR GUIDANCE PURPOSES ONLY. THE DATA SHOULD NOT BE USED FOR DETERMINING EQUIPMENT CAPACITY.

FILTER SCHEDULE										
TAG	TYPE	SIZE LxWxD(mm)	MAX. AIR FLOW (L/s)	CLEAN MAX. STATIC PRESSURE DROP (Pa)	DIRTY MAX. STATIC PRESSURE DROP (Pa)	EFFICIENCY (%) OR MERV RATING	RESIDENCE TIME (sec)	REMARKS	MOTOR DATA (NOTE 1)	
									HP	VOLT
1-1	EXTENDED SURFACE, DISPOSABLE PANEL FILTER	609x609x300	806	54	311	MERV 13	-			
1-2	HEPA FILTER	609x609x292	806	180	360	99.97	-			
1-3	AS2M-TEDA CARBON ADSORBER HEGA	609x609x483	806	489	489	99.9	0.1			
1-4	EXTENDED SURFACE, DISPOSABLE PANEL FILTER	609x609x100	806	55	0	MERV 8	-			
1-5	ACTIVATED CARBON ADSORBER HEGA	610x610x305	944	94	94	99.9	.033	WHERE REQUIRED BY LOCAL ENVIRON.		

- NOTES FOR DESIGNER:
- THE NUMBER OF FILTERS SHALL BE SELECTED BASED UPON A LIFE CYCLE COST ANALYSIS ASSUMING 5YR HEPA AND 10YR ADSORPTION FILTER REPLACEMENT INTERVALS AND THE FAN ENERGY COSTS ASSOCIATED WITH ADDITIONAL PRESSURE DROP OF A LOWER NUMBER OF FILTERS (WITH A HIGHER FACE VELOCITY). THE BASIS OF THE LIFE CYCLE COST SHALL BE AS SHOWN: 12 ADSORPTION FILTERS PER 10,000 L/S OF AHU CAPACITY. PRESSURE DROPS TO REFLECT ACTUAL AIRFLOW PER FILTER.
 - ADDITIONAL PROPERTIES OF FILTERS DEFINED IN OBO FILTER SPECIFICATION.

AIR COOLED CONDENSING UNIT SCHEDULE									
TAG	LOCATION	SERVICE	OUTDOOR DESIGN TEMPERATURE DB (°C)	SENSIBLE CAP (kW)	MOTOR DATA (NOTE 1)				REMARKS
					KW	VOLT	PH	HZ	
12-1	SITE	AHU-1	-	-	-	-	3	50	(SEE NOTE 2)

- NOTES:
- ELECTRICAL CHARACTERISTICS SHALL BE MODIFIED, AS NEEDED TO ENSURE FULLY AND PROPERLY FUNCTIONING SYSTEMS AND COMPONENTS, TO MATCH HOST COUNTRY'S STANDARD ELECTRICAL CURRENT TYPE, FREQUENCY, NUMBER OF PHASES, AND NOMINAL VOLTAGE.
 - CONDENSING UNIT CAPACITY TO MATCH AIR HANDLING UNIT CAPACITY.

FAN SCHEDULE													
TAG	SERVICE	AREA SERVED	FAN TYPE	DRIVE TYPE	MAX AIRFLOW (L/s)	EXTERNAL STATIC PRESSURE (PA)	MOTOR DATA			BASIS OF DESIGN		NOTES	
							W	RPM	VOLTS/PHASE/HERTZ	MAXIMUM SONES	MANUF.		MODEL
11-1	EXHAUST	LEVEL 1/ RESTROOM	INLINE CEILING CABINET FAN	DIRECT	50	62	100	-	240/1/50		GREECHECK	2	
11-2	EXHAUST	LEVEL 1/ BREAKROOM	CEILING CABINET FAN	DIRECT	25	62	30	-	240/1/50	1.2	GREECHECK	2	
11-3	EXHAUST	LEVEL 2/ RESTROOM	CEILING CABINET FAN	DIRECT	25	62	30		240/1/50	1.2	GREECHECK	1	
11-4	EXHAUST	LEVEL 2/ BATHROOM	CEILING CABINET FAN	DIRECT	25	62	30		240/1/50	1.2	GREECHECK	1	
11-5	EXHAUST	LEVEL 2/ BATHROOM	CEILING CABINET FAN	DIRECT	25	62	30		240/1/50	1.2	GREECHECK	1	
11-6	EXHAUST	LEVEL 2/ BATHROOM	CEILING CABINET FAN	DIRECT	25	62	30		240/1/50	1.2	GREECHECK	1	
11-7	EXHAUST	LEVEL 2/ BATHROOM	CEILING CABINET FAN	DIRECT	25	62	30		240/1/50	1.2	GREECHECK	1	
11-8	EXHAUST	LEVEL 2/ BATHROOM	CEILING CABINET FAN	DIRECT	25	62	30		240/1/50	1.2	GREECHECK	1	
11-9	EXHAUST	LEVEL 2/ BATHROOM	CEILING CABINET FAN	DIRECT	25	62	30		240/1/50	1.2	GREECHECK	1	
12-1	EXHAUST	M012 KITCHEN	INLINE CENTRIFUGAL	DIRECT	236	75	660		240/1/50		VIKING	VNV600	4
13-1	POST-FIRE SMOKE PURGE	FIRST & SECOND FLOORS	UPBLAST CENTRIFUGAL ROOF EXHAUSTER	DIRECT	3190	125	223		415/3/50		GREECHECK		3
13-2	RELIEF	FIRST FLOORS	DOWNBLAST CENTRIFUGAL ROOF EXHAUSTER	DIRECT	472	62	186		240/1/50		GREECHECK		2

- NOTES:
- INTERLOCK FAN OPERATION WITH SPACE LIGHTING CONTROLS.
 - DDC SYSTEM SHALL OPERATE FAN CONTINUOUSLY, INTERLOCK WITH OPERATION OF AHU-1.
 - FAN TO OPERATE A PART OF THE POST FIRE SMOKE PURGE SYSTEM.
 - FANS ARE PART OF KITCHEN HOOD EQUIPMENT, OPERATED FROM HOOD PER MANUFACTURER ON-OFF, VARIABLE FLOW.

GRAVITY INTAKE HOOD SCHEDULE						
TAG	THROAT SIZE L x W (mm)	MAX AIR FLOW (L/S)	DUCTED STATIC PRESSURE (Pa)	MFR	MODEL No.	REMARKS
OAI-1	450 x 450		25			

AIR DEVICE SCHEDULE										
TAG	L/S MAXIMUM	SERVICE	TYPE	SIZE (mm)		MOUNT	MAX NC	BASIS OF DESIGN		NOTES
				FACE	NECK			MANUF	MODEL	
A	50	SUPPLY	DIFFUSER	610x610	155	LAY-IN				1
B	150	SUPPLY	DIFFUSER	610x610	205	SURFACE/LAY-IN	23			1
C	35	SUPPLY	GRILLE	205x205	155x155	SURFACE				1.3
D	70	SUPPLY	-	-	-	-	34			1.2
E	70	SUPPLY	-	-	-	-	23			1.2
F	65	RETURN	FLOOR GRILLE	380x170	350x150	FLOOR MTD				1
G	-	RETURN	GRILLE	610x610	560x560	SURFACE/LAY-IN				1.3
H	-	RETURN	SIDEWALL GRILLE							

- NOTES:
- REFER TO DRAWINGS FOR ACTUAL AIR BALANCE QUANTITIES IN SPECIFIC LOCATIONS.
 - PROVIDE LINEAR SLOT DIFFUSER WITH BORDER TYPE 4.
 - MOUNTING STYLE VARIES FOR THIS GRILLE TAG, PROVIDE SURFACE MOUNTING FRAME WHERE USED IN HARD CEILING AND WALL MOUNTING APPLICATIONS; WHERE MOUNTED ON A LAY-IN CEILING, PROVIDE THE APPROPRIATE MOUNTING FRAME.

VARIABLE AIR VOLUME BOX SCHEDULE												
TAG	SERVES ROOM	INLET SIZE (mm)	MAXIMUM AIR FLOW (L/s)	MINIMUM AIR FLOW (L/s)	MAXIMUM STATIC PRESSURE DROP (Pa)	MAXIMUM NC LEVEL FOR RATED L/s		ELECTRIC HEATING COIL			REMARKS	
						DISCHARGE	RADIATED	KW	VOLT	PH		HZ
14-1	200, 201	100	-	-	-	25	25	-	-	-	-	
14-2	202	100	-	-	-	-	-	-	-	-	-	
14-3	205	100	-	-	-	-	-	-	-	-	-	
14-4	208	100	-	-	-	-	-	-	-	-	-	
14-5	211	100	-	-	-	-	-	-	-	-	-	
14-6	214	100	-	-	-	-	-	-	-	-	-	
14-7	217	100	-	-	-	-	-	-	-	-	-	
14-8	220	100	-	-	-	-	-	-	-	-	-	
14-9	221	100	-	-	-	-	-	-	-	-	-	
14-10	101	200	-	-	-	-	-	-	-	-	-	
14-11	121, 123	150	-	-	-	-	-	-	-	-	-	
14-12	119, 118	300	-	-	-	-	-	-	-	-	-	
14-13	104, 110	200	-	-	-	-	-	-	-	-	-	
14-14	108	150	-	-	-	-	-	-	-	-	-	
14-15	112	200	-	-	-	-	-	-	-	-	-	
14-16	112	200	-	-	-	-	-	-	-	-	-	INTERLOCK W/ KITCHEN HOOD
14-17	111, 114, 113	150	-	-	-	-	-	-	-	-	-	
14-18	100	-	-	-	-	-	-	-	-	-	-	

- NOTES:
- PROVIDE THERMOSTAT AND CONTROL WIRING FOR VAV BOX. EXACT THERMOSTAT LOCATION TO BE COORDINATED WITH WALL-MOUNTED EQUIPMENT.

National Institute of Building Sciences
Building Smart Alliance
Washington, DC

Barracks 101

Building Information Model Common File

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- GENERAL NOTES:
- DESIGN MECHANICAL SYSTEMS PER THE LATEST VERSION OF THE INTERNATIONAL MECHANICAL CODE (IMC) AND OWNER'S DESIGN REQUIREMENTS AND SPECIFICATIONS.
 - EQUIPMENT, DUCTWORK, AND PIPING SIZES AND LOCATIONS ARE SCHEMATIC IN NATURE. ACTUAL SIZES AND LOCATIONS ARE TO BE BASED ON SITE-SPECIFIC CONDITIONS AND OWNER'S DESIGN STANDARDS AND SPECIFICATIONS.

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