UNIT HEATER SCHEDULE

TAG	DESCRIPTION	MOUNTING	ELECTRICAL POWER	ELECTRICAL V/P/H	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	REMARKS
UH-1	CEILING-MOUNTED UNIT HEATER	CEILING	3 kW	208/1/60	HES	GC	INDEECO	931U04000V	

GRILLS, REGISTERS, AND DIFFUSERS SCHEDULE

TAG	DESCRIPTION	FACE SIZE	MATERIAL	FINISH	MOUNTING	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	NOTES
BS1	BATHROOM AIR PURIFICATION UNIT	5.44" X 16"	ALUMINUM	STAINLESS STEEL	GYP CEILING	TUV	GC	RGF ENVIRONMENTAL GROUP	BRU ASSEMBLY	SEE ELECTRICAL SHEETS FOR CONNECTION INFORMATION
SR1	DOUBLE DEFLECTION SUPPLY REGISTER	SEE NECK SIZE	ALUMINUM	MILL	DUCT	GC	GC	NAILOR	51DH	PROVIDE INTEGRAL OBD

LOUVER SCHEDULE

TAG	DESCRIPTION	SIZE	FREE AREA	FLOW	PRESSURE DROP	MATERIAL	FINISH	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	REMARKS
LV-1	DRAINABLE OA INTAKE LOUVER	18" X 36"	2.07 SF	3740 CFM	0.17 in-wg	ALUMINUM	To Match Storefront	HES	GC	RUSKIN	ELF6375DX	WITH BIRD SCREEN & MOUNTING SYSTEM COMPATIBLE WITH WALL
LV-2	DRAINABLE EXHAUST LOUVER	12" X 34"	0.86 SF	3940 CFM	0.04 in-wg	ALUMINUM	To Match Storefront	HES	GC	RUSKIN	ELF6375DX	WITH BIRD SCREEN & MOUNTING SYSTEM COMPATIBLE WITH WALL

FAN SCHEDULE

TAG	DRIVE TYPE	EXHAUST FLOW [CFM]	E.S.P. [in W.C.]	WEIGHT [lbs]	ELECTRICAL MOTOR POWER	ELECTRICAL V/P/H	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	REMARKS
EF-1	DIRECT	450 CFM	0.80 in-wg	50	0.42 HP	120/1/60	THS	GC	CAPTIVE-AIRE	CFA700CA	WITH DISCONNECT, VARIABLE SPEED CONTROLLER, BACKDRAFT DAMPER, AND INLINE ADAPTER KIT
EF-2	DIRECT	180 CFM	0.80 in-wg	15	0.042 HP	120/1/60	THS	GC	CAPTIVE-AIRE	CFA250CA	WITH DISCONNECT, VARIABLE SPEED CONTROLLER, BACKDRAFT DAMPER, AND INLINE ADAPTER KIT
EF-3	DIRECT	110 CFM	0.80 in-wg	15	0.042 HP	120/1/60	THS	GC	CAPTIVE-AIRE	CFA250CA	WITH DISCONNECT, VARIABLE SPEED CONTROLLER, BACKDRAFT DAMPER, AND INLINE ADAPTER KIT

DIRECT EXPANSION COIL SCHEDULE

TAG	DESCRIPTION	TOTAL [CFM]	DUCT SIZE WIDTH	DUCT SIZE HEIGHT	COOLING TOTAL [MBH]	COOLING SENSIBLE [MBH]	COOLING EAT-DB	COOLING EAT-WB	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	REMARKS
DX-1	MAKEUP AIR COOLING COIL	3740 CFM	36"	30"	135	134	91 °F	67 °F	HES	GC	TRANE	DFDB30036G0D	

VRF AIR HANDLING UNITS

TAG	QTY	DESCRIPTION	NOMINAL CAPACITY [TONS]	COOLING CAPACITY TOTAL [MBH]	HEATING CAPACITY HEATING CAPACITY [MBH]	APPROXIMATE WEIGHT [lbs]	ELECTRICAL MOCP	ELECTRICAL FLA	ELECTRICAL V/P/H	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	REMARKS
IU-1	1	2x2 VRF 4-WAY CEILING CASSETTE	.75	8	9	45	15 A	0.3 A	208/1/60	Mitsubishi Electric	PLFY-P08NCMU-E	
IU-2	1	2x2 VRF 4-WAY CEILING CASSETTE	1	12	13	50	15 A	0.4 A	2081/60	Mitsubishi Electric	PLFY-P12NCMU-E	
IU-3	1	2x2 VRF 4-WAY CEILING CASSETTE	.75	8	9	45	15 A	0.3 A	208/1/60	Mitsubishi Electric	PLFY-P08NCMU-E	
IU-4	1	2x2 VRF 4-WAY CEILING CASSETTE	1.25	15	17	50	15 A	0.4 A	208/1/60	Mitsubishi Electric	PLFY-P15NCMU-E	
IU-5	1	2x2 VRF 4-WAY CEILING CASSETTE	.75	8	9	45	15 A	0.3 A	208/1/60	Mitsubishi Electric	PLFY-P08NCMU-E	
IU-6	1	2x2 VRF 4-WAY CEILING CASSETTE	1.25	15	17	50	15 A	0.4 A	208/1/60	Mitsubishi Electric	PLFY-P15NCMU-E	
IU-7	1	2x2 VRF 4-WAY CEILING CASSETTE	.75	8	9	45	15 A	0.3 A	208/1/60	Mitsubishi Electric	PLFY-P08NCMU-E	
IU-8	1	2x2 VRF 4-WAY CEILING CASSETTE	.75	8	9	45	15 A	0.3 A	208/1/60	Mitsubishi Electric	PLFY-P08NCMU-E	

POLLUTION CONTROL UNIT SCHEDULE

TAG	DESCRIPTION	AIRFLOW EXHAUST FLOW [CFM]	AIRFLOW E.S.P. [IN. WC]	ELECTRICAL MOTOR POWER	ELECTRICAL V/P/H	APPROXIMATE WEIGHT[LBS]	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	REMARKS
PCU-1	POLLUTION CONTROL UNIT	3200	3.00	7.5 HP	208/3/60	2010	Captive-Aire	KB18-PCU	COMBINATION FAN AND POLLUTION CONTROL UNIT WITH 4-STAGE FILTRATION AND ODOR CONTROL. SUPPLY UNIT W/ROOF CURB, DISCONNECT SWITCH, AND FIRE SUPPRESSION.

MAKEUP AIR UNIT SCHEDULE

TAG	DESCRIPTION	AIRFLOW SUPPLY FLOW [CFM]	AIRFLOW E.S.P. [in. W.C.]	HEATING CAPACTIY INPUT [MBH]	HEATING CAPACTIY OUTPUT [MBH]	HEATING CAPACTIY MAXIMUM TURNDOWN	HEATING CAPACTIY EAT	APPROXIMATE WEIGHT [lbs]	ELECTRICAL MOTOR POWER	ELECTRICAL V/P/H	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	REMARKS
MAU-1	MAKEUP AIR UNIT	3740	0.80	225	220	12.5:1	-6 °F	650	2 HP	208/3/60	THS	GC	CAPTIVE-AIRE	A1-D.250-G10	INDOOR SIDE DISCHARGE, FURNISHED WITH DISCONNECT, UNISTRUT BASE, AND WASHABLE ALUMINUM FILTERS

CONDENSING UNIT SCHEDULE

TAG	DESCRIPTION	NOMINAL CAPACITY [TONS]	NUMBER OF COMPRESSORS	NUMBER OF CIRCUITS	REFRIGERANT TYPE	REFRIGERANT CHARGE	WEIGHT	ELECTRICAL MOCP	ELECTRICAL FLA	ELECTRICAL V/P/H	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	REMARKS
CU-1	WALK-IN COOLER REMOTE CONDENSING UNIT	--	1	1	R-448A	14.4 LBS	260	20 A	16.2 A	208/3/60	WCS	GC	NORLAKE	NASD150RL3	FURNISHED WITH WALK-IN COOLER

VRF CONDENSING UNIT SCHEDULE

TAG	DESCRIPTION	CAPACITY NOMINAL [Tons] [TONS]	CAPACITY COOLING [Btu/h]	CAPACITY HEATING [Btu/h]	NUMBER OF COMPRESSORS	NUMBER OF CIRCUITS	EVAPORATOR PRESSURE DROP WPD	EVAPORATOR FLOW	REFRIGERANT TYPE	REFRIGERANT CHARGE	WEIGHT	ELECTRICAL MOCP	ELECTRICAL FLA	ELECTRICAL V/P/H	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	REMARKS
VC-1	MAKEUP AIR CONDENSING UNIT	12	144000	160000	1	1	6.38 psi	32 GPM	R410A	13.2	474	60 A	35.0 A	208/3/60	HES	GC	TRANE	TQHYP1443AL41AN	
VC-2	VRF HEAT RECOVERY UNIT	6	72000	80000	1	1	3.58 psi	25 GPM	R410A	11.1	382	20 A	13.0 A	208/3/60	HES	GC	TRANE	TQHYP0723AL41AN	

KITCHEN HOOD SCHEDULE

TAG	DESCRIPTION	MAX COOKING TEMP.	EXHAUST PLENUM AIRFLOW [CFM]	EXHAUST PLENUM SP [in. W.C]	EXHAUST PLENUM DUCT COLLARS NO.	EXHAUST PLENUM DUCT COLLARS WIDTH	EXHAUST PLENUM DUCT COLLARS LENGTH	EXHAUST PLENUM LENGTH	EXHAUST PLENUM WIDTH	PERFORATED SUPPLY PLENUMS SP [in. W.C.]	PERFORATED SUPPLY PLENUMS SUPPLY PLENUM LENGTH	PERFORATED SUPPLY PLENUMS SUPPLY PLENUM WIDTH	MAU PLENUM AIRFLOW [CFM]	MAU PLENUM DUCT COLLARS N0.	MAU PLENUM DUCT COLLARS WIDTH	MAU PLENUM DUCT COLLARS LENGTH	AC PLENUM AIRFLOW [CFM]	AC PLENUM DUCT COLLARS N0.	AC PLENUM DUCT COLLARS DIAMETER	NUMBER OF LIGHT FIXTURES	APPROXIMATE WEIGHT [lbs]	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	REMARKS
HD-1	Type I Canopy Hood	600°F	3200	0.83	1	10"	30"	14' - 3"	4' - 3"	0.1	15' - 3"	22"	0	1	12"	24"				10	1000			Captive-Aire	5424 ND-2-F	MAT'L: 18 GA. TYPE 430 SS. PROVIDE WITH (10) 20" X 16" HE SS FILTERS, INTEGRAL UTILITY CABINET, ANSUL SYSTEM, (1) QUARTER END PANEL, (1) NARROW VERTICAL END PANEL, DUCT COLLAR TEMPERATURE SENSOR & PREWIRE PACKAGE
HD-2	TYPE II CANOPY HOOD	N/A	450	0.08	1																250			CAPTIVE-AIRE	6024 VHB-G-ND	MAT'L: 18 GA. TYPE 430 SS

VENTILATION SCHEDULE

ROOM NAME	ROOM PURPOSE (per Table 403.3)	FLOOR AREA	ORDINACE REQUIREMENTS NATURAL LIGHT AND VENTILATION (SF) GLASS AREA	ORDINACE REQUIREMENTS NATURAL LIGHT AND VENTILATION (SF) VENT AREA	ORDINACE REQUIREMENTS MECHANICAL VENTILATION (CFM) SUPPLY AIR	ORDINACE REQUIREMENTS MECHANICAL VENTILATION (CFM) EXHAUST AIR (from room)	ACTUAL PROVIDED NATURAL LIGHT & VENTILATION (SF) GLASS AREA	ACTUAL PROVIDED NATURAL LIGHT & VENTILATION (SF) VENT AREA	ACTUAL PROVIDED MECHANICAL VENTILATION (CFM) SUPPLY AIR	ACTUAL PROVIDED MECHANICAL VENTILATION (CFM) EXHAUST AIR (from room)	EQUIPMENT TAG OF EQUIPMENT SUPPLYING THE ROOM	EQUIPMENT TAG OF EQUIPMENT EXHAUSTING THE ROOM	REMARKS
DINING ROOM	PUBLIC DINING ROOMS - NO COOKING EQUIPMENT	934	--	--	1,401	1,401	-	-	3,740	*3,740	MAU-1	-	*TRANSFER AIR/LEAKAGE
KITCHEN	KITCHENS, PUBLIC	370	--	--	444	1,480	-	-	3,450	3,650	MAU-1	PCU-1 EF-1	3,200 CFM EXHAUSTED THROUGH PCU-1, 450 CFM EXHAUSTED FROM EF-3; 512 VENTILATION AIR AND 1950 CFM MAKEUP AIR
UNISEX 1 RESTROOM	TOILET ROOMS	54	--	--	0	108	-	-	0	110	MAU-1	EF-3	EXHAUSTED THROUGH EF-3 SUPPLY IS VIA TRANSFEER AIR FROM DINING
ADA . UNISEX 2 RESTROOM	TOILET ROOMS	86	--	--	0	172	-	-	0	180	MAU-1	EF-2	EXHAUSTED THROUGH EF-2 SUPPLY IS VIA TRANSFEER AIR FROM DINING
HOOD EXHAUST CALCULATIONS			TOTAL		1,871	3,146			3,950	3,910			

HD-1: TYPE 1 HOOD
Q = LENGTH OF HOOD X CFM/LINEAR FOOT (600 DEG. COOKING WITH END PANELS)
Q = 14.25' X 170 CFM/FT = 2,423 CFM
Q + 20% = 2,907 CFM REQUIRED | 3,200 CFM PROVIDED

CONTROL FUNCTIONS

A. THE MAIN COOKING EXHAUST FAN AND MAKE-UP AIR UNIT SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND INCLUDES A FIRE PROTECTION OVERRIDE.
B. THE TEMPERATURE IN EACH ZONE IS CONTROLLED BY SPACE TEMPERATURE SENSORS CONNECTED TO THE THERMOSTATS LOCATED IN THE OFFICE. ALL ZONES SHALL OPERATE WITH CONTINUOUS FAN OPERATION DURING OCCUPIED TIMES AND INTERMITTENTLY AS NEEDED TO MAINTAIN SET POINTS DURING UNOCCUPIED TIMES. OUTSIDE AIR DAMPERS SHALL BE OPEN CONTINUOUSLY WHEN EITHER IN OCCUPIED MODE OR WHEN THE HOOD SYSTEM IS ON AND SHALL BE CLOSED DURING UNOCCUPIED PERIODS.
C. THE THERMOSTATS SHALL DETERMINE OCCUPIED/UNOCCUPIED STATUS BASED ON THE SCHEDULE IN THE ENERGY MANAGEMENT SYSTEM.

AIR BALANCE SCHEDULE

Tag	Supply Flow [CFM]	Return Flow [CFM]	Exhaust Flow [CFM]	Subtotal [CFM]
EF-1	0	0	450	-450
EF-2	0	0	180	-180
EF-3	0	0	110	-110
MAU-1	3740	0	0	3740
PCU-1	0	0	3200	-3200
VC-2				
Net Pressurization [CFM]				-200

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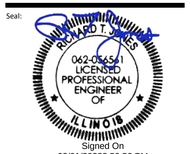

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Issue Record:

03/29/2021	PERMIT SET
04/14/2021	BID SET

Revisions:

Drawn: RTJ
Checked: RTJ

Project No.
2101156

Contents:
HVAC SCHEDULES

M600