

VRF FAN COIL SCHEDULE														
TAG	SERVICE	MANUF.	MODEL NO.	TYPE	CFM	EXT. S.P. (IN. W.C.)	NOMINAL TONS	RATED CAPACITY			WEIGHT (LBS.)	REMARKS		
								COOLING		HEATING (MBH)				
								TOTAL (MBH)	SENSIBLE (MBH)					
VRF-1-1	114 COMMUNITY ROOM	LENNOX	VMDB036H4-3P	DUCTED	1,200	0.60	3.0	31,353	21,724	35,595	5.0	208/1/60	124	SEE NOTES
VRF-1-2	114 COMMUNITY ROOM	LENNOX	VMDB048H4-3P	DUCTED	1,370	0.60	4.0	41,804	28,966	45,764	5.0	208/1/60	124	SEE NOTES
VRF-1-3	120 CHEIF'S OFFICE	LENNOX	VMDB007H4-3P	DUCTED	220	0.32	0.5	6,096	4,224	6,780	1.25	208/1/60	51	SEE NOTES
VRF-1-4	118 READY ROOM	LENNOX	VMDB015H4-3P	DUCTED	450	0.60	1.25	13,064	9,051	14,407	3.13	208/1/60	100	SEE NOTES
VRF-1-5	122 KITCHEN	LENNOX	VVMC030H4-3P	WALL MOUNT	700	-	2.5	26,127	18,006	28,200	0.65	208/1/60	38	SEE NOTES
VRF-2-1	219 GENERAL OFFICE	LENNOX	VMDB018H4-3P	DUCTED	480	0.6	1.5	15,677	10,862	18,343	3.13	208/1/60	100	SEE NOTES
VRF-2-2	223 COMMON AREA	LENNOX	VMDB030H4-3P	DUCTED	780	0.60	2.5	26,127	18,104	29,698	5.0	208/1/60	100	SEE NOTES
VRF-2-3	203 CORRIDOR	LENNOX	VHB048H4-3P	DUCTED	1,429	0.80	4.0	41,804	28,966	47,167	7.6	208/1/60	166	SEE NOTES
VRF-2-4	200 CHIEF'S OFFICE	LENNOX	VMDB007H4-3P	DUCTED	220	0.32	0.5	6,096	4,224	6,780	1.25	208/1/60	51	SEE NOTES

- NOTES:  
 1. REFER TO DETAILS AND MANUF.'S RECOMMENDATION OF REFRIGERANT PIPE SIZING AND FITTINGS.  
 2. PROVIDE W/ CONDENSATE PUMP.  
 3. PROVIDE W/ 7-DAY PROGRAMMABLE THERMOSTAT.

VRF CONDENSING UNIT SCHEDULE												
TAG	SERVICE	MANUF.	MODEL NO.	RATED CAPACITY		REFRIG.	EER	ELECTRIC		WEIGHT (LBS.)	REMARKS	
				COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)							
				MCA	SYSTEM							
CU-1	OUTSIDE	LENNOX	VRB120L4M-3Y	116,854	128,266	R410A	12.3	82.6	208/3/60	1,093	SEE NOTES	
CU-2	OUTSIDE	LENNOX	VRB096LM-3Y	88,500	102,195	R410A	12.7	75	208/3/60	1,093	SEE NOTES	

- NOTES:  
 1. UNIT SHALL BE MOUNTED ON PRE-FABRICATED EQUIPMENT SUPPORTS (24" HIGH EQUIPMENT RAILS) WITH NEOPRENE RUBBER ISOLATION PADS. PROVIDE WITH AIR GUIDE AND HAIL GUARD KITS FOR LOW AMBIENT OPERATION.  
 2. RATED CAPACITY BASED ON:  
 HEATING - INDOOR: 70.0°F (DB), OUTDOOR: -4.0°F (DB) & 4.4°F (WB)  
 COOLING - INDOOR: 75.0°F (DB) & 62.0°F (WB), OUTDOOR: 91.0°F (DB)

HEAT RECOVERY VENTILATOR SCHEDULE																		
TAG	SERVICE	MANUF.	MODEL NO.	SUPPLY FAN		EXHAUST FAN		WEIGHT (LBS.)	SUMMER				WINTER		ELECTRIC			REMARKS
				CFM	EXT. SP. (IN. W.C.)	CFM	EXT. SP. (IN. W.C.)		EAT (DB °F)	EAT (WB °F)	LAT (DB °F)	LAT (WB °F)	EAT (DB °F)	LAT (DB °F)	MCA	MOP	SYSTEM	
				HRV-1	APPARATUS BAY	RENEWAIRE	EV450JIN-S11E---GNTF-L		400	0.75	400	0.75	199	90.0	71.0	79.0	66.4	

- NOTES:  
 1. PROVIDE W/ MERV-8 FILTERS.

VRF HEAT RECOVERY BOX SCHEDULE												
TAG	SERVICE	MANUF.	MODEL NO.	TYPE	REFRIG.	PORTS		ELECTRIC		WEIGHT (LBS.)	REMARKS	
						NO. / MAX	MCA	SYSTEM				
						HRB-1-1	107 MECHANICAL	LENNOX	V8SBB06-3P			HEAT RECOVERY
HRB-2-1	217 RECORD FILES	LENNOX	V8SBB04-3P	HEAT RECOVERY	R-410A	4/4	0.4	208/1/60	84			

EXHAUST FAN SCHEDULE												
TAG	MANUF.	MODEL NO.	TYPE	CFM	DRIVE	EXT. SP. (IN)	RPM	WEIGHT (LBS.)	ELECTRIC		REMARKS	
									FLA	SYSTEM		
									EF-1-1	COOK		30XLPH
EF-1-2	COOK	GCVF-180	CEILING	150	DIRECT	0.75	1349	17	1.2	115/1/60	SEE NOTES	
EF-1-3	COOK	100 SQN28D060VF	IN-LINE	230	DIRECT	0.75	2611	70	4.4	115/1/60	SEE NOTES	
EF-1-4	COOK	GCVF-180	CEILING	150	DIRECT	0.75	1349	17	1.2	115/1/60	SEE NOTES	
EF-1-5	COOK	GCVF-700	CEILING	300	DIRECT	0.75	1498	37	4.4	115/1/60	SEE NOTES	
EF-1-6	COOK	GCVF-700	CEILING	225	DIRECT	0.75	1498	37	4.4	115/1/60	SEE NOTES	
EF-1-7	COOK	GCVF-700	CEILING	225	DIRECT	0.75	1498	37	4.4	115/1/60	SEE NOTES	
EF-1-8	COOK	GCVF-180	CEILING	150	DIRECT	0.75	1349	17	1.2	115/1/60	SEE NOTES	
EF-2-1	COOK	GCVF-180	CEILING	150	DIRECT	0.75	1349	17	1.2	115/1/60	SEE NOTES	

- NOTES:  
 1. PROVIDE WITH THE FOLLOWING OPTIONS:  
 - INTEGRAL BACKDRAFT DAMPER.  
 - WHITE ALUMINUM GRILLE (CEILING MOUNTED).  
 \*\* - DAMPERS SHALL HAVE AN AIR LEAKAGE RATE OF NOT GREATER THAN 20 CFM/SQFT WHERE NOT LESS THAN 24" IN EITHER DIMENSION AND 40 CFM/SQFT WHERE LESS THAN 24" IN EITHER DIMENSION. THE RATE OF AIR LEAKAGE SHALL BE DETERMINED AT 1.0" W.C. WHEN TESTED IN ACCORDANCE WITH AMCA 500D FOR SUCH PURPOSE. THE DAMPERS SHALL BE LABELED BY AN APPROVED AGENCY.

HYDRONIC UNIT HEATER SCHEDULE														
TAG	SERVICE	MANUF.	MODEL NO.	SIZE	CFM	BTUH	GPM	EWT (°F)	LWT (°F)	WPD (FT)	ELECTRIC			REMARKS
											HP	SYSTEM		
											UH-1-4	107 MECHANICAL	MODINE	
UH-2-1	201 MEZZANINE STORAGE	MODINE	HSB/HC 18L	12-3/8"(H) x 13"(W) x 11"(D)	230	8,700	1.2	180	140	0.1	1/60	120/1/60	SEE NOTES	

- NOTES:  
 1. VERTICAL MOUNT. PROVIDE WITH WALL-MOUNTING BRACKET.  
 2. FURNISH WITH LINE-VOLTAGE THERMOSTAT (WALL-MOUNTED).  
 3. PROVIDE WITH INTEGRAL DISCONNECT.

HYDRONIC CABINET HEATER SCHEDULE															
TAG	SERVICE	MANUF.	MODEL NO.	OUTPUT (BTU/H)	MOUNTING	DEPTH (IN)	WIDTH (IN)	LENGTH (IN)	GPM	EFT (°F)	LFT (°F)	WPD (FT)	ELECTRIC		REMARKS
													MCA	SYSTEM	
													CH-1-1	108 CORRIDOR	
CH-1-2	126 LOBBY	BEACON MORRIS	RC-1200-U2	16,400	CEILING RECESS	9-1/2	25	35	0.9	180	140	1.5	0.8	120/1/60	SEE NOTES
CH-1-3	S1 STAIR-1	BEACON MORRIS	RC-1200-U2	16,400	WALL/RECESS	9-1/2	25	35	0.9	180	140	1.5	0.8	120/1/60	SEE NOTES
CH-1-4	S2 STAIR-2	BEACON MORRIS	RC-1200-U2	16,400	WALL/RECESS	9-1/2	25	35	0.9	180	140	1.5	0.8	120/1/60	SEE NOTES

- NOTES:  
 1. PROVIDE DISCONNECT FOR INSTALLATION BY EC.  
 2. PROVIDE WITH W120 RECESSED KIT & LOW TEMP AQUASTAT.  
 3. SHALL BE SUITABLE FOR USE WITH PROPYLENE GLYCOL/WATER SYSTEMS.  
 4. PROVIDE HANGING BRACKET AND INSTALL PER MANUF'S REQUIREMENTS.

INDUSTRIAL CEILING FAN SCHEDULE												
TAG	SERVICE	MODEL NO.	SERIES	TYPE	DIAMETER	WEIGHT (LBS)	ELECTRIC		REMARKS			
							HP (MOTOR)	SYSTEM				
							CF-1	APPARATUS BAY		PF8-08	POWERFOIL 8	CEILING SUSPENDED
CF-2	APPARATUS BAY	PF8-08	POWERFOIL 8	CEILING SUSPENDED	8-FEET	135	1	208/1/60	SEE NOTES			
CF-3	APPARATUS BAY	PF8-08	POWERFOIL 8	CEILING SUSPENDED	8-FEET	135	1	208/1/60	SEE NOTES			
CF-4	APPARATUS BAY	PF8-08	POWERFOIL 8	CEILING SUSPENDED	8-FEET	135	1	208/1/60	SEE NOTES			
CF-5	APPARATUS BAY	PF8-08	POWERFOIL 8	CEILING SUSPENDED	8-FEET	135	1	208/1/60	SEE NOTES			
CF-6	APPARATUS BAY	PF8-08	POWERFOIL 8	CEILING SUSPENDED	8-FEET	135	1	208/1/60	SEE NOTES			

BASIS OF DESIGN: BIG ASS FANS

- NOTES:  
 1. PROVIDE WITH:  
 - WALL MOUNTED, CONTROLLER WITH ON/OFF AND VARIABLE SPEED CAPACITY.  
 NOTE: ALL (QTY: 6) CEILING FANS SHALL BE CONTROLLED VIA SINGLE SWITCH.

DIFFUSER AND GRILLE SCHEDULE												
TAG	MODEL NO.	MANUF.	NECK SIZE	LENGTH	FACE SIZE	MOUNTING TYPE	MATERIAL	DAMPER	REMARKS			
										ED-1	UN12	NAILOR
ED-2	UN12	NAILOR	8"ø	-	24"x24"	LAY-IN	ALUMINUM	VOLUME DAMPER	SEE NOTES			
EG	6155H-O	NAILOR	12"x10"	-	12"x10"	SURFACE	STEEL		SEE NOTES			
EG-1	6155H-O	NAILOR	10" x 6"	-	10" x 6"	SURFACE	STEEL		SEE NOTES			
EG-2	6155H-O	NAILOR	12" x 12"	-	12"x12"	SURFACE	STEEL		SEE NOTES			
LD-1	5310(I)-1219	NAILOR	8"ø	48"		LAY-IN	STEEL	VOLUME DAMPER	SEE NOTES			
LD-2	5310(I)-1219	NAILOR	10"ø	48"		LAY-IN	STEEL	VOLUME DAMPER	SEE NOTES			
RD-1	UN12	NAILOR	8"ø	-	24"x24"	LAY-IN	STEEL	VOLUME DAMPER	SEE NOTES			
RD-2	UN12	NAILOR	8"ø	-	24"x24"	LAY-IN	STEEL	VOLUME DAMPER	SEE NOTES			
RD-4	UN12	NAILOR	12"ø	-	24"x24"	LAY-IN	STEEL	VOLUME DAMPER	SEE NOTES			
RD-5	UN12	NAILOR	14"ø	-	24"x24"	LAY-IN	STEEL	VOLUME DAMPER	SEE NOTES			
RG-1	6155H-O	NAILOR	16" x 8"	-	16" x 8"	SURFACE	STEEL	INTEGRAL DAMPER	SEE NOTES			
SD-1	UN12	NAILOR	8"ø	-	24"x24"	LAY-IN	STEEL	VOLUME DAMPER	SEE NOTES			
SD-2	UN12	NAILOR	8"ø	-	24"x24"	LAY-IN	STEEL	VOLUME DAMPER	SEE NOTES			
SD-3	UN12	NAILOR	10"ø	-	24"x24"	LAY-IN	STEEL	VOLUME DAMPER	SEE NOTES			
SG-1	51DH-O	NAILOR	8" x 6"	-	8" x 6"	SURFACE	STEEL	INTEGRAL DAMPER	SEE NOTES			
SG-2	51DH-O	NAILOR	14"x12"	-	24"x24"	SURFACE	STEEL	VOLUME DAMPER	SEE NOTES			
SG-3	51DH-O	NAILOR	60" x 60"	-	60" x 60"	SURFACE	STEEL	INTEGRAL DAMPER	SEE NOTES			

- NOTES:  
 1. ARCHITECT TO SELECT COLOR.  
 2. PROVIDE AUXILIARY FRAME AS REQUIRED FOR SURFACE MOUNTING.  
 3. PROVIDE SQUARE TO ROUND ADAPTER WHERE REQUIRED.

DUCT INSULATION SCHEDULE							
SERVICE	TEMP. RANGE (°F)	LOCATION	TYPE	DUCT SIZE	THICKNESS	JACKET	REMARKS
SUPPLY AIR DUCTWORK	55 - 95	ALL	MFB	ALL	R-6	NONE	
OUTDOOR AIR DUCTWORK	55 - 95	ALL	MFB	ALL	R-6	NONE	
GREASE DUCTWORK							- SEE NOTE 2 -

- NOTES:  
 1. SEE SECTION 23 07 13. TYPE: MFB - MINERAL FIBER BLANKET

2. WRAP WITH APPROVED FIELD-APPLIED GREASE DUCT ENCLOSURE MATERIAL IN ACCORDANCE WITH ASTM E 2336. ENCLOSURE MATERIALS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS TO PROVIDE AND MAINTAIN FIRE-RATED ENCLOSURE THROUGHOUT ENTIRE LENGTH AND MEET CLEARANCE REQUIREMENTS FROM COMBUSTIBLE MATERIALS. SEE SECTION 23 51 01 FOR ADDITIONAL INFORMATION.

LOUVER SCHEDULE									
TAG	SERVICE	MANUF.	MODEL NO.	DIMENSIONS		MATERIAL	MOTORIZED DAMPER	REMARKS	
				WIDTH	HEIGHT				
LV-1	106 STORAGE	NAILOR	LE-23	16"	12"	ALUMINUM	YES	SEE NOTES	
LV-2	107 MECHANICAL	NAILOR	LE-23	28"	16"	ALUMINUM	YES	SEE NOTES	
LV-3	105 SCBA	NAILOR	LE-23	66"	16"	ALUMINUM	YES	SEE NOTES	
LV-4	HRV-1 EA	NAILOR	LE-23	16"	16"	ALUMINUM	YES	SEE NOTES	
LV-5	HRV-1 OA	NAILOR	LE-23	16"	16"	ALUMINUM	YES	SEE NOTES	
LV-6	100 APPARATUS BAY OA	NAILOR	LE-23	60"	60"	ALUMINUM	YES	SEE NOTES	
LV-7	215 DRESS UNIFORM	NAILOR	LE-23	16"	16"	ALUMINUM	YES	SEE NOTES	
LV-8	ERV-1 OA	NAILOR	LE-23	28"	24"	ALUMINUM	YES	SEE NOTES	
LV-8	MUA-1 OA	NAILOR	LE-23	36"	30"	ALUMINUM	YES	SEE NOTES	
LV-9	ERV-1 EA	NAILOR	LE-23	28"	24"	ALUMINUM	YES	SEE NOTES	

- NOTES:  
 1. ALL LOUVERS SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:  
 - TAMCO 9000 BF MOTORIZED DAMPER  
 - SHALL BE CLASS 1 AND HAVE AN AIR LEAKAGE RATE OF NOT GREATER THAN 4 CFM/SQFT OF DAMPER SURFACE AREA @ 1.0" W.C. AND SHALL BE LABELED BY AN APPROVED AGENCY WHEN TESTED IN ACCORDANCE WITH AMCA 500D FOR SUCH PURPOSE.  
 - ACTUATOR(S) SHALL BE FURNISHED BY MC, INSTALLED BY CONTROLS CONTRACTOR.  
 - INSULATED BOX CONSTRUCTION  
 - BIRD SCREEN  
 2. VERIFY EXACT DIMENSIONS WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS PRIOR TO ORDERING.  
 3. FINISH TO BE SELECTED BY ARCHITECT. FOR BIDDING PURPOSES, FIGURE PREMIUM COLOR.

DATE: 06/21/2023  
 DRAWN BY: AOS  
 SCALE: 1/8" = 1' - 0"  
 REVIEWED BY: TJH  
 PROJECT NO.: 20-2006  
 FILE:



NO.	DATE	REVISIONS
		DESCRIPTION

PORT EWEN FIRE DEPARTMENT, ULSTER, NEW YORK

MECHANICAL SCHEDULES

SHEET: M001

BID PLANS

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