1. MANUFACTURER PROVIDED DISCONNECT SWITCH.

PROVIDE WITH 115VAC MOTORIZED DAMPER WITH END SWITCH AND END SEALS.

PROVIDE WITH 208-230VAC MOTORIZED DAMPER WITH END SWITCH AND END SEALS. 4. FAN TO OPERATE BASED ON SIGNALS FROM INTERLOCKED TEMPERATURE SENSOR OR GAS DETECTIONS SYSTEM OR 30-MINUTE SPRING TIMER.

VENTILATION INDEX BASED ON 2020 NEW YORK STATE MECHANICAL CODE

FLOOR

AREA

(SF)

2650

16" x 10"

OCCUPANCY

CLASSIFICATION

GARAGE

EXHAUST

GRILLE

SERVED BY

GXF-SB-1

5. ELECTRICAL CONTRACTOR TO PROVIDE WITH HOA SWITCH

6. PROVIDE WITH DIAL FOR BALANCING ONLY ELECTRICAL CONTRACTOR TO PROVIDE TIME CLOCK AND SPRING TIMER

8. MANUFACTURER TO PROVIDE THERMOSTAT

9. VXF FOR INFORMATION ONLY. FAN TO BE RELOCATED FROM EXISTING FIREHOUSE BY OTHERS. VENDOR TO PROVIDE CONTROLS.

10. PROVIDE WITH GRAVITY BACKDRAFT DAMPER.

11. FAN TO RUN 24/7.

МОТО	ORIZE	D DAM	PERS										
	PE	RFORMANCE	/CONSTRUC	TION REQUIRE	MENTS			BASIS OF	DESIGN INFOR	RMATION			
EQMT. TAG	0514	EXT S. P.	FACE	FRAME	FAILURE	MNE	MODEL	ACTUATOR	ACTUATOR	ACTUATOR	ELECTRIC	CAL DATA	REMARKS
	CFM	(IN. W.C.)	VELOCITY (FPM)	THICKNESS	MODE	MNF	NO.	MNF	MODEL NO.	COUNT	VOLTAGE	POWER DRAW (W)	
MD-SB-1	3,000	0.116	1,000	16 GAUGE	CLOSED	GREENHECK	VCD-23	HONEYWELL	MS4104F1010	1	208/1	18	1,2,3
MD-SB-2	200	0.068	675	16 GAUGE	CLOSED	GREENHECK	VCD-23	HONEYWELL	MS4104F1010	1	115/1	18	1,2,4
MD-SB-3	1000	0.068	675	16 GAUGE	CLOSED	GREENHECK	VCD-23	HONEYWELL	MS4104F1010	1	115/1	18	1,2,3
MD-SB-4	1000	0.068	675	16 GAUGE	CLOSED	GREENHECK	VCD-23	HONEYWELL	MS4104F1010	1	115/1	18	1,2,3
MD-SB-5	1000	0.068	675	16 GAUGE	CLOSED	GREENHECK	VCD-23	HONEYWELL	MS4104F1010	1	115/1	18	1,2,3

OCCUPANCY LOAD NUMBER OF

(PERSONS/1000 SF) OCCUPANTS

RADIANT	HEATERS	3											
										BASIS OF DESIGN	INFORMATION		
FOURDMENT			FAN DA	ATA			HEATING DAT	'A				NOMINAL	
EQUIPMENT NO.	LOCATION	CONFIGURATION			TOTAL CAPACITY		NATURAL GA	S	MNF	MODEL NO.	NOMINAL DIMENSIONS	OPERATING	REMARKS
			CURRENT	VOLTS/ PHASE	(MBH)	INPUT CFH	MIN. PRESSURE (WC)	MAX. PRESSURE (WC)	IVIIVI	WIODEL NO.	L x W x H	WEIGHT (LBS.)	
GFRH-SB-1,2,3	SEE PLAN	CEILING HUNG	1.8A	120/1	80	100	5	14	REZNOR	VPSN80A	VARIES x 16 x 16	APPRX 60	1-6
NOTES.	5 FULL SHALL HAVE MAYIMUM 2 FLOOMS												

5. FLUE SHALL HAVE MAXIMUM 2 ELBOWS. 1. REMOTE WALL MOUNTED THERMOSTAT.

UNIT MOUNTED DISCONNECT SWITCH.

ELECTRONIC PROGRAM START UP WITH SPARK IGNITION. **OPERATION INDICATOR LIGHTS**

6. INTERLOCK WITH BAY DOORS. IF ONE DOOR IS OPEN, HEATERS

GREENHECK DC-5-4-3LV

SHALL TURN OFF UNTIL ALL DOORS ARE PROVEN CLOSED.

IIGH VOLUME	LOW SPEED F	ANS								
		PERFORMANCE REQUIREMENTS			BASIS O	F DESIGN I	NFORMATION			
FAN NO.	AREA SERVED	FAN/MOTOR ROM	MNF	MODEL NO	NOMINAL DIMENSIONS (DIA" x	WEIGHT	Е	LECTRICAL DATA		REMARKS
		FAN/MOTOR RPM	WINF	MODEL NO.	H")	(LBS.)	VOLTS / PHASE	MOTOR POWER	FAN POWER	
HVLS-SB-1	APPARATUS BAY	107	GREENHECK	DC-5-8-13LV	96 x 27	86	115V / 1	175W	68W	1-3
			·	·						

52 x 39

NOTES

HVLS-SB-2,3

1. MANUFACTURER PROVIDED WALL MOUNTED CONTROLLER, FS1.

APPARATUS BAY

PROVIDE SUPPLEMENTAL STEEL AS REQUIRED TO MOUNT FAN.

ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH

LOUVERS	3									
				PERFORMANCE	CONSTRUCTION	REQUIREMENTS			F DESIGN WATION	
EQUIPMENT NO.	LOCATION	SYSTEM SERVED	MAX AIR FLOW RATE (CFM)	MAX. PD (IN. W.C.)	FREE AREA (SQ. FT.)	OVERALL NOMINAL SIZE W X H	SERVICE	MNF	MODEL NO.	REMARKS
LV-SB-1	SEE PLAN	GXF-1	3000	0.02	4	48" X 24"	EXHAUST	GREENHECK	ESD-435	1-3
LV-SB-2	SEE PLAN	GXF-1	1000	0.02	2	24" X 12"	INTAKE	GREENHECK	ESD-435	1-3
LV-SB-3	SEE PLAN	GXF-1	1000	0.02	2	24" X 12"	INTAKE	GREENHECK	ESD-435	1-3
LV-SB-4	SEE PLAN	GXF-1	1000	0.02	2	24" X 12"	INTAKE	GREENHECK	ESD-435	1-3
LV-SB-5	SEE PLAN	VXF-1	TBD	0.02	4	48" X 24"	EXHAUST	GREENHECK	ESD-435	1-4

- 1. PROVIDE 12" SLEEVE 2. COORDINATE COLOR WITH ARCHITECT AND OWNER. PROVIDE COLOR SAMPLES
- 3. PROVIDE INTERNAL BIRD SCREEN
- 4. LOUVER FOR VEHICLE EXHAUST SHALL BE COORDINATED WITH VEHICLE EXHAUST CONTRACTOR. SIZE IS FOR REFERENCE ONLY.

115V / 1

MEZZANINE STO	ORAGE GXF-SB-1			50 N/A 43 5	N/A	N/A		.00	0.75	1.0	N/A 19	N/A	563 N/A	NATURAL VENTILATION		
	TS & OUTLE								<u> </u>	ENSITY	CALCS		1 11/1			
SYMBOL	BASIS OF DESIGN: MNF/ MODEL NO.	TYPE	FACE SIZE	IN) AIR FLOW RANGE (CFM)	NECK SIZE DIAMETER (IN.	NOTES	SYSTEM	Л	TIVE PIPE TH (FT.)		VE FURTHEST RUN (FT.)	TOTAL # OF ELBOWS	TOTAL REFR. (LBS)	ZONE SMALLEST SPACE, TOTAL AREA (SQFT.)	ZONE SMALLEST SPACE, TOTAL VOLUME (FT³)	REFRIGERANT DENSITY (LB/1000FT³)

RATE

0.75

EXHAUST | Ez EFFICIENCY |

FACTOR

(HEATING)

3. INTERLOCK WITH GXF-1. INTERLOCK WITH GXF-2.

5. INTERLOCK WITH VXF-1.

AREA BASED

OUTSIDE AIR

RATE (CFM/SF) (CFM/SF)

1. REFRIGERANT LINE LENGTHS, SIZES & CHARGES TO BE VERIFIED BY EQUIPMENT MANUFACTURER. 2. CONTRACTOR TO NOTIFY ENGINEER IF ADDITIONAL SYSTEM CHARGE IS REQUIRED.

CORRECTED | EXHAUST

(CFM)

1988

UNCORRECTED OA OA [HEATING] REQUIRED

(CFM)

N/A

REQUIRED (CFM)

GAS	DETECTIO	N SYST	ЕМ				
EQMT.		SYSTEM	BASIS OF DESIGN	NINFORMATION			
NO.	LOCATION	SERVED	MNF	MODEL NO.	NOMINAL DIMENSIONS L" x W" x H"	VOLTAGE / PHASE	REMARKS
GDS-SB-1	APPARATUS BAY	GXF-1	SIERRA MONITORING COMPANY	5100-04-IT	7.9"X5.7"X 3.9"	24	1-7

INCLUDE DIGITAL CONTROLLER IN NEMA 4 ENCLOSURE FOR WALL MOUNT.

LED DISPLAY FOR NO2 AND CO. INCLUDE NITROGEN DIOXIDE SENSORS AND CARBON MONOXIDE SENSORS.

PROVIDE CONFIGURABLE ALARM OUTPUTS WITH ISOLATION RELAYS FOR INTERLOCK WITH FANS AND FACP.

PROVIDE PANEL MOUNTED AUDIBLE ALARM AND SILENCING SWITCH PROVIDE ALARM HORN WITH STROBE.

PROVIDE STARTUP, TEST AND CALIBRATION REPORT

CO	ND	EN:	SIN	G U	NITS

COORDINATE ALL COLORS WITH ARCH.

TITUS 350RL

PROVIDE VOLUME DAMPERS FOR ALL INLETS AND OUTLETS.

TWO POSITION W/ SPRING RETURN.

PROVIDE WITH STANDARD SLEEVE.

ROOM NAME

APPARATUS BAY

EG-SB-A (CFM)

				PERFORMANCE/ CONSTRUCTION REQUIREMENTS						В	ASIS OF DESIGN	INFORMATION	N			
		INDOOR				REMOTE CONDENSING UNIT						NOMINAL	ELECTRICAL DATA		TA	
EQMT NO.	LOCATION	UNITS	0550		DEEDIGEDANIT	COOL	ING PERFORM	IANCE	***		NOMINAL DIMENSIONS	NOMINAL OPERATING				NOTES
		SERVED	SEER	EER	REFRIGERANT	TOTAL CAPACITY (MBH)	MIN OPER. TEMP. (°F)	MAX OPER. TEMP. (°F)	MNF	MODEL NO.	L x W x H (IN.)	WEIGHT (LBS.)	VOLTS/ PHASE	MCA	МОСР	
ACCU-SB-1	EXTERIOR MOUNTED TO BUILDING	AC-1	17	10.98	R410A	9	14	118	LG	LSU090HFV3	10 x 29 x 20	55	208/1	10	15	1-7

OCCUPANT BASED

OA RATE

(CFM/OCCUPANT)

1,2

- CONTRACTOR TO PROVIDE MOUNTING TO BUILDING.
- PROVIDE ALL REFRIGERANT PIPING SPECIALTIES AS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONTRACTOR TO PROVIDE DISCONNECT SWITCH FOR OUTDOOR UNIT.

- MANUFACTURER TO PROVIDE BUILT-IN BASE PAN HEATER
- MANUFACTURER TO PROVIDE BACNET CARD.
- CONDENSING UNIT SHALL POWER EVAPORATOR UNIT.

FLECTRIC LINIT HEATERS

ELECTRIC	S UNII HE	AIEKS											
										BASIS	OF DESIGN INFORM	MATION	
EQUIDMENT				FAN DATA		TOTAL	ELECTRIC	AIR [DATA				
EQUIPMENT NO.	LOCATION	CONFIGURATION	FLOW (CFM)	AMPS	VOLTS/ PHASE	TOTAL CAPACITY (MBH)	COIL CAPACITY (W)	ENT. DB TEMP. (DEG. F)	LVG. DB TEMP. (DEG. F)	MNF	MODEL NO.	NOMINAL DIMENSIONS L x W x H	REMARKS
WMH-SB-1	STORAGE AND BATHROOM	RECESSED CABINET	160	-	120	5.1	1500	55	108	STELPRO	AWF1501T	5 1/2" x 16 3/8" x 23 1/8"	1,2

MANUFACTURER TO PROVIDE UNIT MOUNTED THERMOSTAT. ELECTRICAL CONTRACTOR TO PROVIDE UNIT MOUNTED DISCONNECT SWITCH.

PROVIDE REFRIGERANT PIPING W/ INSULATION BETWEEN CONDENSER AS PER THE NEW YORK STATE ENERGY CODE.	

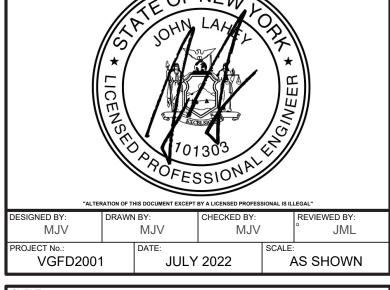
SPLIT EV	VAPORATING U	NITS																
						PERFORMANO	CE/ CONSTR	UCTION REQUIRE	MENTS				BAS	IS OF DESIGN IN	NFORMATION			
							S	UPPLY UNIT DATA	١					NOMINAL	NOMINAL	LIOUID CAS	CONDENSATE	
UNIT TAG	UNIT LOCATION	TYPE	SERVED BY	REFRIGERANT	DRY AIRFLOW (CFM) [HI-MED-LO]	EXTERNAL STATIC (IN. W.C.) [HI TO LO]	FAN POWER (A)	SOUND LEVEL LOW TO HIGH dB(A)	NOMINA L SIZE (MBH)	TOTAL COOLING CAPACITY (MBH)	HEATING CAPACITY AT 19F (MBH)	MANUF.	MODEL	NOMINAL DIMENSIONS L" x W" x H"	OPERATING WEIGHT (LBS.)		CONDENSATE CONNECTION (IN. ID)	
AC CD 4	OFFICE	WALL MOUNTED	ACCUL4	D440A	252/264/440	0.20	0.4	20/26/42	0	0.0	0.0	1.0	I CNIOCOLIEVA	22 1/ 6 1/ 42	20.0	4/4 2/0	1	

- DRAIN PAN LEVEL SENSOR MODEL SS610E. THE UNIT SHALL TURN OFF IF WATER IS SENSED.
- INSTALL ALL EQUIPMENT AND COMPONENTS ACCORDING TO MANUFACTURER'S INSTRUCTIONS. 4. POWERED BY PAIRED CONDENSER, PROVIDE DISCONNECT SWITCH MODEL TAZ-MS303 BETWEEN INDOOR AND OUTDOOR UNIT.

MANUFACTURER TO PROVIDE HARDWIRED, WALL MOUNTED, PROGRAMMABLE THERMOSTAT. THERMOSTAT SETPOINT TO BE SET TO 75°F (ADJUSTABLE BY END USER)

538 Broad Hollow Road, 4th Floor East Melville, NY 11747 631.756.8000 • www.h2m.com

MARK DATE DESCRIPTION			
	MARK	DATE	DESCRIPTION



VAILS GATE FIRE DISTRICT

New Storage Building (Phase I) New Fire Station (Phase II)



872 Blooming Grove Turnpike New Windsor, NY 12553

CONTRACT G GENERAL CONSTRUCTION

FINAL BID DOCUMENT

MECHANICAL SCHEDULE SHEET

M1 610.00