INDOOR FURNACE/COOLING COIL UNIT SCHEDULE

MARK	BASIS OF DESIGN			NOM. CFM	O.A. CFM	E.S.P. (IN WC)	HEATING		ELECTRICAL			NOTES
	MANUFACTURER	FURNACE MODEL	COOLING COIL MODEL				INPUT (MBH)	AFUE (%)	MCA	MOCP	V/Ø/Hz	
IFC-1	TRANE	S8X1B040M2	4TXCB003DS3	1,000	120	0.5	40.0	80.0	6.7	15	115/1/60	(1)(2)(3)(4)(5)(6)
IFC-2	TRANE	S8X1B060M4	4TXCB006DS3	1,600	210	0.5	60.0	80.0	13.1	15	115/1/60	(1)(2)(3)(4)(5)(6)
IFC-3	TRANE	S8X1B040M2	4TXCB003DS3	1,000	120	0.5	40.0	80.0	6.7	15	115/1/60	(1)(2)(3)(4)(5)(6)

(1) FIELD ROUTE CONDENSATE TO FLOOR DRAIN IN 201 MEZZANINE/ MECHANICAL
(2) FIELD ROUTE REFRIGERANT PIPING TO CORRESPONDING OCU U.N.O.
(3) MIN. MERV 8 FILTER
(4) DOWNFLOW CONFIGURATION
(5) SIDE RETURN AIR
(6) SEE AIR PURIFICATION DEVICE SCHEDULE

OUTDOOR CONDENSING UNIT SCHEDULE

MARK	BASIS OF DESIGN		COOLING (MBH)		REFRIG. O.D.		SEER MIN.	ELECTRICAL			NOTES
	MANUFACTURER	MODEL	TOTAL	SENSIBLE	LIQUID	SUCTION		MCA	MOCP	V/Ø/Hz	
OCU-1	TRANE	4TTR4030L1	29.6	22.5	3/8	3/4	14.0	17	25	208/1/60	
OCU-2	TRANE	4TTR4048L1	48.6	37.1	3/8	7/8	14.0	24	40	208/1/60	
OCU-3	TRANE	4TTR4030L1	29.6	22.5	3/8	3/4	14.0	17	25	208/1/60	

DUCTLESS AIR HANDLING UNIT SCHEDULE

MARK	BASIS OF DESIGN		NOM. CFM	O.A. CFM	COOLING (MBH)		HEATING (MBH)	ELECTRICAL			NOTES
	MANUFACTURER	MODEL			TOTAL	SENSIBLE		MCA	MOCP	V/Ø/Hz	
IHP-1	TRANE	NTYWST12A	400	0	12.0	8.4	-	1	(2)	208/1/60	(1)(2)(3)(4)(5)
IHP-2	TRANE	NTXWST15A	530	0	14.0	10.2	16.6	1	(2)	208/1/60	(1)(2)(3)(4)(5)(6)(7)

(1) PROVIDE WIRED CONTROLLER
(2) INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT
(3) FIELD ROUTE REFRIGERANT PIPING TO CORRESPONDING OHP U.N.O.
(4) ROUTE CONDENSATE DRAIN PIPING TO WALL DRAIN BOX IN 109 PPE
(5) MIN. MERV 8 FILTER
(6) PROVIDE BLUE DIAMOND 208V MINI-CONDENSATE PUMP
(7) SEE AIR PURIFICATION DEVICE SCHEDULE

DUCTLESS OUTDOOR HEAT PUMP SCHEDULE

MARK	BASIS OF DESIGN		COOLING (MBH)	HEATING (MBH)	REFRIG. O.D.		SEER MIN.	ELECTRICAL			NOTES
	MANUFACTURER	MODEL			LIQUID	SUCTION		MCA	MOCP	V/Ø/Hz	
OHP-1	TRANE	NTYSST12A	12.0	-	1/4	3/8	14.0	7	15	208/1/60	(1)
OHP-2	TRANE	NTXSST15A	14.0	16.6	1/4	1/2	14.0	10	15	208/1/60	(1)

(1) UNIT POWERS INDOOR UNIT(S)

EXHAUST FAN SCHEDULE

MARK	BASIS OF DESIGN		TYPE	E.S.P. (IN WC)	NOM. CFM	FRPM	HP	WATTS	SONES	ELECTRICAL V/Ø/Hz	NOTES
	MANUFACTURER	MODEL									
EF-1	GREENHECK	AER-E30C-310-VG	SIDEWALL	0.125	5,400	939	3/4	-	17.1	208/1/60	(3)(4)(7)(8)(9)(10)
EF-2	GREENHECK	SP-B90	CEILING	0.25	70	700	-	21	1.9	115/1/60	(1)(3)
EF-3	GREENHECK	SP-A390-VG	CEILING	0.25	150	762	-	17	2.4	115/1/60	(2)(3)(6)(10)
EF-4	GREENHECK	SP-B90	CEILING	0.25	70	700		21	1.9	115/1/60	(1)(3)
EF-5	GREENHECK	SP-B90	CEILING	0.25	70	700	-	21	1.9	115/1/60	(1)(3)
EF-6	GREENHECK	SP-A70	CEILING	0.25	50	850	-	13	0.6	115/1/60	(1)(3)
EF-7	FANTECH	DBF4XLT	INLINE	0.5	140	2,800	-	83	12.1	115/1/60	(5)

(1) INTERLOCK WITH LIGHTS
(2) CONTINUOUS OPERATION
(3) BACKDRAFT DAMPER
(4) CENTER IN LOUVER EL-1 OPENING (SEE ARCH)
(5) CONTROLLED BY PRESSURE SWITCH
(6) ALUMINUM GRILLE
(7) WALL HOUSING
(8) DISCONNECT SWITCH
(9) CONTROLLED BY LOCAL SWITCH
(10) EC MOTOR

LOUVER SCHEDULE

MARK	BASIS OF DESIGN		TYPE	NOM. CFM	LOUVER SIZE	MIN. FREE AREA (SQFT)	BOT. OF LOUVER ELEV. (FT. A.F.F.)	NOTES
	MANUFACTURER	MODEL						
IL-1	GREENHECK	ESD-635X	INTAKE	2,700	28x36	[illegible]	[illegible]	(1)(2)(3)(5)(6)
IL-2	GREENHECK	ESD-635X	INTAKE	2,700	28x36	[illegible]	[illegible]	(1)(2)(3)(5)(6)
IL-3	GREENHECK	ESD-635X	INTAKE	800	40x20	2.40	[illegible]'-0"	(1)(2)(3)(4)(5)
EL-1	GREENHECK	ESD-635X	EXHAUST	5,400	44x44	7.93	27'-4"	(1)(2)(3)(4)(5)
EL-2	GREENHECK	ESD-635X	EXHAUST	410	18x16	[illegible]	12'-0"	(1)(2)(3)(4)(5)

(1) BIRDSCREEN
(2) WELDED CONSTRUCTION
(3) FLANGED FRAME
(4) MANUAL BACKDRAFT DAMPER
(5) PREFINISH WITH BAKED ON "KYNAR" FINISH
(6) MOTORIZED DAMPER INTERLOCKED WITH EF-1

HIGH VOLUME LOW SPEED FAN SCHEDULE

MARK	BASIS OF DESIGN		FAN DIA. (FT)	FAN WEIGHT (LB)	MAX FAN SPEED (RPM)	FAN ELEVATION (FT A.F.F.)	QTY.	ELECTRICAL		NOTES
	MANUFACTURER	MODEL						MOTOR (W)	V/Ø/Hz	
HVLS-1	GREENHECK	[illegible]	[illegible]	[illegible]	130	(2)	1	500	208/3/60	(1)(3)

(1) DISCONNECT SWITCH
(2) MOUNT TO ROOF RIDGE WITH 5'-0" DROP LENGTH
(3) PROVIDE KEYPAD CONTROLLER

GAS RADIANT TUBE HEATER SCHEDULE

MARK	BASIS OF DESIGN		HEATING INPUT (MBH)	ELEVATION	QTY	ELECTRICAL		NOTES
	MANUFACTURER	MODEL				AMPS	V/Ø/Hz	
TH-1	SPACE-RAY	LTS60-20	60.0	17'-0"	4	2.6	115/1/60	(1)(2)(3)

(1) POWER DISCONNECT SWITCH
(2) 4"Ø VENT KIT
(3) RT SERIES THERMOSTAT (CONTROLS ALL TH-1)

ELECTRIC WALL HEATER SCHEDULE

MARK	BASIS OF DESIGN		HEATING		ELECTRICAL		QTY	NOTES
	MANUFACTURER	MODEL	BTU/HR	KW	AMPS	V/Ø/Hz		
WH-1	QMARK	CWH1151DSAF	5,120	1.5	12.5	115/1/60	1	(1)(2)(3)
WH-2	QMARK	CWH1151DSAF	2,560	0.75	6.25	115/1/60	1	(1)(2)(3)

(1) POWER DISCONNECT SWITCH
(2) CONTROLLED BY INTEGRAL TAMPER RESISTANT THERMOSTAT SE TO 50°F
(3) RECESSED MOUNTING

KITCHEN EXHAUST FAN SCHEDULE

MARK	BASIS OF DESIGN		TYPE	E.S.P. (IN WC)	NOM. CFM	FRPM	HP	SONES	ELECTRICAL V/Ø/Hz	NOTES
	MANUFACTURER	MODEL								
KEF-1	GREENHECK	CUE-101-VG	SIDEWALL	0.66	800	1,412	1/4	7.7	208/1/60	(1)(2)(3)(4)(5)

(1) INTERLOCK WITH KITCHEN HOOD, KH-1
(2) EC MOTOR
(3) SIDEWALL MOUNTING
(4) DISCONNECT SWITCH
(5) MOUNT BOTTOM OF FAN 12'-0" A.F.F.

KITCHEN SUPPLY FAN SCHEDULE

MARK	BASIS OF DESIGN		TYPE	E.S.P. (IN WC)	NOM. CFM	FRPM	HP	SONES	ELECTRICAL V/Ø/Hz	NOTES
	MANUFACTURER	MODEL								
KSF-1	GREENHECK	SQ-120-VG	INLINE	0.43	800	1,05[illegible]	1/2	[illegible]	208/1/60	(1)(2)(3)(4)

(1) INTERLOCK WITH KITCHEN HOOD, KH-1
(2) ALUMINUM MESH FILTER
(3) DISCONNECT SWITCH
(4) EC MOTOR

KITCHEN HOOD SCHEDULE

MARK	BASIS OF DESIGN		HOOD TYPE	EXHAUST HOOD				SUPPLY PLENUM				MATERIAL OF CONSTRUCTION	NOTES
	MANUFACTURER	MODEL		CFM	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	CFM	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)		
KH-1	GREENHECK	GHEW	TYPE [illegible]	800	48	39	24	800	48	14	10	430 SS	(1)(2)(3)(4)(5)(6)(7)

(1) NFS LABEL
(2) UL LABEL
(3) COMPLY WITH NFPA 96
(4) 120V CFL LIGHTS
(5) EXTERNAL SUPPLY AIR CURTAIN
(6) FURNISH WITH WET CHEMICAL FIRE SUPPRESSION SYSTEM, ANSUL R-102 OR EQUAL
(7) PROVIDE WITH TEMPERATURE INTERLOCK HOOD MOUNTED

ROOFTOP VENTILATOR SCHEDULE

MARK	BASIS OF DESIGN		TYPE	CFM	THROAT SIZE	THROAT AREA (SQFT)	QTY	NOTES
	MANUFACTURER	MODEL						
RTV-1	GREENHECK	GRSI-12	INTAKE	FREE	12"Ø	0.82	1	(1)(2)(3)

(1) BIRDSCREEN
(2) FLASHING FLANGE
(3) PAINT TO MATCH ROOF COLOR

AIR DISTRIBUTION DEVICE SCHEDULE

MARK	SIZE (INCHES)		MOUNTING			THROW	MATERIAL		DEVICE CONN.			BASIS OF DESIGN		NOTES
	FACE	NECK	SIDEWALL	CEILING	DUCT		STEEL	ALUM.	1	2	3	MANUF.	MODEL NO.	
SD-1	12x12	6"Ø		X		4	X		X			TITUS	TMS	(1)(2)
SD-2	24x24	6"Ø		X		4	X		X			TITUS	TMS	(1)(2)
SD-3	24x24	8"Ø		X		4	X		X			TITUS	TMS	(1)(2)
SD-4	24x24	10"Ø		X		4	X		X			TITUS	TMS	(1)(2)
RG-1	24x24	6x6		X		-	X				X	TITUS	PAR	(1)(2)
RG-2	24x24	8x8		X		-	X				X	TITUS	PAR	(1)(2)
RG-3	24x24	10x10		X		-	X				X	TITUS	PAR	(1)(2)
RG-4	24x24	22x22		X		-	X				X	TITUS	PAR	(3)
TG-1	24x16	24x16	X			-	X				X	TITUS	350RL	

LEGEND
1. SYMBOL KEY - FIRST LETTER: S-SUPPLY, R-RETURN, E-EXHAUST, T-TRANSFER AND D-DOOR.
SECOND LETTER: D-DIFFUSER, R-REGISTER AND G-GRILLE.

2. CONNECTIONS - 1. ROUND DUCT TO ROUND NECK.
(DEVICE CONN. COLUMN) 2. ROUND DUCT TO RECTANGULAR NECK.
3. RECTANGULAR DUCT TO RECTANGULAR NECK.

3. FIELD PAINT ALL SUPPLIES AND RETURNS TO MATCH CEILING AND/OR WHITE FINISH OTHERWISE.

4. 1, 2, 3 AND 4-WAY AND DOUBLE DEFLECTION (DD) AIR DEVICES ARE INDICATED IN "THROW" COLUMN.

(1) DUCT RUNOUT SIZE SAME AS NECK CONNECTION SIZE, U.N.O.
(2) PROVIDE WITH R-6 FOIL-BACKED INSULATION
(3) SEE DETAIL 10/M-301

AIR PURIFICATION DEVICE SCHEDULE

UNIT SERVED	BASIS OF DESIGN		NOM. CFM	O.A. CFM	QUANTITY	MOUNTING LOCATION	ELECTRICAL		NOTES
	MANUFACTURER	MODEL					VOLTAGE	WATTS	
IFC-1	GLOBAL PLASMA SOLUTIONS	GPS-FC24-AC	1,000	120	1	IFC-1	24VAC	8.0	(1)(2)(3)(4)
IFC-2	GLOBAL PLASMA SOLUTIONS	GPS-FC24-AC	1,600	210	1	IFC-2	24VAC	8.0	(1)(2)(3)(4)
IFC-3	GLOBAL PLASMA SOLUTIONS	GPS-FC24-AC	1,000	120	1	IFC-3	24VAC	8.0	(1)(2)(3)(4)
IHP-2	GLOBAL PLASMA SOLUTIONS	GPS-FC24-AC	530	0	1	IHP-2	24VAC	8.0	(1)(2)(3)(4)

(1) MOUNT WHERE INDICATED ON SCHEDULE
(2) MUST PASS UL-867-2007 OZONE CHAMBER TEST BY UL OR ETL
(3) PROVIDE WITH INTEGRAL BAS ALARM CONTACTS
(4) PROVIDE WITH INTEGRAL SELF-CLEANING SYSTEM

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PROJECT NAME: NORTH AUGUSTA FIRE STATION 1 RELOCATION

PROJECT LOCATION: 311 W. MARTINTOWN ROAD, NORTH AUGUSTA, SC 29841

REV	DATE	BY	DESCRIPTION
0	10/08/20	CVW	ISSUED FOR BID

PROJECT NO. 3057.2003
DRAWN BY : MNB
CHECKED BY : CVW
DATE: 10/08/2020
SHEET TITLE : **HVAC SCHEDULES**
SCALE: AS NOTED
DRAWING NO. **M-201** REV. **0**

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