AIR DEVICE SCHEDULE

GENERAL NOTES

AIR DEVICES BASED ON PRICE.
EQUAL BY TITUS, TUTTLE & BAILEY

MAXIMUM SOUND LEVEL AT NC-25 AT INDICATED AIR FLOW.

BALANCING DAMPER GENERALLY PROVIDED IN DUCT, NOT AT DEVICE.

STANDARD WHITE BAKED ACRYLIC FINISH UNLESS NOTED OTHERWISE.

DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE NOTED OR INDICATED ON DRAWINGS.

VERIFY CEILING TYPE AND PROVIDE APPROPRIATE MOUNTING FRAME WHERE REQUIRED.

TAG	DESCRIPTION	MODEL NO.	MATERIAL	ACCESSORIES	NOTES
S1	2'X2' SQUARE PLAQUE DIFFUSER ROUND DUCT CONNECTION	SPD	STEEL	INSULATED BACKPAN (STYLE 31)	
S2	12"X12"SQUARE PLAQUE DIFFUSER ROUND DUCT CONNECTION	SPD	STEEL	INSULATED BACKPAN (STYLE 31)	1
S3	LOUVERED SUPPLY GRILLE DOUBLE DEFLECTION W/ LONG FRONT BLADES 3/4" BLADE SPACING	520	STEEL		3
S4	LINEAR SLOT TYPE WITH PLENUM (2) 1.5" SLOTS 48" LENGTH ROUND DUCT CONNECTION	TBD2	STEEL	EXTERNAL INSULATED PLENUM	2
S5	HIGH CAPACITY DRUM LOUVER DOUBLE ADJUSTABLE VANES	HCD2	STEEL	SPIRAL DUCT FRAME DAMPER	3
R1	RETURN GRILLE DEVICE SIZE - 24" X 24" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM		
R2	RETURN GRILLE DEVICE SIZE - 24" X 12" 45° HORIZONTAL BLADES 1/2" SPACING BLADES PARALLEL TO LONG DIMENSION	635	ALUMINUM		
R3	LOUVERED FACE SIDE WALL RETURN GRILLE DEVICE SIZE - INDICATED ON PLAN MOUNTING HEIGHT - INDICATED ON PLAN 45° HORIZONTAL BLADES 1/2" SPACING HORIZONTAL BLADES	635	ALUMINUM		3
E1	EXHAUST GRILLE DEVICE SIZE - 24" X 24" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM		
E2	RETURN GRILLE DEVICE SIZE - 24" X 12" 45° HORIZONTAL BLADES 1/2" SPACING BLADES PARALLEL TO LONG DIMENSION	635	ALUMINUM		
E3	EXHAUST GRILLE DEVICE SIZE - 12" X 12" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM		1
L1	LOUVER DEVICE SIZE - AS NOTED ON PLAN 6" DRAINABLE BLADES, 35 DEG BLADES MIN. 55% FREE AREA	GREENHECK #635	ALUMINUM	BLACK BIRDSCREEN	3

NOTES:

1. DEVICE TO BE SURFACE MOUNTED IN CENTER OF ACOUSTIC CEILING PAD FOR LAY-IN APPLICATION.
2. H.C TO FIELD INSTALL INSULATION.
3. COLOR TO BE SELECTED BY ARCHITECT FROM STANDARD COLOR CHART.

VARIABLE FREQUENCY DRIVES SCHEDULE

GENERAL NOTES

ALL VFD'S SHALL BE FROM SAME MANUFACTURER
DRIVES FURNISHED BY H.C., INSTALLED BY E.C., COMMUNICATIONS/CONTROLS BY T.C.
VFD'S FULL LOAD AMPS SHALL BE EQUAL TO OR GREATER THAN THE SUM OF THE INDIVIDUAL MOTOR FULL LOAD AMPS

TAG	SERVICE	NEMA ENCLOSURE	ELECTRICAL		NOTES
			MOTOR HP	V/PH	
CWP-1	CHILLED WATER PRIMARY PUMP	TYPE 1	7.5	460/3	ALL
HWP-3	HEATING HOT WATER SECONDARY PUMP	TYPE 1	3	460/3	ALL
HWP-4	HEATING HOT WATER SECONDARY PUMP	TYPE 1	3	460/3	ALL

1

NOTES:

1. PAD LOCKABLE INPUT DISCONNECT SWITCH.
2. PROVIDE VFD WITH BACNET COMMUNICATIONS CARD.

FAN & ROOF VENTILATOR SCHEDULE

3400

BASIS OF DESIGN - GREENHECK
REFER TO SPECIFICATIONS FOR OTHER MANUFACTURERS

VFD DRIVEN MOTORS SHALL BE PROVIDED WITH SHAFT GROUNDING RINGS, VFD DUTY MOTORS.

REFER TO INSTALLATION DETAILS.

TAG	SERVICE	AREA	DESCRIPTION	MODEL NUMBER & SIZE GREENHECK	ROOF OPENING (L x W)	CAPACITY		ELECTRICAL			ELECTRIC				DRIVE TYPE		MOUNTING					APPLICATION				ACCESSORIES & OPTIONS								CONTROLS						
						AIRFLOW (CFM)	E.S.P. (IN. W.C.)	MOTOR RPM	MOTOR HP	V/PH	DISCONNECT WITH FAN	DISCONNECT BY E.C.	VFD	ECM	DIRECT	BELT	ROOF CURB	BASE/FLOOR	SUSPENDED, INLINE	WALL	CEILING	UL 762 GREASE RATED	UL 864 SMOKE CONTROL	HIGH TEMP (ABOVE 200 °F)	EXPLOSION PROOF	VIBRATION ISOLATION	INSULATION HOUSING	THERMAL CONTROL	SLOPNG ROOF CURB	HINGED ROOF CURB	CURB EXTENSION	POWDER COAT FINISH	EPOXY INTERIOR FINISH	DDC CONNECTION	MANUALON/OFF SWITCH	DIAL SPEED CONTROLLER	HOA CONTROLLER	MOTORIZED DAMPER	GRAVITY DAMPER	NOTES
EF-1	EXHAUST	AREA L1 - GENERAL EXHAUST	ROOF MOUNTED DOWNBLAST CENTRIFUGAL	#G-120-VG	14.5"x14.5"	1375	0.75	1499	1/2	120/1	●			●	●		●												●					●		●	●	●		1,2
EF-2	EXHAUST	AREA L3 1ST FLR GENERAL	ROOF MOUNTED DOWNBLAST CENTRIFUGAL	#G-070-VG	10.5"x10.5"	150	0.25	1274	1/15	120/1	●			●	●		●												●					●		●	●	●		1,2
EF-3	EXHAUST	AREA L2 2ND FLR DIRTY SUPPLIES	ROOF MOUNTED DOWNBLAST CENTRIFUGAL	#G-070-VG	10.5"x10.5"	250	0.25	1494	1/15	120/1	●			●	●		●												●					●		●	●	●		1,2
EF-4	EXHAUST	AREA A NITROUS OXIDE	ROOF MOUNTED DOWNBLAST CENTRIFUGAL	#G-090-VG	12.5"x12.5"	500	0.25	1343	1/10	120/1	●			●	●		●												●					●	●	●	●	●		1,2
RF-1	RETURN/ TRANSFER	AREA L2 2ND FLR SERVER RM	INLINE SUSPENDED CENTRIFUGAL	#SQ-90-VG	--	400	0.25	1317	1/10	120/1	●			●	●			●																●		●	●	●		
RH-1	VENT	AREA L3 1ST FLR PHARMACY	ROOF MOUNTED GRAVITY RELIEF/VENT HOOD	#FGR-20x40	22.5"x42.5"	4200	0.1	--	--	--							●												●										●	

NOTES:

1. DIAL SPEED CONTROLLER MOUNTED ON FAN FOR BALANCING.
2. MOTORIZED DAMPER PROVIDED AND INSTALLED BY H.C., E.C. TO PROVIDE POWER TO DAMPER ACTUATOR.

WATER SOURCE HEAT PUMP SCHEDULE

GENERAL NOTES

BASIS OF DESIGN: CARRIER
EQUAL BY: TRANE, DAIKIN
UNIT ORIENTATION - VERIFY AIRFLOW CONFIGURATION WITH ARCHITECTURAL FLOOR PLANS BEFORE ORDERING. HORIZONTAL VS. VERTICAL IS NOTED IN SCHEDULE.

UNIT TAG	MODEL #	LOCATION	AIRFLOW (CFM)	E.S.P. (" W.C.)	FILTER	FLUID		COOLING PERFOMANCE				HEATING PERFORMANCE				OUTDOOR AIRFLOW (CFM)	DIMENSION			WEIGHT (LBS)	ELECTRIC			NOTES
						FLUID TYPE	FLOW RATE (GPM)	TOTAL (MBH)	EAT (DB/WB)	EWT (°F)	LWT (°F)	TOTAL (MBH)	EAT (DB)	EWT (°F)	LWT (°F)		LENGTH	WIDTH	HEIGHT		V/PH	MCA	MOCP	
HP-1	EXISTING	MEZZANINE	640	-	-	WATER	2.8	16	-	80	90	14	--	50	40	-	-	-	-	-	208/3	-	-	5
HP-2	EXISTING	MEZZANINE	1060	-	-	WATER	4.5	24	-	80	90	23	-	50	40	-	-	-	-	-	208/3	-	-	5
HP-3	EXISTING	MEZZANINE	1200	-	-	WATER	4.5	27	-	80	90	22	-	50	40	-	-	-	-	-	208/3	-	-	5
HP-4	EXISTING	MEZZANINE	810	-	-	WATER	5.5	13	-	80	90	12	-	50	40	-	-	-	-	-	208/3	-	-	5
HP-16	EXISTING	CEILING	1125	-	-	WATER	4.5	31	-	80	90	30	-	50	40	-	-	-	-	-	208/3	-	-	5
HP-17	EXISTING	CEILING	1010	-	-	WATER	4.5	22	-	80	90	22	-	50	40	-	-	-	-	-	208/3	-	-	5
HP-24	#50PSH007_WPEAACY	CEILING	400	0.3	MERV 8	WATER	2.0	6.8	80/67	85	95	6.9	70	50	40	30	43"	22"	17"	185	208/3	4.1	15	1-4
HP-25	#50PSH007_WPEAACY	CEILING	375	0.3	MERV 8	WATER	2.0	6.8	80/67	85	95	6.9	70	50	40	30	43"	22"	17"	185	208/3	4.1	15	1-4
HP-26	#50PSH030_WPEAACY	CEILING	1000	0.5	MERV 8	WATER	7.0	27	80/67	85	95	25	70	50	40	120	68"	30"	22"	360	208/3	13.7	20	1-4
HP-27	#50PSV024_WPEAACY	MEZZANINE	775	0.55	MERV 8	WATER	6.0	24.5	80/67	85	95	23.7	70	50	40	125	26"	22"	48"	240	208/3	11.7	15	1-4
HP-28	#50PSV024_WPEAACY	MEZZANINE	755	0.6	MERV 8	WATER	6.0	24.5	80/67	85	95	23.7	70	50	40	125	26"	22"	48"	240	208/3	11.7	15	1-4
HP-29	#50PSV030_WPEAACY	MEZZANINE	1150	0.5	MERV 8	WATER	7.0	27	80/67	85	95	25	70	50	40	150	30"	24"	48"	290	208/3	13.7	20	1-4

NOTES:

1. CONDENSATE PUMP - TO BE PROVIDED WITH UNIT. WIRE TO ENABLE UPON OPERATION OF UNIT.
2. CONTROLS - WSHP OPEN MULTI-PROTOCOL CONTROLLER WITH BACNET CARD (FOR EXISTING DDC INTEGRATION) & REMOTE MOUNTED TEMPERATURE/HUMIDITY THERMOSTAT TO BE PROVIDED WITH UNIT.
3. ELECTRICAL - DISCONNECT SWITCH PROVIDED WITH UNIT.
4. UNIT OPTIONS - HOT GAS REHEAT, SOUND DAMPENING PACKAGE (WHERE AVAILABLE).
5. EXISITNG UNIT - FLOW RATE AND CAPACITY DATA FOR INFORMATIONAL PURPOSES AND BALANCING.

UNIT HEATER SCHEDULE

GENERAL NOTES

BASIS OF DESIGN:
HYDRONIC - RITTLING, TRANE, DAIKIN
ELECTRIC - QMARK, MARLEY
CAPACITY CRITERIA:
EWT - 160 DEG. F
LWT - 130 DEG. F
MAX WPD - 5 FT. HD.

UNIT NO.	DESCRIPTION	MANUFACTURER / MODEL	MOUNTING	CAPACITY (MBH)	WTD (DEG. F.)	AIR FLOW (CFM)	WATER FLOW (GPM)	DIMENSIONS			ELECTRIC		NOTES
								L (IN.)	D (IN.)	H (IN.)	V/PH	AMPS	
CUH-1	HYDRONIC CABINET UNIT HEATER	RITTLING #RFRWI-350-10	RECESSED WALL MOUNTED BOTTOM OUTLET, TOP INLET	55	30	940	3.7	76	10	24	120/1		1,2,4
CUH-2	HYDRONIC CABINET UNIT HEATER	RITTLING #RFRC-430-04	CONCEALED DUCTED HORIZONTAL AIRFLOW	29	30	490	2.0	50	24	10	120/1		1,2
EUH-1	ELECTRIC CABINET UNIT HEATER	QMARK #AWH4404F	SEMI-RECESSED WALL-MOUNTED BOTTOM OUTLET, TOP INLET	(3 KW)	--	--	--	16	5	20	208/1	14.4	1,2,5
EUH-2	ELECTRIC PROPELLER UNIT HEATER	QMARK #MUH03-81	CEILING HUNG	(3 KW)	--	350	--	14	8	16	208/1	14.5	2,3,5
UH-1	HYDRONIC PROPELLER UNIT HEATER	RITTLING #RH-86	HORIZONTAL AIRFLOW	36	30	1340	2.4	20	12	19	120/1		2

NOTES:

1. PROVIDE 1" MERV 8 THROWAWAY FILTER.
2. DISCONNECT TO BE PROVIDED WITH UNIT.
3. PROVIDE UNIT WITH REMOTE-MOUNTED LOW VOLTAGE THERMOSTAT.
4. COORDINATE LINTEL LOCATION WITH G.C.
5. PROVIDE UNIT-MOUNTED THERMOSTAT.

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REGISTERED PROFESSIONAL ENGINEER

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EXPIRATION DATE 12/21/2023

FACILITY RENOVATION
FAMILY HEALTH SERVICES OF DARKE COUNTY
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ISSUE

NO.	DATE	DESCRIPTION
	JULY 19, 2023	ISSUE FOR PERMIT & CONSTRUCTION
1	JULY 31, 2023	ADDENDUM 1

DATE	07/19/23
JOB NO.	3853.03
DRAWN	DRH
CHECKED	JDZ

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TITLE
EQUIPMENT & DEVICE SCHEDULES

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