MECHANICAL GENERAL NOTES:

- THESE DRAWINGS ARE DIAGRAMMATIC. ALL OFFSETS, FITTINGS, TRANSITIONS AND ACCESSORIES ARE NOT SHOWN. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL ITEMS REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM. DO NOT SCALE DRAWINGS FOR INSTALLATION.
- ALL WORK SHALL BE PERFORMED IN A FIRST CLASS WORKMANLIKE MANNER BY LICENSED CONTRACTORS.

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- THE CONTRACTOR SHALL OBTAIN AT HIS EXPENSE ALL NECESSARY FEES PERMITS, AND TESTS.
- CORRECTION OF DEFECTS TO THIS WORK SHALL BE MADE PROMPTLY WITHOUT CHARGE TO THE OWNER. REPAIR AND REPLACEMENT FOR DAMAGE CAUSED BY THIS CONTRACTOR SHALL BE MADE PROMPTLY WITHOUT CHARGE TO THE OWNER. ALL WORK SHALL CONFORM TO ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES. NO CONTRACTOR SHALL BID UNLESS FAMILIAR WITH THESE CODES.

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- ALL WORK OF THIS TRADE SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID ANY INTERFERENCES THAT MAY DELAY PROGRESS OF CONSTRUCTION.
- THE CONTRACTOR SHALL INCLUDE THE WORK OF ALL REQUIRED SUBCONTRACTORS, SUCH AS ELECTRICAL, INSULATING, TEST & BALANCE, ETC. AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND ACCESSORIES TO BE READLY ACCESSIBLE FOR SERVICING, TESTING, BALANCING, AND REPLACEMENT. EQUIPMENT SHALL BEAR A U.L. OR OTHER RECOGNIZED LABEL, NAMEPLATES, WIRING DIAGRAMS, AND ENERGY RATINGS AS APPLICABLE. THE CONTRACTOR SHALL PROVIDE A WRITTEN GUARANTEE AGAINST DEFECTS IN ALL MATERIALS AND WORKMANSHIP FOR ONE YEAR FROM ACCEPTANCE, WITH FOUR ADDITIONAL YEARS OF WARRANTY ON COMPRESSORS.

10.

PROVIDE ALL CONTROLS, STARTERS, CONTROL WIRING, DISCONNECTS, AND OTHER ELECTRICAL EQUIPMENT AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. THE CONTRACTOR SHALL PROVIDE THREE COPIES OF SUBMITTAL DATA, SHOP DRAWINGS, AND AT COMPLETION OF THE PROJECT TWO SETS OF OPERATION AND MAINTENANCE MANUALS FOR ALL PROJECT ITEMS.

12.

- THE HVAC CONTRACTOR IS RESPONSIBLE FOR MAINTAINING, ON SITE, A DETAILED AS—BUILT PLAN SHOWING ACTUAL INSTALLATIONS. THE CONTRACTOR IS TO PROVIDE A NEATLY DRAWN COMPREHENSIVE AS—BUILT SET OF PLANS UPON COMPLETION, WHICH ARE SUITABLE FOR SUBMISSION TO THE BUILDING DEPARTMENT AND TO THE OWNER.
- PRIOR TO ACCEPTANCE BY THE OWNER THE SYSTEMS SHALL BE TESTED AND BALANCED BY THE CONTRACTOR. PROVIDE A WRITTEN REPORT. SUPPLY AND INSTALL DUCT MOUNTED SMOKE DETECTORS AS REQUIRED.
- ALL GRILLES TO BE TITUS OR METALLAIRE UNLESS OTHERWISE NOTED, SIZES AS SHOWN ON PLANS, ALUMINUM CONSTRUCTION.

COORDINATE LOCATION OF CEILING DIFFUSERS, GRILLES AND REGISTERS IN THE FIELD WITH LIGHTS AND ARCHITECTURAL ELEMENTS.

- ALL DUCT WORK SHALL BE BUILT AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS AND LOCAL BUILDING CODES. ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS.
- FLEXIBLE DUCT, WHERE SHOWN, SHALL BE U.L. CLASS ALL EXHAUST AIR DUCT SHALL BE GALVANIZED SHEET METAL CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS. ALL OUTSIDE AIR DUCTWORK SHALL BE SHEETMETAL WITH EXTERIOR R-6 INSULATION. PROVIDE BLANKET TYPE INSULATION IN CONCEALED SPACES, AND BOARD TYPE IN EXPOSED AREAS.

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LOW PRESSURE SUPPLY AND RETURN RECTANGULAR DUCTWORK IS RIGID DUCTBOARD, 1 IN. THICK, R—4.2 INSULATION.

23.

- PROVIDE ELBOW TURNING VANES IN ALL RECTANGULAR DUCTS WHERE TURNS ARE GREATER THAN 45 DEGREES.
- PROVIDE BACKDRAFT DAMPERS FOR ALL EXHAUST FANS.
 VERIFY ALL THERMOSTAT LOCATIONS WITH THE LANDLORD.
- CONDENSATE DRAIN PIPING SHALL BE ABOVE GRADE COPPER DRAIN, WASTE AND VENT FITINGS. INSULATE ALL CONDENSATE PIPING W/3/4" IMCOA IMCOLOCK PIPE INSULATION.

<u>GENERAL</u> DEMOLITION NOTES

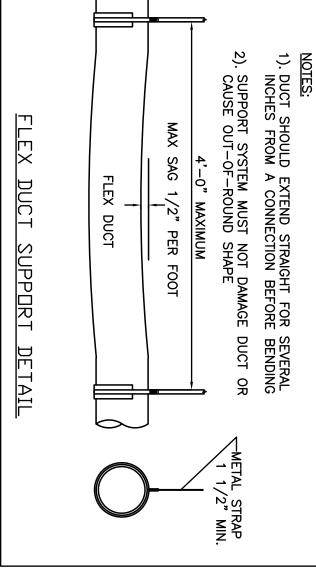
- UNLESS OTHERWISE NOTED, ALL EQUIPMENT AND DUCTWORK IN THE PROJECT AREA WHICH IS NOT INDICATED TO REMAIN, IS TO BE REMOVED. THE CONTRACTOR SHALL INVESTIGATE THE PROJECT AREA PRIOR TO BID TO DETERMINE ALL REQUIRED DEMOLITION.
- EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE TAKEN FROM ORIGINAL DRAWINGS AND FIELD INVESTIGATION. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO BID. FIELD CONDITIONS SHALL GOVERN.

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- DEMOLITION WORK IS NOT SPECIFICALLY IDENTIFIED ON THESE PLANS, AND MAY BE DESCRIBED ON THE ARCHITECTS PLANS. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED DEMOLITION WHETHER SHOWN ON THE PLANS OR NOT.
- ALL MECHANICAL SYSTEMS SERVING OTHER SPACES OR FLOORS, THAT RUN THROUGH THE PROJECT AREA SHALL REMAIN ACTIVE DURING CONSTRUCTION, SO AS NOT TO CAUSE ANY DISRUPTION TO THESE OTHER SPACES.
- ALL ITEMS REMOVED UNDER THIS PROJECT SHALL BE DISPOSED OF OR TURNED OVER TO THE OWNER AT THE OWNER'S DISCRETION.
- PROPERLY REMOVE AND DISPOSE OF ALL HVAC DUCTWORK AND AIR DISTRIBUTION DEVICES WHICH ARE TO BE REMOVED. CONSULT WITH OWNER AND OBTAIN THE OWNER'S APPROVAL PRIOR TO DISPOSAL OF REMOVED MATERIAL.

6.

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL PIPING AND DUCTS, NEW OR EXISTING, WITHIN THE PROJECT AREA, ARE PROPERLY SUPPORTED.
- ALL OCCUPIED SPACES ARE TO REMAIN OPERATIONAL DURING BUSINESS HOURS THROUGHOUT THE DEMOLITION AND CONSTRUCTION PERIOD. COORDINATE ALL WORK AS DESCRIBED IN THE ARCHITECTS DOCUMENTS.



										_		- 3	1 1/2" MIN.			
NOTES	ROOF OPENING	SONES	WEIGHT (LBS)	FAN R.P.M.	MOTOR R.P.M.	DRIVE	VOLT-PH-HZ	HP	S.P.	CFM	MODEL NO.	MANUFACTURER	SERVICE	TYPE	MARK	FAN SCHEDULE
107	1	2.0	24	900	1	D	120-1-60	48 WATTS	0.1	200	SP-A200	GREENHECK	TELCO, BREAK	CEILING CAB.	EF #1,2	EDULE

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2. PROVIDE EF-2 WITH WALL MOUNTED TOGGLE SWITCH FOR CONTROL.	1. PROVIDE EF-1 WITH LINE VOLTAGE THERMOSTAT, WALL MOUNTED, FOR CONTROL. SET AT 80°F.	NOTES	NOTES	ROOF OPENING	SONES	WEIGHT (LBS)	FAN R.P.M.	MOTOR R.P.M.	DRIVE	VOLT-PH-HZ	HP	S.P.	CFM	MODEL NO.	MANUFACTURER	SERVICE	TYPE	MARK	300
WALL MOUNTED CONTROL.	LINE VOLTAGE OUNTED, FOR O'F.		1,2,3	_	2.0	24	900	ı	D	120-1-60	48 WATTS	0.1	200	SP-A200	GREENHECK	TELCO, BREAK	CEILING CAB.	EF #1,2	SCHEBOLL

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	- FROM A	3. FAN OUT	2. PROVIDE TOGGLE	1. PROVIDE THERMOS CONTROL	/ NOTES	NOTES	ROOF OPENING	SONES	WEIGHT (LBS)	FAN R.P.M.	MOTOR R.P.M.	DRIVE	VOLT-PH-HZ	7
,	NY REIORN AIR GE	FAN OUTLET IS TO BE DIRECTED AWAY	PROVIDE EF-2 WITH WALL MOUNTED TOGGLE SWITCH FOR CONTROL.	PROVIDE EF-1 WITH LINE VOLTAGE THERMOSTAT, WALL MOUNTED, FOR CONTROL. SET AT 80°F.			ING		s)		M		Z	
	KILLES.	RECTED AWAY	MOUNTED ROL.	VOLTAGE ED, FOR		1,2,3	ı	2.0	24	900	ı	D	120-1-60	10 10
PIU-2-1		MARK				PROVIDE	PROVIDE	PROVIDE		R _A			ဂ	
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PROVIDE VOLUME DAMPERS INTEGRAL TO GRILLES AND DIFFUS PROVIDE SAMPLE WITH OFF—WHITE FINISH TO ARCHITECT FOR PROVIDE ROUND FLEXIBLE DUCT RUN—OUT SIZED TO MATCH SPROVIDE PLENUM BOX ABOVE SUPPLY AND RETURN AIR GRILL

SERS WHERE LOCATED ABOVE INACCESSIBLE CEILINGS, OR AS SPECAPPROVAL.
S/A DIFFUSER NECK UNLESS NOTED OTHERWISE.
LES AS REQUIRED FOR DUCT CONNECTIONS. MINIMUM HEIGHT 1/2

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TRANSFER

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	0	т.	S/1000 SQ.FT.	OCCUPANTS/	- •	PROVIDE TURNING VANES	PROVIDE TO	X I		
	0.06		T. REQUIRED	CFM/SQ.FT.				X		
2,	3,400		EET OF AREA	SQUARE FEET				ı		
CONFE	CORRIDOR		1.1	AREA TYPE		DIMENSION		= 2 × DUC		
SND	CALCULATIONS		TSIDE AIR	BUTS)	<u>†</u>	
				<u>.</u>	INDICATED,	SYSTEM AS	REMAIN, RE-BALANCE	UNIT TO	6. EXISTING	
	TERLOCKIN(ACTORS, IN	MERCURY CONTACTORS, INTERLOCKING	CONTROLS, ME		ER, WITH COMF D AND LABELE	-STAGE HEATE 4, U.L. LISTED	PROVIDE FACTORY SINGLE-STAGE HEATER, WITH COMPLETE FUSED DISCONNECT SWITCH, U.L. LISTED AND LABELED.	5. PROVIDE FUSED D	
DUIT, POW TERMINA VIDED AS WORK AN	RING & CONDUIT, POW CONTROL OF TERMINA TO BE PROVIDED AS SCOPE OF WORK AN	CONTROL WIRING & CALLATION AND CONTROL NT SYSTEM IS TO BE FIELD VERIFY SCOPE (AND INSTALL ALL CONTROL'S, CONTROL WIRING & CONDUIT, POW CESSARY FOR COMPLETE INSTALLATION AND CONTROL OF TERMINA EXISTING BUILDING MANAGEMENT SYSTEM IS TO BE PROVIDED AS NY FOR EACH TERMINAL BOX. FIELD VERIFY SCOPE OF WORK AN OMPANY PRIOR TO BID.	ALL CONTRI COMPLETE ILDING MANA TERMINAL B TO BID.	INSTALL A	CONTRACTOR SHALL PROVIDE AND INSTALL JIT, AND ALL OTHER ITEMS NECESSARY FOR MMING MODIFICATIONS OF THE EXISTING BUI BUILDING MANAGEMENT COMPANY FOR EACH THE BUILDING MANAGEMENT COMPANY PRIOR	CTOR SHALL FALL OTHER IDDIFICATIONS MANAGEMENT	ONING CONDU PROGRA THE WITH	4. AIR CONDITI WIRING AND SOFTWARE F DIRECTED BY COORDINATE	
			JR PLAN. OTHERWISE.	SS SHOWN	AS SHOW	SUPPLY DUCT SIZE AS SHOWN ON FLOOR PLAN. MATCH VAV BOX INLET UNLESS SHOWN OTHERWISE	= ==	TRANSITION FROM INLET SIZED PROVIDE SUPPLY DUCT SIZED	3. TRANSITI PROVIDE	
DNIT	MATCH EXISTING	CAPABILITY. M	OVERRIDE CAP		SENSOR/THERMOSTAT WITH		JM TEMPERATL	CARRIER CCN ROOM TEMPERATURE AND MATERIALS.	2. PROVIDE METHODS	
STEM	EMENT SY	BUILDING MANAGEMENT SYSTEM	EXISTING BUIL	V. HIIM	COMPATIBLE V	NTROLLER WITH DDO	CARRIER CCN TOR COMPATIB	FIELD MOUNTED CARRIER CCN COI ELECTRIC ACTUATOR COMPATIBLE	1. PROVIDE PROVIDE	
								E NOTES	SCHEDULE	
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<u> </u>	2	1/0	400	200	600	8"ø	45M	CARRIER	PIU-2-3	

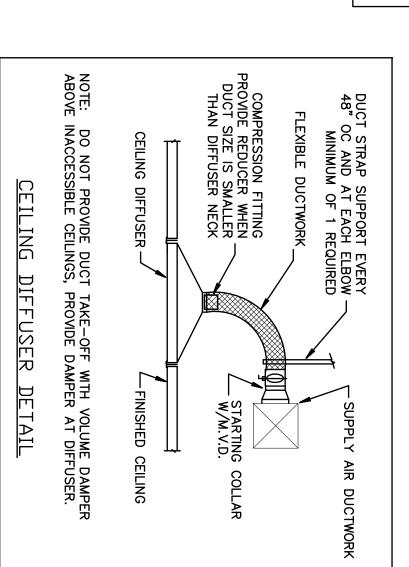
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R DUCT DETAIL	NEAREST WALL OR OTHER CONTINUOUS OBSTRUCTION		– D –			*		WHERE SHOWN ON PLAN	PROVIDE TURNING VANES	X		2 X DUCT MINIMUM DIMENSION	
סווסן טוסטעם טוססטסן באבסא		ABOVE PER	TOTAL DESIGN OA INTAKE - CFM: EXISTING OA PROVIDED BY RTU-1 AND RTU-2:	TOTAL UNCORRECTED CFM REQUIREMENT: VENTILATION EFFICIENCY (0.31 OA FRACTION):	PRIMARY OA FRACTION	CFM REQUIRED	CFM/PERSON REQUIRED	TOTAL OCCUPANTS	OCCUPANTS/1000 SQ.FT.	CFM/SQ.FT. REQUIRED	SQUARE FEET OF AREA	AREA TYPE	DUTSIDE AIR CALCU
		_	CFM: TU-1 AND F	EQUIREMENT: 1 OA FRACT	0.12	204	0	0	0	0.06	3,400	CORRIDOR	\subseteq
		ASHRAE 62.1, 2007	रा∪−2:	ON):	0.7	71		11	G	0.0	2,30	CONFERE	LATIONS



Gilman & A MECHANICAL & 129 N. FEDERAL Lake Worth, FL (561) 582-0210 RONALD D. GILM	ELECTR . HIGHW . 33460 Fax (56	ICAL ENC AY SU C.A.# 1) 582-821	GINEERS ITE 202 009078 2
	8/18	C	DRAWN

HVAC DETAILS

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REVISIONS

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1450 CENTREPARK 1450 CENTREPARK DR #220 WEST PALM BEACH, FL

PROJECT NUMBER 14510

ZND UNS

FLOOR

birse design inc.

5300 woodland lakes drive palm beach gardens, fl 33418 phone 561-249-4001 fax 772-409-8684 AA26001615

