

HEAT PUMP SPLIT SYSTEM SCHEDULE																											
AIR HANDLING UNIT															CONDENSING UNIT — AIR COOLED												
SPECIFICATIONS										ELECTRICAL							COMPRESOR		FAN		UNIT WIRING						
MARK	TYPE	COOLING CAP.	HEATING CAP.	CFM	OA	ESP	FAN #	FAN HP	AUX. HEAT KW	VOLT.	Ø	# CIRCUITS	MCA	MOCP	MODEL	MARK	SEER/EER	VOLT.	Ø	#	RLA (EA)	#	HP (EA)	FLA (EA)	MCA	OVER CURRENT	MODEL
AHU-2	CONVERTIBLE AIR HANDLER	47,100	46,500	1600	200	—	1	3/4	10.8/ 14.4	208/ 230	1	2	51/60 22/25	58/60 25/25	TRANE 4TEM4A48	AC-1	14	208/ 230	1	1	19.6	1	1/5	1.1	26	45	TRANE 41WR4048G1
NOTES: 1) MIN. SEER SHALL BE ASHRAE 90.1 OR FBC COMPLIANT																											
ACCESSORIES: HARDWIRED REMOTE WALL MOUNTED THERMOSTATS, ANTI-SHORT CYCLE TIME, SEA COAST PROTECTION, 4" FILTER SECTION (2" FILTER), VERIFY REFRIGERANT REQUIREMENTS IF R-32 REQ'D OR SIMILAR — PROVIDE SUITABLE MODEL EQUIP, OSA DAMPER CLOSES WHEN UNIT OFF																											
EQUALS: YORK, CARRIER, RHEEM																											

EXHAUST FAN SCHEDULE												
MARK	SERVICE	CFM	SP	TYPE	OPENING	OUTLET	INTERLOCKED	ACCES.	MOTOR HP	VOLT	Ø	MODEL
EF-1	BATHROOM	50	0.1"	CEILING	13-¼" x 10-¾"	6"ø	OCC SENSOR	1,2,3,4	FRAC	115	1	GREENHECK SP-A50
EF-2	BATHROOM	50	0.1"	CEILING	13-¼" x 10-¾"	6"ø	OCC SENSOR	1,2,3,4	FRAC	115	1	GREENHECK SP-A50
EF-3	BATHROOM	50	0.1"	CEILING	13-¼" x 10-¾"	6"ø	OCC SENSOR	1,2,3,4	FRAC	115	1	GREENHECK SP-A50
EF-4	BATHROOM	70	0.1"	CEILING	13-¼" x 10-¾"	6"ø	OCC SENSOR	1,2,3,4	FRAC	115	1	GREENHECK SP-A70
EF-5	BATHROOM	70	0.1"	CEILING	13-¼" x 10-¾"	6"ø	OCC SENSOR	1,2,3,4	FRAC	115	1	GREENHECK SP-A70
EF-6	GRINDER ROOM	500	0.3"	WALL PROPELLER	20.5X20.5	20.38	WALL SWITCH	1,2,4,5	¾	115	1	GREENHECK AER-2--VG
EF-7,8	STORAGE AREA HEAT AND FUME	5000	0.65"	WALL PROPELLER	38.5X38.5	—	WALL SWITCH	1,2,4,5,6	1	208	1	GREENHECK SBE-3H36-10
ACCESSORIES: 1) BACKDRAFT DAMPER 2) DISCONNECT 3) CEILING GRILLE 4) SPEED CONTROL 5)WALL SLEEVE 6) DAMPER AND 120V MOTOR												
EQUALS: ACME, PENN, COOK, CARNES NOTE: EF-7,8 FOR COMPLIANCE IF STORED VEHICLES EXCEED FUELING LIMITS — AFTER BID OWNER MAY PRECLUDE USE IF IN COMPLIANCE WITH FUELING REQUIREMENTS												

HIGH VOLUME LOW SPEED FAN SCHEDULE										
NO.	SERVICE	CFM	SP	HP	VOLTAGE	ROOM SERVED	TYPE	INTERLOCKED	ACCESS.	GREENHECK FAN MODEL
HVLS-1.2	AREA VENT	29,000	—	1/4	115V	WORK BAYS	CEILING PROPELLER	DDC, VFD SPEED CTRL	1,2,3	BASE 6-12'
ACCESSORIES: 1)DISCONNECT 2)INTERNAL OVERLOAD PROTECTION 3) VFD WITH CONTROLLER 4) HANG KIT										
EQUALS: BIG ASS										

HVAC GENERAL NOTES
1. REFRIGERANT LINES FROM OUTDOOR CONDENSING UNITS SHALL BE EXTENDED FROM UNIT THRU WALL TO INDOOR UNITS. REFRIGERANT LINES SHALL BE SIZED AS PER MANUFACTURER'S RECOMMENDATIONS.
2. RECT. DUCT DIMENSIONS ARE METAL-TO-METAL SIZES AND INCLUDE AN ALLOWANCE FOR THE 1" DUCT LINER.
3. CENTER GRILLES, DIFFUSERS, & REGISTERS IN LAY-IN CEILING TILES.
4. ROUND DUCT DIMENSIONS ARE METAL-TO-METAL SIZES AND SHALL BE EXTERNALLY WRAPPED WITH 2" INSULATION.
5. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL CONCRETE CONDENSING UNIT PADS.
6. 24V DAMPER OPERATOR TO OPEN WHEN FAN OPERATES, CLOSE WHEN FAN STOPS.

HVAC LEGEND	
	RECTANGULAR DUCT WITH 2" DUCT WRAP
	RECTANGULAR DUCT WITH 1" LINER
	ROUND DUCT WITH 2" DUCT WRAP
	ROUND DUCT WITH 2" DUCT WRAP
	FLEX DUCT
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN/EXHAUST DUCT UP
	RETURN/EXHAUST DUCT DOWN
	SQUARE ELBOW WITH TURNING VANES - RECT. DUCT
	ROUND ELBOW - 5 PIECE 90, 3 PIECE 45
	ROUND ELBOW (12" OR LESS) - 5 PIECE 90, 3 PIECE 45
	MANUAL VOLUME DAMPER
	MOTORIZED VOLUME DAMPER
	CEILING DIFFUSER (FLOW DIRECTION INDICATED)
	RETURN AIR GRILLE
	THERMOSTAT (CONTROLLER LOCATION)
	THERMOSTAT (BULB LOCATION)
	STATIC PRESSURE SENSOR
	EQUIPMENT TAG
	DIFFUSER/GRILLE TAG
	NOT IN CONTRACT (NO WORK)
	CUBIC FEET PER MINUTE
	CUBIC FEET PER MINUTE
	ROUND DUCT
	THERMOSTAT



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EAGLE SPRINGS GOLF COURSE
MAINTENANCE BUILDING
WALTON COUNTY, FORT WALTON, FLA

NOTES, SCHEDULES, ABBREVIATIONS

6/28/2023



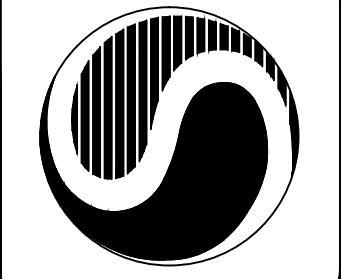
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DATE:	6/5/2023
DRAWN BY:	LES
DESIGNED BY:	LES
CHECKED BY:	LES

SHEET NUMBER

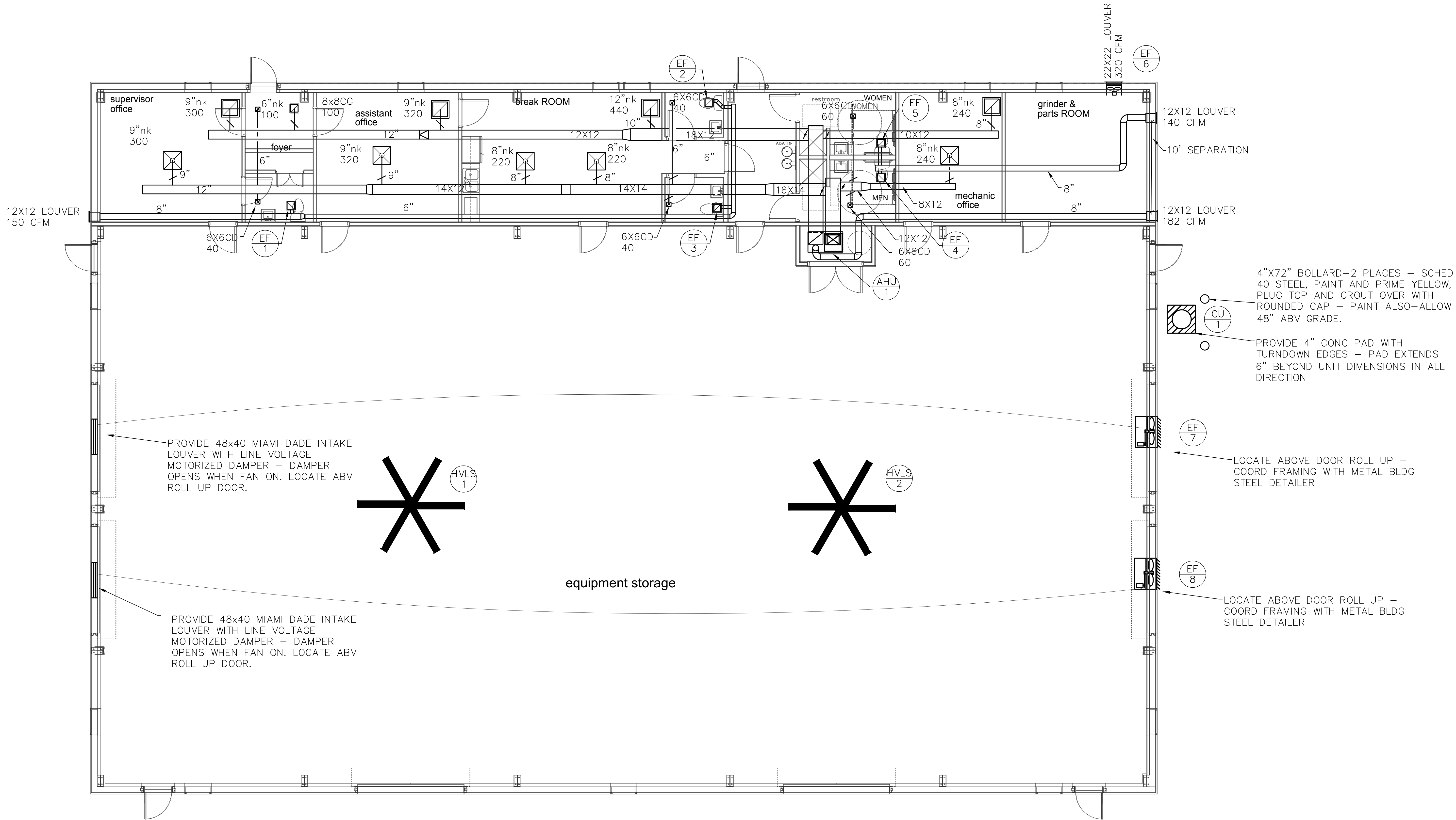
M001

SHEET COUNT

1 OF 4



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PROVIDE 48x40 MIAMI DADE INTAKE LOUVER WITH LINE VOLTAGE MOTORIZED DAMPER - DAMPER OPENS WHEN FAN ON. LOCATE ABV ROLL UP DOOR.

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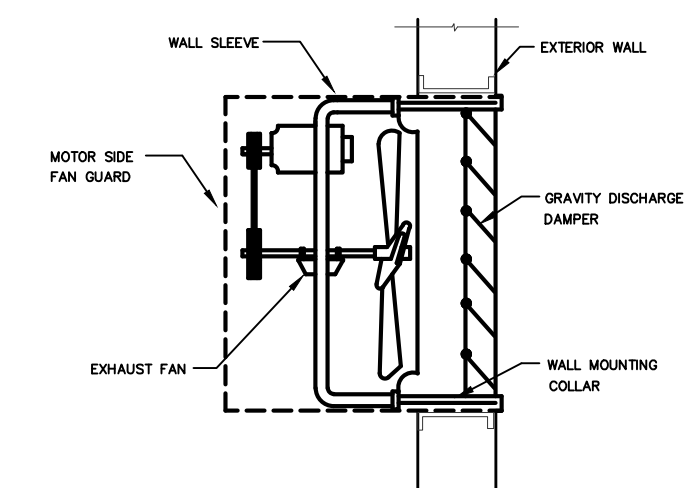
4"x72" BOLLARD-2 PLACES - SCHED 40 STEEL, PAINT AND PRIME YELLOW, PLUG TOP AND GROUT OVER WITH ROUNDED CAP - PAINT ALSO-ALLOW 48" ABV GRADE.

PROVIDE 4" CONC PAD WITH TURNDOWN EDGES - PAD EXTENDS 6" BEYOND UNIT DIMENSIONS IN ALL DIRECTION

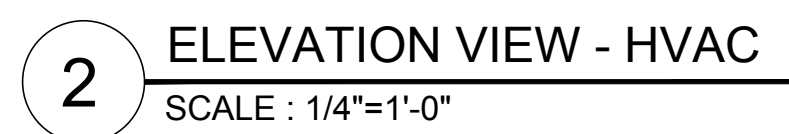
LOCATE ABOVE DOOR ROLL UP - COORD FRAMING WITH METAL BLDG STEEL DETAILER

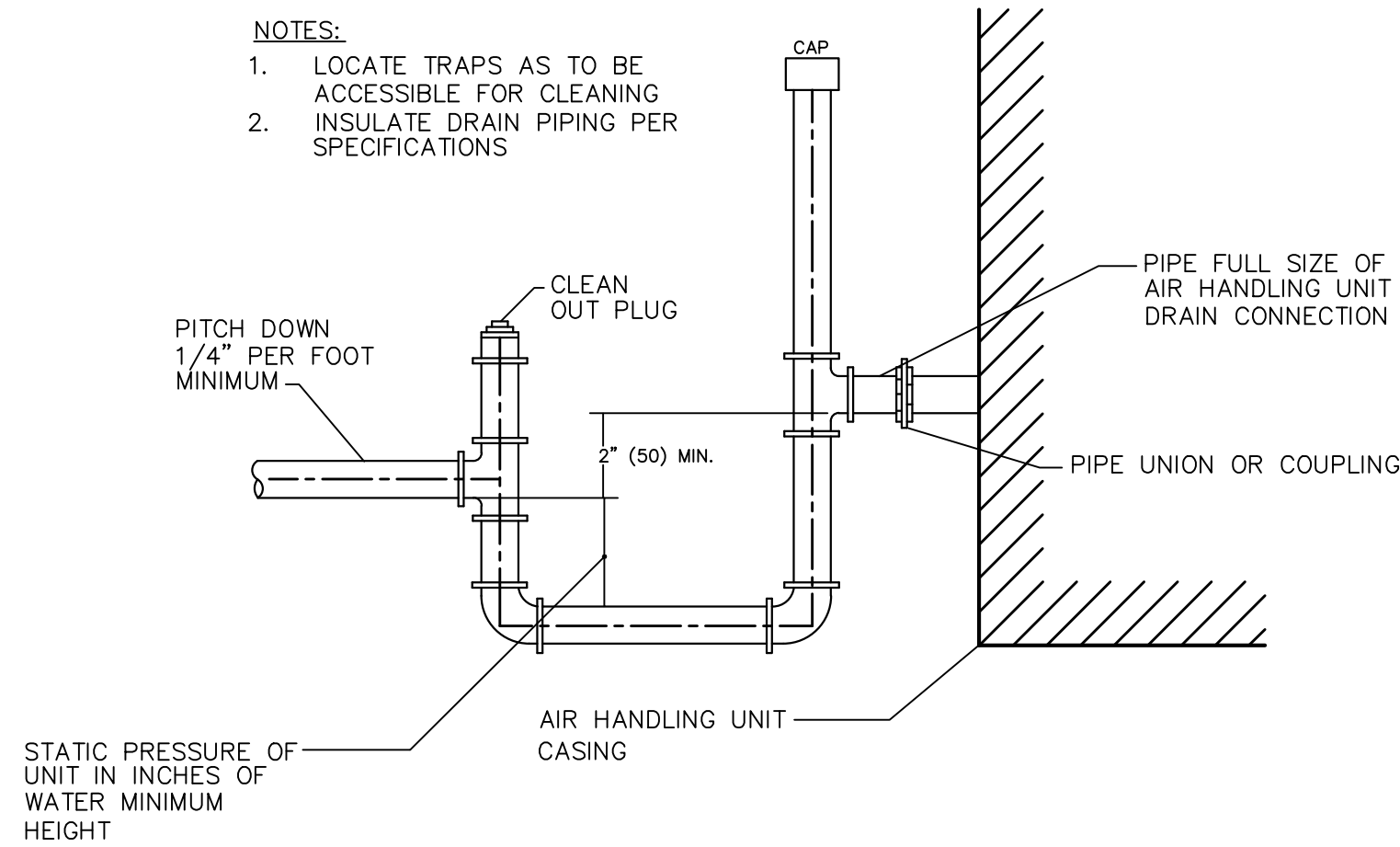
LOCATE ABOVE DOOR ROLL UP - COORD FRAMING WITH METAL BLDG STEEL DETAILER

1 HVAC PLAN
SCALE : 3/16" = 1'-0"

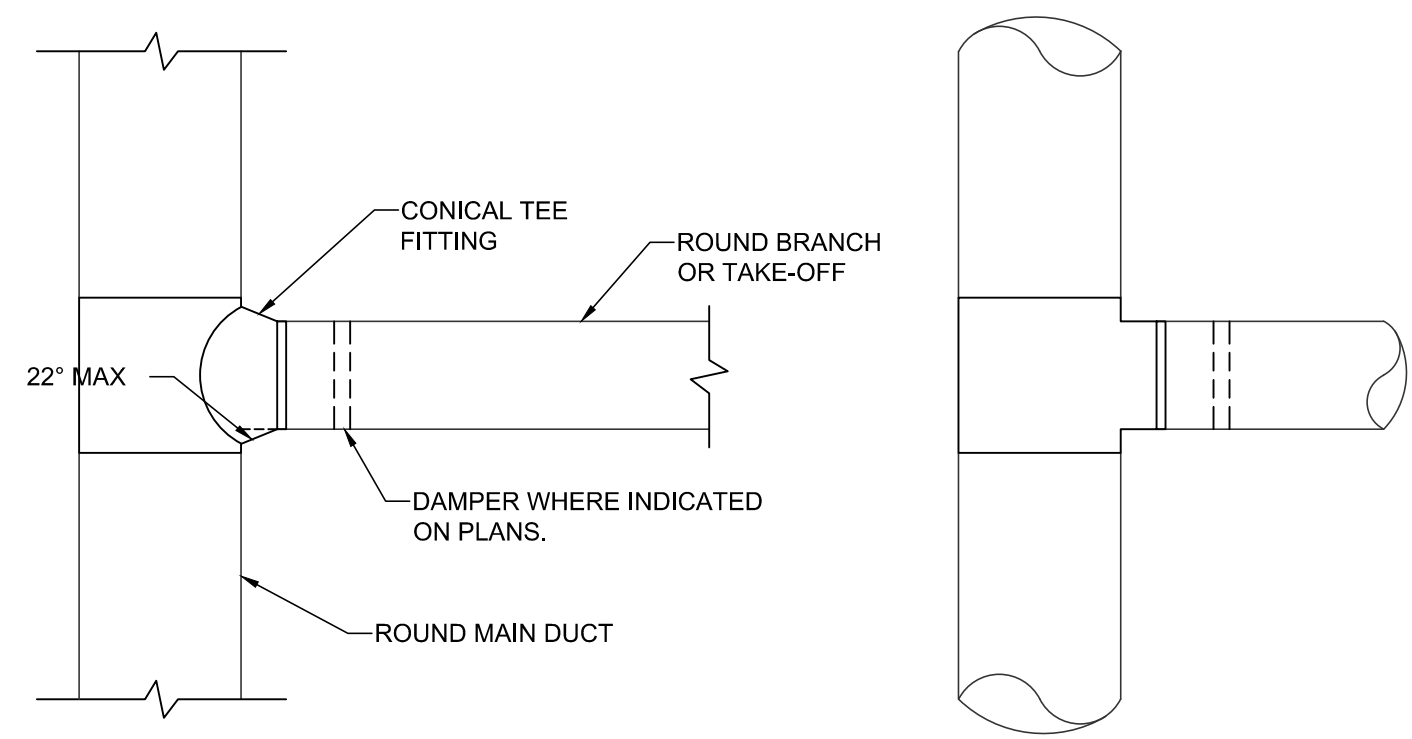


4 EF-7,8 INSTALLATION SCHEMATIC

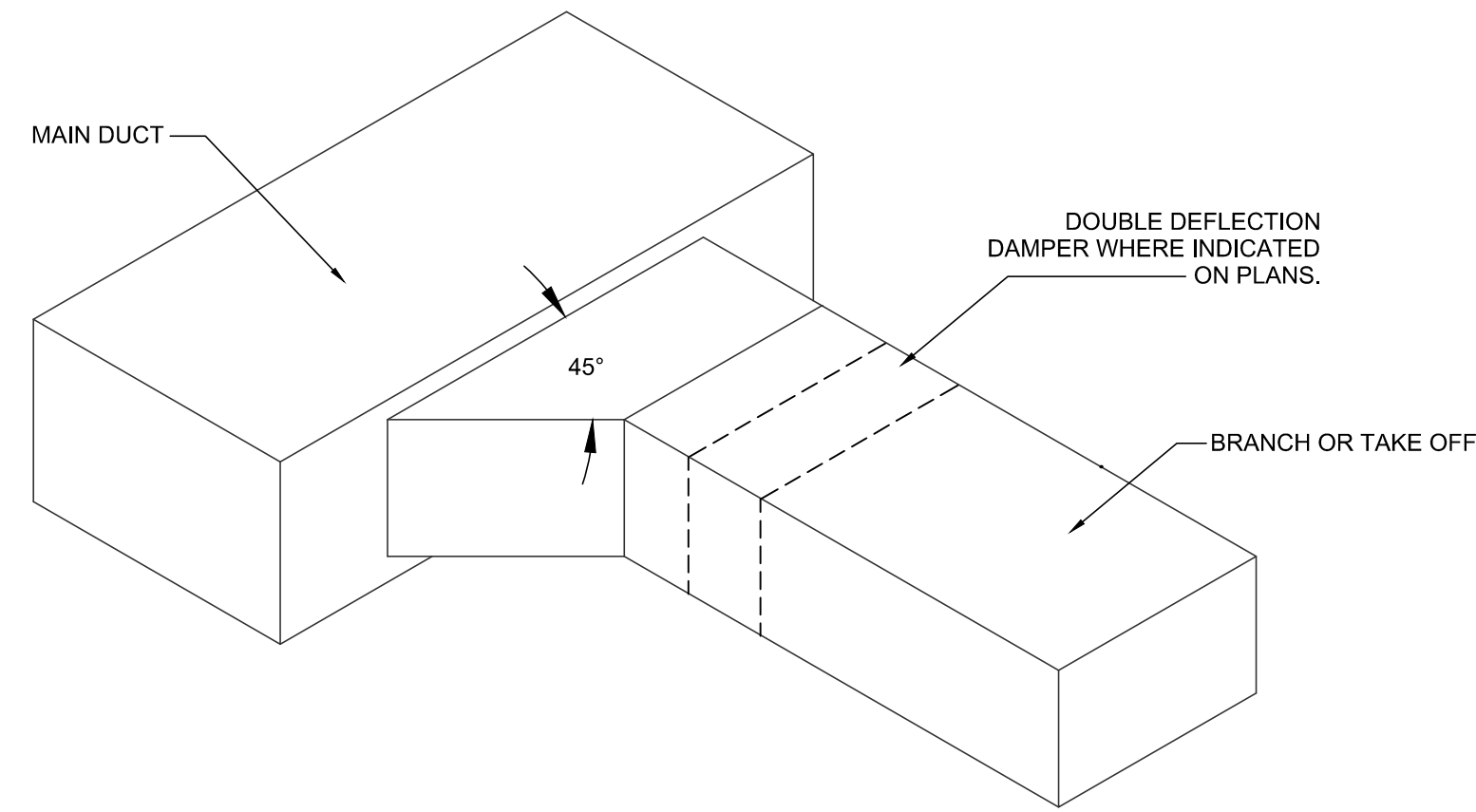




1 CONDENSATE TRAP SCHEMATIC
SCALE : N.T.S.



2 ROUND DUCT TAP SCHEMATIC - PLAN VIEW
SCALE : N.T.S.



3 RECTANGULAR DUCT TAP SCHEMATIC - ISOMETRIC VIEW
SCALE : N.T.S.

Ventilation Sizing Summary for BLOCK LOAD

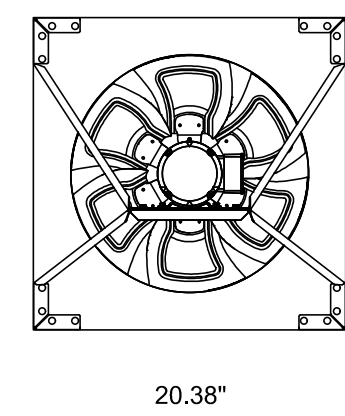
1. Summary

Ventilation Sizing Method ASHRAE Std 62.1-2013
Design Condition Heating operation
Occupant Diversity (D) 1.000
Uncorrected Outdoor Air Intake (Vou) 182 CFM
System Ventilation Efficiency (Ev) 0.831
Outdoor Air Intake (Vot) 218 CFM

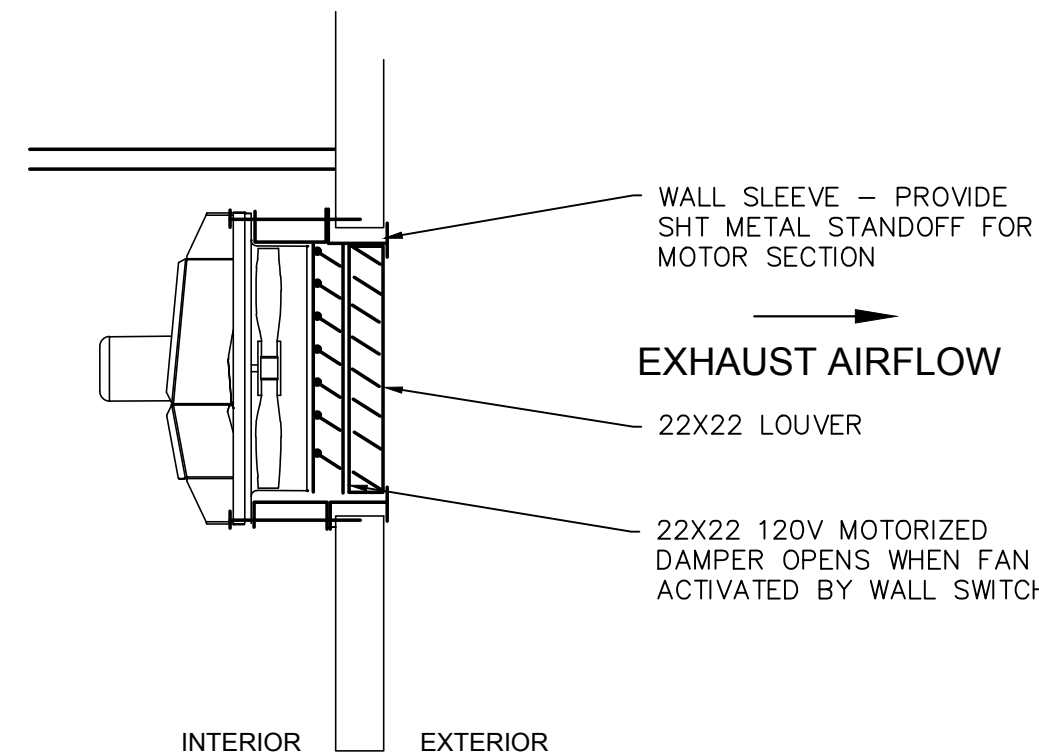
2. Space Ventilation Analysis

Zone Name / Space Name	Mult.	Supply Air (CFM) (Vpz)	Space Floor Area (ft²) (Az)	Area Outdoor Air Rate (CFM/ft²) (Ra)	Time Averaged Occupancy (Occupants) (Pz)	People Outdoor Air Rate (CFM/person) (Rp)	Air Distribution Effectiveness (Ez)	Space Outdoor Air (CFM) (Voz)	Breathing Zone Outdoor Air (CFM) (Vbz)	Space Ventilation Efficiency (Evz)
Zone 1										
SUPERVISOR	1	316	118.0	0.06	1.0	5.00	0.8	15	12	1.043
ASSISTANT	1	315	239.0	0.06	1.0	5.00	0.8	24	19	1.014
BREAK ROOM	1	467	336.0	0.12	5.0	5.00	0.8	82	65	0.916
FOYER	1	39	52.0	0.06	1.0	5.00	0.8	10	8	0.831
GRINDER & PARTS	1	355	236.0	0.06	2.0	5.00	0.8	30	24	1.005
MECHANIC OFFICE	1	289	175.0	0.06	2.0	5.00	0.8	26	21	1.002
MENS	1	85	78.0	0.06	1.0	5.00	0.8	12	10	0.947
TOILET LOBBY	1	92	117.0	0.06	1.0	5.00	0.8	15	12	0.928
WOMEN	1	50	88.0	0.06	1.0	5.00	0.8	13	10	0.834
Totals (incl. Space Multipliers)		2008							182	0.831

DRAWING VIEWED FROM INTERIOR



WALL OPENING 20.53 SQ.
MOTOR IS ACCESSIBLE FROM INTERIOR OF BUILDING



6 EF-6 INSTALLATION SCHEMATIC
SCALE : N.T.S.