

**HVAC LAYOUT PLAN** SCALE: 1/4" = 1'-0"

# CAS.FIRED FURNACE FOUIDMENT SCHEDULE

		AREA(S)	AIR	FLOW (C	CFM)			5	UPPLY	FAN SEC	ION		COOLIN	G SECTION	N HEA	TING DE	SIGN (°F)	HEATING F	PERFORMANCE				ELECTRICAL	_ DATA	UNIT	INSTALLED	
TAG MFG	MODEL		SUPPLY	RETURN	OA	TSP E	:SP	HP B	IP RF	M FAN TY	PE DISCH	RGE MODULATION	UNIT TAG	LOCATIO	ON EAT	LAT	TEMP RISE	MBH INPUT	мвн оитрит	EFF (%)	FUEL TYPE	CONNECTION (WC)	VOLTAGE-PH-HZ	MCA MOCP		WEIGHT (LBS)	REMARKS
F-3 LENNOX	ML193UH090P48C	ADDITION	1600	1360	240	N/A 0	.40	0.5 N	/A -	- DIRECT	DR UPFI	ow –	CU-1	GROUN	ND 70	127.9	57.9	88.0	83.0	93.0	N. GAS	1/2" (3.5–10")	120V-1-60	11.5 15.0	EX MECH 114	218	1, 2, 3

OUTSIDE AIR SHALL BE INTRODUCED THROUGH UNIT RETURN AIR.
UNIT TO BE SUPPLIED WITH MATCHING CASED COIL.
CONDENSATE OPEN SITE DRAIN BY PC. MC TO RUN CONDENSATE PIPING FROM EVAPORATOR COIL TO DRAIN.

## AIR COOLED CONDENSING UNIT EQUIPMENT SCHEDULE

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			AREA(S)	REFRIGE	RANT/LIN	IE SIZES		COMP	RESSOR			COOLIN	IG DESI	IGN (°F)	١	COOLIN	G PERFORMAN	E	ELECTRI	CAL DA	TA	UNIT	INSTALLED	
T.	AG MFG	MODEL	SERVÈÓ	TYPE	GAS (0.D.)	LIQUID (o.b.;	RLA LR	A FAN FL	A FAN HP	FAN DIA	EADB	EAWB	LADB	LAWB	ODB	MBH NOMINAI	. MBH SENSIBI	E SEER	VOLTAGE-PH-H	Z MCA	МОСР	LOCATION		REMARKS
Сί	-3 LENNO	( TSA048S4	ADDITION	R-410A	3/8"	7/8"	13.7 83	1 1.7	1/4	22"	80	67	59	57.4	95	48.0	_	13.5	208/230V-3-60	18.8	30	GROUND	194	1, 2
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PROVIDE WALL SLEEVES AND SUPPORTS AS NECESSARY TO ROUTE REFRIEGERATION PIPING FROM COIL TO OUTDOOR CONDENSING UNIT. ALL SUCTION (GAS) LINES TO BE INSULATED WITH 1/2" THICK (MIN.) ARMAFLEX INSULATION. PROVIDE ALL FITTINGS AND OFFSETS AS NEEDED FOR REFRIGERATION PIPING IN ORDER TO AVOID SPACE CONFLICTS AND ROUTING ISSUES. PIPING PLAN NOT ON DRAWINGS, VERFLY ALL PIPE ROUTING IN FIELD.

	EXHAUST FAN & VENTILATION SCHEDULE																	
										ELECTRIC	AL DATA		UNIT	CONTROL	UNIT	INSTALLED		
TAG	MFG	MODEL	AREA(S) SERVED	CFM	ESP(WC)	HP	BHP	RPM	SONES	DRIVE	VOLTAGE-PH-HZ	AMPS	MOCP	CONTROLLER	SEQUENCE	LOCATION	WEIGHT (LBS)	REMARKS
EF-1	BROAN	L150	ISOLATION 109	150	0.125"	_	N/A	_	1.5	DIRECT	120V-1-60	1	1	WALL SWITCH	ON/OFF	CEILING	23.1	
EF-2	BROAN	670	EXAM 108	50	0.125"	_	N/A	_	3.5	DIRECT	120V-1-60	-	1	WALL SWITCH	ON/OFF	CEILING	4.2	
EF-3	BROAN	L150	CAT WARD 107	150	0.125"	-	N/A	_	1.5	DIRECT	120V-1-60	1	ı	WALL SWITCH	ON/OFF	CEILING	23.1	

TAG	MFG	MODEL	NECK SIZE (IN.)	FACE SIZE (IN.)	PATTERN/TYPE	MOUNTING	MAX CFM	THROW (FT)	MATERIAL	FINISH	COLOR	REMARKS
CD-1	NAILOR	6500L	SEE PLANS	24×24	4-WAY/BLOW-40	T-BAR	SEE PLANS	_	STEEL	FACTORY	WHITE	,
CD-2	NAILOR	6500L	SEE PLANS	24×12	4-WAY/BLOW-40	T-BAR	SEE PLANS	-	STEEL	FACTORY	WHITE	
RG-1	NAILOR	6145H	SEE PLANS	24×24	BAR TYPE RETURN	T-BAR	SEE PLANS	_	STEEL	FACTORY	WHITE	
RG-2	NAILOR	6145H	SEE PLANS	24×12	BAR TYPE RETURN	T-BAR	SEE PLANS	_	STEEL	FACTORY	WHITE	
NOMENCLA	CD-1/8/23!	GRD					,					

### HVAC GENERAL NOTES:

- 1. AIR—COOLED CONDENSER <u>CU-3</u> TO BE FIELD LOCATED ON EXTERIOR AS CLOSE AS POSSIBLE TO EQUIPMENT ROOM HOUSING <u>F-3</u>. CONCRETE EQUIPMENT PAD BY OTHERS.
- 2. ROOF-MOUNTED RELIEF HOOD  $\overline{RH-1}$  TO SERVE AS COLLECTIVE TERMINATION FOR ALL NEW EXHAUST FANS. ACME MODEL EV OR EQUAL WITH WEIGHTED BACKDRAFT DAMPER. MC TO USE 12" H (MIN) CURB SLOPED TO MATCH ROOF PITCH.
- 3. ROOF-MOUNTED INTAKE HOOD OAL TO SERVE AS E-3 OUTSIDE AIR INTAKE. ACME MODEL IV OR EQUAL WITH WEIGHTED BACKDRAFT DAMPER. MC TO USE 12" H (MIN) CURB SLOPED TO MATCH ROOF
- 4. MC TO SEAL ALL DUCTWORK WITH LOW VOC DUCT SEALER. DUCTWORK TO BE SEALED ALONG BOTH VERTICAL AND HORIZONTAL SEAMS.
- 5. ALL SUPPLY AIR DUCT AND OUTSIDE AIR DUCT RUN BELOW BOTTOM CHORD OF TRUSS TO BE EXTERNALLY INSULATED WITH 1-1/2" THICK, 0.75 LB/SF FIBERGLASS WITH FOIL FACE (STANDARD DUCT
- 6. ALL EXHAUST DUCT TO BE UNINSULATED.
- 7. ALL RETURN AIR DUCT TO BE UNINSULATED.
- 8. ALL OUTSIDE AIR DUCT RUN IN ATTIC TO BE EXTERNALLY INSULATED WITH 2" THICK, 0.75 LB/SF FIBERGLASS WITH FOIL FACE (R6 DUCT WRAP).
- 9. ALL DUCT IN EXPOSED CONDITIONED SPACE TO BE UNINSULATED.
- 10. THERMOSTAT SHOWN TO BE IN ROOM 105, BUT FINAL LOCATION SHALL BE OWNER-VERIFIED.

1 01/02/2 2 01/03/2 3 01/10/2





DRAWING STATUS PRELIMINARY

FOR ESTIMATING

FOR CONSTRUCTION

HVAC

DRAWING NUMBER

M100 DRAWING DATE: 12/21/

DRAWN BY: PB REVIEWED BY: JB

ACCEPTED BY: -SHEET 1 OF 1

JOB NO. ACH