MED TEMP LIQUID OVERFEED - SYSTEMS — REFRIGERANT 744 — FEED RATE: 2

CIRCUIT NUMBER	DESCRIPTION	EVAP MBH	SUPPLY TEMP (°F)	DISCHARGE AIR (FT)	EVAPORATORS	MOTORS	TXV	STAT	DEFROST	DEFROST TERMINATION	CONTROL VALVE	DEFROST VOLTAGE/PHASE	DEFROST AMPS	FIRST DEFROST/S TIR	DEFROSTS PER DAY	DEFROST DURATION	PANEL	DEFROST GROUP	ANTI-SWEAT AMPS (120V)	FAN VOLTAGE/PHASE	FAN AMPS	LIGHTING AMPS	SUCTION RETURN	SUCTION RETURN RISER	LIQUID SUPPLY
PH LT CON	CO2 Pump	10.2																							
	LT Condenser Load Unit 1	220.0																							
	MEDIUM TEMP LOOP 1 (MT1)		20																			STUB:	1 5/8		1 1/8
	24 ft Beer	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5/8	3/8	3/8
2A	SRBLH-12 Beer	3.3	20	38		EC		E2	TO	TO	LLSV	--	--		2	30			1.0	120/1	0.7	0.8	1/2	3/8	3/8
2B	SRBLH-12 Beer	3.3	20	38		EC		E2	TO	TO	LLSV	--	--		2	30			1.0	120/1	0.7	0.8	1/2	3/8	3/8
	24 ft Beer	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5/8	3/8	3/8
3A	SRBLH-12 Beer	3.3	20	38		EC		E2	TO	TO	LLSV	--	--		2	30			1.0	120/1	0.7	0.8	1/2	3/8	3/8
3B	SRBLH-12 Beer	3.3	20	38		EC		E2	TO	TO	LLSV	--	--		2	30			1.0	120/1	0.7	0.8	1/2	3/8	3/8
14	Cooler, Bakery (EXPx10')	7.1	20	36		EC		E2	TO	TO	LLSV	--	--		5	45			--	208/1	1.0	--	5/8	3/8	3/8
17	Cooler, Dairy (40ft sf)	28.7	20	34		EC		E2	TO	TO	LLSV	--	--		5	45			--	208/1	3.0	--	7/8	1/2	5/8
19	GRB-4 Dairy - Eggs	0.8	20	36		EC		E2	TO	TO	LLSV	--	--		4	30			0.9	120/1	0.2	0.2	1/2	3/8	3/8
	24 ft Rear Load Dairy	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5/8	3/8	3/8
21A	ORBR-12 Dairy - Rear Load	3.5	20	36		EC		E2	TO	TO	LLSV	--	--		4	30			0.8	120/1	0.7	0.8	1/2	3/8	3/8
21B	ORBR-12 Dairy - Rear Load	3.5	20	36		EC		E2	TO	TO	LLSV	--	--		4	30			0.8	120/1	0.7	0.8	1/2	3/8	3/8
	32 ft Dairy	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5/8	3/8	3/8
22A	GRB-32 Dairy	2.4	20	36		EC		E2	TO	TO	LLSV	--	--		4	30			2.0	120/1	0.7	0.8	1/2	3/8	3/8
22B	GRB-8 Dairy	1.6	20	36		EC		E2	TO	TO	LLSV	--	--		4	30			1.4	120/1	0.4	0.5	1/2	3/8	3/8
22C	ORB-12 Dairy	2.4	20	36		EC		E2	TO	TO	LLSV	--	--		4	30			2.0	120/1	0.7	0.8	1/2	3/8	3/8
23	ORB-4 Dairy	1.6	20	36		EC		E2	TO	TO	LLSV	--	--		4	30			1.4	120/1	0.4	0.5	1/2	3/8	3/8
	28 ft Meat	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24A	ORB-8 Meat	1.7	20	34		EC		E2	TO	TO	LLSV	--	--		4	30			1.4	120/1	0.4	0.5	1/2	3/8	3/8
24B	ORB-12 Meat	2.6	20	34		EC		E2	TO	TO	LLSV	--	--		4	30			2.0	120/1	0.7	0.8	1/2	3/8	3/8
24C	ORB-8 Meat	1.7	20	34		EC		E2	TO	TO	LLSV	--	--		4	30			1.4	120/1	0.4	0.5	1/2	3/8	3/8
29	Cooler, Deli Shorips (8'x10'x10')	9.0	20	34		EC		E2	TO	TO	LLSV	--	--		3	45			--	208/1	1.0	--	5/8	3/8	1/2
27	Cooler, Deli Prep (12'x12'x10')	12.0	20	34		EC		E2	TO	TO	LLSV	--	--		3	45			--	208/1	1.5	--	5/8	3/8	1/2
34	PONUMA-12 Service +22F (TOP)	4.3	20	20		EC		E2	TO	TO	LLSV	--	--		4	60			--	120/1	1.0	--	1/2	3/8	3/8
35	PONUMA-12 Self Serv +22F (BOTTOM)	7.1	20	33		FC		E2	TO	TO	LLSV	--	--		4	60			1.6	120/1	0.9	2.8	5/8	3/8	3/8
36	SOUMA-NRG-12 Meat	9.0	20	20		EC		E	DT	LLSV	208/1	5.8	0	6	6	30	B	1	--	120/1	0.5	0.4	5/8	3/8	1/2
		122.7																							
	MEDIUM TEMP LOOP 2 (MT2)		20																			STUB:	1 3/8		7/8
	Meat Work Room (694 sf)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 3/8	7/8	7/8
31A	Prep, Meat Work Room (290 sf)	41.6	20	55		EEVU160C0AMA (3)		E2	TO	TO	LLSV	--	--		3	45			--	208/1	1.3	--	7/8	5/8	5/8
31B	Prep, Meat Work Room (297 sf)	41.6	20	55		EEVU160C0AMA (3)		EC			LLSV	--	--		3	45			--	208/1	1.3	--	7/8	5/8	5/8
	Seafood Prep (200 sf)																						5/8	1/2	1/2
32A	Prep, Seafood (100 sf)	16.8	20	50		EEVU080C0AMA (1)		EC		E2	TO	TO	LLSV	--	--		3	45			--	208/1	0.4	--	5/8	1/2	1/2
32B	Prep, Seafood (100 sf)	16.8	20	50		EEVU080C0AMA (1)		EC		E2	TO	TO	LLSV	--	--		3	45			--	208/1	0.4	--	5/8	1/2	1/2
		116.6																							
	MEDIUM TEMP LOOP 3 (MT3)		20																			STUB:	1 5/8		1 1/8
28	Cooler, Chicken/Seafood (32'x10'x10')	9.8	20	28		EEVU190C0AMA (1)		EC		E2	E	DT	LLSV	230/1	18.3	3	3	45	B	4	--	208/1	2.0	--	5/8	3/8	1/2
30	Cooler, Meat (12'x8'x10')	13.6	20	28		EEU220C0AMA (1)		EC		E2	E	DT	LLSV	230/1	22.8	4	3	45	B	5	--	208/1	2.5	--	5/8	3/8	1/2
	Deli Cheese - 12 ft + Wedges	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5/8	3/8	1/2
45A	GLDSSX2436 22F Wedge	2.3	20	38		EC		E2	TO	TO	LLSV	--	--		6	30			0.1	120/1	0.3	0.7	3/8	3/8	3/8
45B	GLDSS6643R	3.2	20	38		EC		E2	TO	TO	LLSV	--	--		6	30			0.3	120/1	0.6	0.7	1/2	3/8	3/8
45C	GLDSS648R	3.2	20	38		EC		E2	TO	TO	LLSV	--	--		6	30			0.3	120/1	0.6	0.7	1/2	3/8	3/8
45D	GLDSSX4436R 45F Wedge	1.4	20	38		EC		E2	TO	TO	LLSV	--	--		6	30			0.0	120/1	0.3	0.7	3/8	3/8	3/8
45E	GLDSSX4436R 45F Wedge	1.4	20	38		EC		E2	TO	TO	LLSV	--	--		6	30			0.0	120/1	0.3	0.7	3/8	3/8	3/8
	16 ft Deli	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1/2	3/8
46A	GSA-8 Deli	2.3	20	30		EC		E2	TO	TO	LLSV	--	--		2	45			0.7	120/1	0.5	0.8	3/8	3/8	3/8
46B	GSA-8 Deli	2.3	20	30		EC		E2	TO	TO	LLSV	--	--		2	45			0.7	120/1	0.5	0.8	3/8	3/8	3/8
47	GNSDM-NRG-8 Deli	4.8	20	31		EC		E2	TO	TO	LLSV	--	--		6	40			--	120/1	0.2	0.1	1/2	3/8	3/8
	12 ft Deli Sandwiches	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1/2	3/8
48A	SM430R	2.7	20	38		EC		E2	TO	TO	LLSV	--	--		6	30			1.3	120/1	0.7	0.7	3/8	3/8	3/8
48B	SM586	3.0	20	38		EC		E2	TO	TO	LLSV	--	--		6	30			0.8	120/1	0.7	0.7	3/8	3/8	3/8
49	GNSS656R Chef's Selections	6.6	20	40		EC		E2	TO	TO	LLSV	--	--		6	25			0.4	120/1	0.9	0.7	5/8	3/8	3/8
	24 ft Deli	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7/8	5/8	5/8
50A	GNSDMH-NRG-12 Deli	16.9	20	33		EC		E2	TO	TO	LLSV	--	--		6	40			--	120/1	0.7	0.8	7/8	1/2	1/2
50B	GNSDMH-NRG-12 Deli	16.9	20	33		EC		E2	TO	TO	LLSV	--	--		6	40			--	120/1	0.7	0.8	7/8	1/2	1/2
	24 ft Deli																						7/8	5/8	5/8
51A	GNSDMH-NRG-12 Deli	16.9	20	33		EC		E2	TO	TO	LLSV	--	--		6	40			--	120/1	0.7	0.8	7/8	1/2	1/2
51B	GNSDMH-NRG-12 Deli	16.9	20	33		EC		E2	TO	TO	LLSV	--	--		6	40			--	120/1	0.7	0.8	7/8	1/2	1/2
	16 ft Deli																						7/8	1/2	1/2
52A	GNSDMH-NRG-8 Deli	11.3	20	33		EC		E2	TO	TO	LLSV	--	--		6	40			--	120/1	0.5	0.6	5/8	3/8	1/2
52B	GNSDSH-NRG-8 Deli	11.3	20	33		EC		E2	TO	TO	LLSV	--	--		6	40			--	120/1	0.5	0.6	5/8	3/8	1/2
53	SC250R-NRG8	4.6	20	38		EC		E2	TO	TO	LLSV	--	--		6	30			--	120/1	0.6	0.7	1/2	3/8	3/8
		151.2																							
	MEDIUM TEMP LOOP 4 (MT4)		20																			STUB:	1 5/8		1 1/8
	24 ft Meat	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7/8	1/2	5/8
37A	OHM-NRG-12	13.8	20	28		EC		E2	E	DT	LLSV	208/1	5.8	1	6	30	C	2	--	120/1	0.9	0.5	7/8	3/8	1/2
37B	OHM-NRG-12	13.8	20	28		EC		E2	E	DT	LLSV	208/1	5.8	1	6	30	C	2	--	120/1	0.9	0.5	7/8	3/8	1/2
	24 ft Meat	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7/8	1/2	5/8
38A	OHM-NRG-12	13.8	20	28		EC		E2	E	DT	LLSV	208/1	5.8	2	6	30	C	3	--	120/1	0.9	0.5	7/8	3/8	1/2
38B	OHM-NRG-12	13.8	20	28		EC		E2	E	DT	LLSV	208/1	5.8	2	6	30	C	3	--	120/1	0.9	0.5	7/8	3/8	1/2
	28 ft Produce	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7/8	3/8	5/8
39A	ORB-12 Produce	2.4	20	36		EC		E2	TO	TO	LLSV	--	--		4	30			2.0	120/1	0.7	0.8	1/2	3/8	3/8
39B	ORB-8 Produce	1.6	20	36		EC		E2	TO	TO	LLSV	--	--		4	30			1.4	120/1	0.4	0.5	1/2	3/8	3/8
39C	ORB-8 Produce	1.6	20	36		EC		E2	TO	TO	LLSV	--	--		4	30			1.4	120/1	0.4	0.5	1/2	3/8	3/8
	20 ft Produce	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5/8	3/8	3/8
40A	ORB-8 Produce	1.6	20	36		EC		E2	TO	TO	LLSV	--	--		4	30			1.4	120/1	0.4	0.5	1/2	3/8	3/8
40B	ORB-12 Produce	2.4	20	36		EC		E2	TO	TO	LLSV	--	--		4	30			2.0	120/1	0.7	0.8	1/2	3/8	3/8
	24 ft Produce	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5/8	3/8	3/8
41A	GSDM-NRG-12 Cut Produce	14.2	20	35		EC		E2	TO	TO	LLSV	--	--		6	42			--	120/1	0.7	0.8	7/8	1/2	1/2
41B	GSDM-NRG-12 Cut Produce	14.2	20	35		EC		E2	TO	TO	LLSV	--	--		6	42			--	120/1	0.7	0.8	7/8	1/2	1/2
41C	GSDMA-NRG-12 Cut Produce	14.2	20	36		EC		E2	TO	TO	LLSV	--	--		6	42			--	120/1	0.7	1.1	7/8	1/2	1/2
42	Cooler, Produce (A) (8'x14'x10')	9.5	20	36		EEVU250C0AMA (1)		EC		E2	TO	TO	LLSV	--	--		3	45			--	208/1	1.0	--	5/8	3/8	1/2
43	Cooler, Produce (B) (10'x16'x10')	12.3	20	36		EEVU125C0AMA (1)		EC		E2	TO	TO	LLSV	--	--		3	45			--	208/1	1.0	--		3/8	1/2
44	Prep, Produce (557 sf)	32.9	20	20		EEVU175C0AMA (3)		EC		E2	TO	TO	LLSV	--	--		3	45			--		0.8	--	11/8	7/8	5/8
		362.5																							
	Medium Temp Liquid Overfeed Total	543.1																							

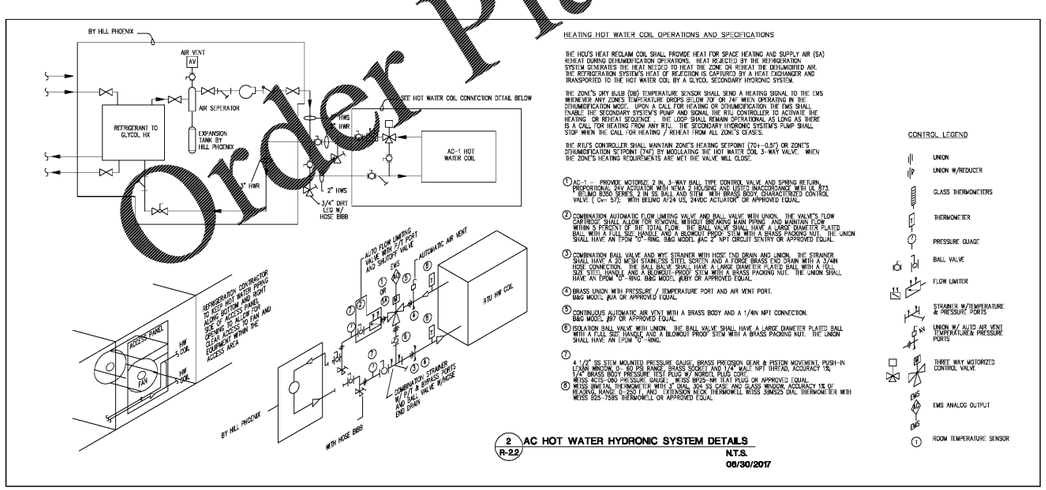
VERIFY NON-OVERLAPPING DEFROST GROUPS

ELECTRIC DEFROST GROUP IN USE BY HOUR OF THE DAY

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
NON-ELECTRIC (TIMED OFF)																							
NON-ELECTRIC (TIMED OFF)																							
NON-ELECTRIC (TIMED OFF)																							
NON-ELECTRIC (TIMED OFF)																							

MED TEMP DX - SYSTEMS — REFRIGERANT: 449A

101	PMC-32 (R-449A)	14.7	26			EC		E2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11/8	7/8	1/2


BY HILL PHOENIX
AIR VENT
AV
AIR SEPERATION
REFRIGERANT TO GLYCOL HX
EXPANSION TANK BY HILL PHOENIX
SEE HOT WATER COIL CONNECTION DTIAL BELOW
HWS
HWR
AC-1 HOT WATER COIL
1" HWR
3/4" HWS
3/4" DRT
C/O W/ HOSE BIBB
AUTO FLOW LIMITING W/ SHUT OFF
AUTOMATIC AIR VENT
REFRIGERATION CONDENSATE TO BE INSTALLED PER ASHRAE 62.1 2007 SECTION 5.10.2 TO BE TRAPPED PER IPC AND DRAINED TO FLOOR SINK AND ACCESS ABLE
FROZEN DRAIN
3 DR
HW
CW
3 DR
3 DR
3 DR