

MULTIFLEX BOARD #1 AT RACK 'A'			
INPUT BOARD #1		OUTPUT BOARD #1	
1 SUCTION PRESSURE SYSTEM 'A' - (200#)	9 DROP-LEG TEMPERATURE SYSTEM 'A'	1 CONTROLLER ALARM - RACK 'A'	
2 DROP-LEG PRESSURE SYSTEM 'A' - (500#)	10 DISCHARGE TEMPERATURE RACK 'A' - (HI)	2 LOW RECEIVER ALARM - RACK 'A'	
3 RUPTURE DISK #1 - (500#)	11 SUBCOOLER SUCTION TEMPERATURE	3 LLSV (LLS-M)	
4 RUPTURE DISK #2 - (500#)	12 POWER MONITORING	4 SPLIT CONDENSER VALVE	
5 HI/LOW PRESSURE - (200#)	13 CIRCUIT ENABLE A1	5 IPR BYPASS SOLENOID	
6 PHASE LOSS ALARM	14 CIRCUIT ENABLE A2	6 RECEIVER BYPASS SOLENOID	
7 LIQUID LEVEL	15 CIRCUIT ENABLE A3	7 SUBCOOL SOLENOID VALVE	
8 SUCTION TEMPERATURE SYSTEM 'A'	16 CIRCUIT ENABLE A4	8 COMP A1 ENABLE	

MULTIFLEX BOARD #2 AT RACK 'A'			
INPUT BOARD #2		OUTPUT BOARD #2	
1 CIRCUIT ENABLE A5	9 COMP A2 HI DISCHARGE TEMP	1 COMP A2 ENABLE	
2 CIRCUIT ENABLE A6	10 COMP A2 RUN PROOF	2 COMP A2 UNLOADER 1	
3 CIRCUIT ENABLE A7	11 COMP A2 OIL FAILURE	3 COMP A3 ENABLE	
4 CIRCUIT ENABLE A8	12 COMP A3 HI DISCHARGE TEMP	4 COMP A4 ENABLE	
5 CIRCUIT ENABLE A9	13 COMP A3 RUN PROOF	5 COMP A5 ENABLE	
6 COMP A1 HI DISCHARGE TEMP	14 COMP A3 OIL FAILURE	6 COMP A6 ENABLE	
7 COMP A1 RUN PROOF	15 CIRCUIT ENABLE A4	7 COMP A1 UNLOADER 1	
8 COMP A1 OIL FAILURE	16 COMP A4 RUN PROOF	8 COMP A1 UNLOADER 2	

MULTIFLEX BOARD #3 AT RACK 'A'			
INPUT BOARD #3		OUTPUT BOARD #3	
1 COMP A4 OIL FAILURE	9 CIRCUIT ENABLE A13	1	
2 COMP A5 HI DISCHARGE TEMP	10 CIRCUIT ENABLE A14	2	
3 COMP A5 RUN PROOF	11 CIRCUIT ENABLE A15	3	
4 COMP A5 OIL FAILURE	12 COMP A6 HI DISCHARGE TEMP	4	
5 RACK 'A' MRLDS	13 COMP A6 RUN PROOF	5	
6 CIRCUIT ENABLE A10	14 COMP A6 OIL DISCHARGE	6	
7 CIRCUIT ENABLE A11	15	7	
8 CIRCUIT ENABLE A12	16	8	

MULTIFLEX BOARD #4 AT CONDENSER	
ANALOG OUTPUT BOARD #4	
1 FAN SPEED, FULL TIME	
2 FAN SPEED, SEASONAL	
3	
4	
FACTORY INSTALLED AND WIRED IN AIR COOLED CONDENSER CONTROL PANEL	

MULTIFLEX BOARD #5 ABOVE THE COOLER			
INPUT BOARD #5			
1 A-1 PRODUCT TEMP	9 A-9 PRODUCT TEMP		
2 A-2 PRODUCT TEMP	10 A-10 PRODUCT TEMP		
3 A-3 PRODUCT TEMP	11 PRODUCE TEMP		
4 A-4 PRODUCT TEMP	12 DAIRY MONITOR TEMP		
5 A-5 PRODUCT TEMP	13 A-11 PRODUCT TEMP		
6 A-6 PRODUCT TEMP	14 A-12A RETURN TEMP		
7 A-7 PRODUCT TEMP	15 A-12B RETURN TEMP		
8 A-8 PRODUCT TEMP	16		
PROVIDE WITH NETWORK CONNECTION TO RACK A			

MULTIFLEX BOARD #5 ABOVE COOLER	
OUTPUT BOARD #5	
1 A-1 SOLENOID	
2 A-2 SOLENOID	
3 A-3 SOLENOID	
4 A-4 SOLENOID	
5 A-5 SOLENOID	
6 A-6 SOLENOID	
7 A-7 SOLENOID	
8 A-8 SOLENOID	

MULTIFLEX BOARD #6 ABOVE COOLER	
OUTPUT BOARD #6	
1 A-9 SOLENOID	
2 A-10 SOLENOID	
3 A-11 SOLENOID	
4 A-12 SOLENOID	
5 A-12 SUCTION STOP - CLOSE ON REFRIGERANT LEAK	
6 A-13 SOLENOID	
7 A-14 SOLENOID	
8	

MULTIFLEX BOARD #5 AT RACK A	
VARIABLE OUTPUT BOARD #8	
1 COMP A-1 UNLOADER	
2	
3	
4	
5	
6	
7	
8	

MULTIFLEX BOARD #7 ABOVE COOLER	
OUTPUT BOARD #7	
1 A-13A RETURN TEMP	
2 A-13B RETURN TEMP	
3 A-13C RETURN TEMP	
4 A-13D RETURN TEMP	
5	
6	
7	
8	

MULTIFLEX BOARD #1 AT RACK 'B'			
INPUT BOARD #1		OUTPUT BOARD #1	
1 SUCTION PRESSURE SYSTEM 'B' - (200#)	9 DROP-LEG TEMPERATURE SYSTEM 'B'	1 CONTROLLER ALARM - RACK 'B'	
2 DROP-LEG PRESSURE SYSTEM 'B' - (500#)	10 DISCHARGE TEMPERATURE RACK 'B' - (HI)	2 LOW RECEIVER ALARM - RACK 'B'	
3 RUPTURE DISK #1 - (500#)	11 SUBCOOLER LEAVING TEMPERATURE	3 LLSV (LLS-M)	
4 RUPTURE DISK #2 - (500#)	12 POWER MONITORING	4 SPLIT CONDENSER VALVE	
5 HI/LOW PRESSURE - (200#)	13 CIRCUIT ENABLE B1	5 IPR BYPASS SOLENOID	
6 PHASE LOSS ALARM	14 CIRCUIT ENABLE B2	6 RECEIVER BYPASS SOLENOID	
7 LIQUID LEVEL	15 CIRCUIT ENABLE B3	7 SUBCOOL SOLENOID VALVE	
8 SUCTION TEMPERATURE SYSTEM 'B'	16 CIRCUIT ENABLE B4	8 COMP B1 ENABLE	

MULTIFLEX BOARD #2 AT RACK 'B'			
INPUT BOARD #2		OUTPUT BOARD #2	
1 CIRCUIT ENABLE B5	9 COMP B2 OIL FAILURE	1 COMP B2 ENABLE	
2 CIRCUIT ENABLE B6	10 COMP B3 HI DISCHARGE TEMP	2 COMP B2 UNLOADER #1	
3 COMP B1 HI DISCHARGE TEMP	11 COMP B3 RUN PROOF	3 COMP B3 UNLOADER #2	
4 COMP B1 RUN PROOF	12 COMP B3 OIL FAILURE	4 COMP B3 ENABLE	
5 COMP B1 OIL FAILURE	13 COMP B4 HI DISCHARGE TEMP	5 COMP B4 ENABLE	
6 COMP B2 HI DISCHARGE TEMP	14 COMP B4 RUN PROOF	6 COMP B5 ENABLE	
7 COMP B2 RUN PROOF	15 COMP B4 OIL FAILURE	7 COMP B6 ENABLE	
8 CIRCUIT ENABLE B7	16 COMP B5 HI DISCHARGE TEMP	8	

MULTIFLEX BOARD #3 AT RACK 'B'			
INPUT BOARD #3		OUTPUT BOARD #3	
1 COMP B5 RUN PROOF	9 RACK 'B' MRLDS	1	
2 COMP B5 OIL FAILURE	10	2	
3 COMP B6 HI DISCHARGE TEMP	11	3	
4 COMP B6 RUN PROOF	12	4	
5 COMP B6 OIL FAILURE	13	5	
6 CIRCUIT ENABLE B8	14	6	
7	15	7	
8	16	8	

MULTIFLEX BOARD #5 AT MAIN ELEC RM POWERWALL	MULTIFLEX BOARD #6 AT MAIN ELEC RM POWERWALL
OUTPUT BOARD #5	OUTPUT BOARD #6
1 ELECTRIC DEFROST HEATERS B-1	1 EVAPORATOR FANS B-1
2 ELECTRIC DEFROST HEATERS B-2	2 EVAPORATOR FANS B-2
3 ELECTRIC DEFROST HEATERS B-3	3 EVAPORATOR FANS B-3
4 ELECTRIC DEFROST HEATERS B-4	4 EVAPORATOR FANS B-4
5 ELECTRIC DEFROST HEATERS B-5	5 EVAPORATOR FANS B-5
6 ELECTRIC DEFROST HEATERS B-6	6 EVAPORATOR FANS B-6
7 ELECTRIC DEFROST HEATERS B-7	7 EVAPORATOR FANS B-7
8 ELECTRIC DEFROST HEATERS B-8	8 EVAPORATOR FANS B-8

MULTIFLEX BOARD #7 AT CONDENSER	
ANALOG OUTPUT BOARD #8	
1 FAN SPEED, FULL TIME	
2 FAN SPEED, SEASONAL	
3	
4	
FACTORY INSTALLED AND WIRED IN AIR COOLED CONDENSER CONTROL PANEL	

MULTIFLEX BOARD #6 ABOVE THE COOLER			
INPUT BOARD #6			
1 B-1 PRODUCT TEMP	9 B-3 DEFROST TERMINATIONS		
2 B-2 PRODUCT TEMP	10 B-4 DEFROST TERMINATIONS		
3 B-3 PRODUCT TEMP	11 B-5 DEFROST TERMINATIONS		
4 B-4 PRODUCT TEMP	12 B-6 PRODUCT TEMP		
5 B-5 PRODUCT TEMP	13 B-6 DEFROST TERMINATIONS		
6 FREEZER MONITOR TEMP	14 B-7 PRODUCT TEMP		
7 B-1 DEFROST TERMINATIONS	15 B-7 DEFROST TERMINATIONS		
8 B-2 DEFROST TERMINATIONS	16		
PROVIDE WITH NETWORK CONNECTION TO RACK B			

MULTIFLEX BOARD #4 ABOVE COOLER	
OUTPUT BOARD #4	
1 B-1 SOLENOIDS	
2 B-2 SOLENOIDS	
3 B-3 SOLENOIDS	
4 B-4 SOLENOIDS	
5 B-5 SOLENOIDS	
6 B-6 SOLENOIDS	
7 B-7 SOLENOIDS	
8 B-8 SOLENOIDS	

MULTIFLEX BOARD #5 AT RACK B	
VARIABLE OUTPUT BOARD #8	
1 COMP B-1 UNLOADER	
2	
3	
4	
5	
6	
7	
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MULTIFLEX BOARD #1 AT MAIN ELECTRICAL ROOM			
INPUT BOARD #1		OUTPUT BOARD #1	
1 PULSE METER	1 RTU-1 @ OFFICES - COOLING #1		
2 DEW POINT SENSOR - COOLER	2 RTU-1 @ OFFICES - FAN		
3 DEW POINT SENSOR - SALES	3 RTU-1 @ CHECK OUT HEATING		
4 OUTDOOR PHOTOMETRIC SENSOR	4 RTU-2 @ CHECK OUT HEATING #1		
5 INDOOR PHOTOMETRIC SENSOR	5 RTU-2 @ CHECK OUT HEATING #2		
6 SVF-A UNDERSLAB TEMPERATURE	6 RTU-2 @ CHECK OUT FAN		
7 SVF-A UNDERSLAB TEMPERATURE	7 RTU-2 @ CHECK OUT COOLING #1		
8 SVF-A UNDERSLAB TEMPERATURE	8 RTU-2 @ CHECK OUT COOLING #2		

MULTIFLEX BOARD #2 AT MAIN ELECTRICAL ROOM			
INPUT BOARD #2		OUTPUT BOARD #2	
1 SVF-B UNDERSLAB TEMPERATURE	1 RTU-3 @ SALES AISLE #4 HEATING #1		
2 SVF-B UNDERSLAB TEMPERATURE	2 RTU-3 @ SALES AISLE #4 HEATING #2		
3 SVF-B UNDERSLAB TEMPERATURE	3 RTU-3 @ SALES AISLE #4 FAN		
4 SVF-C UNDERSLAB TEMPERATURE	4 RTU-3 @ SALES AISLE #4 COOLING #1		
5 SVF-C UNDERSLAB TEMPERATURE	5 RTU-3 @ SALES AISLE #4 COOLING #2		
6 SVF-C UNDERSLAB TEMPERATURE	6 RTU-4 @ SALES AISLE #2 HEATING #1		
7 RTU-1,2,3,4,5, AMBIENT TEMPERATURE SENSOR @ RTU-3	7 RTU-4 @ SALES AISLE #2 HEATING #2		
8	8 RTU-4 @ SALES AISLE #2 FAN		

MULTIFLEX BOARD #3 AT MAIN ELECTRICAL ROOM			
INPUT BOARD #3		OUTPUT BOARD #3	
1 RTU-1 @ OFFICES SUPPLY AIR TEMP	1 RTU-4 @ SALES AISLE #2 COOLING #1		
2 RTU-1 @ OFFICES SPACE TEMP	2 RTU-4 @ SALES AISLE #2 COOLING #2		
3 RTU-2 @ CHECK OUT SUPPLY AIR TEMP	3 RTU-5 @ SALES AISLE #2 HEATING #1		
4 RTU-2 @ CHECK OUT SPACE TEMP	4 RTU-5 @ SALES AISLE #2 HEATING #2		
5 RTU-2 @ CHECK OUT CO2 SENSOR	5 RTU-5 @ SALES AISLE #2 FAN		
6 RTU-3 @ SALES AISLE #4 SUPPLY AIR TEMP	6 RTU-5 @ SALES AISLE #2 COOLING #1		
7 RTU-3 @ SALES AISLE #4 SPACE TEMP	7 RTU-5 @ SALES AISLE #2 COOLING #2		
8 RTU-3 @ SALES AISLE #4 CO2 SENSOR	8		

MULTIFLEX BOARD #4 AT MAIN ELECTRICAL ROOM	
INPUT BOARD #4	
1 RTU-4 @ SALES AISLE #2 SUPPLY AIR TEMP	1 REFRIGERANT ALARM BUZZER
2 RTU-4 @ SALES AISLE #2 SPACE TEMP	2 REFRIGERANT ALARM LIGHT
3 RTU-4 @ SALES AISLE #2 CO2 SENSOR	3
4 RTU-5 @ SALES AISLE #2 SUPPLY AIR TEMP	4
5 RTU-5 @ SALES AISLE #2 SPACE TEMP	5
6 RTU-5 @ SALES AISLE #2 CO2 SENSOR	6
7 RECEIVING TEMP SENSOR	7
8 GENERAL SALES CO2 SENSOR 1	8

MULTIFLEX BOARD #5 AT MAIN ELECTRICAL ROOM			
INPUT BOARD #5		OUTPUT BOARD #5	
1 COOLER HIGH SPEED DOOR PROOF	1		
2 FREEZER DOOR PROOF	2		
3 MANAGER BUZZER OVERRIDE	3		
4 PUMP ROOM TEMP	4		
5	5		
6	6		
7	7		
8	8		

MULTIFLEX BOARD #6 AT FRONT INTERIOR ELECTRICAL ROOM			
INPUT BOARD #5		OUTPUT BOARD #5	
1 AC-1 @ ENTRY DOOR PROOF	1 AC-1 @ ENTRY - FAN		
2 AC-1 @ ENTRY DOOR TEMPERATURE	2 AC-1 @ ENTRY - HEATER		
3 AC-2 @ ENTRY DOOR PROOF	3 AC-2 @ ENTRY - FAN		
4 AC-2 @ ENTRY DOOR TEMPERATURE	4 AC-2 @ ENTRY - HEATER		
5 MANAGER LIGHTING OVERRIDE	5 EF-1 (Break Room)		
6 RECEIVING LIGHTING OVERRIDE	6 EF-2 (Front Restrooms)		
7 COMPUTER ROOM TEMPERATURE SENSOR (MONITORING)	7		
8	8		

MULTIFLEX BOARD #7 AT MAIN ELECTRICAL ROOM	
OUTPUT BOARD #7	
1 RELAY 'C1' COOLER FREEZER 100%	
2 RELAY 'C2' COOLER FREEZER 50%	
3 RELAY 'D1' GENERAL RECEIVING 100%	
4 RELAY 'D2' GENERAL RECEIVING 50%	
5 RELAY 'E' FREEZER DOOR LIGHTING	
6 RELAY 'F1' PERISHABLE RECEIVING 100%	
7 RELAY 'F2' PERISHABLE RECEIVING 50%	
8 RELAY 'H' EXTERIOR WALLPAC LIGHTS	

MULTIFLEX BOARD #8 AT MAIN ELECTRICAL ROOM	
OUTPUT BOARD #8	
1 RELAY 'AA1' SLAB VENT FAN SVF-A	
2 RELAY 'AA2' SLAB VENT FAN SVF-B	
3 RELAY 'AA3' SLAB VENT FAN SVF-C	
4 RELAY 'Y' MAN DOOR LIGHTING	
5 RELAY 'M1' SEAFOOD LIGHTS 100%	
6 RELAY 'M2' SEAFOOD LIGHTS 50%	
7 RELAY 'N1' EXTERIOR SIGN	
8 RELAY 'N2' EXTERIOR MONUMENT SIGN	

MULTIFLEX BOARD #9 AT MAIN ELECTRICAL ROOM	
OUTPUT BOARD #9	
1 RELAY 'O1' POLE MOUNTED SITE LIGHTS	
2	
3	
4	
5	
6	
7	
8	

MULTIFLEX BOARD #10 AT FRONT INTERIOR ELECTRICAL ROOM	
OUTPUT BOARD #10	
1 RELAY 'A1' SALES 100%	
2 RELAY 'A2' SALES 50%	
3 RELAY 'B1' GENERAL SALES/CHECK OUT DAYLIGHT ZONE 100%	
4 RELAY 'B2' GENERAL SALES/CHECK OUT DAYLIGHT ZONE 50%	
5 RELAY 'G1' EXTERIOR BUILDING MTD SIGN	
6 RELAY 'G2' EXTERIOR BUILDING MTD SIGN	
7 RELAY 'J' MAN DOOR LIGHTING	
8 RELAY 'K' LIGHTS SMALLWARE	

MULTIFLEX BOARD #11 AT FRONT INTERIOR ELECTRICAL ROOM	
OUTPUT BOARD #11	
1 RELAY 'L1' CANOPY LTS 100%	
2 RELAY 'L2' CANOPY LTS 50%	
3 RELAY 'O2' POLE MOUNTED SITE LIGHTS	
4	
5	
6	
7	
8	



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DANBURY ROAD (LOT 48) BLOCK 0002)

REVISIONS

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ABBREVIATIONS,
NOTES AND
SCHEDULES-
REFRIGERATION

DATE: 9/10/2020
JOB NO. 19230

EM7.1
SHEET NO.

ALL SOLENOID VALVES SHALL BE
PROGRAMMED TO FAIL OPEN.

PROVIDE AN INTERNET CONNECTION AND PHONE
LINE AT THE BUILDING CONTROLLER
PROVIDE THE E2 CONTROLLER WITH A CFC
MODEM