



		208 3 28 9.8 DIS.SWITCH 4#8 & 1#10G PP-2 BAKERY S-92#3310 208 1 28 5.8 DIS.SWITCH 3#8 & 1#10G PP-2 BAKERY E32D5/SK32 208 1 7 1.5 DIS.SWITCH 2#12 & 1#12G PP-2 BAKERY SUPREMA 208 3 10 3.8 DIS.SWITCH 3#12 & 1#12G PP-2 BAKERY 0912-40 208 3 10 3.8 DIS.SWITCH 3#12 & 1#12G PP-2 BAKERY LFR-2G 208 3 93.9 33.8 DIS.SWITCH 3#3 & 1#8G PP-2 CLEAN UP AREA UW50 208 3 93.9 33.8 DIS.SWITCH 3#3 & 1#8G PP-2 CLEAN UP AREA UW50 208 3 93.9 33.8 DIS.SWITCH 3#3 & 1#8G PP-2 CLEAN UP AREA UW50 208 3 93.9 33.8 DIS.SWITCH 3#3 & 1#8G PP-2 CLEAN UP AREA UW50 208 3 93.9 33.8 DIS.SWITCH 3#3 & 1#8G PP-2 CLEAN UP AREA UW50 208 3 93.9 33.8 DIS.SWITCH 3#3 & 1#8G PP-2 CLEAN UP AREA UW50 208 3 93.9 93.9 93.9 93.8 DIS.SWITCH 3#3 & 1#8G PP-2 CLEAN UP AREA UW50 208 3 93.9 93.9 93.8 DIS.SWITCH 3#3 & 1#8G PP-2 CLEAN UP AREA UW50 208 3 93.9 93.9 93.8 DIS.SWITCH 3#3 & 1#8G PP-2 CLEAN UP AREA UW50 208 3 93.9 93.9 93.9 93.8 DIS.SWITCH 3#3 & 1#8G PP-2 CLEAN UP AREA UW50 208 3 93.9 93.9 93.8 DIS.SWITCH 3#3 & 1#8G PP-2 CLEAN UP AREA UW50 208 3 93.9 93.9 93.9 93.9 93.9 93.8 PP-2 PP-2								
ITEM NO.	DESCRIPTION	VOLT	PHASE	AMPS	LOAD(kVA)	CONNECTION	WIRE SIZE	PANEL	LOCATION	MODEL
K1	FIRE MIXER	208	3	28	9.8	DIS.SWITCH	, .,	PP-2	BAKERY	
K2	DOUBLE OVEN	208	1	28	5.8	DIS.SWITCH		PP-2	BAKERY	E32D5/SK32
K3	COOKIE DEPOSITOR	208	1	7	1.5	DIS.SWITCH		PP-2	BAKERY	SUPREMA
K4	CHOCOLATE TEMPERER	120	1	11	1.3	5-15R		PP-2	BAKERY	0912-40
K5	DOUBLE RACK OVEN	208	3	10	3.8	DIS.SWITCH	3#12 & 1#12G	PP-2	BAKERY	LFR-2G
K6	GAS RANGE					N.A	N.A	N.A	BAKERY	_
K7	DISHWASHER	208	3	93.9	33.8	DIS.SWITCH		PP-2	CLEAN UP AREA	UW50
K8	80QT FLOOR MIXER	208	3	11.0	2.6	DIS.SWITCH	3#12 & 1#12G	PP-2	BAKERY	HL800-1STD

	RETAIL EQUIPMENT SCHEDULE												
ITEM NO.	DESCRIPTION	VOLT	PHASE	AMPS	LOAD(kVA)	CONNECTION	WIRE SIZE	PANEL	LOCATION	MODEL			
1	UNDER COUNTER D/W	120	1	16	1.8	J.BOX	2#12 & 1#12G	PP-RETAIL	MEETING ROOM	L-1X16			
2	MICROWAVE	120	1	13	1.5	5-15R	2#12 & 1#12G	PP-RETAIL	MEETING ROOM	FFMV164LS			
3	DISPLAY FREEZER	120	1	7.5	0.8	5-20R	2#12 & 1#12G	PP-RETAIL	RETAIL ENTRY	FIP-40			
4	PINT FREEZER	120	1	7.0	8.0	5-15R	2#12 & 1#12G	PP-RETAIL	RETAIL ENTRY	TGF-10SD			
5	DRINK MACHINE	120	1	12	1.4	5-15R	2#12 & 1#12G	PP-RETAIL	DIPPING AREA	HBS1400			
6	HOT FUDGE	120	1	9.2	1.1	5-15R	2#12 & 1#12G	PP-RETAIL	DIPPING AREA	72045			
7	2 DOOR FREEZER	120	1	10.5	1.2	5-15R	2#12 & 1#12G	PP-RETAIL	RETAIL STORAGE	M3F47-2			
8	ICE MACHINE	120	1	5.5	0.6	5-15R	2#12 & 1#12G	PP-RETAIL	DIPPING AREA	U-140			
9	DIPPING CABINET	120	1	11.0	1.2	5-15R	2#12 & 1#12G	PP-RETAIL	DIPPING AREA	BD16-DIP			

PROCESS EQUIPMENT SCHEDULE												
ITEM NO.	DESCRIPTION	VOLT	PHASE	AMPS	HP	CONNECTION	STARTER TYPE	WIRE SIZE	PANEL	MODEL		
PR1	HEAT SHRINK TUNNEL	208	3	54.0		DIS.SWITCH		3#6 & 1#10G	PP-1	T4832		
PR1a	HEAT SHRINK TUNNEL (FUTURE)	208	1	30.0		DIS.SWITCH		¾" CONDUIT	PP-1	2C915A		
PR2	ICE CREAM TUB ASSEMBLER	208	3	15.0		DIS.SWITCH		3#12 & 1#12G	PP-1	CSM-6		
PR3	IQ3 METAL DETECTOR	110	1	3.1		J.BOX		2#12 & 1#12G	PP-1	IQ3+E		
PR4	SEMI AUTO BUNDLER (FUTURE)	115	1	17.0		5-20R		34" CONDUIT	PP-1	SW-3614S		
PR5	STAN PAC PINT FILLER	208	3	7.0		DIS.SWITCH		3#12 & 1#12G	PP-1	-		
PR6	INKJET PRINTER	120	1	1.0		5-15R		2#12 & 1#12G	PP-1	VJ1220		
PR6a	SHRINK TUNNEL CONVEYOR	208	1	8.8	1.0.	J.BOX			PP-1	_		
PR7	ICE CREAM FREEZER	208	3	46.0	15	DIS.SWITCH		3#6 & 1#10G	PP-1	_		
PR8	FRUIT/INGREDIENT FEEDER	208	3	10.6	3.3	DIS.SWITCH		3#12 & 1#12G	PP-1	S410		
PR9	VARIGERATOR (RIPPLE PUMP)	208	3	3.3	1.0	DIS.SWITCH		3#12 & 1#12G	PP-1	M02997		
PR10	BOILER	115	1			J.BOX		2#12 & 1#12G	PP-1	CLEAR FIRE		
PR11	RAW PRODUCT DISCHARGE PUMP (CP10-01)	480	3	5.4	1.0	DIS.SWITCH	VFD	3#12 & 1#12G	MCP	AC+216MD56C-S		
PR12	LIQUIFIER (AG10-01)	480	3	63.0	40.0	DIS.SWITCH	VFD	3#6 & 1#10G	MCP	LOWW 200		
PR13	BLENDER TANK DISCHARGE PUMP (CP10-02)	480	3	5.4	2.0	DIS.SWITCH	VFD	3#12 & 1#12G	MCP	AC+216MD14T-S		
PR14	VAT PASTEURIZER #1 AGITATOR (A20-01)	480	3	4.8	3.0	DIS.SWITCH	VFD	3#12 & 1#12G	MCP	500 DT		
PR14a	VAT PASTEURIZER #1 DISCHARGE PUMP (CP20-02)	480	3	15.0	7.5	DIS.SWITCH	VFD	3#12 & 1#12G	MCP	AC+216MD18T-S		
PR15	HOMOGENIZER (P20-03)	480	3	34.0	25.0	DIS.SWITCH	VFD	3#8 & 1#10G	MCP	MC 18TBS		
PR16	CHILLED WATER PUMP (CP60-01)	480	3	12.5	5.0	DIS.SWITCH	SINGLE SPEED	3#12 & 1#12G	MCP	_		
PR17	ICE BUILDER COMPRESSOR	480	3	37.0	15.0	DIS.SWITCH	SINGLE SPEED	3#8 & 1#10G	PP-HV1	VS200		
PR18	ICE BUILDER CONTROLS	120	1	5.0		5-20R	_	2#12 & 1#12G	PP-1	_		
PR19	LIQUIFIER DISCHARGE PUMP (CP10-03)	480	3	5.4	2.0	DIS.SWITCH	VFD	3#12 & 1#12G	MCP	_		
PR20	PAST. STORAGE TANK#1 AGITATOR (AG30-01)	480	3	5.4	1.0	DIS.SWITCH	VFD	3#12 & 1#12G	MCP	_		
PR21	PAST. STORAGE TANK#2 AGITATOR (AG40-01)	480	3	5.4	1.0	DIS.SWITCH	VFD	3#12 & 1#12G	MCP	_		
PR22	PT DISCHARGE PUMP (CP30-01)	480	3	5.4	2.0	DIS.SWITCH	VFD	3#12 & 1#12G	MCP	_		
PR23	BLEND TANK AGITATOR (AG10-02)	480	3	5.4	2.0	DIS.SWITCH	VFD	3#12 & 1#12G	MCP	_		
PR24	AGITATOR (AG50-02)	480	3	5.4	2.0	DIS.SWITCH	VFD	3#12 & 1#12G	MCP	_		
PR25	FLAVOR VAT DISCHARGE PUMP (CP50-01)	480	3	2.4	3.0	DIS.SWITCH	VFD	3#12 & 1#12G	MCP	_		
PR26	PAST. TANK CIP RETURN PUMP (CP30-02)	480	3	5.4	1.5	DIS.SWITCH	VFD	3#12 & 1#12G	MCP	AC+216MD14T-S		
PR27	NOT USED , , , , , , , , , , , , , , , , , , ,											
PR28	NOT USED											
PR29	NOT USED											
PR30	COP TANK CIRCULATION PUMP	480	3	4.8	3.0	DIS.SWITCH	VFD	3#12 & 1#12G	PP-HV1	4' COP sink		
PR31	CIP SYSTEM SUPPLY PUMP (CP90-01)	480	3	17.5	10.0	DIS.SWITCH	VFD	3#10 & 1#10G	MCP	C-216		
PR32	FLAVOR VAT#1 AGITATOR (AG50-01)	480	3	5.4	2.0	DIS.SWITCH	VFD	3#12 & 1#12G	MCP	_		
PR33	FLAVOR VAT#2 AGITATOR (AG60-01)	480	3	5.4	2.0	DIS.SWITCH	VFD	3#12 & 1#12G	MCP	_		
PR34	FLAVOR VAT#3 AGITATOR (AG70-01)	480	3	5.4	2.0	DIS.SWITCH	VFD	3#12 & 1#12G	MCP	_		
PR35	PREP KETTLE DISCHARGE PUMP (FUTURE)	480	3	4.8	3.0	DIS.SWITCH	VFD	¾" CONDUIT	MCP	AC+216MD14T-S		
PR36	RAW MILK STORAGE TANK (FUTURE)	480	3	3.4	2.0	DIS.SWITCH	SINGLE SPEED	¾" CONDUIT	MCP	_		
PR37	RAW CREAM STORAGE TANK (FUTURE)	480	3	3.4	2.0	DIS.SWITCH	SINGLE SPEED	¾" CONDUIT	MCP	_		
PR38	MILK RECEIVING PUMP (FUTURE)	480	3	3.4	2.0	DIS.SWITCH	SINGLE SPEED	¾" CONDUIT	MCP	_		
PR39	HOT WATER PUMP (CP80-01)	480	3	12.5	5.0	DIS.SWITCH	VFD	3#12 & 1#12G	MCP	_		
PR40	AIR COMPRESSOR (WABCO TO PROVIDE)	480	3	3.4	2.0	DIS.SWITCH		3#12 & 1#12G		WABCO		
PR41	44QT BATCH FREEZER	208	3	30.8	11.0	DIS.SWITCH		3#8 & 1#10G	PP-1	44BLT		
PR42	WCB FREEZER	460	3									

	REFRIGERATION EQUIPMENT SCHEDULE												
ITEM NO.	. DESCRIPTION		PHASE	RLA	HP	OCPD(A)	WIRE SIZE	PANEL	LOCATION	MODEL			
R1	MILK TOTE COOLER (COMPRESSOR)	460	3	8.1	3.0	15	3#12 & 1#12G	PP-HV1	ROOF	BZT030M6D			
R1a	MILK TOTE COOLER (EVAPORATOR)	460	1	10.0		20	2#12 & 1#12G	PP-HV1	TOTE REFRI.	ADT260MK			
R2	STORAGE FREEZER (COMPRESSOR)	460	3	37.6	22.0	60	3#8 & 1#10G	PP-HV1	ROOF	BDT2200L6D			
R2a	STORAGE FREEZER (EVAPORATOR)	460	3	48.3		80	3#4 & 1#8G	PP-HV1	STORAGE FREEZER	BHL840DPA			
R3	MIX IN FREEZER (COMPRESSOR)	460	3	10.6	5.5	20	3#12 & 1#12G	PP-HV1	ROOF	BZT055L6D			
R3a	MIX IN FREEZER (EVAPORATOR)	460	1	14.2		20	2#12 & 1#12G	PP-HV1	MIX IN FREEZER	LET180MK			
R4	BAKERY FRIDGE (COMPRESSOR)	460	3	6.8	2.0	15	3#12 & 1#12G	PP-HV1	ROOF	BZT020M6D			
R4a	BAKERY FRIDGE (EVAPORATOR)	460	1	6.4		15	2#12 & 1#12G	PP-HV1	BAKERY FRIDGE	ADT208MK			
R5	BLAST FREEZER (COMPRESSOR)	460	3	61.8	30.0	100	3#4 & 1#10G	PP-HV1	ROOF	BLV3001L6D			
R5a	BLAST FREEZER (EVAPORATOR)	208	3	52.3		70	3#4 & 1#8G	PP-HV1	BLAST FREEZER	BHL560CA			

-ALL RECEPTACLES IN THIS AREA SHOULD BE CIRCUITED TO PANEL "LP-1" CIRCUIT NUMBERS

NOTE: COORDINATE EXACT LOCATIONS, MAKE & FINAL FINISH WITH THE ARCHITECT.

-ALL BRANCH CIRCUITS LOCATED BELOW KITCHEN HOOD SHALL BE WIRED VIA 2 NO. OF RELAYS. REFER DETAIL

1−3#8 & 1#10G − 3/4" C.

-600 KVA DRY-TYPE XFMR. -4#8 & 1#10G - 3/4" C. 208V Y/480V. 1200AS 1200AF <u>MDP-2</u> J.B FOR LIGHTING FOR-TRANSFORMER ROOM ABOVE BOILER ROOM

TRANSFORMER LOCATION ABOVE BOILER ROOM PART PLAN E-300 1/8"=1'-0

CIRCUIT LEGEND

ALL CIRCUITS SHOWN ON THIS DWG. SHALL BE CONNECTED TO NEW PANELBOARDS WITH THE FOLLOWING PREFIXES, U.O.N.:

(CIRCUITING DENOTED # WITH PREFIX 'A') (CIRCUITING DENOTED # WITH PREFIX 'B') (CIRCUITING DENOTED # WITH PREFIX 'C')

PP-HV1 (CIRCUITING DENOTED # WITH PREFIX 'D') PP-HV2 (CIRCUITING DENOTED # WITH PREFIX 'E') **POWER DRAWING NOTES:**

1.ALL BRANCH CIRCUITS HOMERUNS ASSIGN INDICATED ON THIS PLAN SHALL BE CIRCUITED TO PANEL ASSIGNED ON THE PLANS, UNLESS OTHERWISE NOTED.

2. REFER TO DWG. E-001.00 FOR ELECTRICAL GENERAL NOTES, SYMBOL LIST & ABBREVIATIONS, AND TO FOR ADDITIONAL ELECTRICAL SPECIFICATIONS.

3. PANELS PP-3 & LP-2 ARE MOUNTED ON THE COLUMN WITH KINDORFF SUPPORT.

4. COORDINATE WITH THE SAGNAW MCP SHOP DRAWINGS FOR ELECTRICAL CONNECTION DETAILS FOR ALL 480V, 3 PHASE PROCESS EQUIPMENTS POWERED BY VFD'S.

KEYED WORK NOTES:

- ARCHITECT TO PROVIDE A HATCH AND LADDER TO ACCESS THE TRANSFORMER & MDP MOUNTED ABOVE THE BOILER ROOM CEILING.
- JUNCTION BOX HAS BEEN PROVIDED FOR LIGHTING. IN THE TRANSFORMER ROOM AND CONTRACTOR TO COORDINATE FIXTURES AND ASSOCIATED WIRING AT THE SITE.

