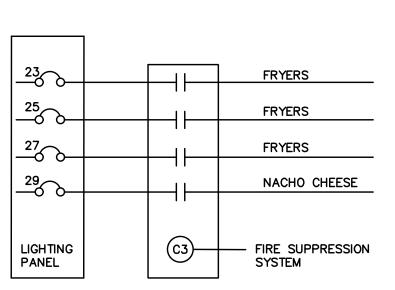


ELECTRICAL ROOF PLAN



EC TO PROVIDE CONTACTOR, SIZE AS REQUIRED, TO SHUTDOWN CIRCUITS NOTED UPON ACTIVATION OF FIRE SUPPRESSION SYSTEM. EC TO VERIFY CONTROL COIL VOLTAGE WITH HOOD SYSTEM SUPPLIER

FIRE SUPPRESION SYSTEM SHUTDOWN SCALE: NONE

GENERAL NOTES

- EC TO PROVIDE HANDLE TIE ON ALL MULTIWIRE BRANCH CIRCUITS PER NEC 210.4(B).
- 2. ALL SPARE CIRCUIT BREAKERS AND DISCONNECT SWITCHES SHALL BE LEFT IN THE OFF POSITION.
- 3. EC SHALL VERIFY THE VOLTAGE AND AMPERAGE REQUIREMENTS OF ALL EQUIPMENT DELIVERED TO THE SITE PRIOR TO CONNECTION. EC SHALL NOTIFY OWNER OF ANY DIFFERENCE.
- CIRCULATION OF AIR FROM WARMER TO COLDER SECTIONS OF INTERIOR RACEWAY SYSTEM EXPOSED TO WIDELY DIFFERENT TEMPERATURES SHALL BE PREVENTED. SEAL AS REQUIRED PER NEC 300.7(A). PROVIDE EXPANSION JOINTS FOR CONDUIT AS REQUIRED TO COMPENSATE FOR THERMAL EXPANSION AND CONTRACTION.

FIRE SUPPRESSION SYSTEM CONTROL NOTE:

EC SHALL BE RESPONSIBLE FOR ALL LINE VOLTAGE CONTROL WIRING FROM FIRE SUPPRESSION SYSTEM TO SHUNT TRIP BREAKER AND GAS VALVE. COORDINATE ALL WORK WITH HVAC CONTRACTOR.

KITCHEN RECEPTACLE NOTES

- ALL KITCHEN SINGLE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPERES OR LESS SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL PER NEC SECTION 210.8 (B) (1)-(10).
- ALL GFCI RECEPTACLES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION OR A GFCI CIRCUIT BREAKER SHALL USED TO FEED THE
- ALL 125V, 15A AND 20A CIRCUITS TO KITCHEN EQUIPMENT SHALL BE FED WITH A DEDICATED NEUTRAL WIRE.

KEYED NOTES

- (1) EC TO PROVIDE CONDUIT AND FEEDERS FROM HOOD CONTROLS TO (2) SWITCHES FURNISHED ON HOOD FOR HOOD LIGHTS AND EXHAUST/MAKE-UP AIR FANS.
- 42 HOOD TIMER PANEL HARD WIRED THRU CONDUIT ABOVE CEILING TO SAME CIRCUIT AS THE HOOD LIGHTS. BRACE CONDUIT TO CEILING. DO NOT ANCHOR TO HOOD. SEE DETAIL ON SHEET E3.
- EC TO PROVIDE JUNCTION BOX, ADJACENT TO SHOW WINDOW RECEPTACLE, WITH 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR 4G CRADLE POINT.
- ALL OUTLETS IN KITCHEN AND PREP AREA SHALL BE GFCI PROTECTED PER NEC 210.8.
- EC TO PROVIDE DUPLEX RECEPTACLE MOUNTED IN SOFFIT A MAXIMUM OF 18" ABOVE WINDOW OR 4" BELOW CEILING WHICHEVER IS LOWER FOR SHOW WINDOW REQUIREMENTS PER NEC 210.62. FIELD VERIFY LOCATION.
- 6 EC SHALL INSTALL HOOD CONTROL PANEL, FURNISHED BY HOOD MANUFACTURER, ABOVE SINK. ROUTE HOOD LIGHTS, FIRE SUPPRESSION, MAKEUP AIR AND EXHAUST FAN CIRCUITS THROUGH CONTROL PANEL AND EXTEND TO HOOD AND FANS, AS REQUIRED. SEE HOOD DRAWINGS FOR WIRING SCHEMATIC. CONTROL PANEL SHALL SHUT DOWN ALL REQUIRED CIRCUITS UPON ACTIVATION OF FIRE SUPPRESSION SYSTEM.
- EC TO PROVIDE DUPLEX RECEPTACLE AND COAXIAL OUTLET FOR TV MONITOR AT 7'-0" AFF.
- CIRCULATION OF AIR FROM WARMER TO COLDER SECTIONS OF INTERIOR RACEWAY SYSTEM EXPOSED TO WIDELY DIFFERENT TEMPERATURES SHALL BE PREVENTED. SEAL AS REQUIRED PER NEC 300.7(A). PROVIDE EXPANSION JOINTS FOR CONDUIT AS REQUIRED TO COMPENSATE FOR THERMAL EXPANSION AND CONTRACTION.
- GAS WATER HEATER ON WALL, EC TO PROVIDE RECEPTACLE HIGH ON WALL, AS DIRECTED E PLUMBING CONTRACTOR, FOR CONNECTION OF WATER HEATER CONTROLS.
- EC TO PROVIDE RECEPTACLE FOR EQUIPMENT BELOW HOOD AND ROUTE THROUGH CONTACTOR, BY EC, CONTROLLED BY FIRE SUPPRESSION SYSTEM TO SHUTDOWN CIRCUITS UPON ACTIVATION. EC TO PROVIDE GFCI CIRCUIT BREAKER IN PANEL NOTED.
- EC TO PROVIDE DISCONNECT SWITCH AND MAKE FINAL CONNECTION TO SELF EVAPORATING (11) COOLER/FREEZER CONDENSER UNIT MOUNTED ABOVE COOLER/FREEZER.
- APPROXIMATE LOCATION OF SERVER RACK. ALL DATA IS TO TERMINATE AT THIS LOCATION. TWO DOUBLE DUPLEX RECEPTACLES AND DATA FOR SERVER RACK SHOULD BE MOUNTED AT
- 7'-6" AFF AND A MINIMUM 12" AWAY FROM ELECTRICAL PANELS. MANUFACTURER PROVIDED, NEMA 3R, DISCONNECT SWITCH ON HOOD EXHAUST FAN, UNIT IS (13) INTERLOCKED WITH HOOD MAKEUP AIR FAN BY HOOD CONTROLS.
- MANUFACTURER PROVIDED, NEMA 3R, DISCONNECT SWITCH ON HOOD MAKEUP AIR FAN. UNIT (14) IS INTERLOCKED WITH HOOD EXHAUST FAN BY HOOD CONTROLS. EC SHALL PROVIDE DEDICATED 120 VOLT CIRCUIT FOR VFD IN SEPARATE CONDUIT. EC TO VERIFY ALL POWER CONNECTION REQUIREMENTS WITH HOOD SUPPLIER PRIOR TO ANY ROUGH-IN.
- HOT WATER RECIRCULATION PUMP (1/25HP) AND TIMER BY PLUMBING CONTRACTOR. EC TO PROVIDE GFI RECEPTACLE FOR CONNECTION AS DIRECTED BY PLUMBING CONTRACTOR.
- EC TO PROVIDE 208V, 3P/60AMP, NON-FUSED, NEMA 3R, DISCONNECT AT RTU-1. EC TO (16) PROVIDE NEW FEEDERS AND CONDUIT TO PANEL AS REQUIRED.
- EC TO PROVIDE 208V, 3P/60AMP, NON-FUSED, NEMA 3R, DISCONNECT AT RTU-2. EC TO PROVIDE NEW FEEDERS AND CONDUIT TO PANEL AS REQUIRED.
- EC TO PROVIDE WEATHER RESISTANT TYPE, GFI RECEPTACLE IN WEATHERPROOF WHILE IN
- USE COVER AT HVAC EQUIPMENT, COVER SHALL BE EXTRA DUTY RATED PER SECTION 406.9(B). CONNECT TO CIRCUIT #4 IN PANEL 'AB'.
- ROUTE CIRCUIT THROUGH TIME SWITCH CONTROLLED CONTACTORS.
- ROUTE THROUGH LIGHT SWITCH ADJACENT TO CASH COUNTER, SEE SHEET E1.
- EC TO ROUTE ROOF MOUNTED EQUIPMENT THROUGH TERMINAL BLOCK AT HOOD CONTROL PANEL. SEE SHEET HOOD DRAWING FOR WIRING DIAGRAM.
- EC TO PROVIDE DISCONNECT SWITCH ABOVE ACCESSIBLE CEILING FOR CONNECTION OF SHOW WINDOW SIGN. CONNECT TO SAME CIRCUIT AND CONTROLS TO SHOW WINDOW RECEPTACLE. FIELD VERIFY LOCATION WITH SIGN SUPPLIER.
- EC TO PROVIDE NEMA 3R, DISCONNECT SWITCH AND CIRCUIT FOR EXTERIOR SIGNS. EC SHALL VERIFY EXACT QUANTITY AND LOCATION OF SIGNAGE WITH FRANCHISEE PRIOR TO
- EC TO PROVIDE 120 VOLT, 30 AMP, DISCONNECT SWITCH AT 5'-0" AFF AND SEALTIGHT CONNECTION FOR ICE MACHINE. EC. TO PROVIDE (2)#10, (1)#10G IN 3/4" CONDUIT
- PANEL AND MAKE FINAL ELECTRICAL CONNECTION AS REQUIRED BY EQUIPMENT SUPPLIER. EC TO PROVIDE JUNCTION BOX AT 8'-0" AFF WITH STAINLESS STEEL COVER AND 3/4" conduit to above ceiling for future data cable.

11											
CIRCUIT BREAKER TYPE 200 AMP. MAIN LUGS ONLY A	PAI	NEL	_ B	OARD A (BY LANDLO	RD)			SURFAC	E M	OUN.	TED
Column					_			2. BUS <u>65/22</u> K.A.I.C. S	ERIES	RA [*]	TED
SOU STATE SOU SOUA STSIEM 1 20 2 2 2 3 3 50 3 8 7 50 1660 5040 TEA MACHINE 1 20 4 6 5 6 7 7 7 7 7 7 7 7 7					LOA	D- V.	A.	LOAD SERVED	NO. POLE	TRIP AMPS	CKT.
STATE STAT	1			<		<u> </u>		SODA SYSTEM	1	20	2
Solution	3 50	o 3	3	RTU-1			>	TEA MACHINE	1	20	4
1	5					1000		> SPARE	1	20	6
3480 SIDE WALL POS RECEPTACLE 1 20 10	7			<		>		MERCHANDISER	1	20	8
1	9 40	o 3	3	RTU-2	\		>	SIDE WALL POS RECEPTACLE	1	20	10
SPARE SPARE SOO	1							SPARE	1	20	12
SPARE SPARE SOO AND RECIRCULATION PUMP 1 20 10 10 10 10 10 10 10 10 10 10 10 10 10	3 20) 1	1	SPARE		>		POS/PRINTER RECEPTACLES	1	20	14
1 20 1 SPARE	15 20) 1	1	SPARE		800	>	WATER HEATER CONTROLS AND RECIRCULATION PUMP	1	20	16
21 20 1 SPARE	7 2) 1	1	SPARE			200		1	20	18
23 20 1 SPARE	9 2) 1	1	SPARE	800	>		POS/PRINTER RECEPTACLES	1	20	20
1250 SPARE 1 20 26 27 20 3 EXHAUST FAN EF-1 1250 SPARE 1 20 28 29 1250 SPARE 1 20 30 31 SPARE 1 20 30 32 SPARE 1 20 30 33 SPARE 1 20 30 35 SPARE 1 20 30 36 SPARE 1 20 30 37 SPARE 1 20 34 38 SPARE 1 20 34 39 100 3 PANEL AB SPARE 1 20 34 39 100 3 PANEL AB SPARE 1 20 34 30 SPARE 1 20 34 30 SPARE 1 20 34 31 SPARE 1 20 34 31 SPARE 1 20 34 32 SPARE 1 20 34 33 SPARE 1 20 34 34 SPARE 1 20 34 35 SPARE 1 20 34 36 SPARE 1 20 34 37 SPARE 1 20 34 38 SPARE 1 20 34 39 SPARE 1 20 34 30 SPARE 1 20	21 20) 1	1	SPARE		720	>	SERVER RACK	1	20	22
SPARE 1 20 26	23 20) 1	1	SPARE				> SPARE	1	20	24
27 20 3 EXHAUSI FAN EF-1	25			<	$\overline{}$	>		SPARE	1	20	26
1190 SPARE 1 20 30 30 30 30 30 30 30	27 20	o 3	3	EXHAUST FAN EF-1			>	SPARE	1	20	28
1190 ICE MACHINE 1 20 32 33 33 15 3 MAKE UP AIR FAN MAU-1 580 SPARE 1 20 34 36 37 39 100 3 PANEL AB 150 150 COOLER CONDENSER 2 20 40 42 42 42 42 42	29						1250 1190	SPARE	1	20	30
33 15 3 MAKE UP AIR FAN MAU-1	31			<		>		ICE MACHINE	1	20	32
5550 1050 FREEZER CONDENSER 2 20 38 38 39 100 3 PANEL AB 1150 COOLER CONDENSER 2 20 42	33 1	5 3	3	MAKE UP AIR FAN MAU-1			>	SPARE	1	20	34
37 38 38 38 38 38 38 38	35							FREEZER COMPENSER		00	36
1150 COOLER CONDENSER 2 20 42	37							FREEZEK CUNDENSEK	2	20	38
		0 3	3	PANEL AB				COOLER CONDENSER	2	20	40 42
	-				21440	19760		>			

LOAD DESCRIPTION	DEMAND FACTOR	VOLT - AMPS		
	D.F.	CONNECTED	DEMAND	
LIGHTING & FRONT SIGN	1.25	4940	6175	
RECEPTACLES	1st 10KVA @ 100% REMAINDER @ 50%	4120	4120	
MOTORS	ALL © 100% PLUS 25% OF LARGEST	9890	10825	
MISC. EQUIPMENT	1.00	1700	1700	
KITCHEN EQUIPMENT	NEC TABLE (220.56) 0.65	14630	9510	
KHVAC EQUIPMENT	1.00	25560	25560	
·	TOTAL —	60840	57890	

PANELBOARD LOAD = 57890 V.A. FULL LOAD AMPS = 160.8 A.

(LO PROVIDE LOCK-ON DEVICE) (TS CIRCUIT VIA TIMESWITCH) (GFI GFCI TYPE CIRCUIT BREAKER)
(PA PERMANENTLY INSTALLED PAD LOCK ATTACHMENT PER NEC 433.21 AMD 110.25) * HVAC LOAD BASED ON UNIT MCA WHICH INCLUDES 25% OF LARGEST MOTOR

PANEL BOARD AB 120/208 VOLTS 3 PHASE 4 WIRE 100 AMP. BUS 65/10 K.A.I.C. SERIES RATE CIRCUIT BREAKER TYPE 100 Aø Bø Cø TRACK LIGHTING (12'-0") COOLER/FREEZER LIGHTS 20 1 20 2 LO 3 20 1 1 20 4 HVAC GFI RECEPTACLES LO 5 | 20 | 1 LIGHTING CONTROLS 1 20 6 KITCHEN/STOCKROOM LIGHTS 1 20 8 20 1 REACH-IN REFRIGERATOR 20 1 SPARE 1 20 1 11 20 1 SHOW WINDOW (SIGN) REACH-IN FREEZER 1 20 12 1 20 1 TS 13 20 1 MAIN EXTERIOR SIGN TS 15 20 1 EXTERIOR SIGN 1 20 1 TS 17 20 1 TOASTER OVEN 1 20 1 EXTERIOR SIGN GFI 19 20 1 SPARE SHOW WINDOW RECEPTACLES 1 20 20 GFI 21 20 SANDWICH/SALAD TV MONITOR 1 20 2 FRYER CONTROLS AND GREASE FILTER
FRYER CONTROLS AND GREASE FILTER
FRYER CONTROLS AND GREASE FILTER 1 15 24 GFI 23 20 MAU-1 VFD CONTROLLER HOOD CONTROLS/LIGHTS GFI 25 20 1 | 15 | 26 GFI 27 20 1 HOOD GFI RECEPTACLE 1 | 15 | 28 1 20 3 GFI 29 20 1 NACHOS CHEESE DISPENSER

	5550 4680	5700		
LOAD DESCRIPTION	DEMAND FACTOR	VOLT - AMPS		
	D.F.	CONNECTED	DEMAND	
LIGHTING & FRONT SIGN	1.25	4940	6175	
RECEPTACLES	1st 10KVA @ 100% REMAINDER @ 50%	1000	1000	
MOTORS	ALL @ 100% PLUS 25% OF LARGEST			
MISC. EQUIPMENT	1.00	1300	1300	
KITCHEN EQUIPMENT	NEC TABLE (220.56) 0.65	8690	5650	
*HVAC EQUIPMENT	1.00			
	TOTAL-	15930	14125	

PANELBOARD LOAD = 14125 V.A. FULL LOAD AMPS = 39.2 A.

(LO PROVIDE LOCK-ON DEVICE) (TS CIRCUIT VIA TIMESWITCH) (GFI GFCI TYPE CIRCUIT BREAKER) * HVAC LOAD BASED ON UNIT MCA WHICH INCLUDES 25% OF LARGEST MOTOR

CONSULTANT:

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DISCLAIMER:

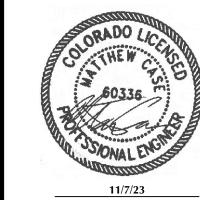
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PROJECT INFORMATION:

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CHECKED BY: MRC FOR PERMIT & BID 2023-11-06

DATE:

PROJECT LOCATION:

AURORA, CO

SHEET NUMBER: