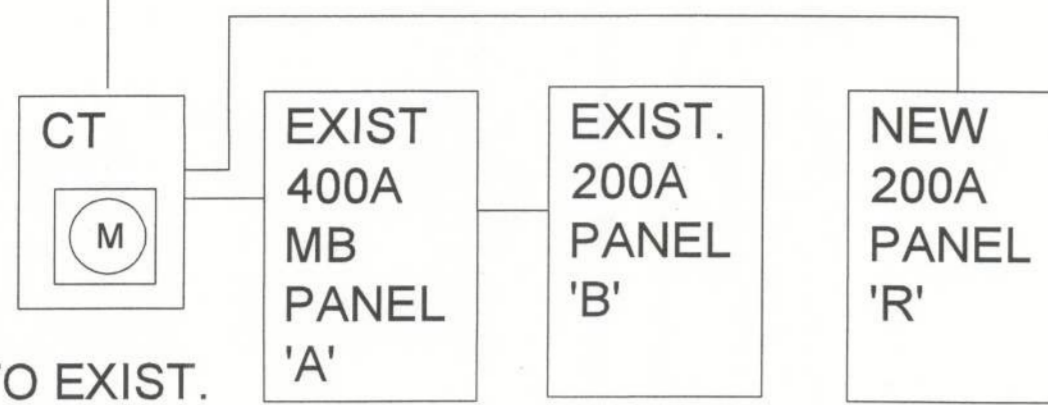


UPGRADE TO NEW 120/208V 3PH 4W
600A SERVICE
COORDINATE WEATHERHEAD
REQUIREMENTS WITH LOCAL UTILITY

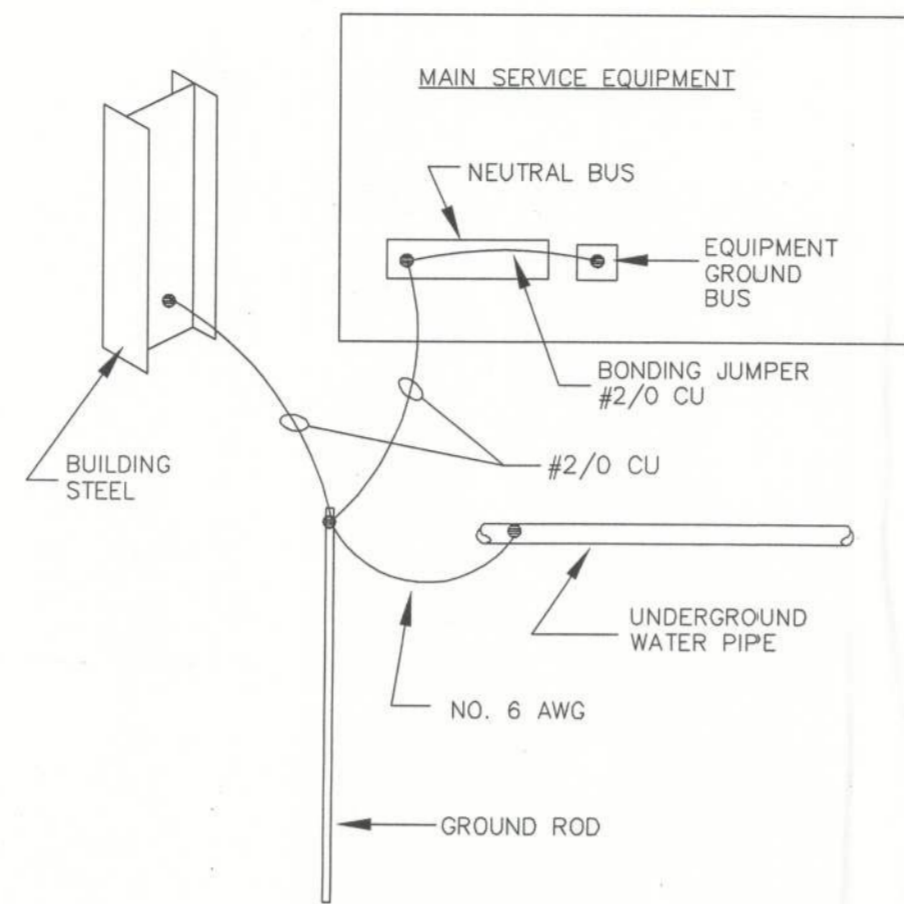


PROVIDE NEW TAP FROM CT TO EXIST. PANEL 'A' AND NEW TAP FROM CT TO NEW PANEL 'R'

FEEDER SCHEDULE

FEEDER AMPS	CONDUIT AND FEEDER	FEEDING THESE DEVICES
200	2" C, 3#3/0, #3/0N, #6G	R
400	(2)2" C, 3#3/0, #3/0N, #4G	A
600	(2)3" C, 3#350kcmil, #350kcmil N.	CT - SERVICE FEEDERS

SIZING METHOD: COPPER, 60°C #12 THROUGH #1, 75°C 1/0 AND ABOVE



ELECTRICAL SYSTEM GROUNDING AND BONDING

1. THE GROUNDING ELECTRODE CONDUCTOR AT THE MAIN SERVICE EQUIPMENT SHALL BE SIZED IN ACCORDANCE WITH NEC 250.66 AND AS SHOWN ON THE ADJACENT SKETCH.
2. THE MAIN BONDING JUMPER AT THE MAIN SERVICE EQUIPMENT SHALL BE SIZED IN ACCORDANCE WITH NEC 250.92 AND AS SHOWN ON THE ADJACENT SKETCH.
3. EQUIPMENT GROUNDING CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS MAY BE A COPPER OR CORROSION RESISTANT CONDUCTOR, RIGID METAL CONDUIT, INTERMEDIATE METAL CONDUIT, ELECTRICAL METALLIC TUBING, OR THE METALLIC SHEATH OR COMBINED METALLIC SHEATH AND GROUNDING CONDUCTORS OF TYPE MC CABLE.
4. WHERE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED IT SHALL BE SIZED IN ACCORDANCE WITH NEC 250.122.

RISER AND PANELBOARD
NOT TO SCALE

NEW TEMPORARY WALL AS REQUIRED TO CONCEAL NEW CONSTRUCTION AREA. FIELD LOCATE ACCESS POINT.

NEW BULKHEAD WALL OVER NEW COOLERS/FREEZERS, EXTEND STUDS TO DECK. GYP. BOARD TO 6" ABOVE CEILING. PROVIDE (2) TYP 36" X 24" ACCESS PANELS, ALIGNED WITH GRAPHICS.

NEW WALL CONSTRUCTION FLOOR TO UNDERSIDE OF ROOF DECK. PORTION OF WALL TO BE CONSTRUCTED AFTER COOLERS/FREEZERS ARE PLACED IN STAGING AREA.

FENCE TO BE BUILT AROUND THE ELEVATED PLATFORM. COORDINATE WITH PM ON SIZE, MATERIALS, AND EXACT LOCATION. PROVIDE LOCKABLE GATE.

2 X 12 WOOD BASE, PAINTED BLACK, 48" HIGH PLYWOOD (NOT PAINTED) INSTALLED ON TOP OF BASE AT THE RECEIVING AREA WALLS AND THE COOLER/FREEZER WALLS FOR PROTECTION.

DISC. FOR COMP. RACK.

ZERO ZONE VERTICAL COMPRESSOR RACK.

MAIN EMS PANEL (GX E2 400).

RECEIVING AREA 103 OCC. LOAD = 6

WALK-IN COOLER 7

WALK-IN FREEZER 7

PANEL 'R'

PANEL 'B'

PANEL 'A'

EMS PANEL

SERVICE ENTRANCE.

ELECT. PANEL & MOTOR FOR SCISSOR LIFT.

DISCONNECT FOR SCISSOR LIFT.

ALLOW APPROX. 5'-6" CLEARANCE FOR HYDRAULIC PALLET JACK TO MANUEVER.

FIELD LOCATE 6' x 10' SCISSOR LIFT

NEW TEMPORARY WALL AS REQUIRED TO CONCEAL NEW CONSTRUCTION AREA. FIELD LOCATE ACCESS POINT.

1 POWER PLAN

SCALE: 1/8" = 1'-0"

ROOM	VOLTS	PHASES	WIRE	AIC
MOUNTING SURFACE	208Y/120V	3P 4W		22,000
FED FROM WIREWAY	BUS AMPS 200	NEUTRAL 100%		MAIN BKR 200
NOTE				LUGS STANDARD

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	125/3	27	RACK SYSTEM	a 2	40/3	9.15	SCISSOR LIFT
3				b 4			
5				c 6			
7	20/1	1	4 DOOR ANTI-SWEAT HTR	a 8	20/1	1.8	WALK-IN ANTI-SWEAT HTR
9	20/1	1	4 DOOR ANTI-SWEAT HTR	b 10	20/1	1.8	WALK-IN EVAP FAN
11	20/1	1.25	5 DOOR ANTI-SWEAT HTR	c 12	20/1	0.6	WALK-IN LTS
13	20/1	1.25	5 DOOR ANTI-SWEAT HTR	a 14	20/1	1.8	EVAP COIL
15	20/1	1.25	5 DOOR ANTI-SWEAT HTR	b 16	20/1	1.8	EVAP COIL
17	20/1	1.25	5 DOOR ANTI-SWEAT HTR	c 18	20/1	1.8	EVAP COIL
19	20/1	1.25	5 DOOR ANTI-SWEAT HTR	a 20	20/1	1.8	EVAP COIL
21	20/1	1.25	5 DOOR ANTI-SWEAT HTR	b 22	20/1	1.8	EVAP COIL
23	20/1	1.16	CASE LIGHTS	c 24	20/1	1.8	EVAP COIL
25	20/2	3	RACK CONTROL SYSTEM	a 26	20/1	1.8	EVAP COIL
27				b 28	20/1	1.8	EVAP COIL
29	20/1	0	SPACE	c 30	20/1	0	SPACE
31	20/1	0	SPACE	a 32	20/1	0	SPACE
33	20/1	0	SPACE	b 34	20/1	0	SPACE
35	20/1	0	SPACE	c 36	20/1	0	SPACE
37	20/1	0	SPACE	a 38	20/1	0	SPACE
39	20/1	0	SPACE	b 40	20/1	0	SPACE
41	20/1	0	SPACE	c 42	20/1	0	SPACE

	CONN. KVA	CALC. KVA		CONN. KVA	CALC. KVA
LIGHTING	1.76	2.2 (125%)	CONTINUOUS	0	0 (125%)
LARGEST MOTOR	0	0 (125%)	HEATING	9.5	9.5 (100%)
OTHER MOTORS	0	0 (100%)	NONCONTINUOUS	57.1	57.1 (100%)
RECEPTACLES	0	0 (50%+D)	KITCHEN EQUIP	0	0 (N/A)
Continuous	0	0 (0%)	NONCON/DIVERSE	0	0 (N/A)
Continuous	0	0 (0%)	TOTAL KVA	68.4	68.8
			BALANCED THREE PHASE AMPS	191	
			PHASE BALANCE PERCENT: PHASE A 106%	PHASE B 106%	PHASE C 87.3%

ELECTRICAL KEYED NOTES

1. ELECTRICAL SERVICE SHALL BE UPGRADED TO 600 AMPERES, AS INDICATED.
2. PROVIDE 208V, 3PH CONNECTION TO SCISSOR LIFT. PROVIDE L15-20R RECEPTACLE MOUNTED IN WEATHERPROOF ENCLOSURE. COORDINATE EXACT LOCATION WITH LIFT VENDOR. IF REQUIRED BY LOCAL CODE, PROVIDE 30A PULL-OUT DISCONNECT, 1/2" CORDSET FOR CONTROL PROVIDED BY OTHERS.
3. REMOVE ALL LIGHTING AND RECEPTACLES WITHIN DEMOLITION AREA. REFER TO SHEET A-1. RESERVE LIGHTING FIXTURES FOR RE-USE OR DISPOSITION BY DG PROJECT MANAGER.
4. PROVIDE 120V ELECTRICAL CONNECTION TO REACH-IN COOLER/FREEZER DOOR ANTI-SWEAT HEATERS. COORDINATE EXACT LOCATION WITH VENDOR AND INSTALL PER MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE CODES. THIS CONNECTION SHALL BE BY VENDOR. REFER TO SHEET E-2.
5. PROVIDE 120V ELECTRICAL CONNECTION TO WALK-IN COOLER/FREEZER DOOR ANTI-SWEAT HEATERS. COORDINATE EXACT LOCATION WITH VENDOR AND INSTALL PER MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE CODES. CIRCUIT TO CIRCUITS RENDERED SPARE BY REMOVAL OF EXISTING COOLERS/FREEZERS.
6. PROVIDE 120V CONNECTION TO EVAPORATOR FAN WITH MOTOR RATED SWITCH, AT UNIT, SERVING AS MEANS OF DISCONNECT. SWITCH SHALL BE RATED TO HANDLE FULL LOAD OF UNIT. COORDINATE EXACT LOCATION AND FINAL LOAD WITH VENDOR PRIOR TO ORDERING SWITCH. CIRCUIT TO CIRCUITS RENDERED SPARE BY REMOVAL OF EXISTING COOLERS/FREEZERS.
7. PROVIDE 120V ELECTRICAL CONNECTION TO WALK-IN COOLER/FREEZER LIGHTS. COORDINATE EXACT LOCATION WITH VENDOR AND INSTALL PER MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE CODES. CIRCUIT TO CIRCUITS RENDERED SPARE BY REMOVAL OF EXISTING COOLERS/FREEZERS.
8. VERTICAL COMPRESSOR RACK FURNISHED AND INSTALLED BY OTHERS. FEED FROM NEW PANEL 'R' WITH #1/0 CU & #6 GND IN 2" C. CONFIRM EXACT LOCATION AND LOADS WITH VENDOR PRIOR TO ROUGH-IN. THIS CONNECTION SHALL BE MADE BY VENDOR.
9. FURNISH AND INSTALL 30A/3P, NEMA 3R DISCONNECT, FUSED AS PER MFG INSTRUCTIONS. FEED FROM PANEL 'R' WITH #10 CU & #12GND, 3/4" C. THIS CONNECTION SHALL BE MADE BY VENDOR.
10. CONDENSER UNIT FURNISHED AND INSTALLED BY OTHERS. FEED FROM DISCONNECT PROVIDED IN NOTE 9 ABOVE. COORDINATE EXACT LOCATION WITH VENDOR AND INSTALL PER MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE CODES. CIRCUIT TO CIRCUITS RENDERED SPARE BY REMOVAL OF EXISTING COOLERS/FREEZERS.
11. ALL CONNECTIONS TO NEW REFRIGERATION UNITS SHALL BE BY OTHERS. THIS CONTRACTOR SHALL SUPPLY PANEL 'R' FOR CONNECTIONS BY OTHERS. LOADS INDICATED ARE FOR SIZING OF PANELBOARD.
12. REMOVE AND REPLACE EXISTING POWER POLES AS REGISTERS. RECONNECT TO EXISTING CIRCUITS. INSTALL ADDITIONAL POWER FOR 3RD AND 4TH REGISTER PER DOLLAR GENERAL STANDARDS, CONNECTED TO SPARE CIRCUITS.