GREASE INTERCEPTOR SIZING

(GREASE INTERCEPTOR PRETREATEMENT CAPACITY FOR FAST FOOD) 10 GAL x 98 SEATS = 980 GAL REQUIRED

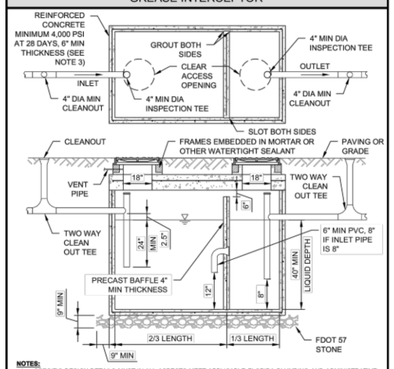
GREASE INTERCEPTOR CAPACITY = 1,250 GAL PROVIDED

GREASE INTERCEPTOR SIZED PER "TABLE 2310-4: SIZING REQUIREMENTS FOR GREASE INTERCEPTORS" OF THE ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL

NOTES:
1. SET ON 0'-4" OF STRUCTURAL BACKFILL
2. INTERIOR DIMENSIONS CHANGES ALLOWED TO ACCOMPLISH SIMILAR VOLUME.
3. TRAP CAPACITY SUBJECT TO APPROVAL BY ORANGE COUNTY UTILITIES. CONSTRUCTION OF INTERCEPTOR MUST MEET OR EXCEED OC STANDARD A307-1. INTERCEPTOR MUST MEET H-20 TRAFFIC LOAD REQUIREMENTS WHEN REQUIRED BY ORANGE COUNTY UTILITIES.

APPENDIX A — STANDARD DRAWINGS

GREASE INTERCEPTOR

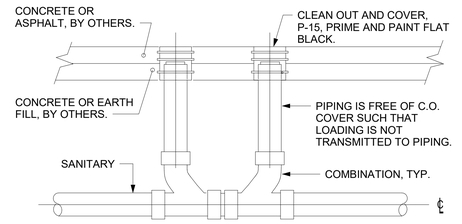


NOTES:
1. SPECIFIC DESIGN DETAILS MUST IN ALL ASPECTS MEET APPLICABLE FLORIDA PLUMBING AND ADMINISTRATIVE CODE.
2. SIZE GREASE INTERCEPTOR PER OCU MANUAL, SECTION **2310**. MINIMUM SIZE 750 GAL; MAXIMUM SIZE 1250 GAL.
3. INTERCEPTORS SHALL BE MONOLITHIC, WATER AND GAS TIGHT. SECTIONAL TANKS SHALL NOT BE PERMITTED.
4. ALL FIXTURES LOCATED IN FOOD AND BEVERAGE PREPARATION AREAS SHALL BE ROUTED THOUGH GREASE INTERCEPTOR. RESTROOM WASTE SHALL NOT BE ROUTED THROUGH INTERCEPTOR.
5. BAFFLE REQUIRED; ALTERNATIVE DESIGNS ARE ACCEPTABLE. DESIGN MUST MEET FLORIDA PLUMBING AND ADMINISTRATIVE CODE.
6. LOADS: H-20 TRUCK WHEELS WITH 30% IMPACT PER AASHTO. TRAFFIC BEARING FRAME AND COVER TO MEET FDOT STANDARDS IF APPLICABLE.

ORANGE COUNTY UTILITIES — FIGURE A308-1
STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL — 10/10/2021

5. SHEET NOTES

1. COORDINATE INSTALLATION OF SANITARY PIPING WITH FOOTINGS IN THE FIELD. SLEEVE PENETRATIONS IN FOOTINGS WITH PVC.
2. COMBINATION WASTE AND VENT SYSTEM SHOWN HERE. WHERE REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION, PROVIDE SAFE-WASTE SYSTEM OR DEDICATED VENT SYSTEM AS OUTLINED IN STATE AND LOCAL CODE AMENDMENTS.
3. ALL WATER PIPING INSTALLED WITHIN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF THE INSULATION.
4. ALL VENT PIPING TO BE 2" DIAMETER MIN U.N.O. SEE 1/P-301 FOR VENT LAYOUT.



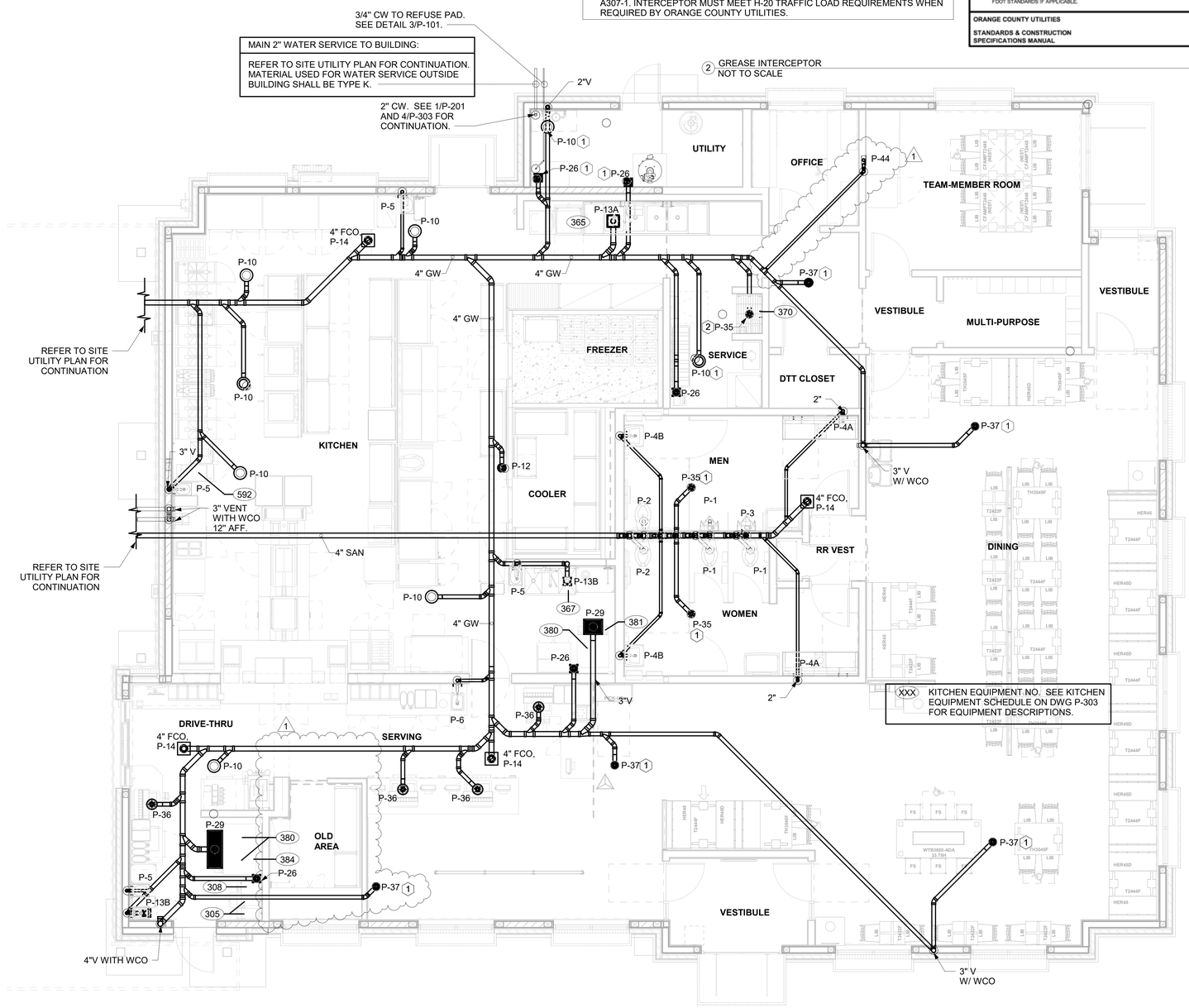
4 SAN. C.O. OUTSIDE BUILDING
NOT TO SCALE

KEY NOTES

1 PROVIDE TRAP SEAL PROTECTOR P-26A.
2 INSTALL FLOOR DRAIN P-35 AT MOP SINK DEPRESSION WITH TOP OF STRAINER 0'-7" BFF.

MAIN 2" WATER SERVICE TO BUILDING:

REFER TO SITE UTILITY PLAN FOR CONTINUATION. MATERIAL USED FOR WATER SERVICE OUTSIDE BUILDING SHALL BE TYPE K.

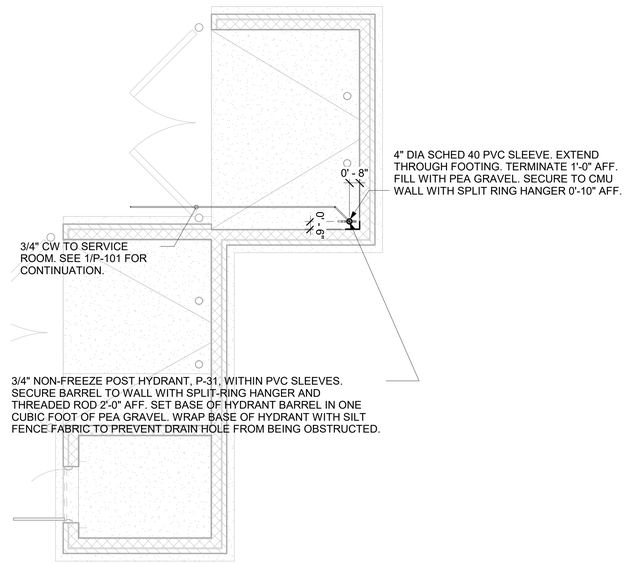


2 GREASE INTERCEPTOR
NOT TO SCALE

XXX KITCHEN EQUIPMENT NO. SEE KITCHEN EQUIPMENT SCHEDULE ON DWG P-303 FOR EQUIPMENT DESCRIPTIONS.

1 BELOW SLAB PLUMBING PLAN
1/4" = 1'-0"

METHOD OF DRAINAGE AT REFUSE PAD -
WHEN AREA DRAIN IS SHOWN ON CIVIL PLANS, SEE FIXTURE P-32 SPECIFICATION ON DRAWING P-901 FOR MAKE AND MODEL OF DRAIN. DRAIN AND PIPING PROVIDED AND INSTALLED BY CHICK-FIL-A SITE CONTRACTOR. WHEN AREA DRAIN IS NOT SHOWN, REFER TO ARCHITECTURAL DRAWINGS FOR DESIGN OPTION SHOWING DRAINAGE THROUGH BACK OF DUMPSTER ENCLOSURE.



3 REFUSE PAD PLUMBING PLAN
1/4" = 1'-0"

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

GPD GROUP, INC.
LIC. # - 30920
520 S. MAIN STREET, SUITE 2531
AKRON, OH 44311

CHICK-FIL-A HUNT CLUB

2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571

BUILDING TYPE / SIZE: P13 SE LRG
RELEASE: v2.21.05
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	06/15/22	Bulletin 1

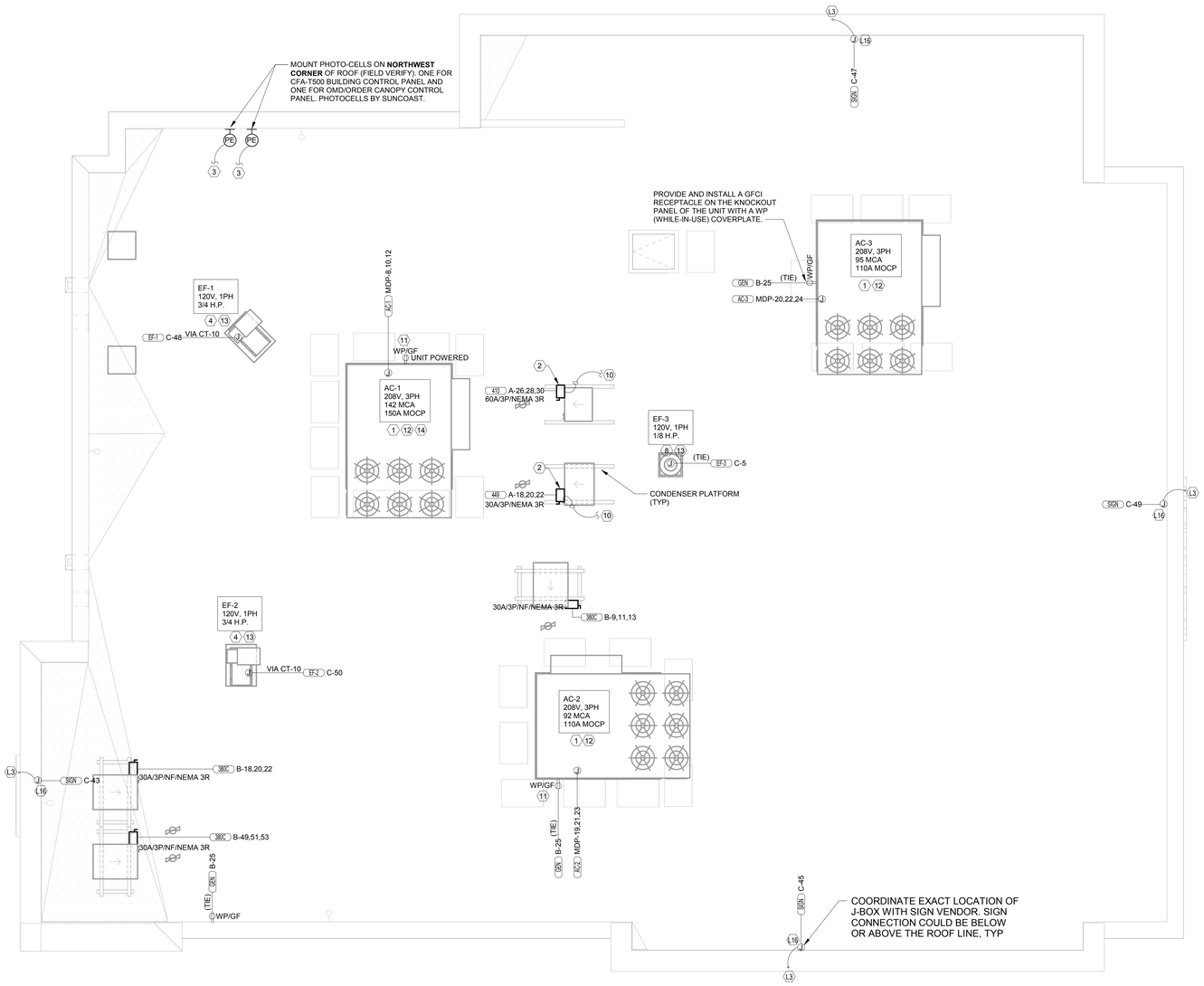
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SHEET
BELOW SLAB PLUMBING PLAN

SHEET NUMBER
P-101

7/18/2022 3:58:02 PM BIM 360://FL_04571_Hunt Club_2021.11_FSR/04571_Hunt Club_PLB.rvt
40-SE-04571-I-P-101-BELOW SLAB PLUMBING PLAN



B1 ROOF POWER PLAN - LRG

1/4" = 1'-0"

NOTE: REFER TO MECHANICAL DRAWINGS FOR ROOFTOP PACKAGED AC UNIT SCHEDULE. ALL UNITS ARE FURNISHED WITH FACTORY INSTALLED DISCONNECT SWITCH. REFER TO SAME SCHEDULE FOR INDICATION OF UNITS FURNISHED WITH FACTORY RECEPTACLE FOR COMPLIANCE WITH NEC 210-63.

LIGHTING PLAN KEYNOTES

- L3 FOR SIGNAGE BY OTHERS; CONNECT AS REQUIRED. GROUND ALL LOCATIONS IN ACCORDANCE WITH NEC AND MANUFACTURER'S REQUIREMENTS. SIGN IS FURNISHED WITH AN INTEGRAL PRE-WIRED DISCONNECTING MEANS.
- L16 ROUTE THROUGH CONTROL PANEL CFA-T500 AND CONTROLLED BY OCCUPIED SWITCH AND PHOTOCELL.

ROOF POWER KEYNOTES

1. ROUTE ELECTRICAL CONDUITS TO UNIT CONNECTIONS THROUGH WEATHERPROOF RACEWAY FURNISHED WITH UNIT. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATIONS.
2. MOUNT WEATHER-PROOF FUSED DISCONNECT SWITCHES FOR WIC AND WIF CONDENSERS ON UNISTRUT WITH CONDUIT DOWN INTO CEILING SPACE BELOW THRU ROOF PENETRATION DEVICE (NOT THRU ROOF). SEE THE ARCHITECTURAL ROOF PENETRATION DETAIL(S) FOR FURTHER INFORMATION. PROVIDE FUSE SIZE PER MANUFACTURER REQUIREMENTS.
3. CONNECT ONE PHOTOCELL ON ROOF TO THE CFA-T500 CONTROL PANEL TERMINALS AND ONE PHOTOCELL ON ROOF TO THE ORDER/OMD CANOPY CONTROL PANEL AS DIRECTED BY SUNCOAST ENVIRONMENTAL INC WIRING DIAGRAMS. PHOTOCELLS ON THE ROOF FURNISHED WITH CONTROL PANELS ORDER (SUNCOAST) AND INSTALLED BY CONTRACTOR.
4. COORDINATE EXACT LOCATION OF CONDUIT AND DISCONNECT AT EXHAUST FAN. CONDUIT SHALL BE INSTALLED THROUGH ROOF ON OUTSIDE OF FAN CURB. CONDUIT SHALL BE LOCATED AT FAN HINGE SUCH THAT THE FAN HOOD CAN BE FULLY HINGED OPEN AND NOT TOUCH THE CONDUIT. PROVIDE 14" DIAMETER LOOP IN THE FLEXIBLE CONDUIT BETWEEN THE ROOF AND THE FAN ELECTRICAL CONNECTION.
8. COORDINATE EXACT LOCATION OF CONDUIT AND DISCONNECT AT EXHAUST FAN. CONDUIT SHALL BE ROUTED WITH DUCTWORK WITHIN FAN ROOF CURB AND TO THE FAN WIREWAY. PROVIDE SEALTIGHT FITTINGS AS THE CONDUIT ENTERS AND LEAVES THE DUCTWORK. INTERLOCK WITH LIGHTING CIRCUIT IN RESTROOM. REFER TO THE LIGHTING PLAN FOR CONTINUATION.
10. CONNECT POWER FROM EACH CONDENSING UNIT'S COMPRESSOR CONTACTOR TO THE EVAPORATOR COIL UNIT'S JUNCTION BOX BELOW. REFER TO ENLARGED KITCHEN POWER PLAN FOR LOCATION.
11. CONVENIENCE RECEPTACLE PROVIDED PRE-INSTALLED IN HVAC UNIT. CONNECT TO 120 VOLT CIRCUIT AS REQUIRED AND/OR AS INDICATED. (NOTE THAT ONE UNIT WILL NOT BE FURNISHED WITH AN INTEGRAL PRE-INSTALLED RECEPTACLE OUTLET. CONTRACTOR SHALL PROVIDE A GFCI TYPE 20 AMP RECEPTACLE WITH IN-USE WP COVERPLATE MOUNTED TO THE OUTSIDE OF THE ROOFTOP AC UNIT.)
12. A/C UNIT DISCONNECT IS FURNISHED WITH A/C UNIT AND SHALL BE CONNECTED BY THE CONTRACTOR.
13. EXHAUST FAN IS FURNISHED WITH A PREWIRED DISCONNECT.
14. PROVIDE DISCONNECT SWITH WITH CURRENT LIMITING FUSES. E.C. SHALL COORDINATE WITH MECHANICAL PLANS AND EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.

POWER PLAN GENERAL NOTES

1. ALL SECURITY, POS, MUSIC, COMMUNICATIONS, AND POWER ROUGH-IN SHALL BE INSTALLED DURING THE FRAMING/ROUGH-IN PHASE OF CONSTRUCTION.
2. REFER TO KITCHEN EQUIPMENT SHEETS FOR EQUIPMENT ELECTRICAL ROUGH-IN ELEVATIONS ABOVE FINISHED FLOOR.
3. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRING.
4. PROVIDE INSULATED BUSHING AT TERMINATION POINTS OF ALL CONDUITS FOR LOW VOLTAGE WIRING.
5. THE ELECTRICAL INSTALLER SHALL COORDINATE THE ROUTING OF ALL CONDUIT IN THE BUILDING WITH OTHER TRADES (SPECIFICALLY THE DUCTWORK INSTALLATION) TO AVOID CONFLICTS OF SPACE REQUIREMENTS IN WALLS AND CEILING SPACES.

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

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STEVEN P. SCHAUB
LICENSE No. 75207
STEVEN P. SCHAUB LICENSE No 75207 STATE OF FLORIDA PROFESSIONAL ENGINEER
05/23/22

CHICK-FIL-A HUNT CLUB

2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571

BUILDING TYPE / SIZE: P13 SE LRG
RELEASE: v2_21.08
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NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 202122329
DATE 12/08/21
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SHEET
ROOF POWER PLAN

SHEET NUMBER
E-250L

5/23/2022 9:32:34 AM BIM 360://FL_04571_Hunt Club_2021.11_FSR/04571_Hunt Club_ELE.rvt
50-SE-04571-E-250L-ROOF POWER PLAN

NOTE OF SPECIAL IMPORTANCE:

BELOW-SLAB BEVERAGE CONDUIT SHALL BE 6" DIAMETER SCHED 40 DWV SOLID WALL, NO FOAM CORE ALLOWED. USE LONG RADIUS ELBOWS (A.K.A. SWEEPS) ON ALL BEVERAGE CONDUIT. PLEASE NOTE BEVERAGE CONDUIT ROUGH-IN LOCATIONS ARE MEASURED TO THE FRACTION OF AN INCH. CARE MUST BE TAKEN WHEN INSTALLING 6" DIAMETER CONDUIT LOCATED WITHIN A 2X8 WALL. THE MARGIN FOR ERROR IS ONLY 1/16TH INCH.

IMPORTANT NOTE TO INSTALLER

EXERCISE CAUTION WHEN LOCATING ROUGH-INS AT:
-DRIVE THRU AREA
-CUSTOMER WAIT AREA
DO NOT PULL TAPE FROM THE SLAB EDGE AT THESE AREAS WITHOUT COMPENSATING FOR DIFFERENCE IN OFFSETS. NOTE OFFSET AT BACK CORNER OF BUILDING.

VAPOR MITIGATION SYSTEM NOTE

VMS ITEMS SHOWN ON PLAN ARE VAPOR MITIGATION SYSTEM VENT RISER LOCATIONS. REFER TO VAPOR MITIGATION SYSTEM SHOP DRAWINGS FOR ADDITIONAL INFORMATION.

MOP SINK NOTE

IMPORTANT: INSTALL P-35 FLOOR DRAIN WITH TOP OF DRAIN 0'-7" BFF. COORDINATE WITH GENERAL CONTRACTOR. SEE ARCHITECTURAL AND STRUCTURAL PLANS.

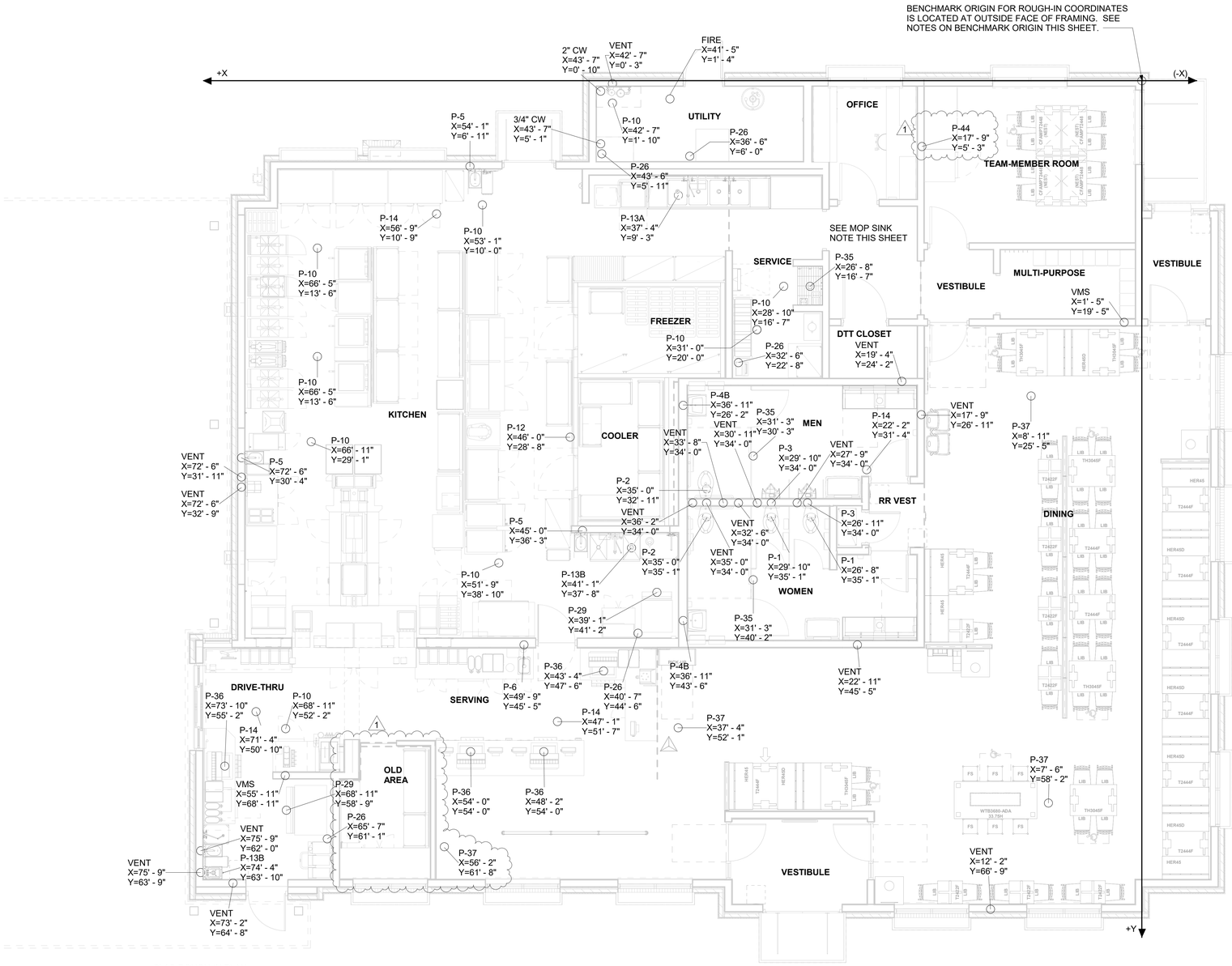
COORDINATE LEGEND

TYPE	EXAMPLE	PIPE COORDINATES
#1	CW X=43'8" Y=14'7"	APPLIES TO WATER PIPING ROUGH-IN PENETRATION ONLY. SEE P-101 FOR CONTINUATION.
#2	VENT X=43'8" Y=14'7"	APPLIES TO DWV PENETRATION ONLY.
#3	6" BEV COND X=43'8" Y=27'3"	APPLIES TO 6" BEVERAGE CONDUIT PENETRATION ONLY.

NOTE: TRAP PRIMER PIPING NOT SHOWN ON THIS PLAN. SEE 1/P-101 FOR TRAP PRIMER LOCATIONS.

NOTES ABOUT (0,0) BENCHMARK ORIGIN

1. THE (X=0, Y=0) BENCHMARK ORIGIN IS LOCATED AT THE OUTSIDE FACE OF FRAMING FOR THE EXTERIOR WALL AT THE CORNER WHERE SHOWN ON THE ADJACENT PLAN.
2. IT IS EXTREMELY IMPORTANT FOR THE PLUMBING INSTALLER TO BECOME COMPLETELY FAMILIAR WITH THE FACE-OF-FRAMING POSITION AND ITS RELATION TO THE FLOOR SLAB CONSTRUCTION PRIOR TO BEGINNING THE UNDERSLAB PLUMBING ROUGH-IN..
3. PLUMBING CONTRACTOR SHALL REVIEW STRUCTURAL DETAIL "TYPICAL SECTION @ EXTERIOR WALL" FOR PRECISE LOCATION OF FACE-OF-FRAMING WITH RESPECT TO THE SLAB INSTALLATION PRIOR TO LOCATING SLAB ROUGH-INS.



1 SLAB ROUGH-IN PLAN
1/4" = 1'-0"

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
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GPD GROUP, INC.
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520 S. MAIN STREET, SUITE 2531
AKRON, OH 44311

CHICK-FIL-A HUNT CLUB

2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571

BUILDING TYPE / SIZE: P13 SE ALL
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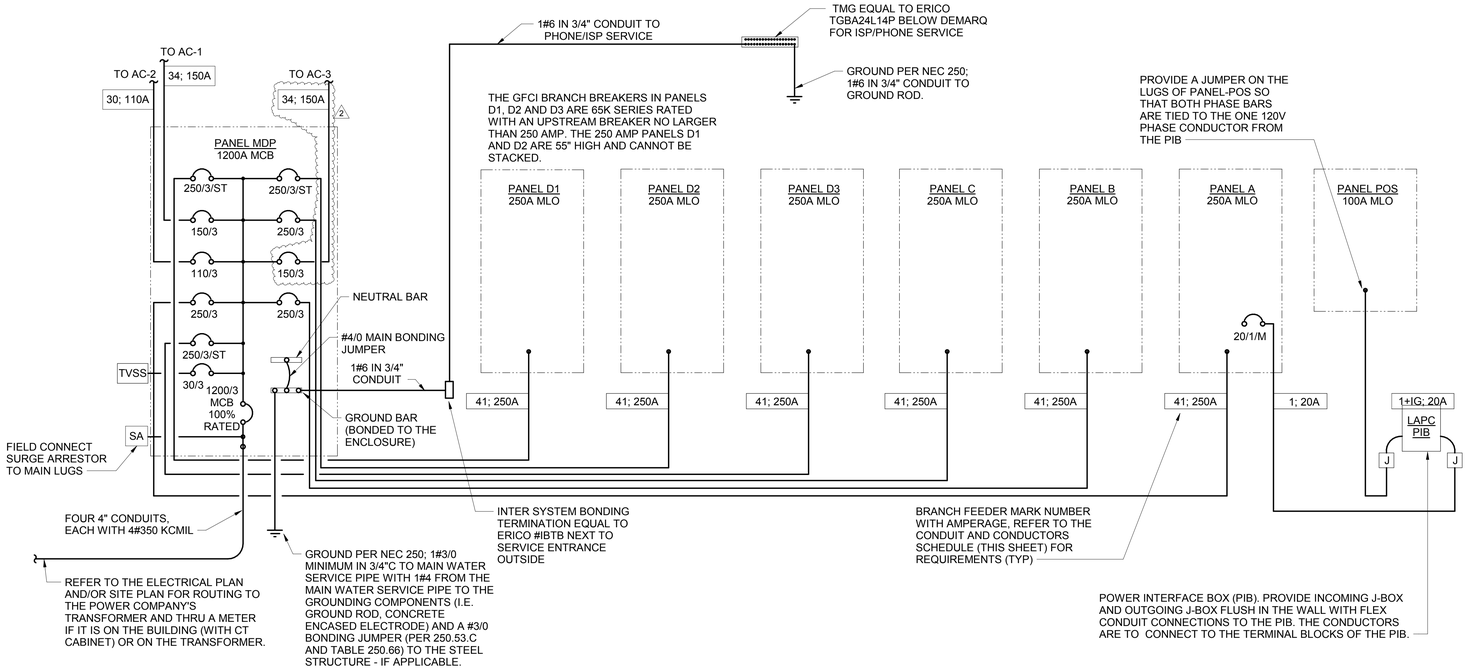
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DATE 12/08/21
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SHEET
SLAB ROUGH-IN PLAN

SHEET NUMBER
P-221

7/18/2022 3:58:30 PM BIM 360://FL_04571_Hunt Club_2021.11_FSR04571_Hunt Club_PLB.rvt
40-SE-04571-P-221-SLAB ROUGH-IN PLAN



C2 SINGLE LINE DIAGRAM

NO SCALE

SINGLE-LINE DIAGRAM NOTES

1. VERIFY SERVICE LOCATIONS AND CONFORM TO THE REQUIREMENTS OF THE POWER COMPANY AND/OR DEVELOPER. POWER COMPANY AND/OR DEVELOPER SHALL BE CONTACTED PRIOR TO BEGINNING CONSTRUCTION TO ARRANGE AND VERIFY FOR THE INSTALLATION OF THE POWER COMPANY SERVICE, METER, AND OTHER ITEMS.
2. GROUND ALL EQUIPMENT AND SERVICES IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, LOCAL APPLICABLE CODES, AND ALSO AS INDICATED ON DRAWINGS.
3. MAKE NECESSARY INSPECTIONS OF EXISTING SITE AND SERVICE LOCATIONS AS REQUIRED FOR THIS WORK AND MAKE ALLOWANCE FOR EXISTING CONDITIONS BEFORE SUBMITTING BID. VERIFY WORK REQUIRED WITH POWER COMPANY AND TELEPHONE COMPANY.
4. CUT AND PATCH THE CONSTRUCTION WORK AS REQUIRED FOR PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PATCHING SHALL MATCH THE SURROUNDING WORK TO THE SATISFACTION OF THE ARCHITECT. ALL CONDUIT SHALL BE INSTALLED CONCEALED UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT. COORDINATE SAW CUTTING WITH LANDLORD'S OR OWNER'S REPRESENTATIVE.
5. WIRE AND CABLE:
   A. CONDUCTORS SHALL BE COPPER, #12 AWG, MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE.
   B. CONDUCTOR #10 AWG AND SMALLER SHALL BE SOLID AND #8 AWG AND LARGER SHALL BE STRANDED. INSULATION SHALL BE 600 VOLT, THHN/THWN.
6. PROVIDE ENGRAVED LAMINATED PHENOLIC BLOCK-ON-WHITE (UNLESS NOTED OTHERWISE) NAMEPLATES SECURED TO EQUIPMENT WITH ADHESIVE AND SCREWS FOR PANELBOARDS, RELAY CABINETS, TRANSFORMERS, DISTRIBUTION BOARDS, AND MAIN PANELBOARD - IDENTIFYING EQUIPMENT DESIGNATION (CORRESPONDING WITH DESIGNATION USED ON DRAWINGS) AND EQUIPMENT VOLTAGE. LETTERING SHALL BE 1/4" HIGH. PROVIDE LABELS FOR CIRCUIT BREAKERS, FUSIBLE SWITCHES AND STARTERS IN PANELBOARDS AND DISTRIBUTION BOARDS FOR EACH DEVICE IDENTIFYING EQUIPMENT CONTROLLED. LETTERING SHALL BE 1/8" HIGH.
7. ALL DEVICES SHALL HAVE AN INTERRUPTING CAPACITY NOT LESS THAN THE POWER COMPANY AVAILABLE FAULT CURRENT, OR AS INDICATED ON THE DRAWINGS.
8. 120/208 VOLT BRANCH CIRCUIT PANELBOARD BREAKERS SHALL HAVE A MINIMUM U.L. SERIES RATING OF 65 KAIC WITH UP-STREAM FEEDER BREAKERS AS NOTED.
9. AVAILABLE SPACE FOR MAIN PANELBOARD IS LIMITED. PANELBOARD MUST FIT IN ALLOCATED SPACE. COORDINATE WITH CONSTRUCTION AS REQUIRED.
10. ALL WIRING SHALL BE IN CONDUIT, E.M.T OR RIGID. FLEXIBLE CONDUIT MAY ONLY BE USED FOR FINAL CONNECTIONS AND WITH GREEN EQUIPMENT GROUNDING CONDUCTORS.
11. MOUNT SINGLE CIRCUIT SURGE PROTECTION DEVICE (SQUARE D) SDSA1175T TO FACEPLATE MOUNTED ON JUNCTION BOX DIRECTLY ABOVE PANELBOARD SERVING LOAD. REF PANEL SCHEDULES FOR SURGE PROTECTION CIRCUITS.

SWITCHGEAR AND CONTROL EQUIPMENT NOTES

1. PURCHASE PANELBOARDS, SURGE ARRESTOR, AND TVSS FROM ONE OF THE TWO NATIONAL ACCOUNTS VENDORS (SEE SHEET E-902 SECTION C16440, PANELBOARDS) PROVIDING SQUARE-D EQUIPMENT. NO SUBSTITUTIONS ALLOWED.
2. PURCHASE CONTROL PANEL 'CFA-T500' FROM SUNCOAST ENVIRONMENTAL, INC. (NO SUBSTITUTIONS ALLOWED). ALL EQUIPMENT IN THE CONTROL PANEL SHALL BE INSTALLED, WIRED AND CONNECTED AT THE FACTORY, INCLUDING AUTOMATIC LIGHTING CONTROL SYSTEM, LIGHTING RELAYS, HVAC STARTERS, POWER SUPPLIES, MISCELLANEOUS RELAYS AND CONTROLS, AND THERMOSTATS.
3. CONTRACTOR SHALL PROVIDE PANEL FEEDERS A, B, C, D, AND POS, BRANCH CIRCUIT CONDUIT AND WIRE, AND INSTALL ALL EQUIPMENT AS REQUIRED.
4. ALL BREAKERS AND PANELS SHALL BE SQUARE-D.
5. TVSS AND SURGE ARRESTOR UNITS SHALL BE MOUNTED DIRECTLY ADJACENT TO THE SIDE OF THE MAIN DISTRIBUTION PANEL IN NEMA 3R ENCLOSURES. CLOSE NIPPLE THE UNITS TO THE SIDE OF THE PANEL. PROVIDE CONNECTION OF TVSS UNIT TO BREAKER IN PANEL. CONNECT SURGE ARRESTOR TO MAIN INCOMING LUGS OF THE PANEL. CONNECT USING MINIMUM LENGTH OF WIRE WITHOUT SHARP BENDS IN THE WIRE AND SHALL NOT BE LENGTHENED FROM WIRE LENGTH PROVIDED WITH THE TVSS OR SURGE SUPPRESSOR DEVICE.

B1 CONDUIT AND CONDUCTORS SCHEDULE

Mark	OCP Device	Conductors Total Amps		Conductors					Raceway Size (Nominal Inches)							
				Phase & Neutral			Min Eq Grd		No.	Phase, Neutral & Equip Grd				With IG		
No.	(Amp/Poles)	60d C	75d C	Qty	Size	Type	Qty/Set	Size	Sets	EMT	IMC	RIGID	PVC	EMT	IMC	PVC
1	20/1	20	-	2	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
2	20/2	20	-	3	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
3	20/3	20	-	4	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
4	25/1	30	-	2	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
5	25/2	30	-	3	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
6	25/3	30	-	4	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
7	30/1	30	-	2	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
8	30/2	30	-	3	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
9	30/3	30	-	4	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
10	40/1	40	-	2	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
11	40/2	40	-	3	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
12	40/3	40	-	4	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	1.00
13	45/3	55	-	4	6	THHN	1	10	One	1.00	1.00	1.00	1.00	1.00	1.00	1.00
14	50/1	55	-	2	6	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
15	50/2	55	-	3	6	THHN	1	10	One	0.75	0.75	0.75	0.75	1.00	1.00	1.00
16	50/3	55	-	4	6	THHN	1	10	One	1.00	1.00	1.00	1.00	1.00	1.00	1.00
17	60/1	70	-	2	4	THW	1	8	One	1.00	1.00	1.00	1.00	1.25	1.00	1.25
18	60/2	70	-	3	4	THW	1	8	One	1.25	1.00	1.25	1.25	1.25	1.25	1.25
19	60/3	70	-	4	4	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25	1.25
20	70/1	70	-	2	4	THW	1	8	One	1.00	1.00	1.00	1.00	1.25	1.00	1.25
21	70/2	70	-	3	4	THW	1	8	One	1.25	1.00	1.25	1.25	1.25	1.25	1.25
22	70/3	70	-	4	4	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25	1.25
23	80/2	85	-	3	3	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25	1.25
24	80/3	85	-	4	3	THW	1	8	One	1.25	1.25	1.25	1.25	1.50	1.25	1.50
25	90/2	95	-	3	2	THW	1	8	One	1.25	1.25	1.25	1.25	1.50	1.25	1.50
26	90/3	95	-	4	2	THW	1	8	One	1.50	1.25	1.50	1.50	1.50	1.50	1.50
27	100/2	110	-	3	1	THW	1	6	One	1.50	1.50	1.50	1.50	2.00	2.00	2.00
28	100/3	110	-	4	1	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
29	110/2	-	150	3	1/0	THW	1	6	One	1.25	1.25	1.25	1.25	1.50	1.25	1.50
30	110/3	-	150	4	1/0	THW	1	6	One	1.50	1.25	1.50	1.50	1.50	1.50	1.50
31	125/2	-	150	3	1/0	THW	1	6	One	1.50	1.50	1.50	1.50	2.00	2.00	2.00
32	125/3	-	150	4	1/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
33	150/2	-	150	3	1/0	THW	1	6	One	2.00	1.50	2.00	2.00	2.00	2.00	2.00
34	150/3	-	150	4	1/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
35	175/2	-	175	3	2/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
36	175/3	-	175	4	2/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.50	2.50	2.50
37	200/2	-	200	3	3/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.50	2.50	2.50
38	200/3	-	200	4	3/0	THW	1	6	One	2.50	2.50	2.50	2.50	2.50	2.50	2.50
39	225/2	-	230	3	4/0	THW	1	4	One	2.50	2.00	2.50	2.50	2.50	2.50	2.50
40	225/3	-	230	4	4/0	THW	1	4	One	2.50	2.50	2.50	2.50	2.50	3.00	3.00
41	250/3	-	255	4	250	THW	1	4	One	2.50	3.00	3.00	3.00	3.00	3.00	3.00
42A	300/3	-	285	4	300	THW	1	4	One	3.00	3.00	3.00	3.00	3.00	3.00	3.00
42B	300/3	-	310	4	350	THW	1	4	One	3.00	3.00	3.00	3.00	3.00	3.00	3.00
43A	350/3	-	335	4	400	THW	1	4	One	3.00	3.50	3.50	3.50	3.50	3.50	3.50
43B	350/3	-	380	4	500	THW	1	4	One	3.50	3.50	3.50	3.50	3.50	3.50	3.50
44A	400/3	-	380	4	500	THW	1	3	One	3.50	3.50	3.50	3.50	3.50	3.50	3.50
44B	400/3	-	400	4	3/0	THW	1	3	Two	2.50	2.50	2.50	2.50	2.50	2.50	2.50
45A	600/3	-	570	4	300	THW	1	1	Two	3.00	3.00	3.00	3.00	3.00	3.00	3.00
45B	600/3	-	620	4	350	THW	1	1	Two	3.00	3.00	3.00	3.00	3.00	3.00	3.50
46A	800/3	-	760	4	500	THW	1	1/0	Two	3.50	3.50	3.50	3.50	3.50	3.50	3.50
46B	800/3	-	820	4	600	THW	1	1/0	Two	4.00	4.00	4.00	4.00	4.00	4.00	4.00
47	1000/3	-	1005	4	400	THW	1	2/0	Three	3.50	3.50	3.50	3.50	3.50	3.50	3.50
48	1200/3	-	1240	4	350	THW	1	3/0	Four	3.50	3.50	3.50	3.50	3.50	3.50	4.00
49	1600/3	-	1675	4	400	THW	1	4/0	Five	4.00	4.00	4.00	4.00	4.00	4.00	4.00

Notes:
Conductors are rated at 600 volt or below and are to be copper.

NEC Table 310.15(B)(16) - formerly Table 310.16 - is used for the basis of the conductor ampacities, which is not more than three current carrying conductors in a raceway at an ambient temperature of 30 deg C with 60 deg C rated conductors and connectors per 110.14-C-1 for up to 100 amp rated and up to #1 AWG conductors for equipment terminations and 75 deg C rated conductors and termination connectors for larger than 100 amp or above #1 AWG conductors.

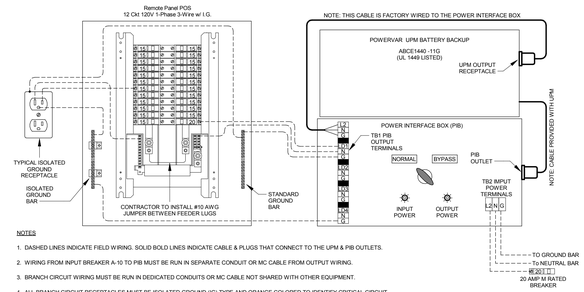
NEC Tables 4, 5, and Appendix C is used for the basis of the conduit sizes. Table C1 for EMT, Table C4 for IMC, Table C8 for Rigid, and Table C10 for PVC (Sch 40).

All Branch Feeders and Branch Circuits shall include a green Equipment Grounding Conductor.

Omit Grounding conductor on Service Entrance Feeders.

Omit Neutral conductor on all Delta primary transformer feeders or single-phase 2 pole loads and 3 phase loads not requiring a neutral.

The above conductors are not calculated for Voltage Drop. Any circuits that exceed 100 feet shall be calculated by the Installer to have less than a three percent voltage drop on feeders and five percent on branch circuits per the NEC.



NOTES

1. DASHED LINES INDICATE FIELD WIRING. SOLID BOLD LINES INDICATE CABLE & PLUGS THAT CONNECT TO THE UPM & PIB OUTLETS.
2. WIRING FROM INPUT BREAKER A-10 TO PIB MUST BE RUN IN SEPARATE CONDUIT OR MC CABLE FROM OUTPUT WIRING.
3. BRANCH CIRCUIT WIRING MUST BE RUN IN DEDICATED CONDUITS OR MC CABLE NOT SHARED WITH OTHER EQUIPMENT.
4. ALL BRANCH CIRCUIT RECEPTACLES MUST BE ISOLATED GROUND (IG) TYPE AND ORANGE COLORED TO IDENTIFY CRITICAL CIRCUIT.
5. POWERVAR UPM BATTERY BACKUP IS MOUNTED ON TOP OF THE PIB AND CONNECTS WITH CABLE PLUGS AND OUTLETS.

A1 POS AND LAPC/PIB WIRING DIAGRAM

NO SCALE

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08/11/22

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FSR#04571

BUILDING TYPE / SIZE: P13 SE ALL
RELEASE: v2_21.08
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NO.	DATE	DESCRIPTION
2	08/10/2022	Bulletin 2

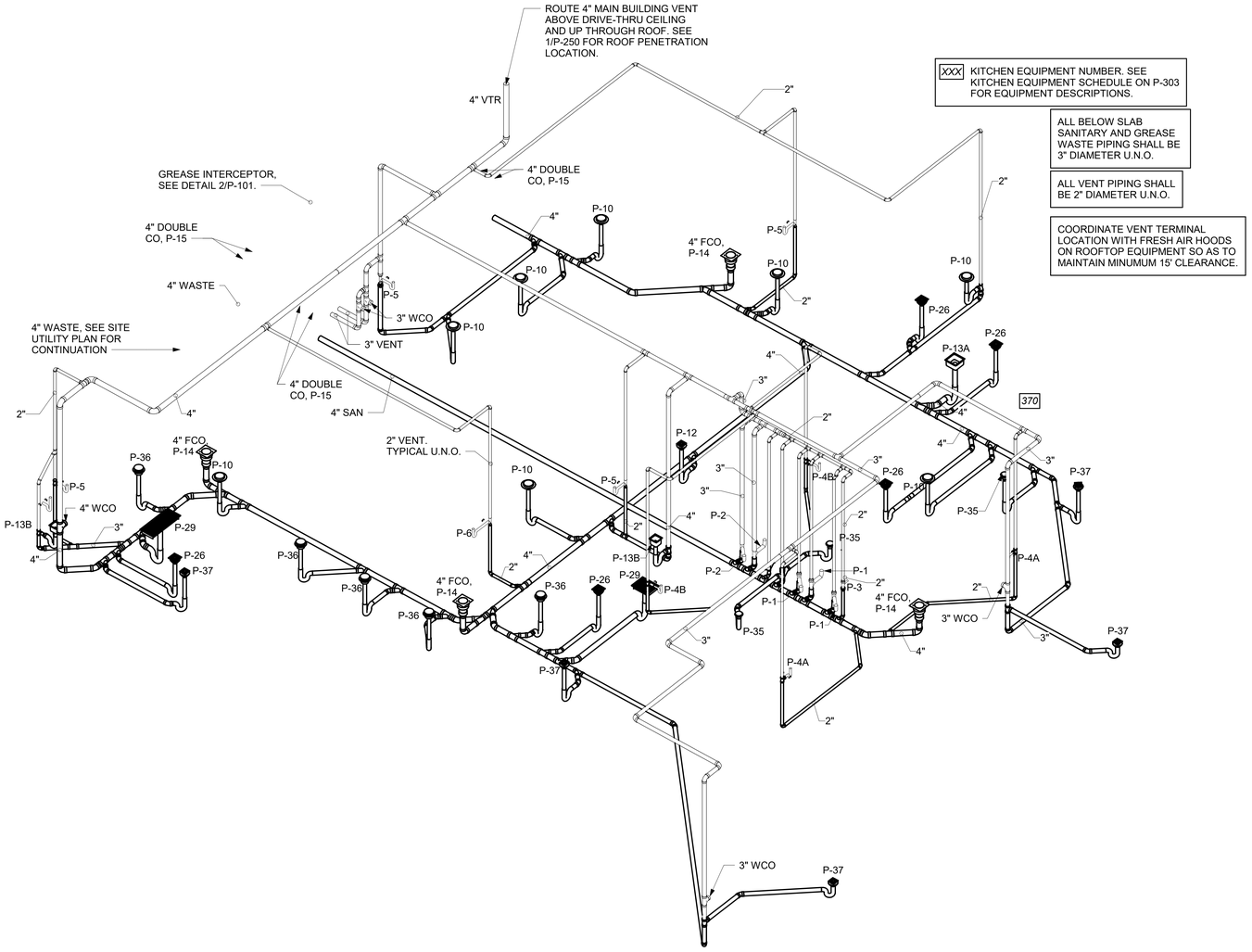
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SHEET
SINGLE LINE DIAGRAM AND NOTES

SHEET NUMBER
E-502

8/10/2022 4:27:24 PM BIM 360://FL_04571_Hunt Club_2021-11_FSR/04571_Hunt Club_ELE.rvt
50-SE-04571-E-502-SINGLE LINE DIAGRAM AND NOTES



1 WASTE RISER DIAGRAM

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05/23/22

CHICK-FIL-A
HUNT CLUB

2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571

BUILDING TYPE / SIZE: P13 SE ALL
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NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 2021223.29
DATE 12/08/21
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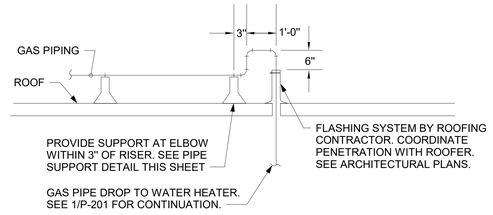
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SHEET
DWV RISER DIAGRAM

SHEET NUMBER
P-301

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40-SE-04571-P-301-DWV RISER DIAGRAM

OFFSET PIPING A MINIMUM OF 6" ABOVE TOP EDGE OF FLASHING.

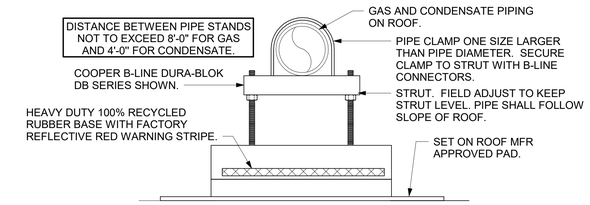


6 GAS PIPE DROP TO WATER HEATER
NOT TO SCALE

VAPOR MITIGATION SYSTEM NOTE

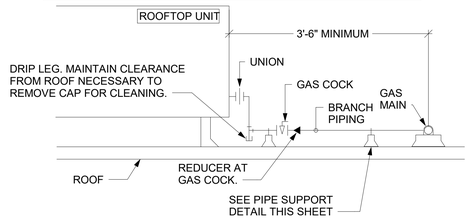
VMS ITEMS SHOWN ON PLAN ARE VAPOR MITIGATION SYSTEM VENT RISER LOCATIONS. REFER TO VAPOR MITIGATION SYSTEM SHOP DRAWINGS FOR ADDITIONAL INFORMATION.

NOTES:
1. NON ADJUSTABLE MODEL DB610 PIPE STAND TO BE USED FOR NON-ELEVATED PIPING INSTALLED FLAT ON ROOF DECK.
2. PROVIDE MODEL DBE 10-8 OR DBE 10-12 OR DBE 10-16 AS NEEDED FOR ELEVATING CONDENSATE PIPING TO MAINTAIN PROPER SLOPE AND FOR GAS PIPING CROSSING OVER CONDENSATE PIPING.
3. ENSURE GAS AND CONDENSATE PIPING DO NOT OBSTRUCT ROOFTOP EQUIPMENT ACCESS OPENINGS. RE-PIPING OF SYSTEMS DUE TO CONFLICTS WITH EQUIPMENT ACCESS OPENINGS SHALL BE DONE AT PLUMBING CONTRACTOR'S EXPENSE.



4 PIPING SUPPORT ON ROOF
NOT TO SCALE

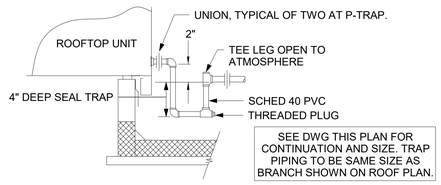
NOTES:
1. INSTALL GAS PIPING SUCH THAT HVAC EQUIPMENT ACCESS PANELS AND/OR DOORS ARE IN NO WAY OBSTRUCTED BY PIPING, VALVES, OR SUPPORTS.
2. TO AVOID CONFLICT WITH AC UNIT ACCESS DOORS, INSTALL GAS PIPING NO CLOSER THAN 3'-6" FROM AC UNIT. (EXCEPT FOR BRANCH LINE CONNECTED TO AC UNIT.)
3. ROUTE BRANCH TAKE-OFF DIRECTLY FROM MAIN TO ROOFTOP UNIT AS SHOWN ON PLAN AND DETAILS WITHOUT LATERAL OFFSETS WHICH MAY OBSTRUCT UNIT ACCESS DOORS.



3 GAS PIPING AT RTU
1/4" = 1'-0"

5. GAS CONNECTION SCHEDULE

EQUIPMENT	GAS LOAD
AC#1	480,000 BTUS
AC#2	360,000 BTUS
AC#3	480,000 BTUS
WATER HEATER	125,000 BTUS
TOTAL CONNECTED LOAD	1,445,000 BTUS
REMARKS:	1) EQUIVALENT TO 1,445.0 CFH 2) 7" W.C. DELIVERY PRESSURE 3) DEVELOPED LENGTH: 175 FT, (METER TO AC#3.)



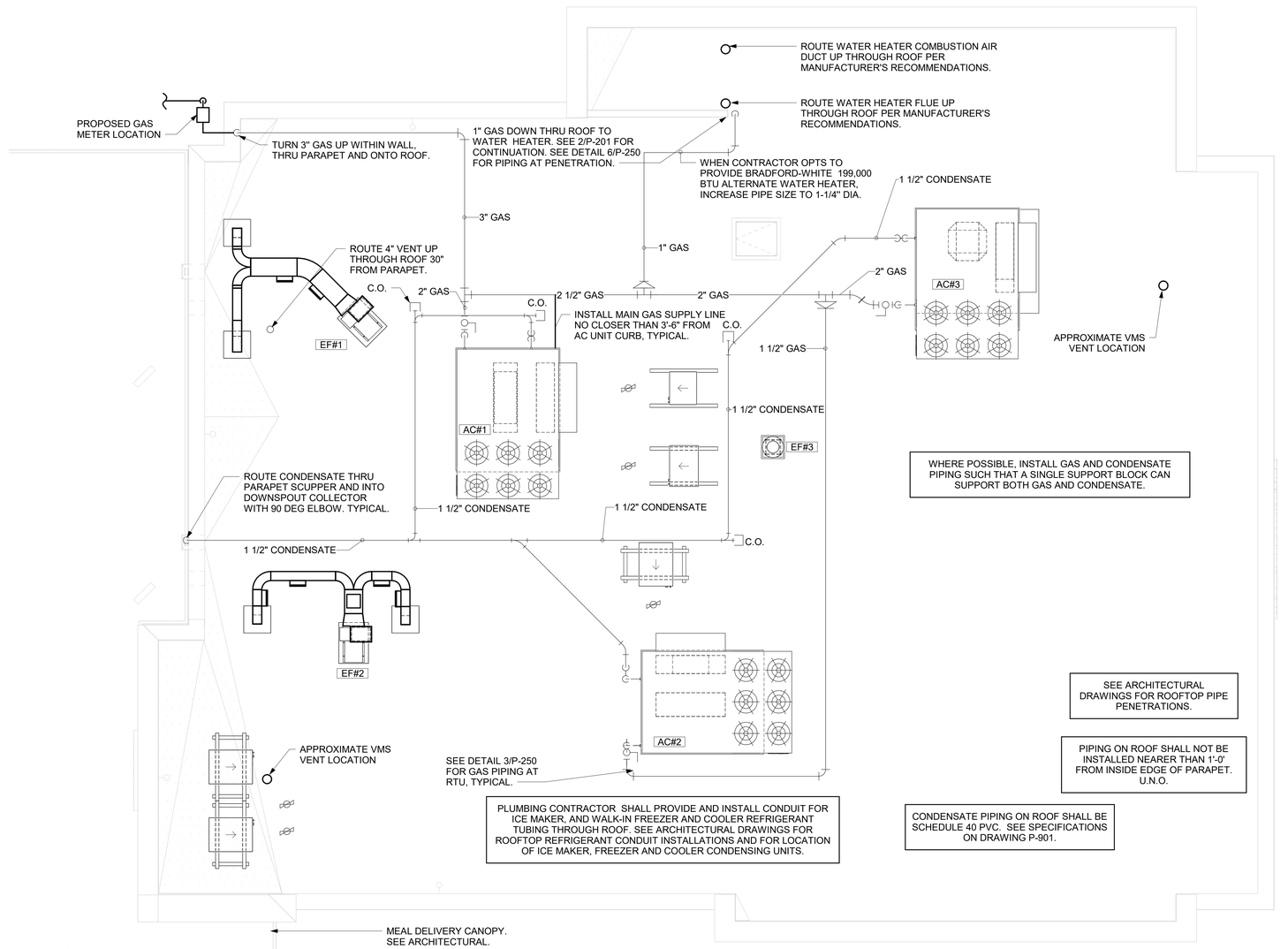
2 CONDENSATE DRAIN PIPING
1/4" = 1'-0"

LEGEND

GI#1	GAS INFRARED HEATER #1 (TYP.)	B/G	BELOW GRADE
———	NEW GAS PIPING ABOVE GRADE	EC	ELECTRICAL CONTRACTOR
- - -	NEW GAS PIPING BELOW GRADE	MC	MECHANICAL CONTRACTOR

CANOPY GENERAL NOTES

1. COORDINATE NEW WORK WITH EXISTING CONDUIT, STRUCTURE, AND PIPING. FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.
2. COORDINATE LOCATION AND RESPONSIBILITIES FOR UNDERGROUND PIPING AND ASSOCIATED TRENCHING WITH GENERAL CONTRACTOR PRIOR TO START OF WORK.
3. EXPOSED GAS PIPING SHALL BE PAINTED BY GENERAL CONTRACTOR.



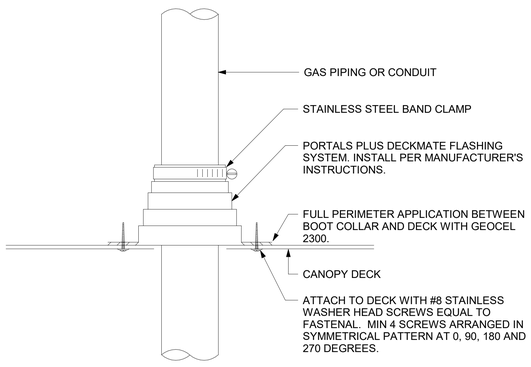
WHERE POSSIBLE, INSTALL GAS AND CONDENSATE PIPING SUCH THAT A SINGLE SUPPORT BLOCK CAN SUPPORT BOTH GAS AND CONDENSATE.

SEE ARCHITECTURAL DRAWINGS FOR ROOFTOP PIPE PENETRATIONS.

PIPING ON ROOF SHALL NOT BE INSTALLED NEARER THAN 1'-0' FROM INSIDE EDGE OF PARAPET. U.N.O.

PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL CONDUIT FOR ICE MAKER, AND WALK-IN FREEZER AND COOLER REFRIGERANT TUBING THROUGH ROOF. SEE ARCHITECTURAL DRAWINGS FOR ROOFTOP REFRIGERANT CONDUIT INSTALLATIONS AND FOR LOCATION OF ICE MAKER, FREEZER AND COOLER CONDENSING UNITS.

CONDENSATE PIPING ON ROOF SHALL BE SCHEDULE 40 PVC. SEE SPECIFICATIONS ON DRAWING P-901.



9 WEATHERPROOFING AT CANOPY PENETRATION
NOT TO SCALE

1 ROOF PIPING PLAN
1/4" = 1'-0"

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05/23/22

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APOPKA, FL 32703

FSR#04571

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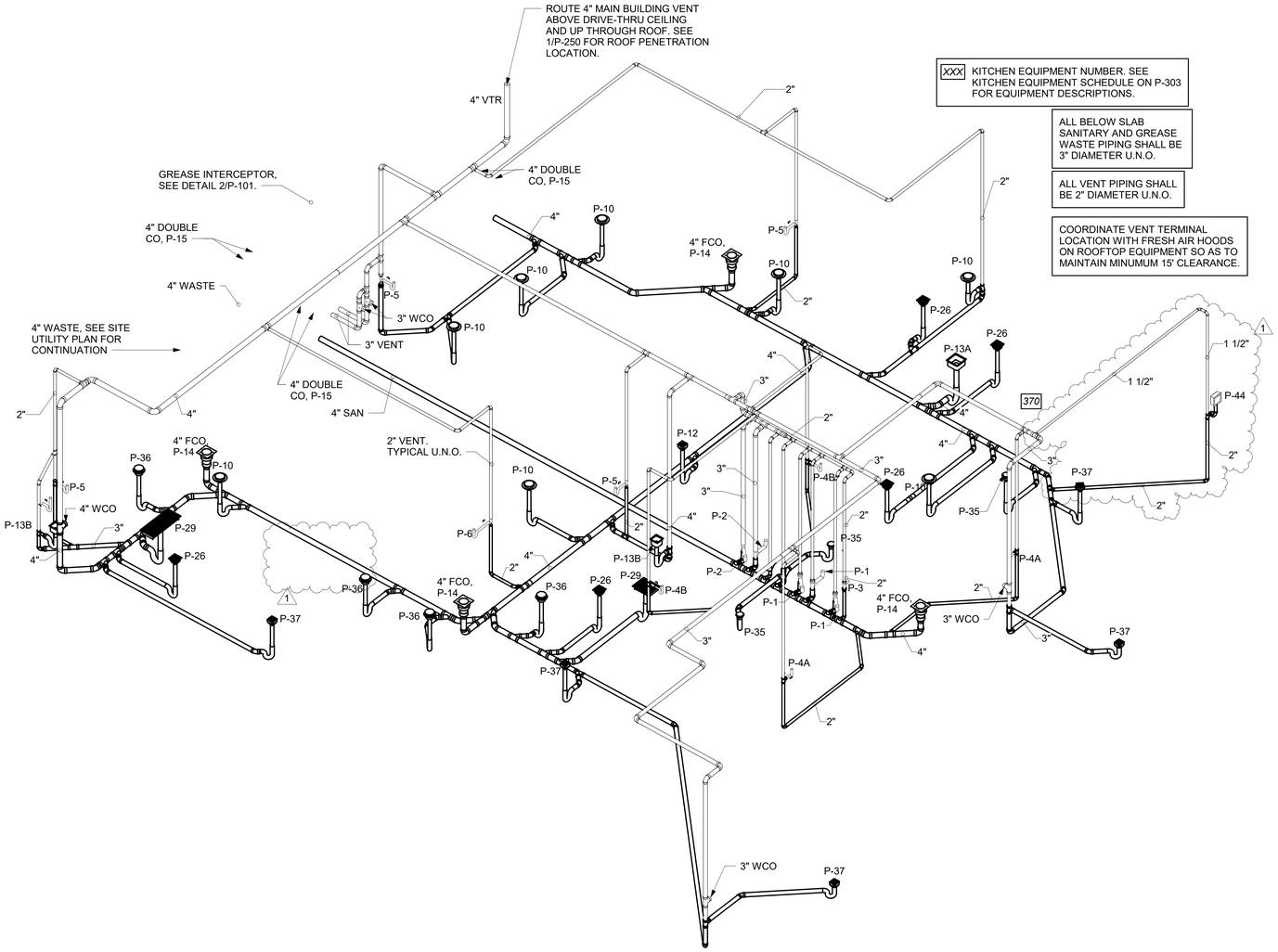
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SHEET
ROOF PLAN AND DETAILS

SHEET NUMBER
P-250

5/23/2022 10:14:09 AM BIM 360://FL_04571_Hunt Club_2021.11_FSR(04571_Hunt Club_PLB.rvt
40-SE-04571-P-250-ROOF PLAN AND DETAILS



1 WASTE RISER DIAGRAM

XXX KITCHEN EQUIPMENT NUMBER. SEE KITCHEN EQUIPMENT SCHEDULE ON P-303 FOR EQUIPMENT DESCRIPTIONS.

ALL BELOW SLAB SANITARY AND GREASE WASTE PIPING SHALL BE 3" DIAMETER U.N.O.

ALL VENT PIPING SHALL BE 2" DIAMETER U.N.O.

COORDINATE VENT TERMINAL LOCATION WITH FRESH AIR HOODS ON ROOFTOP EQUIPMENT SO AS TO MAINTAIN MINUMUM 15' CLEARANCE.

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HUNT CLUB

2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571

BUILDING TYPE / SIZE: P13 SE ALL
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SHEET
DWV RISER DIAGRAM

SHEET NUMBER
P-301

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40-SE-04571-P-301-DWV RISER DIAGRAM

POWER PLAN KEYNOTES

2. PROVIDE EDWARDS #340-4N5 VIBRATING 4" DIAMETER BELL. THE BELL SHALL BE RATED AT 120 VOLTS.
3. PROVIDE A 120 VOLT WEATHERPROOF DOORBELL PUSHBUTTON AT DOOR. PUSHBUTTON SHALL BE FLUSH MOUNTED. PROVIDE DORTRONICS SYSTEMS #W5286-P25 CLEAR ANODIZED ALUMINUM PUSHBUTTON WITH SINGLE GANG SWITCH PLATE.
4. TWO 2" TELEPHONE SERVICE ENTRANCE CONDUIT(S). EXTEND WITH PULL STRING FROM TELEPHONE SERVICE J-BOX TO THE UTILITY SOURCE. REFER TO THE ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION.
6. PROVIDE DUPLEX RECEPTACLE (SEE ELEVATIONS FOR MTG HT) IN AN ARLINGTON #DVFR2W DOUBLE-GANG RECESSED BOX FOR THE FLY SYSTEM ITEMS. DO NOT CUT THE CORDSET FURNISHED WITH THE UNIT, BUT COIL THE CORD ON THE BACK OF THE UNIT AND TUCK INTO THE BACKBOX.
8. SB6000/SB6001 PANEL ENCLOSURE WITH 3 LITTLEFUSE SHOCK BLOCK GFCI PROTECTION DEVICES AND SB6100 PANEL ENCLOSURE SHOCK BLOCK GFCI PROTECTION DEVICE. ENSURE CONDUITS ARE INSTALLED FOR LINE AND LOAD WIRES TO BE INSTALLED WITH PROPER WIRE BENDING SPACE. LABEL EACH SHOCK BLOCK WITH PANEL AND CIRCUIT NUMBER IT CONTROLS.
9. ONE 3" ISP SERVICE CONDUIT. EXTEND WITH PULL STRING FROM J-BOX TO SUPPLIER'S SOURCE, REFER TO ELECTRICAL SITE PLAN FOR ADDITION INFORMATION.
11. PROVIDE TWO 6"H X 6"W X 4"D J-BOXES (ONE FOR TELEPHONE AND ONE FOR ISP) AT 6'-6" AFF AND EXTEND A 2" CONDUIT WITH PULL STRING IN THE WALL FROM EACH J-BOX INTO THE ACCESSIBLE CEILING SPACE. PROVIDE A 36" X 36" X 3/4" PLYWOOD BACKBOARD ON THE WALL ABOVE THE J-BOXES (AT THE CEILING) FOR USE BY THE ISP. PROVIDE A COPPER GROUND BAR (EQUAL TO ERICO TGBA24L14P) AT THE BOTTOM OF THE BACKBOARD WITH A #6 AWG INSULATED CU GROUNDING CONDUCTOR IN A 3/4"C FROM THE GROUND BAR TO THE INTER SYSTEM BONDING TERMINATION NEXT TO THE SERVICE ENTRANCE. THE GROUND BAR SHALL HAVE TAPS FOR USE BY THE TELEPHONE AND ISP UTILITY COMPANIES AND FOR THE #6 COMMUNICATIONS GROUNDING CONDUCTOR TO THE GES. PROVIDE A 15 AMP ISOLATED GROUND (IG) ORANGE-FACED DUPLEX RECEPTACLE IN THE WALL BESIDE THE BACKBOARD AND LABEL THE RECEPTACLE "FOR FIBER TO CABLE MODEM USE ONLY". BOND NETWORK RACKS TO GROUND BAR.
12. PROVIDE JUNCTION BOX AT 8"-0" AFF WITH CONDUIT AND CONDUCTORS TO PANELBOARD FOR FUTURE CONNECTION TO BOOSTER PUMP. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

SECURITY KEYNOTES

S1. PROVIDE SINGLE GANG JUNCTION BOX AND STAINLESS STEEL COVER PLATE WITH 7/8" HOLE IN CENTER. EXTEND 1" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.
S2. PROVIDE 4"W X 4"H X 3"D FLUSH JUNCTION BOX WITHOUT A COVERPLATE. EXTEND 2" CONDUIT UP TO ABOVE ACCESSIBLE OFFICE CEILING AREA AND PROVIDE BUSHING ON CONDUIT.
S3. PROVIDE A SINGLE-GANG JUNCTION BOX WITH A 1.5" CONDUIT STUBBED UP INTO ACCESSIBLE CEILING SPACE WITH A BUSHING ON THE CONDUIT END FOR THE CCTV MONITOR AND DVR LOCATION.
S5. PROVIDE SINGLE GANG BOX WITHOUT COVER PLATE. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.
S10. PROVIDE SINGLE GANG JUNCTION BOX WITH STAINLESS STEEL COVER PLATE MOUNTED ABOVE THE CEILING SPACE AND ABOVE ON THE INTERIOR SIDE OF THE REAR DOOR. ROUTE 1" CONDUIT FROM THE BOX TO THE "S12" BOX NOTED BELOW.
S11. EXTEND 1/2" CONDUIT FROM WINDOW'S FRAME MULLION (RIGHT SIDE) TO ABOVE ACCESSIBLE CEILING.
S12. PROVIDE SINGLE GANG, WEATHER-PROOF JUNCTION BOX WITH STAINLESS STEEL COVER PLATE MOUNTED ABOVE THE REAR DOOR ON THE EXTERIOR WALL. ROUTE 1" CONDUIT FROM THE BOX AND INTO THE BUILDING AND TERMINATE CONDUIT IN THE BOX NOTED IN "S10" ABOVE.

COMMUNICATIONS KEYNOTES

C2. PROVIDE JUNCTION BOX, LESS COVER PLATE, AND EXTEND 1-1/2" CONDUIT UP IN WALL TO ABOVE CEILING FOR INSTALLATION OF WIRELESS COMMUNICATION CONTROL UNIT.
C4. PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" EMPTY CONDUIT STUBBED UP INTO THE ACCESSIBLE CEILING SPACE FOR OWNER'S VOIP PHONE JACK AND CABLES.
C5. PROVIDE SINGLE-GANG JUNCTION BOX WITH A 3/4" EMPTY CONDUIT STUBBED UP INTO THE ACCESSIBLE CEILING SPACE FOR FUTURE MENU BOARD CABLES.

MUSIC KEYNOTES

M1. PROVIDE JUNCTION BOX WITH STAINLESS STEEL COVER PLATE AND 3/4" HOLE IN PLATE WITH GROMMET ON HOLE IN PLATE. EXTEND 3/4" CONDUIT UP IN WALL TO ABOVE CEILING FOR MUSIC SYSTEM.
M3. THREE SINGLE GANG EXTRA DEEP J-BOXES STACKED WITH A 1/2" CONDUIT FROM EACH TO THE TOP J-BOX BOX AND A 1" CONDUIT STUBBED INTO THE CEILING SPACE FOR MUSIC SYSTEM VOLUME CONTROLS PROVIDED BY OWNER'S VENDOR.
M4. PROVIDE A SINGLE GANG EXTRA DEEP JUNCTION BOX AT 74" AFF WITH 1/2" CONDUIT STUBBED INTO THE CEILING SPACE FOR MUSIC SYSTEM VOLUME CONTROLS.

POS DATA KEYNOTES

R1. PROVIDE A 'RETROFIT' SINGLE GANG RING (CARLON #SC100RR) FOR OWNER'S DEVICE PLATE WITH A 1" EMPTY CONDUIT AT THE OPENING STUBBED UP INTO THE CEILING SPACE FOR OWNER'S DATA CABLES.
R2. PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" CONDUIT EXTENDING UP INTO THE CEILING SPACE FOR POS MONITOR(S). COVER PLATE PROVIDED BY OWNER'S POS SYSTEM VENDOR.
R3. PROVIDE A 2" CONDUIT FROM FACE OF WALL AND EXTEND CONDUIT TO JUNCTION BOX IN CELING SPACE ABOVE SERVING AREA. CONDUIT SHALL TERMINATE FLUSH WITH FACE OF WALL BELOW COUNTER. CUSTOM STAINLESS STELL COVER PLATE IN WALL WITH GROMMET ON 2" DIAMETER HOLE AT CONDUIT TERMINATION IN WALL.
R4. PROVIDE A 'RETROFIT' SINGLE GANG RING (CARLON #SC100RR) FOR OWNER'S DEVICE PLATE WITH A 1" EMPTY CONDUIT AT THE OPENING STUBBED UP INTO THE CEILING SPACE FOR OWNER'S DATA CABLES.
R5. PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" CONDUIT EXTENDING UP INTO THE CEILING SPACE FOR POS TERMINAL. POS SYSTEM SUPPLIER WILL PROVIDE COVER PLATE ON BOX.
R6. PROVIDE SINGLE-GANG EXTRA DEEP JUNCTION BOX MOUNTED ON THE MOUNTING PLATE WITHIN THE FRONT SERVING COUNTER CASEWORK. MOUNT BOX ADJACENT TO THE RECEPTACLE FOR EQUIPMENT 180. DO NOT MOUNT BOX BETWEEN EQUIPMENT 180 AND EQUIPMENT 182 RECEPTACLES.

ENLARGED POWER PLAN KEYNOTES

E6. SEE THE ROOF ELECTRICAL PLAN FOR THE LOCATION OF THE ICE MAKER CONDENSERS AND ANY ADDITIONAL REQUIREMENTS.
E13. JUNCTION BOX ABOVE CEILING FOR AD-1 AT THE DRIVE-THRU WINDOW.

POS POWER KEYNOTES

P1. PROVIDE ORANGE ISOLATED GROUND (IG) DUPLEX RECEPTACLE.
P2. PROVIDE GROUND FAULT PROTECTION FOR THESE DEVICES VIA A GROUND FAULT CIRCUIT BREAKER IF LOCAL CODE DEFINES THIS A FOOD PREPARATION AREA.
P3. USE TYPE MC CABLE FOR THE ISOLATED GROUND CIRCUIT: #12 HOT, NEUTRAL, GREEN GROUND, STRIPED ISOLATED GROUND. EACH 15 AMP HOMERUN SHALL BE DEDICATED TO A CIRCUIT BREAKER VIA DEDICATED CONDUCTORS WITHIN A CABLE ASSEMBLY. ALL MC CABLES SHALL BE RUN OVERHEAD ABOVE THE CEILING AND RACKED TOGETHER ON J-HOOKS. NO SPLICES IN ANY HOMERUN CABLES FROM FIRST RECEPTACLE TO BREAKER.
P4. THE RECEPTACLE BACKBOX AND SYSTEM CABLE JUNCTION BOX FOR ITEMS 180 AND 182 SHALL BE TURNED HORIZONTAL. REFER TO THE KITCHEN EQUIPMENT ROUGH-IN ELEVATIONS FOR ADDITIONAL INFORMATION.

POWER PLAN GENERAL NOTES

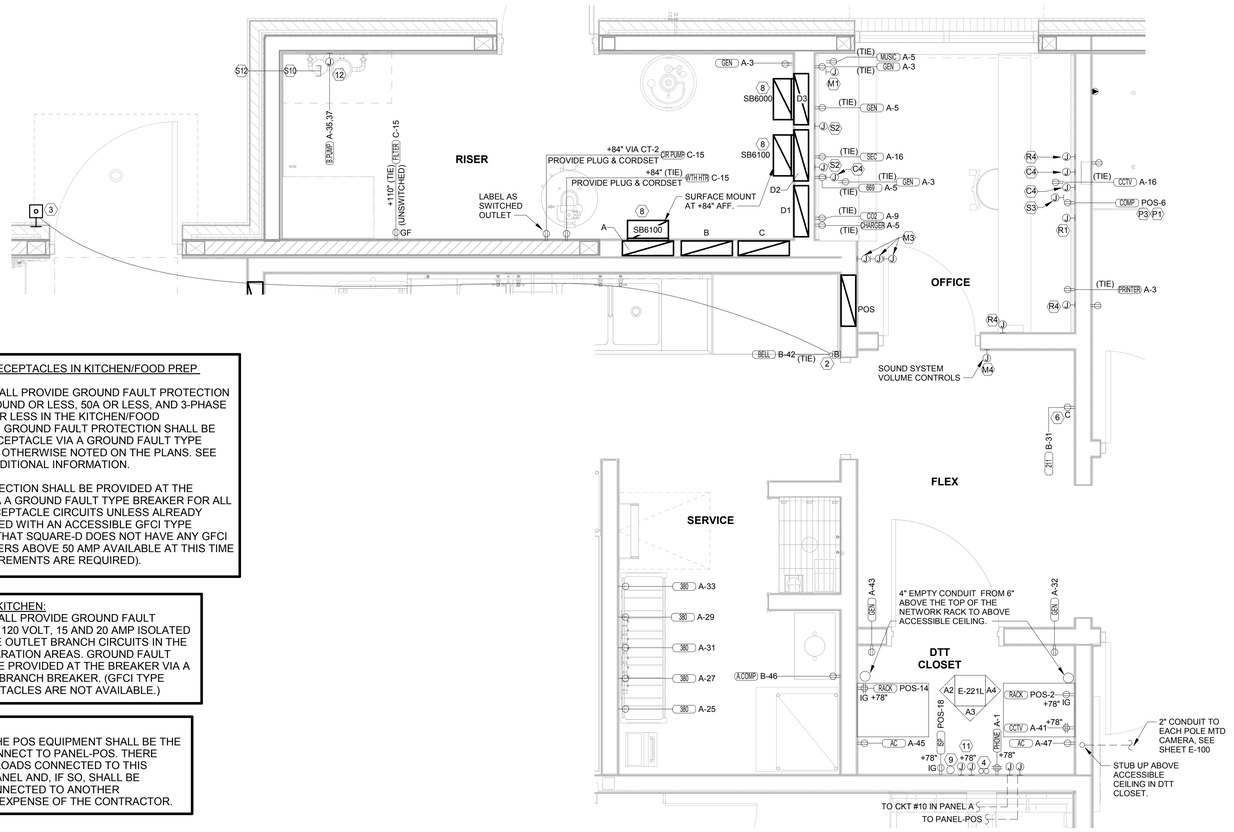
1. ALL SECURITY, POS, MUSIC, COMMUNICATIONS, AND POWER ROUGH-IN SHALL BE INSTALLED DURING THE FRAMING/ROUGH-IN PHASE OF CONSTRUCTION.
2. REFER TO KITCHEN EQUIPMENT SHEETS FOR EQUIPMENT ELECTRICAL ROUGH-IN ELEVATIONS ABOVE FINISHED FLOOR.
3. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRING.
4. PROVIDE INSULATED BUSHING AT TERMINATION POINTS OF ALL CONDUITS FOR LOW VOLTAGE WIRING.
5. THE ELECTRICAL INSTALLER SHALL COORDINATE THE ROUTING OF ALL CONDUIT IN THE BUILDING WITH OTHER TRADES (SPECIFICALLY THE DUCTWORK INSTALLATION) TO AVOID CONFLICTS OF SPACE REQUIREMENTS IN WALLS AND CEILING SPACES.

NOTE FOR GF TYPE RECEPTACLES IN KITCHEN/FOOD PREP AREAS:
THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL 150V TO GROUND OR LESS, 50A OR LESS, AND 3-PHASE RECEPTACLES 100A OR LESS IN THE KITCHEN/FOOD PREPARATION AREAS. GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE RECEPTACLE VIA A GROUND FAULT TYPE RECEPTACLE UNLESS OTHERWISE NOTED ON THE PLANS. SEE FLOOR PLANS FOR ADDITIONAL INFORMATION.

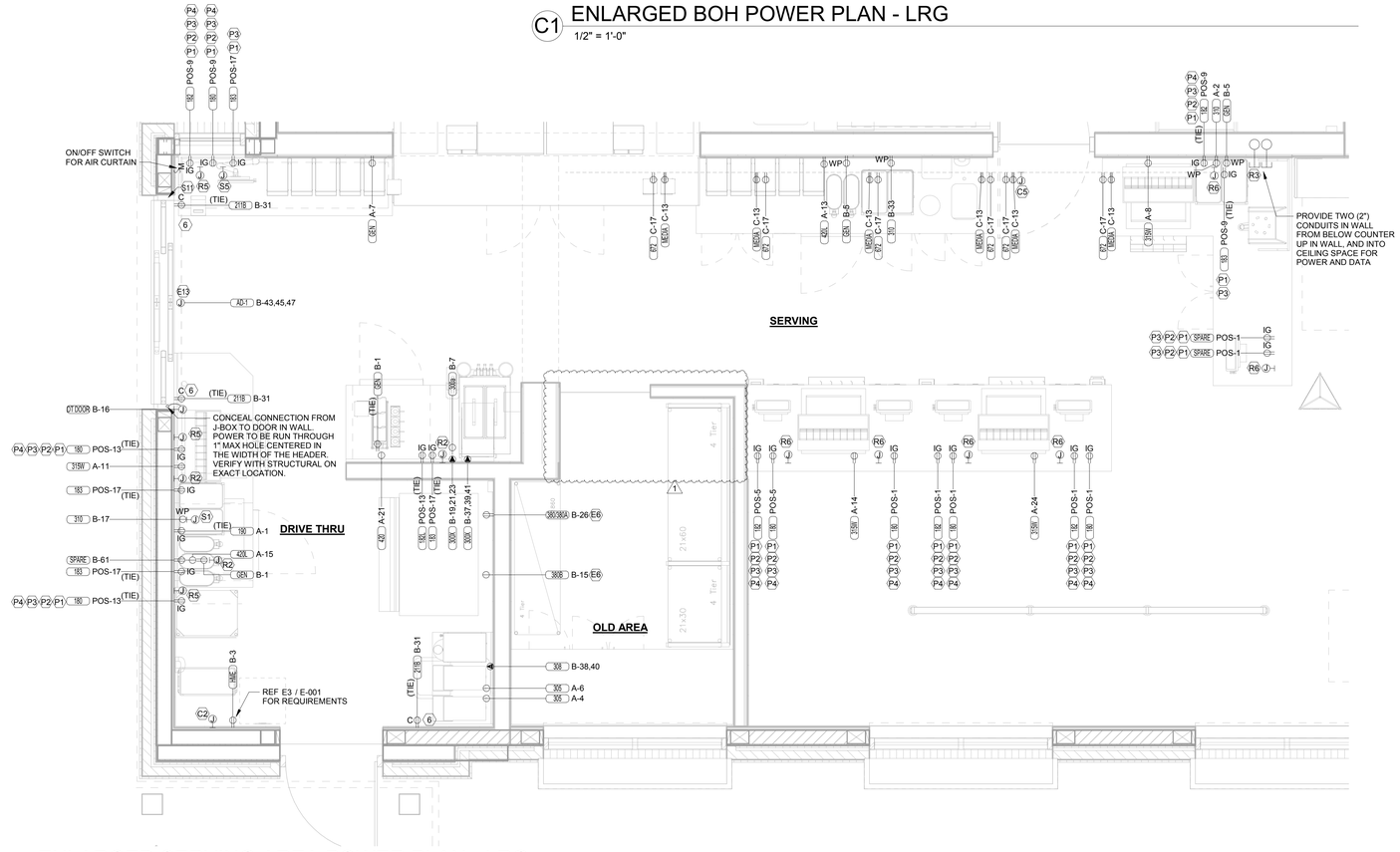
GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE BRANCH BREAKER VIA A GROUND FAULT TYPE BREAKER FOR ALL 50 AMP AND LESS RECEPTACLE CIRCUITS UNLESS ALREADY NOTED TO BE PROVIDED WITH AN ACCESSIBLE GFCI TYPE RECEPTACLE. (NOTE THAT SQUARE-D DOES NOT HAVE ANY GFCI TYPE BRANCH BREAKERS ABOVE 50 AMP AVAILABLE AT THIS TIME HOWEVER, GFI REQUIREMENTS ARE REQUIRED).

NOTE FOR POS GF IN KITCHEN:
THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL 120 VOLT, 15 AND 20 AMP ISOLATED GROUND RECEPTACLE OUTLET BRANCH CIRCUITS IN THE KITCHEN/FOOD PREPARATION AREAS. GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE BREAKER VIA A GROUND FAULT TYPE BRANCH BREAKER. (GFCI TYPE ISOLATED GRD RECEPTACLES ARE NOT AVAILABLE.)

NOTE:
RECEPTACLES FOR THE POS EQUIPMENT SHALL BE THE ONLY ITEMS THAT CONNECT TO PANEL-POS. THERE SHALL BE NO OTHER LOADS CONNECTED TO THIS ISOLATED GROUND PANEL AND, IF SO, SHALL BE REMOVED AND RECONNECTED TO ANOTHER PANELBOARD AT THE EXPENSE OF THE CONTRACTOR.



C1 ENLARGED BOH POWER PLAN - LRG
1/2" = 1'-0"



A1 ENLARGED SERVING AREA POWER PLAN - LRG
1/2" = 1'-0"

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

GPD GROUP, INC.
LIC. # - 30920
520 S. MAIN STREET, SUITE 2531
AKRON, OH 44311

CHICK-FIL-A HUNT CLUB

2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571

BUILDING TYPE / SIZE: P13 SE LRG
RELEASE: v2_21.08
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CONSULTANT PROJECT # 2021223.29
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DRAWN BY JPW

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SHEET
ENLARGED SERVING AND BOH POWER PLAN

SHEET NUMBER
E-302

7/14/2022 5:00:03 PM BIM 360://FL_04571_Hunt Club_2021.11_FSR\04571_Hunt Club_ELE.rvt
50-SE-04571-E-302-ENLARGED SERVING AND BOH POWER PLAN

ELECTRICAL SITE PLAN KEYNOTES

(APPLIES TO THE ELECTRICAL SITE PLAN ONLY)

1. PROPOSED LOCATION OF PRIMARY UNDERGROUND ELECTRICAL UTILITY LINES.
2. PROPOSED LOCATION OF PAD MOUNTED TRANSFORMER FURNISHED BY THE ELECTRICAL UTILITY COMPANY. THE ELECTRICAL CONTRACTOR SHALL PROVIDE:
   A. PROVIDE THREE 4", SCH. 40 PVC CONDUIT TO UTILITY SOURCE, AT MINIMUM 30" BELOW FINISHED GRADE AND IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS. COORDINATE ALL REQUIREMENTS WITH THE UTILITY COMPANY PRIOR TO BID.
   B. SECONDARY SERVICE LATERAL FROM UTILITY TRANSFORMER TO PANEL 'MDP' VIA THE CURRENT TRANSFORMER CABINET. SEE SHEET E-502, "SINGLE-LINE DIAGRAM". REFER TO "ELECTRICAL SERVICE LATERAL CONDUIT DETAIL", SHEET E-101, FOR ADDITIONAL INFORMATION.
   C. CONCRETE PAD FOR UTILITY TRANSFORMER IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.
   D. METERING CONDUIT. SEE NOTE-14.
3. LOCATION OF TERMINATION OF SECONDARY SERVICE LATERAL AT PANEL 'MDP'. REFER TO "SINGLE-LINE
4. A. PROVIDE TWO 2" SCH. 40 PVC CONDUIT (ONE IS A SPARE), MINIMUM 24" BELOW FINISHED GRADE, FOR TELEPHONE SERVICE FROM TELEPHONE UTILITY SOURCE TO JUNCTION BOX INSIDE THE BUILDING. REFER TO SHEET E-221 FOR LOCATION OF JUNCTION BOX IN SERVICE AREA. REFER TO "TELEPHONE SERVICE CONDUIT DETAIL", SHEET E-101, FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION OF UTILITY SOURCE WITH TELEPHONE UTILITY. TERMINATE CONDUITS AT UTILITY SOURCE AS REQUIRED BY THE UTILITY COMPANY.
   B. PROVIDE ONE 3" SCH. 40 PVC CONDUIT, MINIMUM 24" BELOW FINISHED GRADE, FOR ISP SERVICE FROM UTILITY SOURCE TO JUNCTION BOX INSIDE THE BUILDING. REFER TO SHEET E-221 FOR LOCATION OF JUNCTION BOX IN BUILDING. REFER TO "TELEPHONE SERVICE CONDUIT DETAIL", SHEET E-101, FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION OF UTILITY SOURCE WITH SERVICE SUPPLY COMPANY. TERMINATE CONDUITS AT AS REQUIRED BY THE UTILITY COMPANY.
5. LOCATION OF DUMPSTER. REFER TO "REFUSE ENCLOSURE PLAN - ELECTRICAL", SHEET E-303 FOR ELECTRICAL REQUIREMENTS IN THIS AREA.
6. REFER TO SHEET E-303 FOR ELECTRICAL REQUIREMENTS AT MENU BOARD, DRIVE-THRU CANOPY, AND PRESELL MENU BOARD.
7. REFER TO SHEETS E-901, & E-902 FOR ELECTRICAL SPECIFICATIONS PERTAINING TO ELECTRICAL WORK DESCRIBED ON THIS SHEET.
8. REFER TO SHEET E-211 FOR LIGHTING FIXTURE SCHEDULE.
9. PROVIDE UNDERGROUND CONDUIT TO JUNCTION BOX IN OFFICE FOR POLE MOUNTED SECURITY CAMERA. REFER TO SHEET E-302 FOR LOCATION OF JUNCTION BOX IN OFFICE AND REQUIRED SIZE OF CONDUIT. COORDINATE EXACT CAMERA LOCATION WITH CHICK-FIL-A SECURITY SYSTEM REPRESENTATIVE PRIOR TO ROUGH-IN.
10. CONNECT SITE LIGHTING CIRCUITS TO TERMINAL BLOCKS LOCATED IN THE "CFA-T500" CONTROL PANEL (TYPICAL). SEE PANEL SCHEDULES ON SHEET E-501.
11. CONNECT SITE SIGNAGE CIRCUITS TO TERMINAL BLOCKS LOCATED IN THE "CFA-T500" CONTROL PANEL (TYPICAL). SEE PANEL SCHEDULES ON SHEET E-501. COORDINATE LOCATIONS OF ALL SIGNS WITH CHICK-FIL-A REPRESENTATIVE PRIOR TO BID AND PRIOR TO CONDUIT INSTALLATION.
12. PROVIDE GFCI TYPE WEATHERPROOF RECEPTACLE MOUNTED ON MAIN SIGN SUPPORT +14" AFG. THIS RECEPTACLE SHALL NOT BE SWITCHED. (BYPASS THE CONTACTOR AND SIGN'S DISCONNECT SWITCH.)
13. PROVIDE WEATHERPROOF 20A SPST TOGGLE SWITCH 18" AFG AND CONNECTION TO MAINTENANCE DISCONNECT SWITCH FOR MAIN I.D. SIGN.
14. PROPOSED LOCATION OF BUILDING MOUNTED ELECTRICAL UTILITY METER. METER BASE WILL BE FURNISHED BY THE UTILITY COMPANY AND INSTALLED BY THE CONTRACTOR. THE CURRENT TRANSFORMER CABINET SHALL BE FURNISHED AND INSTALLED ON THE BUILDING BY THE CONTRACTOR. THE CONTRACTOR SHALL ALSO FURNISH AND INSTALL A 1-1/4" RIGID GALVANIZED CONDUIT BETWEEN METER BASE AND CURRENT TRANSFORMER CABINET. COORDINATE LOCATIONS AND REQUIREMENTS WITH ELECTRIC UTILITY COMPANY PRIOR TO BID.
15. PROVIDE A 12' POLE FOR MOUNTING OF SECURITY CAMERA. POLE TO MATCH SITE LIGHTING POLES IN STYLE AND COLOR. PROVIDE UNDERGROUND CONDUIT TO JUNCTION BOX IN OFFICE FOR POLE MOUNTED SECURITY CAMERA. REFER TO SHEET E-302 FOR LOCATION FOR JUNCTION BOX IN OFFICE AND REQUIRED SIZE OF CONDUIT. COORDINATE EXACT CAMERA LOCATION WITH CHIC-FIL-A SECURITY SYSTEM REPRESENTATIVE PRIOR TO ROUGH-IN.

GENERAL ELECTRICAL SITE PLAN NOTES

(APPLIES TO THE ELECTRICAL SITE PLAN ONLY)

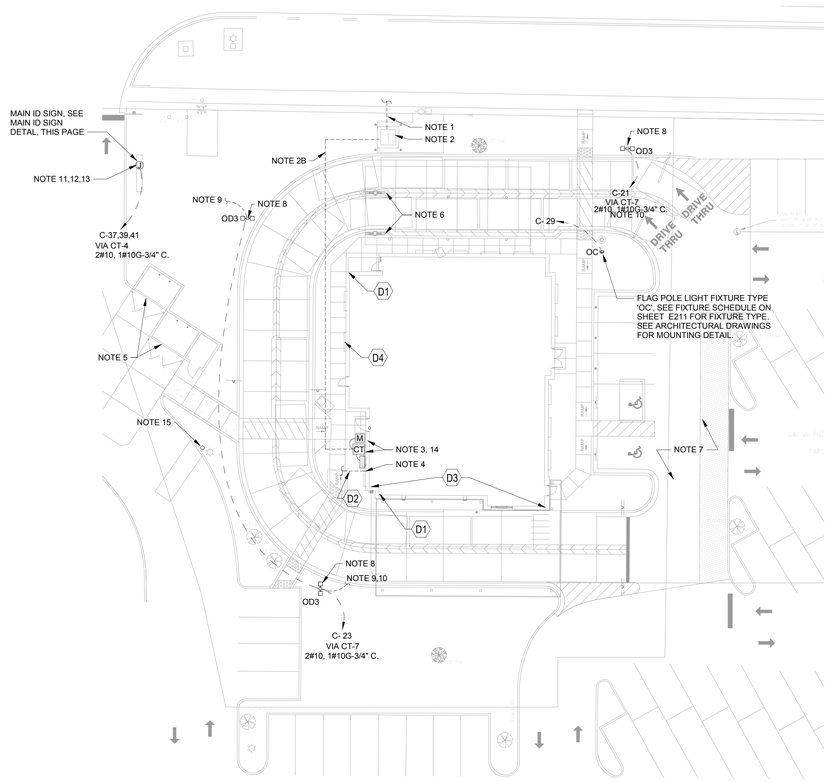
1. VERIFY WITH LOCAL AUTHORITIES AND UTILITIES THAT OWNER'S SIGNS, POLES, AND THEIR APPURTENANCES ARE NOT LOCATED ON OR OVER ANY EASEMENT OR MUNICIPAL RIGHT OF WAY.
2. SITE WORK, UTILITY, AND ROADWAY INFORMATION ARE TAKEN FROM BOUNDARY AND TOPO SURVEY SITE PLANS. REFER TO C-DRAWINGS.
3. MINIMUM CONDUIT SIZE SHALL BE 3/4"C. MINIMUM CONDUCTOR SIZE SHALL BE #10AWG COPPER UNLESS OTHERWISE NOTED.
4. REFER TO BUILDING ELECTRICAL DRAWINGS FOR EXTERIOR LIGHTING CONTROL.
5. FOR WORK UNDER THIS DIVISION, ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ONLY NEW AND U.L. LABELED ELECTRICAL EQUIPMENT, UNLESS INDICATED OTHERWISE BY THE CONTRACT DOCUMENTS.
6. FOR WORK UNDER THIS DIVISION, ELECTRICAL CONTRACTOR SHALL CONTACT ALL UTILITIES FOR VERIFICATION AND IDENTIFICATION OF ALL UNDERGROUND RUNS, PRIOR TO SITE TRENCHING ("CALL BEFORE YOU DIG").
7. FOR WORK UNDER THIS DIVISION, ELECTRICAL CONTRACTOR SHALL PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE (NFPA 70), AND THE LIFE SAFETY CODE (NFPA 101), AS ADOPTED AND/ OR AMENDED BY STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
8. FOR WORK UNDER THIS DIVISION, ELECTRICAL CONTRACTOR SHALL COORDINATE AND FIELD VERIFY LOCATIONS OF ALL UTILITY SERVICE RUNS, ORIGINATIONS, TERMINATIONS AND ANY INSTALLATION REQUIREMENTS (i.e. ELECTRICAL, TELEPHONE, WATER, GAS, SEWAGE, ETC.), AS RELATED TO THIS JOB, OR THEREBY EFFECTED.

POWER/TELEPHONE UTILITIES:

COORDINATE AND COMPLY WITH ALL TELEPHONE AND ELECTRICAL UTILITY REQUIREMENTS. THE FOLLOWING PERSONS SHALL BE CONTACTED FOR SPECIFIC UTILITY COMPANY REQUIREMENTS:

ELECTRICAL UTILITY: DUKE ENERGY
877-372-8477

TELEPHONE UTILITY : AT&T
888-944-0447



DT CASH STATION - KEYNOTES

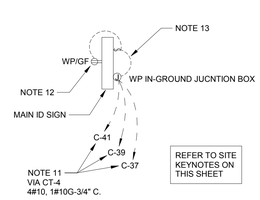
- D1 LOCATION OF A 360 DEGREE BUILDING MOUNTED EXTERIOR CAMERA (BY OTHERS). PROVIDE A 3/4" CONDUIT AT 9'-4" AFF TO AN EXTERIOR WALL MOUNTED WP JUNCTION BOX WITH THE CONDUIT ABOVE THE INTERIOR CEILING AND EXTENDED TO AN ACCESSIBLE CEILING AREA FOR CAMERA CABLES BY OTHERS.
- D2 PROVIDE AN EXTERIOR DUPLEX 120V, 20A RECEPTACLE AT 18"AFF WITH 'IN-USE' STYLE LOCKABLE WP COVER AND CONNECT TO A GENERAL PURPOSE 120V RECEPTACLE CIRCUIT.
- D3 PROVIDE A JUNCTION BOX ON THE INSIDE PARAPET WALL ABOVE THE ROOF WITH A 3/4" CONDUIT STUBBED DOWN INTO AN ACCESSIBLE CEILING SPACE AREA BELOW FOR THE OWNER PROVIDED WI-FI EXTERIOR ANTENNAE.
- D4 LOCATION OF BUILDING MOUNTED OMD CAMERA. PROVIDE 3/4" CONDUIT AT 9'-4" AFF TO THE CONDUIT ABOVE THE INTERIOR CEILING AND EXTENDED TO AN ACCESSIBLE CEILING AREA FOR CAMERA CABLES.

C1 ELECTRICAL SITE PLAN

1" = 20'-0"

ELECTRICAL SITE PLAN SYMBOLS

SYMBOL	DESCRIPTION (UNLESS OTHERWISE NOTED ON PLANS)
T	UTILITY COMPANY TRANSFORMER, (208 VOLT, 3 PHASE, 4 WIRE SECONDARY)
$	S.P.S.T. LIGHT SWITCH (600V AC QUIET TYPE)
GF	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE
	CONDUIT HOMERUN TO PANEL
J	JUNCTION BOX (SINGLE GANG STEEL WHERE WALL MOUNTED, 4" SQ. STEEL WHERE CEILING MOUNTED, UNLESS NOTED OTHERWISE)
	CONDUIT BURIED BELOW GRADE
	POLE MOUNTED SITE LIGHTING FIXTURE.



A1 MAIN ID SIGN DETAIL

N.T.S.

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

GPD GROUP, INC.
LIC. # - 30920
520 S. MAIN STREET, SUITE 2531
AKRON, OH 44311

STEVEN P. SCHAUB
LICENSE No. 75207
STATE OF FLORIDA
PROFESSIONAL ENGINEER
05/23/22

CHICK-FIL-A HUNT CLUB

2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571

BUILDING TYPE / SIZE: P13 SE ALL
RELEASE: v2_21.08
PRINTED FOR
ISSUED FOR CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 2021223.29
DATE 12/08/21
DRAWN BY Author

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SHEET
ELECTRICAL SITE PLAN

SHEET NUMBER
E-100

5/23/2022 9:31:40 AM BIM 360://FL_04571_Hunt Club_2021.11_FSR/04571_Hunt Club_ELE.rvt
50-SE-04571-E-100-ELECTRICAL SITE PLAN

1. SECTION C15100 - PLUMBING SPECIFICATIONS

PART I - PRODUCTS (C15100)

1.01 GENERAL REQUIREMENTS

A. THE FOLLOWING SPECIFICATIONS ARE THE MINIMUM REQUIREMENT. WHERE FEDERAL, STATE OR LOCAL REQUIREMENTS DIFFER FROM THIS SPECIFICATION, THE MORE STRINGENT OF THE TWO SHALL BE FOLLOWED.

1.02 SCOPE

A. HOT AND COLD POTABLE WATER PIPING ABOVE SLAB SHALL BE TYPE 'L' HARD DRAWN COPPER OR FLOWGUARD GOLD CPVC AS MANUFACTURED BY NIBCO OR CHARLOTTE PIPE & FOUNDRY AND MEETING ASTM D-2846. FILTERED WATER PIPING SHALL BE FLOWGUARD GOLD CPVC. HOT AND COLD PIPING WITHIN WALLS BEHIND KITCHEN HOODS SHALL BE COPPER.

B. POTABLE WATER PIPING BELOW SLAB AND OUTSIDE BELOW GRADE SHALL BE TYPE "K" SOFT ANNEALED SEAMLESS. NO JOINTS SHALL BE ALLOWED BELOW SLAB. POTABLE WATER PIPING BELOW GRADE SHALL BE SLEEVED FOR ITS ENTIRE LENGTH WITH POLY SLEEVE AS MADE BY IPS WATER-TITE. ALL SLAB PENETRATIONS SHALL BE SLEEVED WITH POLY SLEEVE TO PROTECT PIPING FROM CORROSION BY CONCRETE.

C. COPPER PIPE FITTINGS SHALL BE WROUGHT COPPER SWEEP PATTERN FITTINGS SOLDERED USING 95-5 LEAD-FREE SOLDER MEETING ASTM B-32 OR BRAZED WITH SIL-FOS. SOLDER FLUXES SHALL MEET ASTM B-813 AND SHALL BE LEAD FREE. BRAZING FLUXES SHALL MEET AWS FB3-A OR FB3-C.

D. WATER PIPING DOWNSTREAM OF SOFT DRINK CARBONATORS SHALL BE PROVIDED AND INSTALLED BY LOCAL SOFT DRINK VENDOR.

E. CPVC FITTINGS FOR PIPING SHALL BE SOLVENT WELD TYPE MEETING ASTM D-2846 WITH CEMENTS MEETING ASTM F-493 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. FOR CPVC PIPING INSTALLATION, WALL STUBS AT FIXTURES AND EQUIPMENT SHALL BE COPPER AND SHALL BE SERIES 630-C. CPVC-TO-COPPER STUB OUT ELBOWS BY SIOUX CHIEF.

F. NIPPLES, ELBOWS, AND OTHER ACCESSORY FITTINGS REQUIRED TO COMPLETE ANY WATER PIPING CONNECTION SHALL BE BRASS OR OF SIMILAR TYPE METAL AS THE FITTING TO WHICH IT IS CONNECTED. GALVANIZED FITTINGS ARE PROHIBITED. (EXCEPTION: GALVANIZED HEAT TRAP WATER HEATER NIPPLES IF INTERNALLY PROTECTED WITH TEFLON OR POLYMER CORROSION-RESISTANT COATING.)

G. ALL HVAC CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC DWV AS MANUFACTURED BY CHARLOTTE PIPE AND MEETING ASTM D-1784, D-1785 AND D-2665.

H. U.N.O., ALL SANITARY WASTE, VENT, STORM DRAINAGE PIPING AND FITTINGS INSIDE THE BUILDING, ABOVE AND BELOW GRADE, AND FOR ROOFTOP CONDENSATE, SHALL BE SOLID WALL SCHEDULE 40 PVC DWV AS MANUFACTURED BY CHARLOTTE PIPE AND MEETING ASTM D-2665 AND D-2949. FOAM CORE AND/OR CELLULAR CORE PVC PIPING SHALL NOT BE ALLOWED. PVC PIPING OUTSIDE THE BUILDING, BELOW GRADE, SHALL BE TYPE SDR-35 MEETING ASTM D-3034, U.N.O.

I. DWV PIPE AND FITTINGS WITHIN WALLS BEHIND KITCHEN HOODS SHALL BE SERVICE WEIGHT HUBLESS CAST IRON WITH SLEEVE, SHIELD, AND DRAWBAND JOINTS MEETING ASTM A-888 AND ASTM C-564.

J. PVC-DWV FITTINGS FOR PIPING SHALL BE SOLVENT WELD TYPE INSIDE AND UNDERSLAB MEETING ASTM D-2665, D-3311 AND F-186. CEMENTS SHALL MEET ASTM D-2564 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. EXTERIOR PIPING JOINTS SHALL BE NEOPRENE PUSH-ON TYPE.

K. PROVIDE 1" THICK PIPE INSULATION FOR ALL ABOVE SLAB HOT AND TEMPERED WATER PIPING. PROVIDE 1/2" THICK INSULATION FOR ALL ABOVE SLAB COLD WATER, FILTERED WATER, CONDENSATE PIPING, AND HORIZONTAL RAIN WATER CONDUCTORS INSIDE THE BUILDING. PIPING INSULATION SHALL BE KNAUF 1000F 25/50 FIBERGLASS PIPE COVERING, WHITE KRAFT PAPER VAPOR BARRIER (.02 PERMS) BONDED TO ALUMINUM FOIL AND REINFORCED WITH GLASS FIBERS. MAXIMUM THERMAL CONDUCTIVITY OF 0.23 AT 75F. LONGITUDINAL LAP SHALL BE SELF SEALING. INSULATION FOR WALK-IN COOLER/FREEZER CONDENSATE PIPING SHALL BE ARMACELL A/P ARMAFLEX WITH MINIMUM 3/4" WALL THICKNESS.

L. PIPE INSULATION AND COVERINGS SHALL HAVE A RATING OF NOT GREATER THAN 25 FLAME SPREAD, NO HIGHER THAN 50 SMOKE DEVELOPED, AND NO MORE THAN 50 FUEL CONTRIBUTED. THE ONLY EXCEPTION SHALL BE ARMAFLEX AP, WHEN SPECIFIED, WHICH SHALL NOT EXCEED 100 SMOKE DEVELOPED.

M. A PVC 25/50 PRE-FORMED COVER SHALL BE PROVIDED AT ALL INSULATED PIPING FITTINGS EQUAL TO PROTO PVC CORP LOSMOKE, 800-875-7768.

N. ALL ABOVE GRADE NATURAL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL MEETING ASTM A53 WITH SCREWED OR WELDED FITTINGS AND GASKET TYPE UNIONS AND FLANGES. FOR SCREWED PIPING, PIPING SHALL BE JOINED WITH BLACK 150 POUND MALLEABLE IRON SCREWED FITTINGS AS ALLOWED BY LOCAL AUTHORITY. CONTRACTOR SHALL VERIFY THE NEED FOR WELDED PIPING AS REQUIRED BY THE LOCAL GAS CODE AND/OR APPLICABLE LOCAL ORDINANCES AND AMENDMENTS.

O. ALL BELOW GRADE NATURAL GAS PIPING SHALL BE MEDIUM DENSITY POLYETHYLENE (PE) MEETING ASTM D2513 AS MANUFACTURED BY GASTITE WITH JOINING SYSTEM AS MANUFACTURED BY CON-STAB. TRANSITIONS FROM ABOVE GRADE RIDGID PIPING TO PE BELOW GRADE PIPING SHALL BE MADE WITH ANODE-LESS RISER ASSEMBLY AS MANUFACTURED BY CON-STAB.

P. EXPOSED SUPPORTS AND ATTACHMENTS SHALL BE STAINLESS STEEL, CHROME OR CHROME PLATED. GALVANIZED ATTACHMENTS WILL NOT BE ACCEPTED.

Q. USE MATERIALS SPECIFIED ON THESE PLANS. SUBSTITUTIONS ARE ALLOWED ONLY IF SPECIFIED MATERIALS ARE UNAVAILABLE. PRODUCT SUBSTITUTIONS WILL NOT BE ACCEPTED WITHOUT PRIOR APPROVAL. ALL WATER PIPING, FITTINGS, FIXTURES AND ACCESSORIES SHALL BE CERTIFIED LEAD FREE AS DEFINED IN, AND PER THE INTENT OF, THE "REDUCTION IN LEAD IN DRINKING WATER ACT".

PART II - EXECUTION (C15100)

2.01 TRENCHING (C15100)

A. EXCAVATION, BACKFILLING, AND TRENCH WORK SHALL BE DONE IN ACCORDANCE WITH LATEST O.S.H.A. AND APPLICABLE SAFETY STANDARDS.

B. PROVIDE NECESSARY SHORING AND CLEANING TO KEEP TRENCHES IN GOOD WORKING CONDITION, INCLUDING PUMPING OUT WATER.

C. IN MOSTLY ROCK MATERIAL, TRENCHES SHALL BE EXCAVATED TO 6" BELOW THE ELEVATION OF THE BOTTOM OF THE PIPES. AFTER EXCAVATION, TRENCH SHALL THEN BE FILLED TO THE PROPER ELEVATION WITH CRUSHED LIMESTONE. GRAVEL SHALL BE REMOVED FROM UNDER PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH BOTTOM.

D. IN MOSTLY EARTH OR SAND MATERIAL, TRENCHES SHALL BE EXCAVATED TO 6" BELOW THE ELEVATION OF THE BOTTOM OF THE PIPES. AFTER EXCAVATION, TRENCH SHALL THEN BE FILLED TO THE PROPER ELEVATION WITH FINE SAND OR GRAVEL. TRENCH BOTTOM SHALL BE REMOVED AT PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH BOTTOM.

E. BACKFILLING AND TAMPING SHALL BE CAREFULLY DONE BY HAND SIMULTANEOUSLY ALONG BOTH SIDES OF THE PIPE USING ROCK FREE EARTH, CRUSHED STONE OR SAND UNTIL THE PIPE IS COVERED TO A DEPTH OF AT LEAST 12". BACKFILL SHALL BE ACCOMPLISHED IN SUCCESSIVE 6" LAYERS. THE REST OF THE FILL-UP TO THE TOPSOIL LAYER MAY BE GRAVEL OR ROCK FREE EARTH.

F. ACCEPTABLE SOIL MATERIALS FOR BACKFILL AND FILL SHALL BE FREE OF CLAY, ROCK OR GRAVEL LARGER THAN 2" IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS AND OTHER DELETERIOUS MATTER HAVING A PLASTICITY INDEX LESS THAN 30. BACKFILL SHALL BE ACCOMPLISHED IN LAYERS OF NOT MORE THAN 6" AND EACH LAYER SHALL BE COMPACTED. THE LAST 12" OF BACKFILL SHALL BE ROCK FREE TOPSOIL.

G. SURFACE SHALL BE RESTORED TO ITS ORIGINAL CONDITION.

2.02 INSTALLATION (C15100)

A. WATER PIPING IN EXTERIOR WALL SHALL BE INSTALLED ON THE HEATED SIDE OF WALL INSULATION.

B. EXPOSED HOT AND COLD WATER TRIM FITTINGS AND ACCESSORIES IN FINISHED AREAS SHALL BE CHROME FINISHED.

C. ACCEPTABLE METHODS OF PIPE SUPPORT WITHIN WALLS SHALL BE THE SUMNER SYSTEM, POSIFIX, STAKFIX, PIPEFIX, HOLDRITE OR CHANNEL.

D. PROVIDE J.R. SMITH OR APPROVED EQUAL SHOCK ABSORBERS #5005 THRU 5050 SIZE AS RECOMMENDED BY MANUFACTURER INSTALLED ON HOT AND COLD WATER BRANCH LINES CONTAINING SINGLE LEVER FAUCETS, FLUSH VALVES OR EQUIPMENT WITH QUICK CLOSING VALVES BETWEEN THE LAST TWO FIXTURES AS SHOWN ON THE CONTRACT DRAWINGS. SHOCK ABSORBERS SERVICING FIXTURES WITH FLUSH VALVES SHALL BE SECURELY ANCHORED IN THEIR VERTICAL POSITION.

E. SANITARY WASTE LINES SHALL BE UNIFORMLY GRADED TO ELEVATIONS SHOWN. IF NO ELEVATIONS ARE GIVEN, SEWERS SHALL BE PITCHED NOT LESS THAN 1/4" PER FOOT FOR ALL PIPING 2-1/2" IN DIAMETER AND SMALLER AND 1/8" PER FOOT FOR ALL PIPING 3" IN DIAMETER AND LARGER.

F. STORM PIPING SHALL BE SLOPED AT 1/4" PER FT (2%) UNLESS NOTED OTHERWISE ON PLANS.

G. SUPPORT HORIZONTAL PIPING ACCORDING TO LOCAL PLUMBING CODE. HANGER RODS SHALL BE SIZED AS FOLLOWS:

NOMINAL PIPE SIZE (IN)	MINIMUM HANGER DIAMETER (IN)
1/2	3/8
3/4 TO 1-1/2	3/8
2 TO 2-1/2	3/8
3 TO 6	1/2

H. HANGERS FOR PIPING GREATER THAN 1" SHALL PASS OVER THE INSULATION. PROVIDE SADDLES FOR INSULATED PIPING.

I. INSULATION SHALL BE APPLIED WITH JOINTS TIGHTLY BUTTED. OPEN CRACKS, VOIDS AND DEPRESSIONS SHALL BE FILLED WITH HYDRAULIC SETTING CEMENT. LAPPING MATCHING THE FINISH SHALL BE PASTED NEATLY OVER JOINTS. FITTINGS AND VALVES SHALL BE INSULATED WITH THE SAME TYPE.

J. PROVIDE AND INSTALL A CUT-OFF VALVE, UNION AND FULL SIZE DIRT LEG AT CONNECTION TO EACH GAS-FIRED PIECE OF EQUIPMENT. INSTALL PIPING AT AND AROUND EQUIPMENT SO AS TO NO WAY OBSTRUCT EQUIPMENT ACCESS PANELS AND/OR ACCESS DOORS.

K. COORDINATE ABOVE-CEILING PIPING LOCATIONS AND ROUTING WITH HVAC CONTRACTOR AND M-SHEETS PRIOR TO INSTALLATION. ALL MAIN DUCT TRUNK LOCATIONS SHALL TAKE PRIORITY. PIPING MAY REQUIRE REMOVAL AND REINSTALLATION AT PLUMBING CONTRACTOR'S EXPENSE IF PIPING OBSTRUCTS THE M-SHEET DUCT LAYOUT AS SHOWN OR PREVENTS ACCESS TO GREASE DUCT CLEANOUT OPENINGS.

L. ALL GAS PIPING ABOVE ROOF SHALL BE CLEANED FREE OF RUST AND PAINTED WITH COAT OF ZINC RUST PRIMER AND ONE COAT OF ALUMINUM BASE PAINT. METER AND GAS RISER SHALL BE PRIMED AND PAINTED TO MATCH BUILDING.

2.03 TESTING (C15100)

A. POTABLE WATER PIPING SHALL BE PRESSURE TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

B. THE POTABLE WATER SYSTEM SHALL BE FLUSHED OUT PROGRESSIVELY BY OPENING OUTLETS AND FLOWING WATER UNTIL IT RUNS CLEAR. AFTER PIPE CLEANING IS COMPLETED, THE STRAINERS SHALL BE REMOVED, CLEANED, AND REPLACED. THEN THE ENTIRE POTABLE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.

C. THE SANITARY WASTE SYSTEM SHALL BE FLUSHED OUT PROGRESSIVELY WITH FLOWING WATER UNTIL IT RUNS CLEAR.

D. THE ENTIRE SANITARY WASTE SYSTEM AND STORM DRAINAGE SYSTEM SHALL BE PRESSURE TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

E. NATURAL GAS PIPING SHALL BE LEAK TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

PART III - MANUFACTURERS

3.01 PRODUCTS - PIPING SYSTEMS, ETC (C15100)

A. HYDRANTS, CARRIERS, DRAINS, AND SHOCK ABSORBERS: ZURN. ACCEPTABLE ALTERNATES: JAY R. SMITH, JONES STEPHENS CORP, WATTS, OR JOSAM.

B. ALTERNATES TO ZURN (ZRN) FIXTURES: ONLY AS SHOWN ON PLANS. APPROVED JAY R. SMITH (JRS), WATTS (WTS), MODEL NUMBERS LISTED ON FIXTURE SCHEDULE, THIS SHEET.

3.02 PRODUCTS - RESTROOM FIXTURES PORCELAIN & VALVES (C15405)

A. PREFERRED FIXTURES: TOTO. NO EXCEPTION.

B. ALTERNATE FIXTURES: ONLY AS SHOWN ON PLANS.

C. FITTINGS: AS SPECIFIED ON THE PLANS. NO SUBSTITUTIONS ALLOWED.

D. FLUSH VALVES AND LAVATORY FAUCETS: TOTO MANUFACTURING. NO SUBSTITUTIONS ALLOWED.

E. PREFERRED TOILET SEATS: TOTO. ALTERNATE TOILET SEATS: CHURCH, BEMIS, AND BENEKE.

F. FLOOR SINKS: ZURN WITH ALUMINUM SEDIMENT BUCKETS. NO SUBSTITUTIONS ALLOWED.

NATIONAL ACCOUNTS

1. TOTO VALVES AND FIXTURES (NO SUBSTITUTIONS). HAINES, JONES & CADBURY LLC. (HJC DISTRIBUTORS). PLEASE CONTACT HJC-CFA CUSTOMER SERVICE REPRESENTATIVE AT (800) 459-7099 OR VIA E-MAIL AT: **CF@HJCINC.COM** FOR NATIONAL ACCOUNT PRICING AND DELIVERY FOR ALL ITEMS ON PLUMBING FIXTURE SCHEDULE.

2. PLUMBING FIXTURES

RESTROOM FIXTURES (C15405) AND PLUMBING (15100)

P-1 WATER CLOSET: TOTO MODEL CT705UN#01 BOWL WITH 1.28 GPF TET1LA32#CP ECO-POWER FLUSH VALVE AND SC534 SEAT (ALL PROVIDED BY HJC). NO SUBSTITUTIONS. WHITE, FLOOR MOUNTED, FLUSH VALVE TYPE, VITREOUS CHINA, 1-1/2" TOP SPUD, ELONGATED BOWL, ELECTRONIC SENSOR OPERATED HANDS-FREE FLUSH VALVE, WHITE OPEN FRONT SEAT WITH CHECK HINGE. CHICK-FIL-A HAS NATIONAL ACCOUNTS WITH TOTO. PLEASE SEE NATIONAL ACCOUNT INFORMATION ON THIS SHEET FOR PRICING OF TOTO FIXTURES.

P-2 WATER CLOSET (ADA): TOTO MODEL CT705ULN#01 BOWL WITH 1.28 GPF TET1LA32#CP ECO-POWER FLUSH VALVE AND SC534 SEAT (ALL PROVIDED BY HJC). NO SUBSTITUTIONS. H.C. ACCESSIBLE, WHITE, FLOOR MOUNTED, 17-1/2" HIGH, FLUSH VALVE TYPE, VITREOUS CHINA, 1-1/2" TOP SPUD, ELONGATED BOWL, ELECTRONIC SENSOR OPERATED HANDS-FREE FLUSH VALVE, WHITE OPEN FRONT SEAT WITH CHECK HINGE. CHICK-FIL-A HAS NATIONAL ACCOUNTS WITH TOTO. PLEASE SEE NATIONAL ACCOUNT INFORMATION ON THIS SHEET FOR PRICING OF TOTO FIXTURES.

P-3 URINAL: TOTO MODEL UT445U#01 URINAL WITH TEU1UA12#CP 0.125 GPF SELF SUSTAINED HYDROPOWER SELF-GENERATING ELECTRONIC SENSOR-OPERATED FLUSH VALVE (BOTH PROVIDED BY HJC). NO SUBSTITUTIONS. VITREOUS CHINA, 3/4" TOP SPUD, SENSOR OPERATED WITH MANUAL OVERRIDE BUTTON, INTERNAL VALVE FILTER PROTECTION. PLEASE SEE NATIONAL ACCOUNT INFORMATION ON THIS SHEET FOR PRICING OF TOTO PRODUCTS.

P-4A LAVATORY FAUCET: (BUILT-IN COUNTERTOP LAVATORY PROVIDED BY OWNER) TOTO MODEL TEL 155-D10ET#CP ECO-POWER SENSOR HOT/COLD FAUCET WITH THERMOSTATICALLY CONTROLLED ASSE 1070 MIXING VALVE FAUCET. 0.09 GALLONS PER CYCLE. NO SUBSTITUTIONS. PROVIDE MCGUIRE LF175 SUPPLY WITH STOP, MCGUIRE 155-WC GRID DRAIN WITH OFFSET TAILPIECE. MCGUIRE 8872C POLISHED CHROME P-TRAP. P-TRAP SHALL BE PARALLEL WITH BACK WALL. TRUEBRO INC., HANDI LAV-GUARD INSULATION KITS MODELS 101EZ AND 105EZ. (ALL PROVIDED BY HJC). CHICK-FIL-A HAS NATIONAL ACCOUNTS WITH TOTO. PLEASE SEE NATIONAL ACCOUNT INFORMATION ON THIS SHEET FOR PRICING OF TOTO FIXTURES.

P-4B LAVATORY FAUCET: (LAVATORY PROVIDED BY HJC) TOTO MODEL LT307 ECO-POWER SENSOR HOT/COLD FAUCET MODEL TEL105-D10ET#CP WITH THERMOSTATICALLY CONTROLLED ASSE 1070 MIXING VALVE FAUCET. 0.09 GALLONS PER CYCLE. NO SUBSTITUTIONS. MCGUIRE LF175 SUPPLY WITH STOP, MCGUIRE 155-WC GRID DRAIN WITH OFFSET TAILPIECE. MCGUIRE 8872C POLISHED CHROME P-TRAP. P-TRAP SHALL BE PARALLEL WITH BACK WALL. TRUEBRO INC., HANDI LAV-GUARD INSULATION KITS MODELS 101EZ AND 105EZ. (ALL PROVIDED BY HJC). CHICK-FIL-A HAS NATIONAL ACCOUNTS WITH TOTO. PLEASE SEE NATIONAL ACCOUNT INFORMATION ON THIS SHEET FOR PRICING OF TOTO FIXTURES.

P-5 KITCHEN HAND SINK ROUGH IN: SINK BY TMS; FAUCET: TOTO MODEL #TEL165-C20E#CP - PROVIDED BY HJC WITH THP3094 NOZZLE. CONTRACTOR SHALL INSTALL WALL HUNG, STAINLESS STEEL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. MCGUIRE LF175 SUPPLIES WITH STOPS AND A MCGUIRE 8912C POLISHED CHROME P-TRAP (PROVIDED BY HJC). ADJUST FAUCET OUTLET TEMPERATURE TO 110 DEGREES F (OR HIGHER AS REQUIRED BY LOCAL JURISDICTION).

P-5A KITCHEN DUMP SINK ROUGH IN: (SINK BY TMS; FAUCET: T&S MODEL # B-1146-CFA-VF05 - PROVIDED BY HJC WITH THP3094 NOZZLE) CONTRACTOR SHALL INSTALL WALL HUNG, STAINLESS STEEL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. MCGUIRE LF175 SUPPLIES WITH STOPS (PROVIDED BY HJC).

P-6 SERVING COUNTER DROP IN SINK ROUGH IN: (SINK PROVIDED BY CLAYTON FIXTURE; FAUCET-T&S EC-3100-7XF1THG WITH 1.0 GPM AERATOR PROVIDED BY HJC) CONTRACTOR SHALL INSTALL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. MCGUIRE 8912C POLISHED CHROME P-TRAP AND MCGUIRE LF175R20 STOPS WITH 20" CHROME PLATED 3/8" COPPER RISERS (PROVIDED BY HJC). ADJUST FAUCET OUTLET TEMPERATURE TO 110 DEGREES F (OR HIGHER AS REQUIRED BY LOCAL JURISDICTION).

P-7 MOP SINK FAUCET: (MOP SINK BASIN BUILT BY GENERAL CONTRACTOR) PROVIDE T&S BRASS MODEL B-2345 FAUCET WITH CERAMA SPRING CHECK VALVE CARTRIDGES, HOSE THREAD SPOUT OUTLET, TOP BRACE, ADJUSTABLE INLET SPREAD FROM 3" TOP 8". INCLUDE T&S BRASS MODEL 43-072 HOSE THREAD X 3/4" FEMALE NPT CHROME ADAPTOR (ALL PROVIDED BY HJC). NO SUBSTITUTIONS. SEE ALSO P-16.

P-8 VEGETABLE PREP SINK ROUGH-IN: (SINK PROVIDED BY TMS; FAUCET T&S B-0152-14-CRBCT WITH 0.65 GPM SPRAY HEAD BY HJC) CONTRACTOR SHALL INSTALL SINK AND MAKE FINAL CONNECTIONS. MCGUIRE LFST08 STOPS AND BRASSCRAFT 36" CHROME PLATED 1/2" OD COPPER RISERS MODEL 3-36AC (PROVIDED BY HJC), ASSEMBLE AND MOUNT TWO HANDLE FAUCET WITH PRE-RINSE SPRAY ARM. INSTALL ADD-ON FAUCET WITH SPOUT AT BASE OF PRE-RINSE RISER. SEE K-SHEET ELEVATIONS. PROVIDE 1-1/2" SCHED 80 PVC (PIPE AND FITTINGS) INDIRECT WASTE LINES FROM SINK BASINS TO FLOOR SINK P-13B, NO P-TRAPS REQUIRED. HJC TO PROVIDE FISHER #22209 DRAINS WITH FLAT STRAINERS.

P-9 FOUR COMPARTMENT POT SINK ROUGH-IN: (SINK PROVIDED BY TMS; FAUCETS: T&S B-0152-14CRBCT & B2299-CR WITH 0.65 GPM SPRAY HEAD PROVIDED BY HJC) CONTRACTOR SHALL INSTALL SINK, ASSEMBLE & MOUNT TWO FAUCETS. AND MAKE FINAL CONNECTIONS. MCGUIRE LFST08 STOPS AND BRASSCRAFT 36" CHROME PLATED 1/2" OD COPPER RISERS MODEL 3-36AC (PROVIDED BY HJC). ASSEMBLE AND MOUNT ONE TWO-HANDLE FAUCET WITH PRE-RINSE SPRAY. INSTALL ADD-ON FAUCET WITH SPOUT AT BASE OF PRE-RINSE RISER. ASSEMBLE AND MOUNT ONE TWO-HANDLE FAUCET WITH DOUBLE JOINT SPOUT ON OPPOSITE SIDE. SEE K-SHEET ELEVATIONS FOR FAUCET LOCATIONS. PROVIDE 1-1/2" SCHED 80 PVC (PIPE AND FITTINGS) INDIRECT WASTE LINES FROM EACH SINK BASIN TO FLOOR SINK P-13A, NO P-TRAPS REQUIRED. HJC TO PROVIDE FISHER #22209 DRAINS WITH FLAT STRAINERS.

P-10 FLOOR DRAIN (3"): ZURN EZ1-PV3-R8 PVC BODY, BRONZE SPUD WITH 8" DIAMETER NICKEL BRONZE STRAINER (PROVIDED BY HJC). ALT: JONES STEPHENS CORP D53-144.

P-11 WALL HYDRANT (NON-FREEZE): WOODFORD MODEL 67C AUTOMATIC DRAINING WALL HYDRANT WITH DUAL CHECK BFP, ASSE 1052 APPROVED, WALL CLAMP, POLISHED BRASS FINISH (PROVIDED BY HJC). "C" STYLE INLET, SEE WALL HYDRANT NOTES ON 1/P-201 FOR WALL THICKNESS AT WALL HYDRANTS. ALT: (WTS) HY-42.

P-12 FUNNEL DRAIN (3"): ZURN MODEL ZN415-3NL-6S-4 FLOOR DRAIN W/FUNNEL. INDIRECT WASTE RECEIVER WITH NICKEL BRONZE STRAINER AND FUNNEL. PROVIDE 6" SQUARE STRAINER WITH 4" ROUND FUNNEL AT ICE MACHINE & WALK-IN COOLER (PROVIDED BY HJC). ALT: 4" ROUND FUNNEL (ZURN) ZN328-4.

P-13A FLOOR SINK (POT SINK): ZURN MODEL Z1901-4NL-1-23-KC CAST IRON INDIRECT WASTE RECEIVER WITH 12" SQUARE BODY, FLASHING CLAMP, 8" DEEP, ALUMINUM SEDIMENT BUCKET, AND NO GRATE. NO SUBSTITUTIONS (PROVIDED BY HJC).

P-13B FLOOR SINK (VEGETABLE SINK): ZURN MODEL Z1910-KC-3NL-1-23 CAST IRON INDIRECT WASTE RECEIVER WITH FLASHING CLAMP, 8" SQ. BODY, ALUMINUM SEDIMENT BUCKET, AND NO GRATE (PROVIDED BY HJC). NO SUBSTITUTIONS.

P-14 CLEANOUTS INSIDE BUILDING: ZURN ZN1400-XNL-T-BP CLEANOUT WITH 6" SQUARE NICKEL BRONZE TOP AND TAPER THREAD BRONZE PLUG. SEE PLAN FOR SIZE. (X=PIPE DIA) (PROVIDED BY HJC).

P-16 3-WAY DIVERTER VALVE ASSEMBLY: WATTS MODEL LFB 6780 ROUGH BRASS LEAD-FREE DIVERTER BALL VALVE WITH 3/4" FIP INLET AND OUTLETS AND QUARTER TURN LEVER HANDLE. PROVIDE WITH TWO (2) FORGED BRASS 3/4" MIP X 3/4" MALE GARDEN HOSE THREAD ADAPTERS (PLUMBEST MODEL G20-103 OR EQUAL). PROVIDE WITH ONE ASSE 1011 APPROVED CHROME PLATED VACUUM BREAKER (WOODFORD MODEL 34H-CH OR EQUAL) (ALL PROVIDED BY HJC). FOR INSTALLATION AT MOP SINK. SEE 4/P-201. PROVIDE ALSO TWO 3/4" CLOSE CHROME PLATED BRASS NIPPLE AND 3/4" POLISHED CHROME 90 DEGREE ELBOW.

P-17 VACUUM RELIEF VALVE: WATTS MODEL #LFN36M1, 3/4" CONNECTION. (PROVIDED BY HJC.)

P-18 EXPANSION TANK: AO SMITH MODEL TW12-5, ACCEPTANCE 2.19 GALLONS (PROVIDED BY HJC) AT 40 PSI PRECHARGE, 3/4" CONNECTION. ALTERNATE MODELS SIZED PER WATER HEATER MANUFACTURER RECOMMENDATIONS ARE ACCEPTABLE.

P-19 WATER HEATER: BRADFORD-WHITE EF-60T-125E-3N STORAGE TYPE GAS FIRED 60 GALLON WATER HEATER, 125MBH INPUT, 145 GPH RECOVERY AT 100F RISE, DIRECT VENT, BLOWER POWERED, CONDENSING TYPE WITH THREE-YEAR WARRANTY (PROVIDED BY HJC). CONTRACTOR TO PROVIDE DIELECTRIC HEAT TRAP NIPPLES. STATE INDUSTRIES SUF-100-199-NE, RHEEM GHE80-130, AND BRADFORD-WHITE EF-60T-199-3N MODELS ARE ACCEPTABLE SUBSTITUTES. (ANY SUBSTITUTIONS PROVIDED ON REQUEST FROM HJC.)

P-20 THERMOMETER: PROVIDE TRERICE MODEL B83404 - 04 3" DIAL TYPE THERMOMETER WITH BOTTOM 1/2" N.P.T. CONNECTION, 4" STEM AND 0 DEG F TO 200 DEG F RANGE. LEAD FREE. (PROVIDED BY HJC.)

P-21 BACKFLOW PREVENTERS: COORDINATE LOCATION WITH CIVIL SITE UTILITY PLAN. BACKFLOW PREVENTER TYPE AND MODEL IS DETERMINED BY CIVIL ENGINEER IF LOCATED OUTSIDE THE BUILDING.

DOUBLE CHECK TYPE:
WATTS NO. LFU007M1QT 1-1/2" DUAL CHECK MODULAR TYPE BACKFLOW PREVENTER MEETING ASSE 1015 AND AWWA C510-92. WHERE REQUIRED BY LOCAL AUTHORITY, USE THE RPZ TYPE BFP SHOWN BELOW. ALT: (ZRN) 112-350XL.

REDUCED PRESSURE ZONE (RPZ) TYPE:
WATTS NO. LFU009M2 1-1/2" MODULAR TYPE WITH TEST PORTS AND INTERMEDIATE RELIEF VALVE MEETING ASSE 1013 AND AWWA C511-89. PROVIDE WATTS NO. 909-AG-C AIR GAP DEVICE. ALT: (ZRN) 112-975XLT2U.
(ANY AND ALL PROVIDED BY HJC.)

REDUCED PRESSURE ZONE (RPZ) TYPE:
WATTS NO. LFU009M2 1-1/2" MODULAR TYPE WITH TEST PORTS AND INTERMEDIATE RELIEF VALVE MEETING ASSE 1013 AND AWWA C511-89. PROVIDE WATTS NO. 909-AG-C AIR GAP DEVICE. ALT: (ZRN) 112-975XLT2U.

P-22 MOP SINK CHECK VALVES: T&S BRASS 1/2" MODEL B-CVV1-2 BALL CHECK. (PROVIDED BY HJC)

P-23 UTILITY CONNECTION (ICEMAKER): PROVIDE A MCGUIRE MODEL LFHST06SB LEAD-FREE CHROME WHEEL ANGLE STOP, 1/2" FIP INLET AND OUTLET (PROVIDED BY HJC). PROVIDE CHROME WALL ESCUTCHEON. INSTALL WITH BFP P-34. SEE DETAIL 3/P-201 FOR PIPING AT ICE MAKERS.

P-24 UTILITY CONNECTION (COFFEE & TEA BREWERS): PROVIDE A MCGUIRE MODEL LFHST06SB LEAD-FREE CHROME WHEEL ANGLE STOP, 1/2" FIP INLET AND OUTLET (PROVIDED BY HJC). PROVIDE CHROME WALL ESCUTCHEON. INSTALL WITH BFP P-34.

P-25 SHOCK ABSORBER: ZURN Z1700-100 THRU Z1700-300 AS NEEDED, SIZE AS RECOMMENDED BY MANUFACTURER (PROVIDED BY HJC). ALT: (WTS) SSA + SSB; (JRS 5005 THROUGH 5050)

P-26 FUNNEL DRAIN (3"): ZURN ZN415-3NL-8S-OF FLOOR DRAIN W/FUNNEL. INDIRECT WASTE RECEIVER WITH NICKEL BRONZE STRAINER AND FUNNEL. PROVIDE 8" ROUND STRAINER WITH 3.25"X 8.25" OBLONG FUNNEL (DRAIN AND STRAINER PROVIDED BY HJC). ALT: (JRS) 3510L03-F22NB.

P-26A TRAP SEAL PROTECTOR: PROVENT TRAP GUARD MODEL TG3H 3" TRAP SEAL INSERT FOR INTERIOR INSTALLATION AND REPLACEMENT ACCESS THROUGH STRAINER (PROVIDED BY HJC). PROVIDE AT P-35 FLOOR DRAINS IN RESTROOMS, P-37 FLOOR DRAINS DINING ROOM, AND P-26/P-10 DRAINS IN MECH ROOM. PROVIDE PROSET MODEL TG33-ZURN WHEN USING ZURN FLOOR FIXTURES (PROVIDED BY HJC).

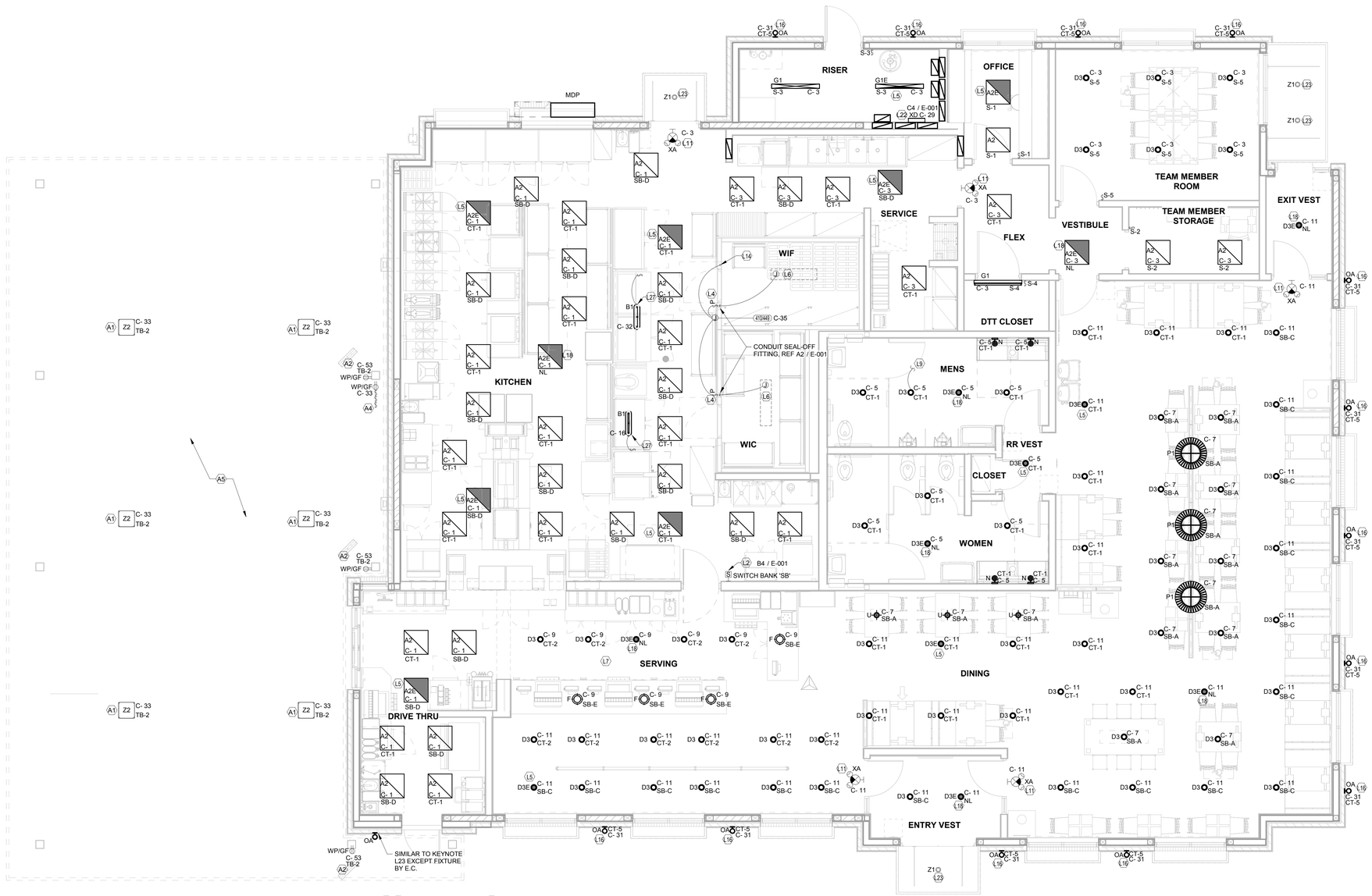
P-27 WATER PRESSURE GAUGE: TRERICE MODEL 800B, 2-1/2" ROUND, BOTTOM OUTLET WITH 1/4" N.P.T. CONNECTION AND 0 TO 100 PSI RANGE. (PROVIDED BY HJC.)

P-28 ISOLATION BALL VALVE (8-STOP WATER MANIFOLD PANEL): NIBCO MODEL 4660-T, 3/4", WITH IPS INLET AND OUTLET. (PROVIDED BY HJC.)

P-29 ICE MACHINE TRENCH DRAIN: ZURN/STAINLESS DRAINS TR12-CFA-XX STAINLESS STEEL TRENCH DRAIN, 14.5" X XX", STAINLESS STEEL SEDIMENT CUP AND STAINLESS STEEL SERRATED LADDER GRATE (XX=DRAIN WIDTH, 18"/36"/48") (PROVIDED BY HJC). NO SUBSTITUTIONS.

P-30 FILTERED WATER FAUCET: (FAUCETS: T&S B-02326-CR-063X PROVIDED BY HJC) TWO-HANDLE WALL MOUNT FAUCET WITH SWING SPOUT. MOUNT ON WALL AS SHOWN ON K-SHEETS. PIPE FILTERED WATER TO BOTH SIDES OF FAUCET. CONNECT TO SUPPLY PIPING WITH BRASS OR CHROME NIPPLES; GALVANIZED NOT ALLOWED.

P-31 DUMPSTER POST HYDRANT (NON-FREEZE): WOODFORD MODEL Y2 LEVER TYPE POST HYDRANT, 3/4 HOSE CONNECTION, LOCKABLE LEVER HANDLE, BRASS CASING,



B1 LIGHTING PLAN - LRG

1/4" = 1'-0"

LIGHTING FIXTURE (LUMINAIRE) SCHEDULE - CHICK-FIL-A P13 EDITION

NOTE: NOT ALL FIXTURE TYPES ARE USED IN ALL OF THE P13 BUILDINGS. CONFIRM WITH THE LIGHTING VENDOR FOR ANY UPDATES TO THE CURRENT LIGHTING MANUFACTURER AND CATALOG NUMBER.

MARK	MANUFACTURER	CATALOG NUMBER	NO. LAMPS/TYPE	WATTS	VOLTS	MOUNTING	REMARKS
A2	COOPER/METALUX	22FP4240C	INTEGRAL WITH FIXTURE	39 VA	120 V	RECESSED	2X2 LED FLAT PANEL
A2E	COOPER/METALUX	22FP4240C	INTEGRAL WITH FIXTURE	39 VA	120 V	RECESSED	2X2 EMERGENCY LED FLAT PANEL
B1	COOPER/METALUX	2VT3-LD5-4-G-120V-L840-CD1-SSL-U	INTEGRAL WITH FIXTURE	32 VA	120 V	SURFACE	MOUNT LIGHT TO BTM OF OVERHEAD WIRE SHELVING WITH CORD & PLUG
D3	COOPER/HALO	HC620D010-HM612830-61NDC	INTEGRAL WITH FIXTURE	21 VA	120 V	RECESSED	LED DOWNLIGHT WITH CLEAR REFLECTOR & TRIM RATED 2000 LUMENS, 3000K COLOR TEMP
D3E	COOPER/HALO	HC620D010IEM14-HM612830-61NDCIEM	INTEGRAL WITH FIXTURE	21 VA	120 V	RECESSED	SAME AS 'D3' EXCEPT WITH EMERGENCY BATTERY PACK/INTEGRAL TEST SWITCH
F	MEYDA	30894-8 (144638)	1-SATS9238	12 VA	120 V	CEILING	EGG LIGHT FURNISHED WITH A 12 WATT A19-GU24 LED LAMP
G1	COOPER/METALUX	4SLSTP40400D-UNV	INTEGRAL WITH FIXTURE	44 VA	120 V	SURFACE	4760 LUMEN 4 FOOT LENSED LED STRIPLIGHT, MTD ABOVE DOOR FRAME OR CEILING
G1E	COOPER/METALUX	4SLSTP4040DD-UNV-EBPLED7W	INTEGRAL WITH FIXTURE	44 VA	120 V	SURFACE	4760 LUMEN 4 FOOT LENSED LED STRIPLIGHT W/ REMOTE MOUNT EM BATTERY PACK, MTD ABOVE DOOR FRAME OR CEILING
N	MINKA	4531-267B	1-LED11A19/827/D	11 VA	120 V	WALL	LAVATORY WALL SCONCE-SHADE POINTED DOWN W/ LED LAMP & CL ON LAVATORY
OA	PROGRESS LIGHTING	P5675-31 WITH P8799 TOP COVER LENS	2-(GE) LED12P30RW830/25	24 VA	120 V	WALL	5" DIAMETER, 14" HEIGHT, WET LOCATION, UP/DOWN CYLINDER W/ 12 WATT PAR30 3K NFL LED LAMPS
OC	HUBBELL	FLL-42L-95-4K7-N-U-K-DB (SEE NOTE 4)	INTEGRAL WITH FIXTURE	97 VA	120 V	PIPE	FLOODLIGHT MTD AT GRADE ON 2" PIPE SUPPORT (BY OTHERS) AND AIMED AT FLAG AFTER DARK
OD3	COOPER/LUMARK	LUMINAIRE: PRV-A60D-UNV-**-SA-BZ (DISTRIBUTION TYPES TO BE DETERMINED BY THE REGIONAL TEAM SPECIFIC TO THE SITE.) POLE: SSP25-4.0-7-BRZ-DM2180-BC (TWO LUMINAIRES AT 180 DEGRESS)	INTEGRAL WITH FIXTURE	306 VA	120 V	POLE W/CONCRETE BASE	COORDINATE WITH THE SPECIFIC SITE CONDITIONS FOR THE TYPE OF POLES REQUIRED, THE HEIGHT, AND THE CONFIGURATION. CONTACT VENDOR IF HIGHER THAN 100 MPH WIND LOADING REQUIRED.
OK	HUBBELL	LNC-5LU-3K-3-1	INTEGRAL WITH FIXTURE	13 VA	120 V	WALL	LED WALLPACK W/ CENTERLINE OF FIXTURE AT 8'0" ABV 0'0" (FINISH FLOOR LINE)
P1	MEYDA	142776	2-LED11A19/827/D	22 VA	120 V	PENDANT	31" DIA PEACH BASKET PENDANT WITH BTM AT 6'-3" AFF ABV TABLE, 8'-0" OTHERWISE
U	BESA LIGHTING	BES00298-060	FURNISHED	8 VA	120 V	PENDANT	RED FRIT GLASS, BRONZE CABLE & CANOPY, 6'-6" AFF
XA	COOPER/SURE-LITES	APCH7R	INTEGRAL WITH FIXTURE	4 VA	120 V	WALL	EXIT SIGN WITH BATTERY PACK AND TWO INTEGRAL ADJUSTABLE LAMPHEADS
XD	MULE LIGHTING	SPS-220/250-120/277	NONE	250 VA	120 V	WALL	INVERTER UNIT FOR EXTERIOR EGRESS LTG; ON AT DUSK, OFF AT DAWN, ON DURING PWR OUTAGE
Z1	COOPER/HALO	SLD408830WH	INTEGRAL WITH FIXTURE	12 VA	120 V	RECESSED	LED DOWNLIGHT PROVIDED BY CANOPY SUPPLIER INSTALLED BY CANOPY SUPPLIER, CONNECTION BY ELECTRICAL CONTRACTOR
Z2	LSI	CRUS-SC-LED-LW30-UE-WHT	INTEGRAL WITH FIXTURE	74 VA	120 V	RECESSED	CANOPY LIGHT PROVIDED BY CANOPY SUPPLIER AND INSTALLED BY ELECTRICAL CONTRACTOR

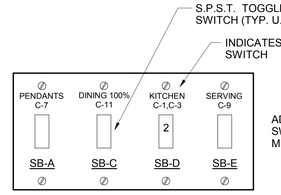
NOTES:
1. LUMINAIRES UTILIZING DOUBLE-ENDED LAMPS AND CONTAIN BALLAST THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS EITHER INTERNAL TO EACH LUMINAIRE PER NEC 410.130(G).
2. THE LIGHTING FIXTURE PACKAGE IS AVAILABLE THROUGH A NATIONAL ACCOUNT PROGRAM. REFER TO THE ELECTRICAL SPECIFICATIONS SHEET, SECTION C165500 FOR VENDOR INFORMATION.
3. THE ASTERICK (*) BESIDE THE FIXTURE MAKE IN THE ABOVE SCHEDULE INDICATES THE FIXTURE IS A NON-PROTOTYPCIAL LIGHT FIXTURE PER THE CFA NATIONAL P13 PROTOTYPE.
4. IF TYPE OC IS GROUND MOUNTED IN LIEU OF ROOF MOUNTED, PROVIDE EITHER THE FLL-VISOR-DB (VISOR) OR THE FLL-LOUVER-BL (LOUVER) OF GLARE CONTROL.

LIGHTING PLAN KEYNOTES

- L2 APPROXIMATE LOCATION OF SWITCH BANK 'SB'. SEE DETAIL ON THE LIGHTING PLAN FOR MORE INFORMATION.
- L4 FOR CONTROL OF LIGHTING FIXTURE IN WALK-IN COOLER AND FREEZER. SWITCH FURNISHED WITH EQUIPMENT, INSTALLED BY ELECTRICAL CONTRACTOR.
- L5 CONNECT FIXTURE SO THAT BATTERY PACK IS NOT SWITCHED WITH LIGHTS, BUT ALL LAMPS ARE SWITCHED.
- L6 FOR CONNECTION TO LIGHTING FIXTURE IN THE WALK-IN COOLER AND FREEZER WHICH IS FURNISHED WITH EQUIPMENT. CONTRACTOR SHALL ROUGH-IN AND CONNECT ALL FIXTURES AS REQUIRED BY THE EQUIPMENT MANUFACTURER.
- L7 THE LIGHT FIXTURES IN THE SERVING AREA ARE PROVIDED WITH LAMP SHIELDING VIA A LENS.
- L9 TO THE TOILET EXHAUST FAN ON ROOF. SEE SHEET E-250, ROOF ELECTRICAL PLAN.
- L11 THIS FIXTURE SHALL NOT BE SWITCHED. CONNECT TO CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS.
- L13 SEE THE ROOF ELECTRICAL PLAN FOR LOCATION OF TYPE 'OC' ROOF MOUNTED FLAG POLE LIGHT. FIXTURE TO BE CONNECTED TO CIRCUIT C-29 THRU THE CFA-T500 CONTROL PANEL CONTACTOR #9 (AHEAD OF THE INVERTER, NOT THRU THE INVERTER.)
- L14 TO WALK-IN FREEZER DOOR FRAME HEATER AND AIR RELIEF ASSEMBLY (PRESSURE REDUCTION VALVE - PRV), THRU SEAL-OFF FITTING. VERIFY ROUGH-IN AND FINAL CONNECTION WITH EQUIPMENT.
- L15 SEE THE SITE ELECTRICAL PLAN FOR LOCATION OF TYPE 'OC' GROUND MOUNTED FLAG POLE LIGHT. FIXTURE TO BE CONNECTED TO CIRCUIT C-29 THRU THE CFA-T500 CONTROL PANEL CONTACTOR #9 (AHEAD OF THE INVERTER, NOT THRU THE INVERTER.)
- L16 ROUTE THROUGH CONTROL PANEL CFA-T500 AND CONTROLLED BY OCCUPIED SWITCH AND PHOTOCELL.
- L18 CONNECT LIGHTING FIXTURE SO THAT LAMP BALLAST OR DRIVER AND EMERGENCY BATTERY PACK ARE NOT SWITCHED. 'NL' ADJACENT TO FIXTURE INDICATES THAT FIXTURE SHALL BE ON 24 HOURS.
- L22 TYPE 'XD' INVERTER CABINET TO BE WALL MOUNTED AT THE CEILING AND CONNECTED TO CIRCUIT C-29 THRU THE CFA-T500'S CONTACTOR #9 (DUSK TO DAWN CONTROL). CONNECT WITH BOTH A CONTROLLED (VIA THE CONTACTOR FOR LIGHTS ON AT DUSK AND OFF AT DAWN) LEG AND AN UNSWITCHED LEG FOR THE BATTERY IN THE INVERTER. WHEN POWER IS DISRUPTED ON THE UNSWITCHED LEG, THEN THE INVERTER'S BATTERY WILL ENERGIZE THE LIGHTS CONNECTED TO THE INVERTER NO MATTER THE TIME OF DAY. PROVIDE CONNECTIONS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- L23 CANOPY LIGHTS PROVIDED BY THE CANOPY SUPPLIER INTEGRAL WITH THE CANOPY. ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN CONDUIT CHASE AT CL OF AWNING AND AT 10'-0" AFF (VERIFY) AND CONNECT THE 120V CIRCUIT TO THE 'XD' INVERTER UNIT. COORDINATE LOCATIONS OF LIGHTS AND ROUGH-IN REQUIREMENTS WITH THE CANOPY SUPPLIER. LIGHTS WILL COME ON AT DUSK, TURN OFF AT DAWN, AND BE ENERGIZED WHENEVER THERE IS A POWER OUTAGE.
- L24 REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATIONS OF PENDANTS, DOWNLIGHTS, ACCENTS LIGHTS, AND OTHER CEILING MOUNTED LIGHT FIXTURES.
- L27 PROVIDE A TYPE B1 SHELF MOUNTED TASK LIGHT FIXTURE. MOUNT LIGHT TO THE UNDERSIDE OF THE WIRE SHELVING. PROVIDE A CORD FROM THE FIXTURE(S) TO A SWITCH IN AN FS BOX MOUNTED TO THE SHELF. FROM FS BOX PROVIDE AN SO CORD WITH PLUG AND CONNECT TO THE GEN RECEPTACLE (WALL OR DROP CORD). SEE ENLARGED POWER PLAN FOR FURTHER INFORMATION.

OMD CANOPY KEYNOTES:

- A1 CEILING LIGHT FIXTURE PROVIDED BY THE CANOPY SUPPLIER AND INSTALLED BY ELECTRICAL CONTRACTOR.
- A2 AIR CIRCULATING FAN (WITH INTEGRAL ON-OFF SWITCH) PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. PROVIDE A DUPLEX RECEPTACLE OUTLET (WITH IN-USE WP COVER PLATE) AT THE TOP OF THE COLUMN FLUSH MOUNTED IN THE CUT-OUTFOR THE FAN'S PLUG AND CORD CONNECTION.
- A4 PROVIDE ONE DUPLEX GFCI (WITH IN-USE WP COVER PLATE) AND TWO 120V SINGLE-POLE SWITCHES (EACH WITH HUBBELL #RW51550 WP COVER PLATE) AND ONE DUPLEX SINGLE-POLE SWITCH (WITH HUBBELL #RW51470 WP COVER PLATE) MOUNTED IN THE COLUMN IN FLUSH MOUNTED METAL SINGLE-GANG BOXES FOR LOCAL ON-OFF CONTROL OF THE FANS, HEATERS, AND CANOPY LIGHTS. SEE WIRING SCHEMATIC FOR FURTHER INFORMATION. ALL SURFACE (OR VISIBLE) ITEMS AND COVERPLATES TO BE FIELD PAINTED MATTE BLACK.
- A5 ALL CONDUIT AND BOXES SHALL BE CONCEALED FROM NORMAL VIEW; IN WALLS OR ABOVE THE CANOPY (ON THE ROOF). MC CABLE (GALVANIZED STEEL WITH PVC JACKET) MAY BE USED INSIDE THE WALL FOR THE DEVICES, BUT MUST CONVERT TO IMC ABOVE THE CANOPY ROOF. (PROVIDE A NEMA 3R JUNCTION BOX ON THE ROOF SIDE OF THE CANOPY TO TRANSITION FROM MC CABLES IN WALL TO IMC CONDUIT ON THE ROOF.) ALL EXPOSED BOXES AND FITTINGS TO BE CAST-METAL NEMA 3R. REFER TO THE MECHANICAL SHEETS FOR CONDUIT MOUNTING DETAILS ON THE ROOF.



NOTE: LOCATE JUNCTION BOXES IN CEILING SPACE ABOVE THE LOCATION OF THE SWITCHBANK FOR SPLICING OF LINE, LOAD, AND SWITCHED CONDUCTORS. PROVIDE GANGED BACKBOX FOR SWITCHES AS REQUIRED AND LABEL ALL CONDUCTORS SO AS TO INDICATE THEIR USE (LINE, LOAD, SWITCH), THE LOAD SERVED, AND THE CIRCUIT NUMBER.

A1 SWITCH BANK "SB" DETAIL

NO SCALE

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STEVEN P. SCHAUB
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05/23/22

CHICK-FIL-A HUNT CLUB

2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571

BUILDING TYPE / SIZE: P13 SE LRG
RELEASE: v2_21.08
PRINTED FOR **ISSUED FOR CONSTRUCTION**

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

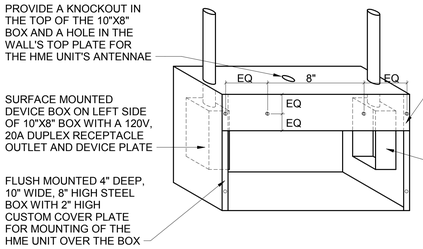
CONSULTANT PROJECT #	2021223.29
DATE	12/08/21
DRAWN BY	Author

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SHEET **LIGHTING PLAN**

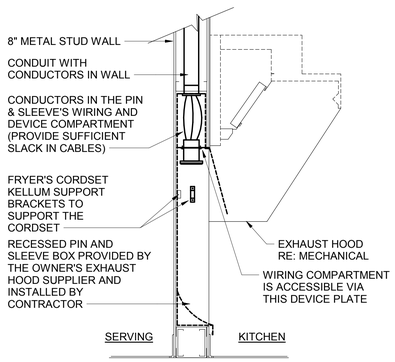
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50-SE-04571-E-211L-LIGHTING PLAN



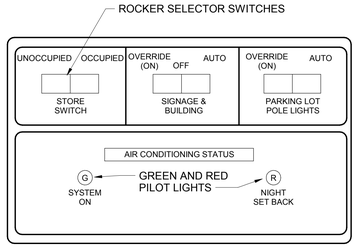
E3 HME UNIT POWER & DATA BOX DETAIL

NO SCALE



D4 PIN & SLEEVE BOX DETAIL

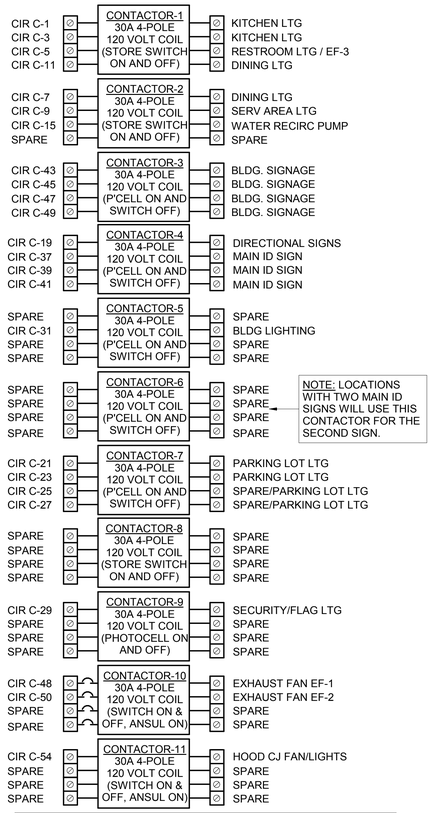
NO SCALE



NOTE:
THIS UNIT IS MOUNTED IN THE DOOR OF THE CFA-T500 CONTROL CABINET AND IS INCLUDED WITH THE GEAR ORDER FROM SUNCOAST ENVIRONMENTAL INC.

D3 OPEN-CLOSED CONTROL SWITCH

NO SCALE



NOTES:
1) VERIFY WITH SUNCOAST ENVIRONMENTAL CONTROLS' SHOP DRAWINGS.
2) ONLY THE 'HOT' CONDUCTOR OF EACH CIRCUIT SHALL BE RUN THRU THE CONTACTOR.
3) ANY TAPS OR WIRING CONNECTIONS OTHER THAN TO THE TERMINALS SHALL BE DONE IN A JUNCTION BOX OUTSIDE OF THIS CABINET.
4) VERIFY WITH THE LOCAL CODE IF CONTACTORS #10 AND #11 WILL BE ON OR OFF WHEN THE ANSUL SYSTEM IS INITIATED.
5) CIRCUITS C-49, C-25, AND C-27 WILL BE SPARES IF NOT NEEDED.

C2 CFA-T500 CONTROL PANEL DIAGRAM

NO SCALE

C1 ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	MTG HT AFF TO CL
	LIGHTING FIXTURES	
	SURFACE MOUNTED LIGHTING FIXTURE	
	RECESSED LED TROFFER LIGHTING FIXTURE	
	SURFACE MOUNTED LED LIGHTING FIXTURE	
	RECESSED LED LIGHTING FIXTURE	
	WALL MOUNTED LIGHTING FIXTURE, SEE LIGHTING FIXTURE SCHEDULE	AS NOTED
	WALL MOUNTED EXIT SIGN, SHADE INDICATES FACES, PROVIDE CHEVRON DIRECTIONALS WHEN NEEDED	6" FROM CEILING TO TOP
	CEILING MTD EXIT SIGN, SHADING INDICATES FACES, PROVIDE W/ CHEVRON DIRECTIONALS WHEN NEEDED	
	COMBO EXIT WITH TWO LAMPHEADS	
	WALL MTD EMERGENCY BATTERY PACK LIGHTING FIXTURE	AS NOTED
	CEILING MTD EMERGENCY BATTERY PACK LIGHTING FIXTURE	
	FLUORESCENT STRIP LIGHTING FIXTURE	
	WALLWASHER TYPE RECESSED DOWNLIGHT, AIM LIGHT TOWARD WALL	
	RECESSED LIGHTING FIXTURE W/ EMERGENCY BATTERY PACK	
	PENDANT LIGHTING FIXTURE	AS NOTED
	LIGHTING TRACK WITH TRACK HEADS	
	WIRING DEVICES	
	120 VOLT DUPLEX RECEPTACLE, 20 AMPS U.O.N.	14" UON
	120 VOLT DUPLEX AT SPECIAL MTD HEIGHT, 20 AMPS U.O.N.	44" UON
	120 VOLT QUADRAPLEX RECEPTACLE, 20 AMPS U.O.N.	14" UON
	120 VOLT QUAD. AT SPECIAL MTD HEIGHT, 20 AMPS U.O.N.	44"
	120 VOLT SIMPLEX RECEPTACLE, 20 AMPS U.O.N.	14" UON
	SINGLE SPECIAL PURPOSE RECEPT W/ VOLTS, AMPS, & PHASE AS NOTED, NEMA CONFIGURATION AS REQUIRED BY EQUIP.	14" UON
	RECEPTACLE MOUNTED ON DROP CORD, 120 VOLT, 20 AMP, UON, OUTLET BOX FLUSH WITH CEILING	
S	SINGLE POLE TOGGLE SWITCH	48"
S_2	DOUBLE POLE TOGGLE SWITCH	48"
S_3	THREE WAY TOGGLE SWITCH	48"
S_M	MANUAL MOTOR STARTER SWITCH (WP=NEMA 3R)	48"
S_P	SWITCH WITH PILOT LIGHT (ON WHEN SWITCH IS ON)	48"
S_K	KEY OPERATED SWITCH	48"

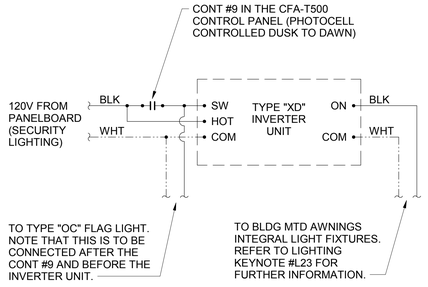
NOTE: RECEPTACLES ON A DEDICATED CIRCUIT (THAT IS, NO OTHER LOAD CONNECTED TO THE BRANCH CIRCUIT) SHALL HAVE AMPACITY RATING NOT LESS THAN THE AMPERAGE OF THE CIRCUIT BREAKER SERVING THE DEVICE.

	CONDUIT/RACEWAYS	
	CONDUIT CONCEALED ABOVE CEILNG OR IN WALL	
	CIRCUIT HOMERUN TO PANELBOARD W/ MIN 2#12, 1#12G, 3/4"C	
	CONDUIT TURNING UP	
	CONDUIT TURNING DOWN	
	CONDUIT CONCEALED IN OR BELOW SLAB (OR UNDERGROUND)	
	FLEXIBLE LIGHT FIXTURE WHIP; SIX FOOT MAXIMUM LENGTH	
MC	METAL CLAD CABLE ASSEMBLY - ONLY WHERE INDICATED ON DWGS OR SPECS	
	DISTRIBUTION EQUIPMENT	
	NON-FUSIBLE SAFETY SWITCH, SIZE AND TYPE AS NOTED ON PLANS (AMP/POLES/ENCLOSURE) OR ON SCHEDULE. NEMA 1 ENCLOSURE UNLESS NOTED WP FOR NEMA 3R ENCLOSURE.	6'-6" *
	FUSIBLE SAFETY SWITCH, SIZE & TYPE AS NOTED ON PLANS (AMP/POLES/FUSE AMPS/ENCLOSURE) OR ON SCHEDULE. NEMA 1 ENCLOSURE UNLESS NOTED WP FOR NEMA 3R.	6'-6" *
	FLUSH MOUNTED LIGHTING PANELBOARD	6'-6" *
	SURFACE MOUNTED LIGHTING PANELBOARD	6'-6" *

* 6'-6" DISTANCE IS TO TOP-MOST DISCONNECTING DEVICE OR HIGHEST POSITION OF OPERATING HANDLE OF DISCONNECTING DEVICE

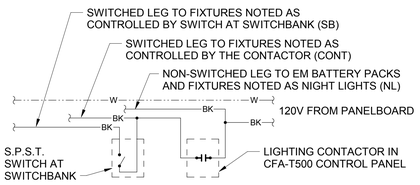
SYMBOL	DESCRIPTION	MTG HT AFF TO CL
	MISCELLANEOUS SYMBOLS	
	GROUND	
M	MOTOR	
EF	EXHAUST FAN MOTOR	
J	JUNCTION BOX	
1	CONDUIT AND WIRE 'MARK' NUMBER, REFER TO CONDUCTORS AND CONDUIT SCHEDULE FOR SIZE	
101	KITCHEN EQUIPMENT 'MARK' NUMBER, REFER TO KITCHEN EQUIPMENT SCHEDULE FOR REQUIREMENTS	
1	NOTE NUMBER	
A	HOOD EXTINGUISHING ANSUL PULL STATION	
D	SMOKE DETECTORS REMOTE STATUS INDICATOR W/ 1/2"C STUB-UP	
	PUSHBUTTON	
B	BELL, TYPE AS NOTED ON PLANS	
PE	PHOTO-ELECTRIC CELL	
T	TRANSFORMER / DRIVER	
S	LOCKABLE SINGLE POLE SWITCH	
	ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR	
AFG	ABOVE FINISHED GRADE	
AHU	AIR HANDLING UNIT	
C	CONDUIT	
CL	CENTER-LINE	
CT	CONTACTOR	
EF	EXHAUST FAN	
FLA	FULL LOAD AMPS	
GF/GFI	GROUND FAULT CIRCUIT INTERRUPTER	
GND/GRD	GROUND	
HT	HEIGHT	
IG	ISOLATED GRD, PROVIDE ORANGE DEVICE WHEN ADJACENT TO WIRING DEVICE	
MOCP	MAXIMUM OVER-CURRENT PROTECTION	
MUA	MAKE UP AIR UNIT	
NEC	LOCALLY ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70)	
NL	NIGHT LIGHT (ON 24 HOURS)	
OC	ON CENTER	
POS	POINT OF SALE EQUIPMENT	
RTU	ROOF TOP UNIT	
TB	TERMINAL BLOCK	
TL	TWIST-LOCK TYPE DEVICE	
TR	TAMPER-RESISTANT	
UON	UNLESS OTHERWISE NOTED	
WP	WEATHERPROOF (NEMA 3R)	
	TELEPHONE	
	TELEPHONE OUTLET	18" UON
	TELEPHONE OUTLET AT SPECIAL MOUNTING HEIGHT	60" UON
	CCTV / SECURITY SYSTEM	
K	SECURITY ALARM KEYPAD	
S1	SECURITY SYSTEM KEY NOTE	

NOTE: EACH TELEPHONE OUTLET (FLOOR OR WALL MOUNTED SHALL BE PROVIDED WITH A 3/4" EMPTY CONDUIT, WITH PULL WIRE, TO ACCESSIBLE CEILING SPACE.



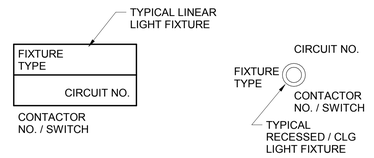
C4 DETAIL - INVERTER XD WIRING DIAGRAM

NO SCALE



B4 LIGHTING CONTROL DIAGRAM

NO SCALE

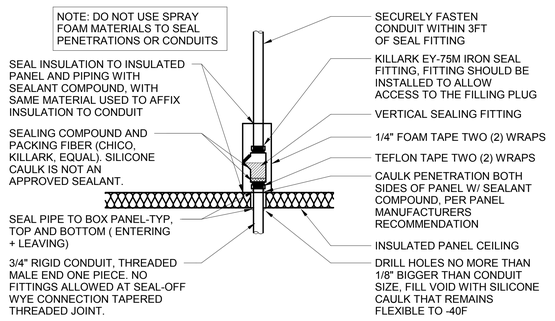


A4 LIGHT FIXTURE NOMECLATURE

NO SCALE

SIGNAGE NOTE

THE ELECTRICAL SUBCONTRACTOR SHALL INCLUDE THE ELECTRICAL ROUGH-IN AND FINAL CONNECTIONS OF ALL SIGNAGE (BUILDING MOUNTED AND GROUND MOUNTED ON THE SITE) IN HIS SCOPE OF WORK AND UNDER HIS LOCAL CODE PERMITTING PROCESS. PROVIDE A COPY OF THE PERMIT (WHICH SPECIFICALLY INCLUDES THE SIGNAGE) TO THE SIGN VENDOR IN ORDER TO EXPEDITE THE SIGN VENDOR'S PERMIT PROCESS.



A2 WIC/WIF SEAL-OFF DETAIL

NO SCALE

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5200 Buffington Road
Atlanta, Georgia
30349-2998

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LIC. # - 30920
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AKRON, OH 44311

STEVEN P. SCHAUB
LICENSE No. 75207
STATE OF FLORIDA
PROFESSIONAL ENGINEER
05/23/22

CHICK-FIL-A
HUNT CLUB
2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571

BUILDING TYPE / SIZE: P13 SE ALL
RELEASE: v2_21.08
PRINTED FOR
ISSUED FOR CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 2021223.29
DATE 12/08/21
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SHEET
ELECTRICAL SCHEDULES AND DETAILS

SHEET NUMBER
E-001

5/23/2022 9:31:15 AM BIM 360://FL_04571_Hunt Club_2021.11_FSR/04571_Hunt Club_ELE.rvt
50-SE-04571-E-001-ELECTRICAL SCHEDULES AND DETAILS

POWER PLAN KEYNOTES

2. PROVIDE EDWARDS #340-4N5 VIBRATING 4" DIAMETER BELL. THE BELL SHALL BE RATED AT 120 VOLTS.
3. PROVIDE A 120 VOLT WEATHERPROOF DOORBELL PUSHBUTTON AT DOOR. PUSHBUTTON SHALL BE FLUSH MOUNTED. PROVIDE DORTRONICS SYSTEMS #W5286-P25 CLEAR ANODIZED ALUMINUM PUSHBUTTON WITH SINGLE GANG SWITCH PLATE.
4. TWO 2" TELEPHONE SERVICE ENTRANCE CONDUIT(S). EXTEND WITH PULL STRING FROM TELEPHONE SERVICE J-BOX TO THE UTILITY SOURCE. REFER TO THE ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION.
6. PROVIDE DUPLEX RECEPTACLE (SEE ELEVATIONS FOR MTG HT) IN AN ARLINGTON #DVFR2W DOUBLE-GANG RECESSED BOX FOR THE FLY SYSTEM ITEMS. DO NOT CUT THE CORDSET FURNISHED WITH THE UNIT, BUT COIL THE CORD ON THE BACK OF THE UNIT AND TUCK INTO THE BACKBOX.
8. SB6000/SB6001 PANEL ENCLOSURE WITH 3 LITTLEFUSE SHOCK BLOCK GFCI PROTECTION DEVICES AND SB6100 PANEL ENCLOSURE SHOCK BLOCK GFCI PROTECTION DEVICE. ENSURE CONDUITS ARE INSTALLED FOR LINE AND LOAD WIRES TO BE INSTALLED WITH PROPER WIRE BENDING SPACE. LABEL EACH SHOCK BLOCK WITH PANEL AND CIRCUIT NUMBER IT CONTROLS.
9. ONE 3" ISP SERVICE CONDUIT. EXTEND WITH PULL STRING FROM J-BOX TO SUPPLIER'S SOURCE, REFER TO ELECTRICAL SITE PLAN FOR ADDITION INFORMATION.
11. PROVIDE TWO 6"H X 6"W X 4"D J-BOXES (ONE FOR TELEPHONE AND ONE FOR ISP) AT 6'-6" AFF AND EXTEND A 2" CONDUIT WITH PULL STRING IN THE WALL FROM EACH J-BOX INTO THE ACCESSIBLE CEILING SPACE. PROVIDE A 36" X 36" X 3/4" PLYWOOD BACKBOARD ON THE WALL ABOVE THE J-BOXES (AT THE CEILING) FOR USE BY THE ISP. PROVIDE A COPPER GROUND BAR (EQUAL TO ERICO TGBA24L14P) AT THE BOTTOM OF THE BACKBOARD WITH A #6 AWG INSULATED CU GROUNDING CONDUCTOR IN A 3/4"C FROM THE GROUND BAR TO THE INTER SYSTEM BONDING TERMINATION NEXT TO THE SERVICE ENTRANCE. THE GROUND BAR SHALL HAVE TAPS FOR USE BY THE TELEPHONE AND ISP UTILITY COMPANIES AND FOR THE #6 COMMUNICATIONS GROUNDING CONDUCTOR TO THE GES. PROVIDE A 15 AMP ISOLATED GROUND (IG) ORANGE-FACED DUPLEX RECEPTACLE IN THE WALL BESIDE THE BACKBOARD AND LABEL THE RECEPTACLE "FOR FIBER TO CABLE MODEM USE ONLY". BOND NETWORK RACKS TO GROUND BAR.
12. PROVIDE JUNCTION BOX AT 8"-0" AFF WITH CONDUIT AND CONDUCTORS TO PANELBOARD FOR FUTURE CONNECTION TO BOOSTER PUMP. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

SECURITY KEYNOTES

S1. PROVIDE SINGLE GANG JUNCTION BOX AND STAINLESS STEEL COVER PLATE WITH 7/8" HOLE IN CENTER. EXTEND 1" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.
S2. PROVIDE 4"W X 4"H X 3"D FLUSH JUNCTION BOX WITHOUT A COVERPLATE. EXTEND 2" CONDUIT UP TO ABOVE ACCESSIBLE OFFICE CEILING AREA AND PROVIDE BUSHING ON CONDUIT.
S3. PROVIDE A SINGLE-GANG JUNCTION BOX WITH A 1.5" CONDUIT STUBBED UP INTO ACCESSIBLE CEILING SPACE WITH A BUSHING ON THE CONDUIT END FOR THE CCTV MONITOR AND DVR LOCATION.
S5. PROVIDE SINGLE GANG BOX WITHOUT COVER PLATE. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.
S10. PROVIDE SINGLE GANG JUNCTION BOX WITH STAINLESS STEEL COVER PLATE MOUNTED ABOVE THE CEILING SPACE AND ABOVE ON THE INTERIOR SIDE OF THE REAR DOOR. ROUTE 1" CONDUIT FROM THE BOX TO THE "S12" BOX NOTED BELOW.
S11. EXTEND 1/2" CONDUIT FROM WINDOW'S FRAME MULLION (RIGHT SIDE) TO ABOVE ACCESSIBLE CEILING.
S12. PROVIDE SINGLE GANG, WEATHER-PROOF JUNCTION BOX WITH STAINLESS STEEL COVER PLATE MOUNTED ABOVE THE REAR DOOR ON THE EXTERIOR WALL. ROUTE 1" CONDUIT FROM THE BOX AND INTO THE BUILDING AND TERMINATE CONDUIT IN THE BOX NOTED IN "S10" ABOVE.

COMMUNICATIONS KEYNOTES

C2. PROVIDE JUNCTION BOX, LESS COVER PLATE, AND EXTEND 1-1/2" CONDUIT UP IN WALL TO ABOVE CEILING FOR INSTALLATION OF WIRELESS COMMUNICATION CONTROL UNIT.
C4. PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" EMPTY CONDUIT STUBBED UP INTO THE ACCESSIBLE CEILING SPACE FOR OWNER'S VOIP PHONE JACK AND CABLES.
C5. PROVIDE SINGLE-GANG JUNCTION BOX WITH A 3/4" EMPTY CONDUIT STUBBED UP INTO THE ACCESSIBLE CEILING SPACE FOR FUTURE MENU BOARD CABLES.

MUSIC KEYNOTES

M1. PROVIDE JUNCTION BOX WITH STAINLESS STEEL COVER PLATE AND 3/4" HOLE IN PLATE WITH GROMMET ON HOLE IN PLATE. EXTEND 3/4" CONDUIT UP IN WALL TO ABOVE CEILING FOR MUSIC SYSTEM.
M3. THREE SINGLE GANG EXTRA DEEP J-BOXES STACKED WITH A 1/2" CONDUIT FROM EACH TO THE TOP J-BOX BOX AND A 1" CONDUIT STUBBED INTO THE CEILING SPACE FOR MUSIC SYSTEM VOLUME CONTROLS PROVIDED BY OWNER'S VENDOR.
M4. PROVIDE A SINGLE GANG EXTRA DEEP JUNCTION BOX AT 74" AFF WITH 1/2" CONDUIT STUBBED INTO THE CEILING SPACE FOR MUSIC SYSTEM VOLUME CONTROLS.

POS DATA KEYNOTES

R1. PROVIDE A 'RETROFIT' SINGLE GANG RING (CARLON #SC100RR) FOR OWNER'S DEVICE PLATE WITH A 1" EMPTY CONDUIT AT THE OPENING STUBBED UP INTO THE CEILING SPACE FOR OWNER'S DATA CABLES.
R2. PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" CONDUIT EXTENDING UP INTO THE CEILING SPACE FOR POS MONITOR(S). COVER PLATE PROVIDED BY OWNER'S POS SYSTEM VENDOR.
R3. PROVIDE A 2" CONDUIT FROM FACE OF WALL AND EXTEND CONDUIT TO JUNCTION BOX IN CELING SPACE ABOVE SERVING AREA. CONDUIT SHALL TERMINATE FLUSH WITH FACE OF WALL BELOW COUNTER. CUSTOM STAINLESS STELL COVER PLATE IN WALL WITH GROMMET ON 2" DIAMETER HOLE AT CONDUIT TERMINATION IN WALL.
R4. PROVIDE A 'RETROFIT' SINGLE GANG RING (CARLON #SC100RR) FOR OWNER'S DEVICE PLATE WITH A 1" EMPTY CONDUIT AT THE OPENING STUBBED UP INTO THE CEILING SPACE FOR OWNER'S DATA CABLES.
R5. PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" CONDUIT EXTENDING UP INTO THE CEILING SPACE FOR POS TERMINAL. POS SYSTEM SUPPLIER WILL PROVIDE COVER PLATE ON BOX.
R6. PROVIDE SINGLE-GANG EXTRA DEEP JUNCTION BOX MOUNTED ON THE MOUNTING PLATE WITHIN THE FRONT SERVING COUNTER CASEWORK. MOUNT BOX ADJACENT TO THE RECEPTACLE FOR EQUIPMENT 180. DO NOT MOUNT BOX BETWEEN EQUIPMENT 180 AND EQUIPMENT 182 RECEPTACLES.

ENLARGED POWER PLAN KEYNOTES

E6. SEE THE ROOF ELECTRICAL PLAN FOR THE LOCATION OF THE ICE MAKER CONDENSERS AND ANY ADDITIONAL REQUIREMENTS.
E13. JUNCTION BOX ABOVE CEILING FOR AD-1 AT THE DRIVE-THRU WINDOW.

POS POWER KEYNOTES

P1. PROVIDE ORANGE ISOLATED GROUND (IG) DUPLEX RECEPTACLE.
P2. PROVIDE GROUND FAULT PROTECTION FOR THESE DEVICES VIA A GROUND FAULT CIRCUIT BREAKER IF LOCAL CODE DEFINES THIS A FOOD PREPARATION AREA.
P3. USE TYPE MC CABLE FOR THE ISOLATED GROUND CIRCUIT: #12 HOT, NEUTRAL, GREEN GROUND, STRIPED ISOLATED GROUND. EACH 15 AMP HOMERUN SHALL BE DEDICATED TO A CIRCUIT BREAKER VIA DEDICATED CONDUCTORS WITHIN A CABLE ASSEMBLY. ALL MC CABLES SHALL BE RUN OVERHEAD ABOVE THE CEILING AND RACKED TOGETHER ON J-HOOKS. NO SPLICES IN ANY HOMERUN CABLES FROM FIRST RECEPTACLE TO BREAKER.
P4. THE RECEPTACLE BACKBOX AND SYSTEM CABLE JUNCTION BOX FOR ITEMS 180 AND 182 SHALL BE TURNED HORIZONTAL. REFER TO THE KITCHEN EQUIPMENT ROUGH-IN ELEVATIONS FOR ADDITIONAL INFORMATION.

POWER PLAN GENERAL NOTES

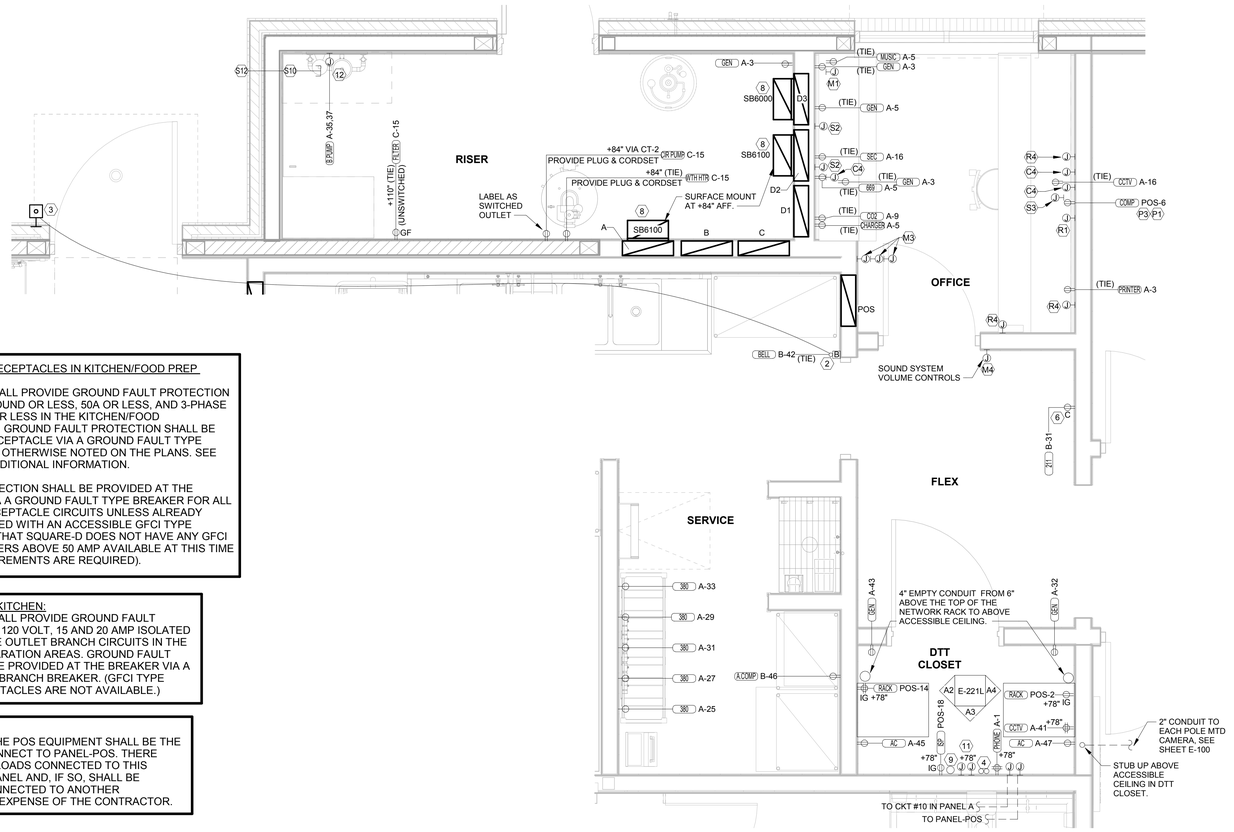
1. ALL SECURITY, POS, MUSIC, COMMUNICATIONS, AND POWER ROUGH-IN SHALL BE INSTALLED DURING THE FRAMING/ROUGH-IN PHASE OF CONSTRUCTION.
2. REFER TO KITCHEN EQUIPMENT SHEETS FOR EQUIPMENT ELECTRICAL ROUGH-IN ELEVATIONS ABOVE FINISHED FLOOR.
3. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRING.
4. PROVIDE INSULATED BUSHING AT TERMINATION POINTS OF ALL CONDUITS FOR LOW VOLTAGE WIRING.
5. THE ELECTRICAL INSTALLER SHALL COORDINATE THE ROUTING OF ALL CONDUIT IN THE BUILDING WITH OTHER TRADES (SPECIFICALLY THE DUCTWORK INSTALLATION) TO AVOID CONFLICTS OF SPACE REQUIREMENTS IN WALLS AND CEILING SPACES.

NOTE FOR GF TYPE RECEPTACLES IN KITCHEN/FOOD PREP AREAS:
THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL 150V TO GROUND OR LESS, 50A OR LESS, AND 3-PHASE RECEPTACLES 100A OR LESS IN THE KITCHEN/FOOD PREPARATION AREAS. GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE RECEPTACLE VIA A GROUND FAULT TYPE RECEPTACLE UNLESS OTHERWISE NOTED ON THE PLANS. SEE FLOOR PLANS FOR ADDITIONAL INFORMATION.

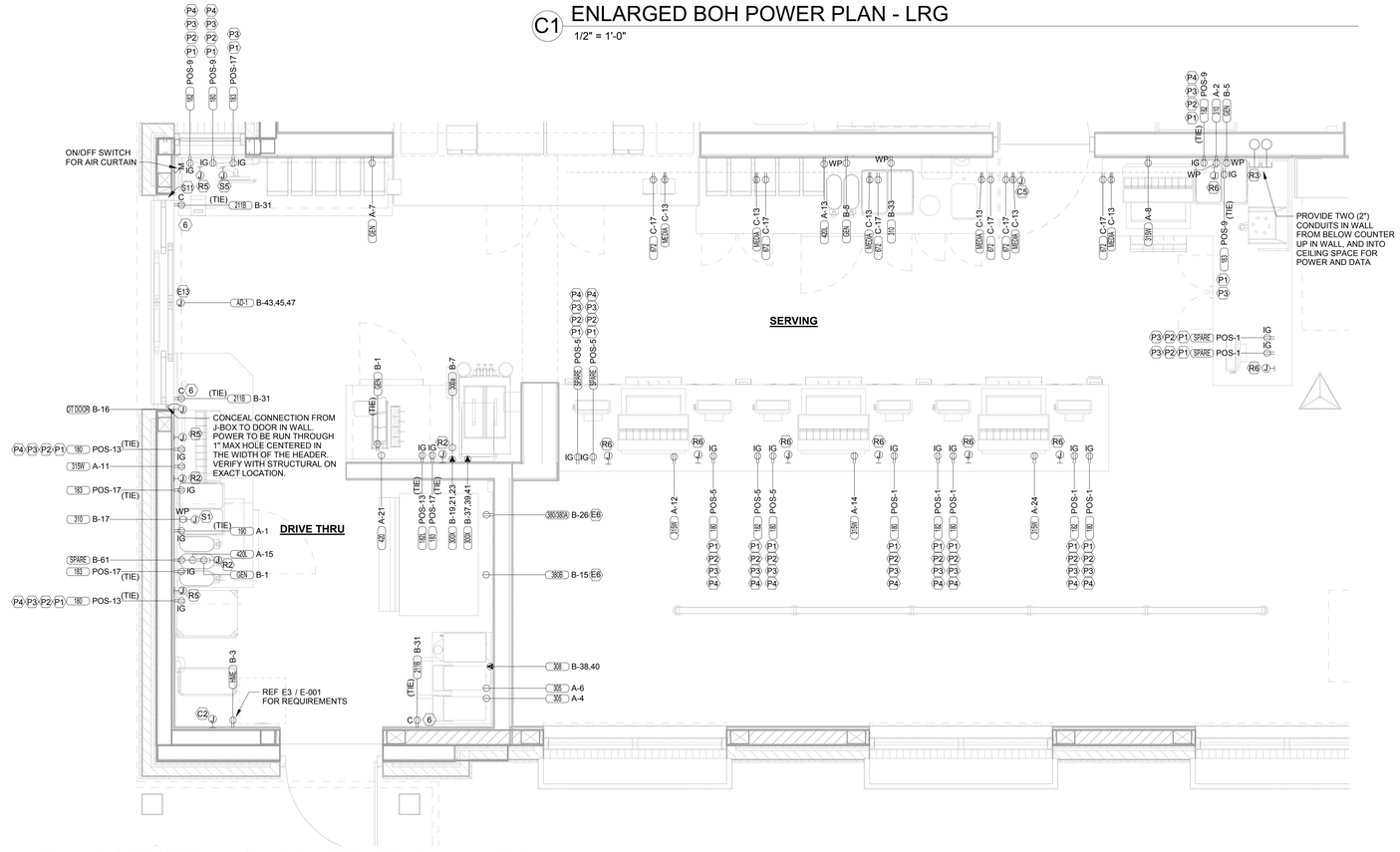
GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE BRANCH BREAKER VIA A GROUND FAULT TYPE BREAKER FOR ALL 50 AMP AND LESS RECEPTACLE CIRCUITS UNLESS ALREADY NOTED TO BE PROVIDED WITH AN ACCESSIBLE GFCI TYPE RECEPTACLE. (NOTE THAT SQUARE-D DOES NOT HAVE ANY GFCI TYPE BRANCH BREAKERS ABOVE 50 AMP AVAILABLE AT THIS TIME HOWEVER, GFI REQUIREMENTS ARE REQUIRED).

NOTE FOR POS GF IN KITCHEN:
THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL 120 VOLT, 15 AND 20 AMP ISOLATED GROUND RECEPTACLE OUTLET BRANCH CIRCUITS IN THE KITCHEN/FOOD PREPARATION AREAS. GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE BREAKER VIA A GROUND FAULT TYPE BRANCH BREAKER. (GFCI TYPE ISOLATED GRD RECEPTACLES ARE NOT AVAILABLE.)

NOTE:
RECEPTACLES FOR THE POS EQUIPMENT SHALL BE THE ONLY ITEMS THAT CONNECT TO PANEL-POS. THERE SHALL BE NO OTHER LOADS CONNECTED TO THIS ISOLATED GROUND PANEL AND, IF SO, SHALL BE REMOVED AND RECONNECTED TO ANOTHER PANELBOARD AT THE EXPENSE OF THE CONTRACTOR.



C1 ENLARGED BOH POWER PLAN - LRG
1/2" = 1'-0"



A1 ENLARGED SERVING AREA POWER PLAN - LRG
1/2" = 1'-0"

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

GPD GROUP, INC.
LIC. # - 30920
520 S. MAIN STREET, SUITE 2531
AKRON, OH 44311

STEVEN P. SCHAUB
LICENSE No. 75207
STATE OF FLORIDA
PROFESSIONAL ENGINEER
05/23/22

CHICK-FIL-A
HUNT CLUB

2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571

BUILDING TYPE / SIZE: P13 SE LRG
RELEASE: v2_21.08
PRINTED FOR
ISSUED FOR CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

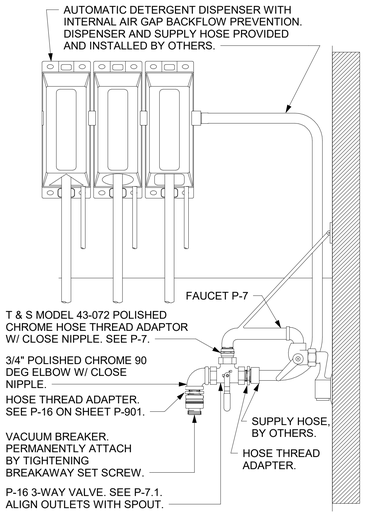
CONSULTANT PROJECT #	2021223.29
DATE	12/08/21
DRAWN BY	Author

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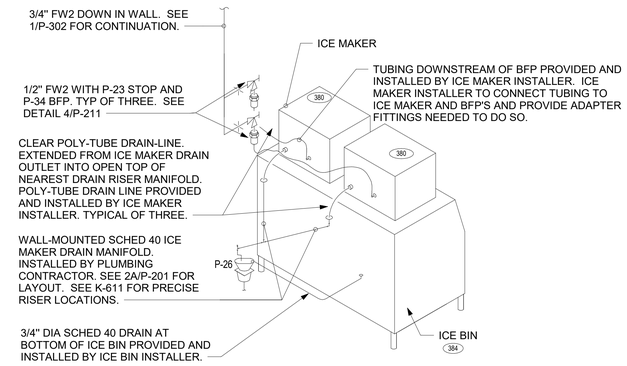
SHEET
ENLARGED SERVING AND BOH POWER PLAN

SHEET NUMBER
E-302

5/23/2022 9:32:58 AM BIM 360://FL_04571_Hunt Club_2021.11_FSR\04571_Hunt Club_ELE.rvt
50-SE-04571-E-302-ENLARGED SERVING AND BOH POWER PLAN

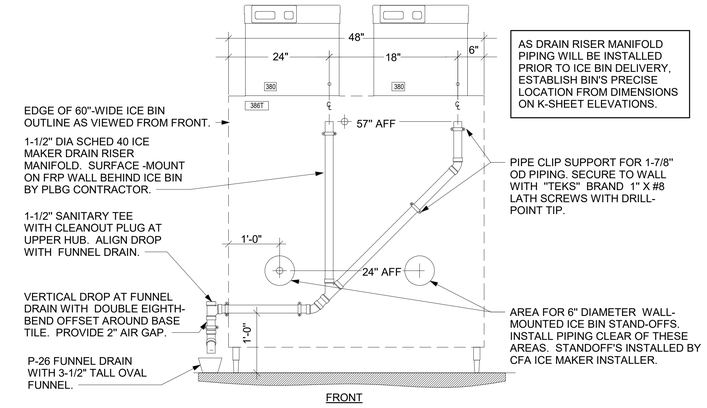


4 3-WAY VALVE AT MOP SINK
NOT TO SCALE

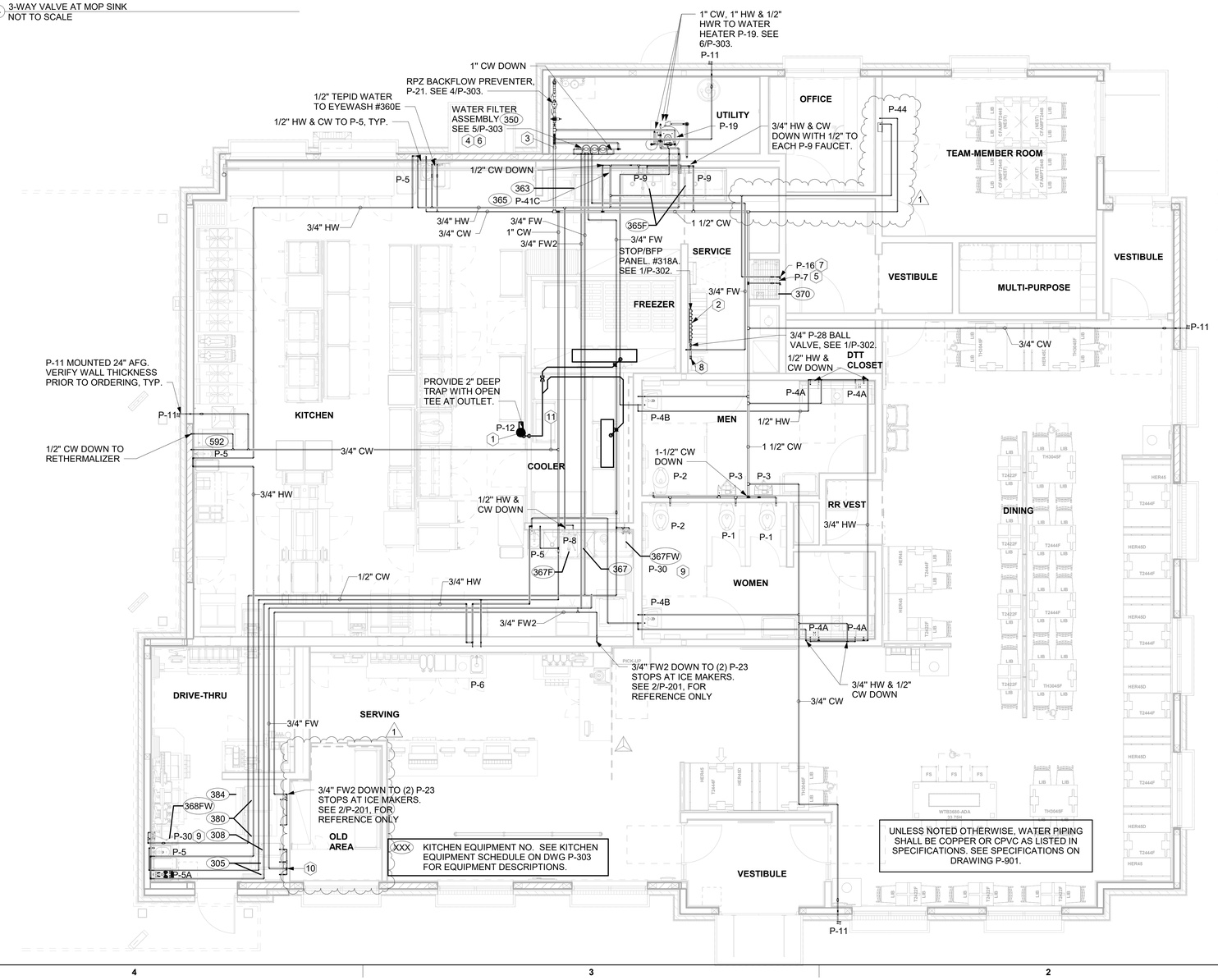


2 ICE MACHINE PIPING
NOT TO SCALE

DRAIN RISER LOCATIONS MEASURED FROM EDGE OF ICE BIN. VERIFY ICE BIN WIDTH AND PRECISE LOCATION FROM DIMENSIONS ON K-SHEET ELEVATIONS.



2A ICE MAKER DRAIN ON WALL
NOT TO SCALE



1 WATER PIPING PLAN PLUMBING
1/4" = 1'-0"

KEY NOTES

1. TURN 3/4" CONDENSATE PIPING OUT OF COOLER AND EXTEND OUTLET TO P-12 FUNNEL DRAIN, SECURE PIPING TO COOLER/FREEZER WALL WITH RUBBER INSULATED PIPE CLAMPS TO PREVENT GALVANIC CORROSION. SEAL ALL PENETRATIONS IN WALLS WITH PERMAGUM CORD. TERMINATE ABOVE FUNNEL WITH ELBOW AND AIR GAP. PROVIDE P-TRAP IN CONDENSATE DRAIN OUTSIDE COOLER WITH OPEN-TOPPED TEE AT TRAP OUTLET.
2. OWNER PROVIDED, PLUMBER INSTALLED STOP/BFP PANEL. SEE K-SHEET ELEVATIONS FOR EXACT LOCATION. PROVIDE EXPOSED 3/4" BALL VALVE AT CONNECTION TO PANEL. ROUTE 1" PVC DRAIN FROM FACTORY PANEL DRAIN CONNECTION TO P-26 FUNNEL DRAIN AT END OF BEVERAGE RACK AND TERMINATE WITH ELBOW AND AIR GAP.
3. 2" CW. SEE 4/P-303 FOR EXACT ROUTING LOCATIONS OF CW PIPING IN THIS AREA.
4. OWNER PROVIDED, PLUMBER INSTALLED WATER FILTERS. SEE DETAIL 5/P-303.
5. 1/2" HW AND CW DROPS TO MOP SINK FAUCET SET P-7. PROVIDE BALL VALVE FOR EACH ABOVE CEILING WITH P-22 BALL CHECK VALVE IN EACH DROP. SEE RISER DIAGRAM 1/P-302.
6. FW AND FW2 FROM WATER FILTERS. SEE DETAIL 5/P-303.
7. INSTALL P-16 3-WAY VALVE WITH BACKFLOW PREVENTER ON P-7 FAUCET SPOUT FOR CONNECTION TO ECOLAB DETERGENT DISPENSER. SEE DETAIL 4/P-201.
8. 1" DIAMETER PVC DRAIN FROM BACKFLOW PREVENTER PANEL. CONNECT 1" PVC TO FACTORY PROVIDED COUPLING MOUNTED ON BACK PANEL. ROUTE DRAIN TO P-26 FUNNEL DRAIN AT END OF BAG-N-BOX. MOUNT PIPING TIGHT TO WALL WITH STRUT AND CLAMP.
9. 3/4" FW DROP TO TWO-HANDLE FAUCET, P-30. MOUNT FAUCET ON WALL. SEE K-SHEETS FOR EXACT LOCATION. PIPE 1/2" FW TO EACH FAUCET INLET WITH 6" SPREAD. PROVIDE BALL VALVE ABOVE CEILING. SEE RISER DIAGRAM 1/P-302.
10. 1/2" FW TO P-24 & P-34 AT TWO TEA BREWERS. SEE 6/P-211 AND 1/P-302.
11. APPLY RAYCHEM XL-TRACE, MODEL 5XL-1, SELF REGULATING HEATING CABLE. USE END SEAL KIT FROM MFR. PROVIDE P-TRAP IN CONDENSATE DRAIN ON COOLER SIDE OF COOLER-FREEZER PANEL WALL WITH OPEN-TOPPED TEE AT TRAP OUTLET. PROVIDE 6" OF FALL IN FREEZER DRAIN LINE PRIOR TO PENETRATING PANEL WALL. EXTEND HEAT TRACE TO P-TRAP OUTLET IN COOLER.

3. SHEET NOTES

1. COORDINATE VENT TERMINAL LOCATIONS WITH FRESH AIR HOODS ON ROOFTOP EQUIPMENT SO AS TO MAINTAIN MINIMUM 15'-0" CLEARANCE.
2. HOLD ALL PIPING ABOVE THE CEILING TIGHT TO STRUCTURE. DUCT LOCATIONS TAKE PRIORITY. SEE DRAWING M-201 FOR DUCT LAYOUT. COORDINATE CONFLICTS WITH GC.
3. SEE K-SHEET ELEVATIONS FOR KITCHEN EQUIPMENT WATER PIPING ROUGH-IN LOCATIONS.
4. SEE SHEET P-211 FOR BEVERAGE CONDUIT PIPING.
5. SEE RISER DIAGRAM 1/P-301 FOR VENT PIPING. SEE ROOF PLAN 1/P-250 FOR VENT THRU ROOF (VTR) LOCATION.
6. VERIFY WALL TYPE AND WALL THICKNESS AT EXTERIOR HOSE BIBBS PRIOR TO ORDERING EQUIPMENT.
7. WATER HEATER PIPING IS SHOWN FOR STATE/A.O. SMITH MODELS WITH SIDE INLET/OUTLET CONNECTIONS. ADJUST PIPING AS NEEDED TO ACCOMODATE OTHER CONNECTION POINTS WHEN ALTERNATE MODELS ARE PROVIDED.
8. COORDINATE ABOVE-CEILING PIPING LOCATIONS AND ROUTING WITH HVAC CONTRACTOR AND M-SHEETS PRIOR TO INSTALLATION. ALL MAIN DUCT TRUNK LOCATIONS SHALL TAKE PRIORITY. PIPING MAY REQUIRE REMOVAL AND REINSTALLATION AT PLUMBING CONTRACTOR'S EXPENSE IF PIPING OBSTRUCTS THE M-SHEET DUCT LAYOUT AS SHOWN OR PREVENTS ACCESS TO GREASE DUCT CLEANOUT OPENINGS.

WALK-IN CONDENSATE PIPING NOTES:

INSTALL PIPING TIGHT TO WALL SO AS NOT TO INTERFERE WITH COOLER AND FREEZER SHELVES. PROVIDE UNION FITTINGS IMMEDIATELY DOWNSTREAM OF CONNECTION TO EVAPORATORS.

NOTE TO WATER HEATER INSTALLER:

POSITION VALVES AND TRIM IN WATER HEATER CLOSET SUCH THAT VISIBLE OBSERVATION OF VALVES AND TRIM IS UNOBSTRUCTED AND SUCH THAT ACCESS FOR OPERATION OR REPAIR IS POSSIBLE WITHOUT USE OF STEP LADDERS OR ANY NEED TO DISASSEMBLE ANY COMPONENTS.

Chick-fil-A
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520 S. MAIN STREET, SUITE 2531
AKRON, OH 44311

CHICK-FIL-A HUNT CLUB

2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571

BUILDING TYPE / SIZE: P13 SE ALL
RELEASE: v2.21.05
PRINTED FOR
ISSUED FOR CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	06/15/22	Bulletin 1

CONSULTANT PROJECT # 2021223.29
DATE 12/08/21
DRAWN BY MJA

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SHEET
WATER PIPING PLAN

SHEET NUMBER
P-201

7/18/2022 3:58:13 PM BIM 360://FL_04571_Hunt Club_2021.11_FSR/04571_Hunt Club_PLB.rvt
40-SE-04571-P-201-WATER PIPING PLAN

Branch Panel: A

LOCATION:
SUPPLY FROM: MDP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
H	1	TELEPHONE DT VIDEO (190)	20 A	1	0.240	1.020					1	20 A	DOUBLE LEMONADE BUBBLER (310)	2	I
	3	OFFICE GEN OUTLETS & PRINTER	20 A	1			0.720	1.650			1	20 A	TEA BREWER (305)	4	I
	5	OFFICE GEN OUTLETS & MUSIC (669)	20 A	1					0.720	1.650	1	20 A	TEA BREWER (305)	6	I
H	7	GENERAL OUTLET	20 A	1	0.180	1.200					1	20 A	DRINK TOWER (315W)	8	I
	9	GENERAL OUTLETS (CO2)	20 A	1			0.530	1.611			1	20 A	PANEL-POS THRU PIB	10	M
I	11	DRINK TOWER (315W)	20 A	1					1.200					12	I
H	13	U.C. REFRIG (420L)	20 A	1	0.564	1.200					1	20 A	DRINK TOWER (315W)	14	I
I	15	U.C. REFRIG (420L)	20 A	1			0.564	0.240			1	20 A	SECURITY SYSTEM	16	L
H	17	U.C. REFRIG (421)	20 A	1					0.756	1.244	3	15 A	COOLER CONDESER / EVAP COIL (449)	18	LO
I	19	SINGLE SANDWHICH SLIDE (563S)	20 A	1	0.548	1.244					--	--	--	20	
I	21	U.C. REFRIG (420)	20 A	1			0.564	1.140			--	--	--	22	
I	23	DOUBLE SANDWHICH SLIDE (563D)	20 A	1					1.090	1.200	1	20 A	DRINK TOWER (315W)	24	I
	25	CARBONATOR (320)	20 A	1	0.744	1.752					3	35 A	FREEZER CONDESER / EVAP COIL (410)	26	LO
	27	CARBONATOR (320)	20 A	1			0.744	1.908			--	--	--	28	
	29	CARBONATOR (320)	20 A	1					0.744	1.908	--	--	--	30	
	31	CARBONATOR (320)	20 A	1	0.744	0.180					1	20 A	GEN OUTLET DTT CLOSET	32	
	33	CARBONATOR (320)	20 A	1			0.744	0.500			1	20 A	FREEZER HEAT TAPE (410)	34	F
	35	BOOSTER PUMP	20 A	2					1.144	4.992	3	60 A	FRANKE TOASTER TABLE (120)	36	
	37	--	--	--	1.144	4.056					--	--	--	38	
H	39	GENERAL OUTLETS	20 A	1			0.180	4.056			--	--	--	40	
	41	CCTV RACK DTT CLOSET	20 A	1					0.360	1.844	3	60 A	FRANKE TOASTER TABLE (120a)	42	
	43	GEN OUTLET DTT CLOSET	20 A	1	0.180	4.544					--	--	--	44	
	45	FUTURE/RACK AC DTT CLOSET	20 A	1			1.272	3.060			--	--	--	46	
1	47	FUTURE/RACK AC DTT CLOSET	20 A	1					1.272	4.296	3	60 A	FRANKE TOASTER TABLE (120c)	48	
I	49	DELIVERY BAG (DEDICATED)	20 A	1	0.360	4.992					--	--	--	50	
I	51	DELIVERY BAG (DEDICATED)	20 A	1			0.360	4.296			--	--	--	52	
I	53	DELIVERY BAG (DEDICATED)	20 A	1					0.360	2.667	3	30 A	RETHERMALIZER (592)	54	I
I	55	DELIVERY BAG (DEDICATED)	20 A	1	0.360	2.667					--	--	--	56	
I	57	DELIVERY BAG (DEDICATED)	20 A	1			0.360	2.667			--	--	--	58	
I	59	DELIVERY BAG (DEDICATED)	20 A	1					0.360	5.880	3	60 A	DISHWASHER (363)	60	LOSB
I	61	DELIVERY BAG (DEDICATED)	20 A	1	0.360	5.880					--	--	--	62	
I	63	DELIVERY BAG (DEDICATED)	20 A	1			0.360	5.880			--	--	--	64	
I	65	DELIVERY BAG (DEDICATED)	20 A	1					0.360	0.360	1	20 A	DELIVERY BAG (DEDICATED)	66	I
I	67	DELIVERY BAG (DEDICATED)	20 A	1	0.360	0.000					--	--	SPACE	68	
I	69	DELIVERY BAG (DEDICATED)	20 A	1			0.360	0.000			--	--	SPACE	70	
I	71	DELIVERY BAG (DEDICATED)	20 A	1					0.360	0.000	--	--	SPACE	72	
			Total Load:		34.52 kVA		33.77 kVA		35.13 kVA						
			Total Amps:		288.6 A		281.4 A		293.7 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC COOL	2544 VA	100.00%	2544 VA		
KITCHEN EQUIPMENT	76254 VA	65.00%	49565 VA	**Total Conn. Load:**	103.4 kVA
KITCHEN REFRIG EQUIPMENT	11644 VA	65.00%	7569 VA	**Total Est. Demand:**	73.2 kVA
MISCELLANEOUS	1890 VA	100.00%	1890 VA	**Total Conn.:**	287.0 A
Motor	2338 VA	124.47%	2910 VA	**Total Est. Demand:**	203.2 A
RECEPTACLES	8741 VA	100.00%	8741 VA		

Branch Panel: B

LOCATION:
SUPPLY FROM: MDP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
	1	GENERAL OUTLETS	20 A	1	0.360	0.180					1	20 A	GENERAL OUTLET	2	
	3	GENERAL OUTLET	20 A	1			0.180	0.756			1	20 A	DOUBLE WORKTOP REFRIG (431)	4	
	5	GENERAL OUTLET	20 A	1					0.360	1.840	1	20 A	FRY HOLDING STATION (560)	6	
	7	MILKSHAKE DISPENSER (300a)	20 A	1	0.120	1.128					1	20 A	SINGLE REACH-IN FREEZER (400)	8	
	9	ROOF MTD ICE MAKER (380C)	25 A	3			1.704	0.195			1	15 A	CL TABLE MONITORS (183/182L)	10	I, IG
	11	--	--	--					1.704	1.840	1	20 A	FRY HOLDING STATION (560)	12	
	13	--	--	--	1.704	1.500					1	20 A	FOOD COOKER/WARMER (565C)	14	
	15	INTERIOR ICE MAKER (380B)	15 A	1			0.600	0.500			1	20 A	D.T. DOOR	16	
	17	DOUBLE LEMONADE BUBBLER (310)	20 A	1					0.943	1.704	3	15 A	ROOF MTD ICE MAKER (380C)	18	
	19	ICECREAM MACHINE (300X)	30 A	3	2.280	1.704					--	--	--	20	
	21	--	--	--			2.280	1.704			--	--	--	22	
	23	--	--	--					2.280	1.920	1	20 A	DOUBLE THAWING CABINET (444D)	24	
	25	ROOF RECEPTACLES	20 A	1	0.540	0.610					1	15 A	INTERIOR ICE MAKER (380,380A)	26	
	27	DINING AREA OUTLETS	20 A	1			1.080	1.920			1	20 A	DOUBLE THAWING CABINET (444D)	28	
	29	DINING AREA OUTLETS	20 A	1					1.800	0.000	1	20 A	FACP (WHEN REQ'D)	30	
	31	FLYLIGHT SYSTEM (211B,C)	20 A	1	0.360	1.920					1	20 A	SINGLE THAWING CABINET (444S)	32	
	33	DOUBLE LEMONADE BUBBLER (310)	20 A	1			0.943	0.180			1	20 A	REFUSE ENCLOSURE	34	
	35	LEMON JUICER STAND (607)	20 A	1					0.180	0.360	1	20 A	T500/ SHUNT TRIP (269,270)	36	
	37	ICE CREAM MACHINE (300X)	20 A	3	1.800	1.000					2	30 A	COFFEE MAKER (308)	38	
	39	--	--	--			1.800	1.000			--	--	--	40	
	41	--	--	--					1.800	0.560	1	20 A	GENERAL OUTLETS/DOORBELL	42	
	43	HEATED AIR DOOR (AD-1)	45 A	3	4.068	0.960					1	20 A	UNHEATED AIR DOOR (AD-2)	44	
	45	--	--	--			4.068	2.185			1	20 A	OPTIONAL COMPRESSOR	46	
	47	--	--	--					4.068	1.800	1	20 A	TRASH COMPACTOR (TC)	48	
	49	ROOF MTD ICE MAKER (380C)	25 A	3	1.704	1.800					1	20 A	TRASH COMPACTOR (TC)	50	
	51	--	--	--			1.704	1.800			1	20 A	FUTURE TRASH COMPACTOR (TC)	52	
	53	--	--	--					1.704	0.610	1	15 A	INTERIOR ICE MAKER (380,380A)	54	
	55	FUTURE VECTOR OVEN (505VT)	30 A	3	0.878	0.180					1	20 A	MANAGERS STATION (GEN)	56	
	57	--	--	--			0.878	1.080			1	20 A	DINING AREA OUTLETS	58	
	59	--	--	--					0.878	1.080	1	20 A	DINING AREA OUTLETS	60	
1	61	SPARE	20 A	1	0.564	1.920					1	20 A	FUTURE SINGLE THAWING...	62	
I	63	WASHER (FUTURE)	15 A	1			1.800	0.564			1	20 A	UNDERCOUNTER REFRIGERATOR (420)	64	I
I	65	DRYER (FUTURE)	30 A	2					2.496	0.000	1	20 A	SPARE 1	66	
	67	--	--	--	2.496	0.000					--	--	SPACE	68	
	69	--	--	--			0.000	0.000			--	--	SPACE	70	
	71	SPACE	--	--					0.000	0.000	--	--	SPACE	72	
			Total Load:		29.78 kVA		28.92 kVA		29.93 kVA						
			Total Amps:		249.2 A		241.0 A		250.5 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HEAT	12204 VA	100.00%	12204 VA		
KITCHEN EQUIPMENT	25367 VA	65.00%	16489 VA	**Total Conn. Load:**	88.3 kVA
KITCHEN REFRIG EQUIPMENT	26155 VA	65.00%	17001 VA	**Total Est. Demand:**	68.4 kVA
LIGHTING	312 VA	125.00%	390 VA	**Total Conn.:**	245.0 A
MISCELLANEOUS	218 VA	100.00%	218 VA	**Total Est. Demand:**	189.8 A
Motor	9045 VA	106.04%	9591 VA		
RECEPTACLES	14961 VA	83.42%	12481 VA		

Branch Panel: POS

LOCATION:
SUPPLY FROM: A
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/120 Single
PHASES: 1
WIRES: 3
2+G+IG
PROVIDE JUMPER FOR PHASE A & B

A.I.C. SERIES RATING: 10 K
MAINS TYPE: MLO
MAINS RATING: 100 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
H,IG	1	COUNTER STATIONS (180,182)	15 A	1	0.318	0.260			1	15 A	CCTV RACK DTT CLOSET	2	IG
	3	SPACE	--	--			0.000	0.000	--	--	SPACE	4	
H,IG	5	COUNTER POS STATIONS (180,182)	15 A	1	0.052	0.070			1	15 A	OFFICE RECEPTACLE (COMP)	6	IG
	7	SPACE	--	--			0.000	0.000	--	--	SPACE	8	
H,IG	9	DT POS STATION (180,182)	15 A	1	0.210	0.000			--	--	SPACE	10	
	11	SPACE	--	--			0.000	0.000	--	--	SPACE	12	
H,IG	13	MLOP POS STATIONS (180,182)	15 A	1	0.111	0.040			1	15 A	NETWORK RACK DTT CLOSET	14	IG
	15	SPACE	--	--			0.000	0.000	--	--	SPACE	16	
H,IG	17	MLOP MONITORS (183)	15 A	1	0.120	0.050			1	15 A	ISP MODEM	18	IG
	19	SPACE	--	--			0.000	0.360	1	20 A	PASS THRU MONITORS (183,182L)	20	H,IG
H,IG	21	PASS THRU MONITORS (183/182L)	15 A	1	0.200	0.180			1	20 A	PC (DEDICATED)	22	IG
	23	SPACE	--	--			0.000	0.000	1	20 A	BACKFED MAIN BREAKER	24	LO
			Total Load:		1.61 kVA		0.36 kVA						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
MISCELLANEOUS	1030 VA	100.00%	1030 VA		
RECEPTACLES	941 VA	100.00%	941 VA	**Total Conn. Load:**	2.0 kVA
				Total Est. Demand:	2.0 kVA
				Total Conn.:	16.4 A
				Total Est. Demand:	16.4 A

Branch Panel: C

LOCATION:
SUPPLY FROM: MDP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
J	1	KITCHEN LTG	20 A	1	1.284	0.180					1	20 A	DROP CORD OUTLET	2	I
J	3	KITCHEN LTG	20 A	1			0.552	0.180			1	20 A	DROP CORD OUTLET	4	I
J	5	RESTROOM LTG & EF-3	20 A	1					0.780	0.120	1	20 A	ICE BREADING TABLE (440CT)	6	I
J	7	DINING AREA LTG	20 A	1	0.288	0.180					1	20 A	DROP CORD OUTLET	8	I
J	9	SERVE AREA LTG	20 A	1			0.136	0.120			1	20 A	ICE BATH BREADING TABLE (440CT)	10	I
J	11	DINING AREA LTG	20 A	1					0.816	0.180	1	20 A	DROP CORD OUTLET	12	I
H	13	MENU BOARD NETWORK	20 A	1	0.651	0.180					1	20 A	DROP CORD OUTLET (184)	14	I
J	15	WATER HEATER/PUMP/FILTER	20 A	1			1.440	0.212			1	20 A	DROP CORD OUTLET	16	I
H	17	MENU BOARDS (672)	20 A	1					0.651	0.180	1	20 A	DROP CORD OUTLET	18	I
B	19	DIRECTIONAL SIGNS	20 A	1	0.360	1.175					1	20 A	FLOOR MIXER (600R)	20	I
E	21	PARKING LOT LTG	20 A	1			0.326	1.128			1	20 A	SINGLE REACH-IN FREEZER (400T)	22	I
E	23	PARKING LOT LTG	20 A	1					0.652	0.180	1	20 A	DROP CORD OUTLET	24	I
	25	MENU BOARD RECEPTACLE	20 A	1	0.264	2.880					1	30 A	HOT HOLDING CABINET (580)	26	I
	27	MENU BOARD RECEPTACLE	20 A	1			0.264	0.804			1	20 A	REFRIG EQUIPMENT STAND (422T)	28	I
D	29	SECURITY/FLAGPOLE LTG	20 A	1					0.347	0.180	1	20 A	DROP CORD OUTLET	30	I
C	31	BLDG EXTERIOR LTG	20 A	1	0.312	0.212					1	20 A	DROP CORD OUTLET	32	I
S,J	33	MLOP &OMD CANOPY LTG	20 A	1			1.332	0.180			1	20 A	DROP CORD OUTLET	34	I
LO	35	FRZR/COOLER LTG (410/449)	20 A	1					1.000	1.080	1	20 A	SALAD PREP TABLE (441)	36	I
B	37	MAIN ID SIGN	20 A	1	0.980	0.180					1	20 A	DROP CORD OUTLET	38	I
B	39	MAIN ID SIGN	20 A	1			0.800	0.756			1	20 A	WORKTOP REFRIGERATOR (431T)	40	I
B	41	MAIN ID SIGN	20 A	1					0.800	0.180	1	20 A	DROP CORD OUTLET	42	I
B	43	BUILDING SIGNAGE	20 A	1	0.500	0.480					1	20 A	WORKTOP REFRIGERATOR (432T)	44	I
B	45	BUILDING SIGNAGE	20 A	1			0.500	0.180			1	20 A	DROP CORD OUTLET	46	I
B	47	BUILDING SIGNAGE	20 A	1					0.800	1.587	1	25 A	HOOD EXHAUST FAN (EF-1)	48	A
B	49	BUILDING SIGNAGE	20 A	1	0.800	1.587					1	25 A	HOOD EXHAUST FAN (EF-2)	50	A
S,LO	51	DRIVE THRU ORDERING	20 A	1			0.780	1.584			1	20 A	MLOP CANOPY FANS	52	I,J,S
S,I,J	53	OMD CANOPY FANS	20 A	1					0.792	0.563	1	20 A	HOOD CJ FANS AND LIGHTS	54	A
I	55	VECTOR OVEN (505VT)	30 A	3	0.878	0.878					3	30 A	VECTOR OVEN (505VT)	56	I
	57	--	--	--			0.878	0.878			--	--	--	58	
	59	--	--	--					0.878	0.878	--	--	--	60	
I	61	ICE BATH BREADING TABLE (440CT)	20 A	1	0.120	0.878					3	30 A	VECTOR OVEN (505VT)	62	I
I	63	DROP CORD OUTLET (184T)	20 A	1			0.180	0.878			--	--	--	64	
I	65	EGG STATION (503)	20 A	2					1.300	0.878	--	--	--	66	
	67	--	--	--	1.300	0.528					1	20 A	RF-1	68	
	69	SPARE	20 A	1			0.000	0.840			1	20 A	SINGLE REFRIG (442WCLT)	70	I
	71	SPARE	20 A	1					0.000	0.180	1	20 A	DROP CORD OUTLET	72	I
			Total Load:		17.03 kVA		14.91 kVA		15.00 kVA						
			Total Amps:		142.0 A		124.3 A		125.1 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
KITCHEN EQUIPMENT	14555 VA	65.00%	9461 VA		
KITCHEN REFRIG EQUIPMENT	5448 VA	65.00%	3541 VA	**Total Conn. Load:**	46.9 kVA
LIGHTING	14357 VA	125.00%	17946 VA	**Total Est. Demand:**	43.9 kVA
MISCELLANEOUS	1378 VA	100.00%	1378 VA	**Total Conn.:**	130.3 A
Motor	7967 VA	104.98%	8364 VA	**Total Est. Demand:**	121.9 A
RECEPTACLES	3240 VA	100.00%	3240 VA		

Branch Panel: D1

LOCATION:
SUPPLY FROM: MDP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
I	1	PRESSURE FRYER (523)	50 A	3	4.560	2.892					3	50 A	CHARGRILL COOKER (524)	2	I
	3	--	--	--			4.560	3.840			--	--	--	4	
	5	--	--	--					4.560	2.772	--	--	--	6	
I	7	PRESSURE FRYER (523)	50 A	3	4.560	2.892					3	50 A	CHARGRILL COOKER (524)	8	I
	9	--	--	--			4.560	3.840			--	--	--	10	
	11	--	--	--					4.560	2.772	--	--	--	12	
I	13	PRESSURE FRYER (523)	50 A	3	4.560	4.560					3	50 A	PRESSURE FRYER (523)	14	I
	15	--	--	--			4.560	4.560			--	--	--	16	
	17	--	--	--					4.560	4.560	--	--	--	18	
	19	SPACE	--	--	0.000	0.000					--	--	SPACE	20	
	21	SPACE	--	--			0.000	0.000			--	--	SPACE	22	
	23	SPACE	--	--					0.000	0.000	--	--	SPACE	24	
	25	SPACE	--	--	0.000	0.000					--	--	SPACE	26	
	27	SPACE	--	--			0.000	0.000			--	--	SPACE	28	
	29	SPACE	--	--					0.000	0.000	--	--	SPACE	30	
			Total Load:		24.02 kVA		25.92 kVA		23.78 kVA						
			Total Amps:		200.5 A		216.3 A		198.2 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
KITCHEN EQUIPMENT	73728 VA	65.00%	47923 VA		
				Total Conn. Load:	73.7 kVA
				Total Est. Demand:	47.9 kVA
				Total Conn.:	204.6 A
				Total Est. Demand:	133.0 A

Branch Panel: D2

LOCATION:
SUPPLY FROM: MDP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
SB	1	OPEN FRYER (522)	80 A	3	7.320	7.320					3	80 A	OPEN FRYER (522)	2	SB
	3	--	--	--			7.320	7.320			--	--	--	4	
	5	--	--	--					7.320	7.320	--	--	--	6	
I	7	SPARE/FUTURE FRYER (523)	50 A	3	4.560	1.300					2	20 A	EGG STATION (503)	8	I
	9	--	--	--			4.560	1.300			--	--	--	10	
	11	--	--	--					4.560	1.300	2	20 A	FUTURE EGG STATION (503T)	12	I
	13	SPACE	--	--	0.000	1.300					--	--	--	14	
	15	SPACE	--	--			0.000	0.000			--	--	SPACE	16	
	17	SPACE	--	--					0.000	0.000	--	--	SPACE	18	
	19	SPACE	--	--	0.000	0.000					--	--	SPACE	20	
	21	SPACE	--	--			0.000	0.000			--	--	SPACE	22	
	23	SPACE	--	--					0.000	0.000	--	--	SPACE	24	
	25	SPACE	--	--	0.000	0.000					--	--	SPACE	26	
	27	SPACE	--	--			0.000	0.000			--	--	SPACE	28	
	29	SPACE	--	--					0.000	0.000	--	--	SPACE	30	
			Total Load:		21.80 kVA		20.50 kVA		20.50 kVA						
			Total Amps:		181.7 A		170.8 A		170.8 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
KITCHEN EQUIPMENT	62800 VA	65.00%	40820 VA		
				Total Conn. Load:	62.8 kVA
				Total Est. Demand:	40.8 kVA
				Total Conn.:	174.3 A
				Total Est. Demand:	113.3 A

Branch Panel: D3

LOCATION:
SUPPLY FROM: MDP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
I	1	PRESSURE FRYER (523)	50 A	3	4.560	7.320					3	80 A	OPEN FRYER (522A)	2	SB
	3	--	--	--			4.560	7.320			--	--	--	4	
	5	--	--	--					4.560	7.320	--	--	--	6	
I	7	SPARE/FUTURE FRYER (523)	50 A	3	4.560	7.320					3	80 A	OPEN FRYER (522A)	8	SB
	9	--	--	--			4.560	7.320			--	--	--	10	
	11	--	--	--					4.560	7.320	--	--	--	12	
	13	SPACE	--	--	0.000	0.000					--	--	SPACE	14	
	15	SPACE	--	--			0.000	0.000			--	--	SPACE	16	
	17	SPACE	--	--					0.000	0.000	--	--	SPACE	18	
	19	SPACE	--	--	0.000	0.000					--	--	SPACE	20	
	21	SPACE	--	--			0.000	0.000			--	--	SPACE	22	
	23	SPACE	--	--					0.000	0.000	--	--	SPACE	24	
	25	SPACE	--	--	0.000	0.000					--	--	SPACE	26	
	27	SPACE	--	--			0.000	0.000			--	--	SPACE	28	
	29	SPACE	--	--					0.000	0.000	--	--	SPACE	30	
			Total Load:		23.76 kVA		23.76 kVA		23.76 kVA						
			Total Amps:		198.0 A		198.0 A		198.0 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
KITCHEN EQUIPMENT	71280 VA	65.00%	46332 VA		
				Total Conn. Load:	71.3 kVA
				Total Est. Demand:	46.3 kVA
				Total Conn.:	197.9 A
				Total Est. Demand:	128.6 A

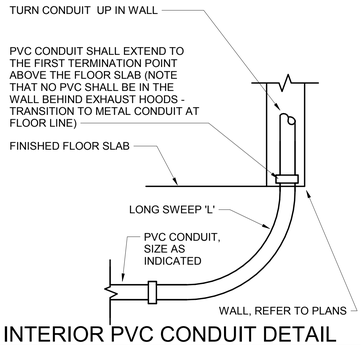
Distribution Panel: MDP

LOCATION:
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA 3R

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

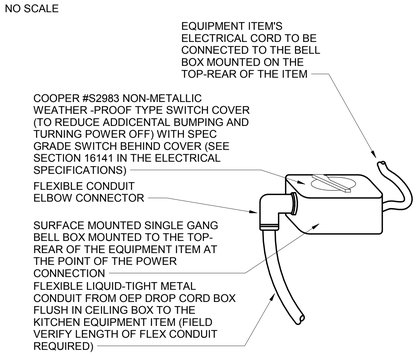
A.I.C. SERIES RATING: 65K
MAINS TYPE: MCB
MAINS RATING: 1200 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
	1	PANEL-A (SUB-FEEDS PANEL POS)	250 A	3	34.52	29.78					3	250 A	PANEL-B	2	
	3	--	--	--			33.77	28.92			--	--	--	4	
	5	--	--	--					35.13	29.93	--	--	--	6	
	7	PANEL-C	250 A	3	17.03	14.05					3	150 A	ROOFTOP UNIT 25 TON (AC-1)	8	
	9	--	--	--			14.91	14.05			--	--	--	10	
	11	--	--	--					15.00	14.05	--	--	--	12	
ST 2	13	PANEL-D1	250 A	3	24.02	21.80					3	250 A	PANEL-D2	14	ST
	15	--	--	--			25.92	20.50			--	--	--	16	2
	17	--	--	--					23.78	20.50	--	--	--	18	
	19	ROOFTOP UNIT 17.5 TON (AC-2)	110 A	3	10.33	13.81					3	150 A



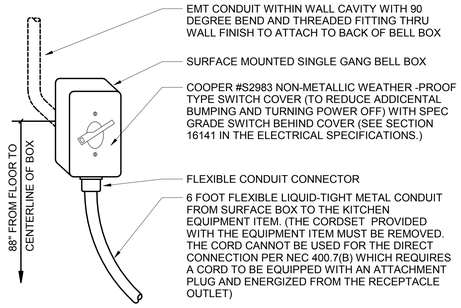
D4 INTERIOR PVC CONDUIT DETAIL

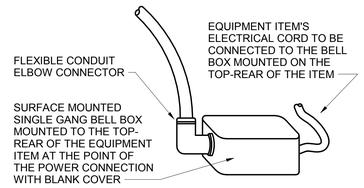
NO SCALE



C4 DIRECT CONNECTION - ISLAND LOCATION

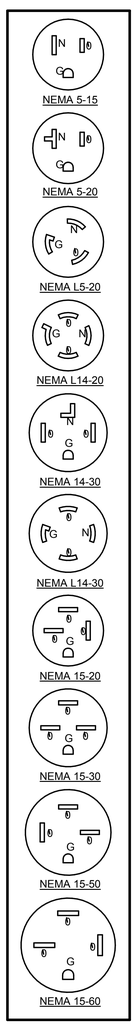
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B4 DIRECT CONNECTION -WALL LOCATION

NO SCALE

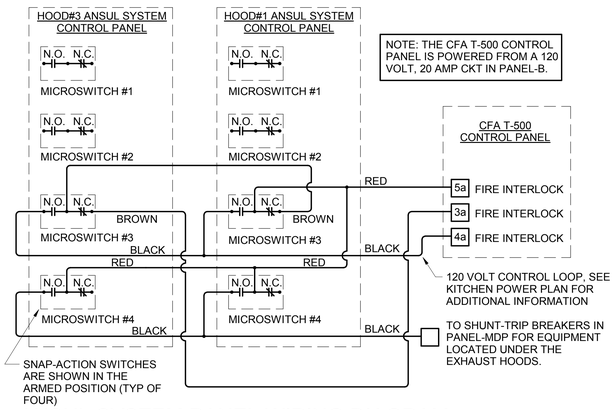


KITCHEN EQUIPMENT SCHEDULE NOTES

1. ALL SO CORD LENGTHS SHALL BE MEASURED FROM THE REAR OF THE EQUIPMENT TO THE END OF THE CORD.
2. CONTRACTOR SHALL PROVIDE GROUND-FAULT PROTECTION FOR ALL 120 VOLT 15 AMP AND 20 AMP RECEPTACLES IN THE KITCHEN / FOOD PREPARATION AREAS. GROUND-FAULT PROTECTION SHALL BE PROVIDED AT THE RECEPTACLE AS A GFCI TYPE RECEPTACLE UNLESS NOTED OTHERWISE ON THE PLANS WHERE A GFCI TYPE BREAKER IS INDICATED.
3. PROVIDE GFCI TYPE BRANCH BREAKER FOR KITCHEN / FOOD PREPARATION AREA RECEPTACLES THAT ARE TWIST-LOCK, CLOCK STYLE, OR IG (ISOLATED GROUND) TYPE.

KITCHEN EQUIPMENT SCHEDULE - CHICK-FIL-A P13 EDITION

ITEM NO.	DESCRIPTION OF EQUIPMENT	VOLTS	PH	KW	AMPS	NEMA-RATING	COMMENTS AND REMARKS	WIRE/CONDUIT MARK NO. REFER TO E502	NOTE
120	HOT HOLDING CENTERLINE TABLE	120/208	3	3.20	16.00	DIRECT CONNECTION	60 AMP SERVICE REQUIRED TO POWER TABLE AND ADDITIONAL EQUIPMENT EXCEPT POS - ORDER WITH ITEM #27807900	19	7
120a	COLD CENTERLINE TABLE	120/208	3	0.78	6.5	DIRECT CONNECTION	60 AMP SERVICE REQUIRED TO POWER TABLE & ADDITIONAL EQUIPMENT EXCEPT POS - ORDER W/ ITEM #27808160	19	7
120c	TOASTER CENTERLINE TABLE	120/208	3			DIRECT CONNECTION	60 AMP SERVICE REQUIRED TO POWER TABLE & ADDITIONAL EQUIPMENT EXCEPT POS - ORDER W/ITEM #27802293	19	7
120d	CENTERLINE UNDERCOUNTER REFRIGERATOR	115	1	0.60	5.00	5-15P	LOCATED UNDER ITEM #120a - FRANKE COLD TABLE CIRCUIT #1	1	
180	ORDER REGISTER	120	1			5-20P		1-IG	
182	RECEIPT PRINTER	other	1		1.80	5-20P	PROVIDED WITH 120V/24V POWER SUPPLY ADAPTER FOR USE WITH 120V IG OUTLET	1-IG	
182L	LABEL PRINTER	other	1		1.70	5-20P	PROVIDED WITH 120V/24V POWER SUPPLY ADAPTER FOR USE WITH 120V IG OUTLET	1	
183	ORDER MONITOR	120	1		0.125	5-20P	PROVIDED BY CFA IT	1-IG	5
184	IPAD	120	1	0.120	1.00	5-20P	PROVIDED BY CONNECTION	1	2,5
184T	ITIMER	120	1	0.120	1.00	5-20P	PROVIDED BY CLARK	1	
190	DRIVE-THRU VIDEO MONITOR	120	1		0.8	5-20P		1	2
211B	FLY SYSTEM	120	1	0.10	0.60	5-15P	CLOCK STYLE RECEPTACLE REQUIRED	1	5
211C	FLY SYSTEM	120	1	.03	.25	5-15P	RE: ARCHITECTURAL SHEETS FOR MOUNTING DETAILS	1	
269	ANSUL FIRE SUPPRESSION SYSTEM	120	1		VERIFY	DIRECT CONNECTION	REMOTE CABINET - REFER TO SHOP DRAWINGS - FED FROM CFA-T500 PANEL	1	
270	ANSUL FIRE SUPPRESSION SYSTEM	120	1		VERIFY	DIRECT CONNECTION	LOCATED ABOVE HOOD - BEHIND CLOSURE PANEL - REFER TO SHOP DRAWINGS - FED FROM CFA-T500 PANEL	1	
300aR	MILKSHAKE BASE DISPENSER	120	1		4.00	5-20P	MOUNTED ON ITEM #300b	1	2
300X	DOUBLE BARREL ICE CREAM MACHINE	208	3		19.00/15.00	15-30P/15-20P	PROVIDED WITH HUBBELL HBL8432C & HBL8421C ANGLE PLUGS	9,3	
305	TEA BREWER	120	1	1.65	13.8	5-15P	PROVIDE QUICK DISCONNECT HOSES	1	2
308	SINGLE COFFEE MAKER	208	1	4.0	19.2	L14-30P	PROVIDE QUICK DISCONNECT HOSES	8	
310	DOUBLE LEMONADE BUBBLER	120	1		8.50	5-15P	ORDER (1) #3CRA016 BOWL KIT AND (1) #3CRA018 BASE PER BUBBLER AND ORDER TOTAL OF (1) #3CRA021 SET OF (2) 2.4 GAL BOWLS	1	
310R	DOUBLE LEMONADE BUBBLER	120	1		8.50	5-15P		1	
315W	10-HEAD BEVERAGE DISPENSER WITH ICE BIN	115	1		10.00	5-15P/5-15P	PROVIDED WITH (2) CORDS AND PLUGS PER TOWER	1	2
320	TURBO CARBONATOR	115	1		6.2	5-20P	ORDER (8) #44231, (3) #44233, (8) DR. PEPPER PUMPS, & (3) #T5274SN-01	1	
363	HIGH-TEMP UPRIGHT DISHWASHER	208	3		46.00	DIRECT CONNECTION	PROVIDED WITH DRAIN WATER TEMPERING KIT	19	5
380	ICE MACHINE	115	1	0.600	5.00	5-15P	INSTALLED ON TOP OF ICE BIN - PROVIDED WITH 6 FT CORD AND 35 FT LINE SETS	1	
380a	ICE BIN SANITATION SYSTEM	120	1	0.0096		5-15P	INSTALLED ON WALL ABOVE ICE BIN - SHARES DUPLEX WITH (1) ICE MACHINE	1	
380C	ICE MACHINE REMOTE CONDENSING UNIT	208	3	3.100	14.20	DIRECT CONNECTION	AIR COOLED UNIT - GC SHALL PLACE AND INSTALL CONDENSER ON ROOF - NOT SHOWN ON DRAWINGS	6	
380CD	ICE MACHINE REMOTE CONDENSING UNIT	208	3	3.600	15.70	DIRECT CONNECTION	AIR COOLED UNIT - GC SHALL PLACE AND INSTALL CONDENSER ON ROOF - NOT SHOWN ON DRAWINGS	6	
380D	ICE MACHINE	115	1	0.368	5.00	5-15P	INSTALLED ON TOP OF ICE BIN - PROVIDED WITH 6 FT CORD AND 35 FT LINE SETS	1	
400LR	SINGLE UPRIGHT FREEZER (30" WIDE)	115	1	1.100	9.40	5-15P		1	5
400T	SINGLE UPRIGHT FREEZER (30" WIDE)	115	1	1.100	9.40	L5-15P (BY EC)	HINGE RIGHT - PROVIDE FINISHED BACK - ORDER ON 4 5/8 IN CASTERS - EC TO CHANGE PLUG TO TWIST LOCK	1	5
410	WALK-IN FREEZER	120	1		3.3	DIRECT CONNECTION	ORDER WITHOUT FLOOR - REFER TO LIGHTING PLAN	1	7
410a	WALK-IN FREEZER CONDENSER	208	3		16.30	DIRECT CONNECTION	GC SHALL INSTALL CONDENSER ON ROOF - NOT SHOWN ON DRAWINGS	9	7
410b	WALK-IN FREEZER EVAPORATOR	208	1		1.50	DIRECT CONNECTION	POWER FED FROM CONDENSER	-	
420	SINGLE UNDERCOUNTER REFRIGERATOR	115	1	0.564	4.70	5-20P	HINGE RIGHT - ORDER ON 4" CASTERS	1	
420L	SINGLE UNDERCOUNTER REFRIGERATOR	115	1	0.564	4.70	5-20P	HINGE LEFT - ORDER ON 4" CASTERS	1	2
421	DOUBLE UNDERCOUNTER REFRIGERATOR	115	1	0.756	6.30	5-15P	ORDER ON 4 IN CASTERS	1	2
422	REFRIGERATED EQUIPMENT STAND (48")	115	1	0.80	6.70	5-15P	PROVIDED W/9' CORD - ORDER ON 4" CASTERS	1	2
431	DOUBLE REFRIGERATED WORK TABLE	115	1	0.756	6.30	5-15P	ORDER ON 6 IN CASTERS WITH BACKSPLASH TOP	1	
431T	DOUBLE REFRIGERATED WORK TABLE	115	1	0.756	6.30	L5-15P (BY EC)	EC TO CHANGE PLUG TO TWIST LOCK - ORDER ON 6 IN CASTERS WITH BACKSPLASH TOP	1	
432T	DOUBLE REFRIGERATED WORK TABLE	115	1	0.756	6.30	L5-20P (BY EC)	EC TO CHANGE PLUG TO TWIST LOCK - ORDER ON 6 IN CASTERS WITH BACKSPLASH TOP	1	
440CT	ICE BATH BREADING TABLE	120	1		1.00	L5-15P	EC TO CHANGE PLUG TO TWIST LOCK - 10 FT CORD AND PLUG - LEAF INCLUDED WITH TABLE - INSTALL IF SHOWN ON PLANS	1	
441	SALAD PREP TABLE	115	1		9.0	L5-15P	PROVIDE WITH TWIST LOCK PLUG; ORDER ON 4" CASTERS WITH PAN PKG.; SESC TO PROVIDE PAN PKG.	1	
442WCLT	SINGLE UPRIGHT REFRIGERATOR (30" WIDE)	115	1		7.00	L5-15P (BY EC)	HINGE LEFT - PROVIDE FINISHED BACK - ORDER ON 6 IN CASTERS - EC TO CHANGE PLUG TO TWIST LOCK	1	
444D	DOUBLE THAWING CABINET (52" WIDE)	115	1		16.00	DIRECT CONNECTION	HINGE STANDARD - GC TO INSTALL LIQUID TIGHT FLEX CONDUIT - ORDER ON 6 IN CASTERS	1	
444DR	DOUBLE THAWING CABINET (52" WIDE)	115	1		16.00	DIRECT CONNECTION	CONVERT TO DIRECT CONNECT IF NEEDED - GC TO INSTALL LIQUID TIGHT FLEX CONDUIT	1	
449	WALK-IN COOLER	120	1		2.4	DIRECT CONNECTION	ORDER WITHOUT FLOOR - REFER TO LIGHTING PLAN	3	7
449a	WALK-IN COOLER CONDENSER	208	3		9.50	DIRECT CONNECTION	GC SHALL INSTALL CONDENSER ON ROOF - NOT SHOWN ON DRAWINGS	-	7
449b	WALK-IN COOLER EVAPORATOR	208	1	0.110	1.00	DIRECT CONNECTION	POWER FED FROM CONDENSER	1	7
500A	VERTICAL CONTACT TOASTER	120	1	1.8	15.0	5-15P	LOCATED ON ITEM #120c - FRANKE TOASTER TABLE CIRCUITS #1 & #2	1	7
500AR	VERTICAL CONTACT TOASTER	120	1	1.8	15.0	5-15P	LOCATED ON ITEM #120c - FRANKE TOASTER TABLE CIRCUITS #1 & #2	1	
500B	RADIANT TOASTER	208	1	5.5	24.0	L6-30P	LOCATED ON ITEM #120c - FRANKE TOASTER TABLE CIRCUITS #3 & #4 - PROVIDED W/ TWIST LOCK PLUG	8	
500BR	RADIANT TOASTER	208	1	5.5	24.0	L6-30P	LOCATED ON ITEM #120c - FRANKE TOASTER TABLE CIRCUITS #3 & #4 - PROVIDED W/ TWIST LOCK PLUG	8	
503	EGG STATION	208	1	2.5	12.5	6-20P		2	
505VT	VECTOR OVEN	208	3	7.90	22.00	L15-30P (BY EC)	HINGE RIGHT - EC TO CHANGE PLUG TO TWIST LOCK	9	
522	SINGLE OPEN FRYER	208	3	22.000	62.00	PIN & SLEEVE	PIN & SLEEVE PROVIDED WITH EQUIPMENT AND RECEPTACLE BOX PROVIDED WITH HALTON ITEMS - (1) POWER CONNECTION PER WELL	24	
522A	DOUBLE OPEN FRYER	208	3	44.000	124.00	PIN & SLEEVE	PIN & SLEEVE PROVIDED WITH EQUIPMENT AND RECEPTACLE BOX PROVIDED WITH HALTON ITEMS - (1) POWER CONNECTION PER WELL	24,24	
523	PRESSURE FRYER	208	3			15-50P	PROVIDED WITH 6 FT CORD AND PLUG	16	
523R	PRESSURE FRYER	208	3			15-50P		16	
524R	DUAL SIDE CLAMSHELL GRILL	208	3	3.3	24.1/28.2/23.1	15-50P		16	3
550	DOUBLE WARMING DRAWER	120	1	0.900	7.83	5-15P	ON CASTERS - LOCATED UNDER ITEM #120 - FRANKE HOT HOLDING TABLE CIRCUITS #2 AND #3	1	
560	FRY HOLDING STATION	120	1	1.90	15.4	5-20P		1	
563D	DOUBLE TIER SANDWICH SLIDE	120	1	1.09	9.13	5-15P	CORD EXITS RIGHT - 6' CORD AND PLUG	1	
563SL	SINGLE TIER SANDWICH SLIDE	120	1	0.548	4.56	5-15P	CORD EXITS LEFT - 6' CORD AND PLUG	1	
564	VISUAL HOT HOLDING CABINET (2x4)	120	1	1.32	11	5-15P	LOCATED ON ITEM #120a - FRANKE COLD TABLE CIRCUIT #2 - ORDER WITH LIDS/TRAY SEALS, AMBER PANS, & FALSE BOTTOMS	1	
565C	FOOD COOKER/WARMER	120	1	1.500	12.50	5-15P	ORDER WITH (1) 3VOL042, (2) 3VOL043, (8) 3VOL051, AND (8) 3VOL061	1	5
580	VISUAL HOT HOLDING CABINET (5x4)	120	1	2.88	24	L5-30P	PROVIDED W/TWIST LOCK PLUG - ORDER WITH LIDS/TRAY SEALS	7	
581	DUMP CART	other	0						
581R	DUMP CART	other	0						
592	RETHERMALIZER	208	3	8.000	22.00	15-30P	PROVIDED WITH 6' CORD AND ANGLE PLUG - WATER SUPPLY TO BE S/S BRAIDED HOSE WITH MALE QUICK CONNECT ADAPTER	9	5
600R	MIXER	120	1		8.0	L5-20P		1	2
607	COUNTER TOP LEMON JUICER	115	1			5-15P	LOCATED ON ITEM #606	1	
669	OFFICE SAFE	120	1			5-20P	INSTALL SAFE PER MANUFACTURER'S WRITTEN INSTRUCTIONS	1	2
672	DIGITAL MENU BOARD	120	1			5-15P	PROVIDED BY COATES	1	



A3 ANSUL SYSTEM PANEL WIRING DIAGRAM

NO SCALE

NOTE 1: ALL CORD LENGHTS SHALL BE MEASURED FROM THE REAR OF THE EQUIPMENT TO THE END OF THE CORD.

NOTE 2: CONTRACTOR SHALL PROVIDE GROUND-FAULT PROTECTION RECEPTACLES PER 2017 NEC - IN KITCHEN/FOOD PREPARATION AREAS. GROUND-FAULT PROTECTION SHALL BE PROVIDED AT THE RECEPTACLE AS A GFCI TYPE RECEPTACLE UNLESS NOTED OTHERWISE ON THE PLANS WHERE A GFCI TYPE BREAKER IS INDICATED.

NOTE 3: A RECESSED PIN & SLEEVE BOX IS PROVIDED WITH THE EXHAUST HOOD PACKAGE AND INSTALLED BY THE CONTRACTOR. THE P&S BOX INCLUDES THE "SLEEVE" RECEPTACLES FOR THE OPEN FRYERS. THE OPEN FRYER SUPPLIER WILL PROVIDE PRE-WIRED CORDSET WITH A "PIN" DEVICE INTEGRAL WITH THE OPEN FRYER TO PLUG INTO THE "SLEEVE" RECEPTACLE.

NOTE 4: WIRE NUMBER INDICATED DOES NOT INCLUDE THE REQUIRED GREEN EQUIPMENT GROUND CONDUCTOR OR, WHEN APPLICABLE, THE STRIPED IG CONDUCTOR.

NOTE 5: PROVIDE GFCI TYPE BRANCH BREAKER FOR KITCHEN/FOOD PREPARATION AREA RECEPTACLES THAT ARE TWIST-LOCK, CLOCK STYLE, OR IG (ISOLATED GROUND) TYPE.

NOTE 6: REFER TO THE CONDUIT AND CONDUCTOR SCHEDULE FOR THE WIRE/CONDUIT MARK NUMBER AND THE MINIMUM WIRE AND CONDUIT SIZE FOR EACH EQUIPMENT ITEM.

NOTE 7: CONTRACTOR SHALL VERIFY ELECTRICAL REQUIREMENTS/WIRING WITH CONSTRUCTION MANAGER PRIOR TO ROUGH-IN.

NOTE 8: CONTRACTOR SHALL COORDINATE W/ CONSTRUCTION MANAGER ON OPTIONAL WALLBOARD DIGITAL DISPLAY LOCATION AND REQUIREMENTS.

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

GPD GROUP, INC.
LIC. # - 30920
520 S. MAIN STREET, SUITE 2531
AKRON, OH 44311

STEVEN P. SCHAUB
LICENSE No. 75207
STATE OF FLORIDA
PROFESSIONAL ENGINEER
05/23/22

CHICK-FIL-A
HUNT CLUB

2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571

BUILDING TYPE / SIZE: P13 SE ALL
RELEASE: v2_21.08
PRINTED FOR
ISSUED FOR CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

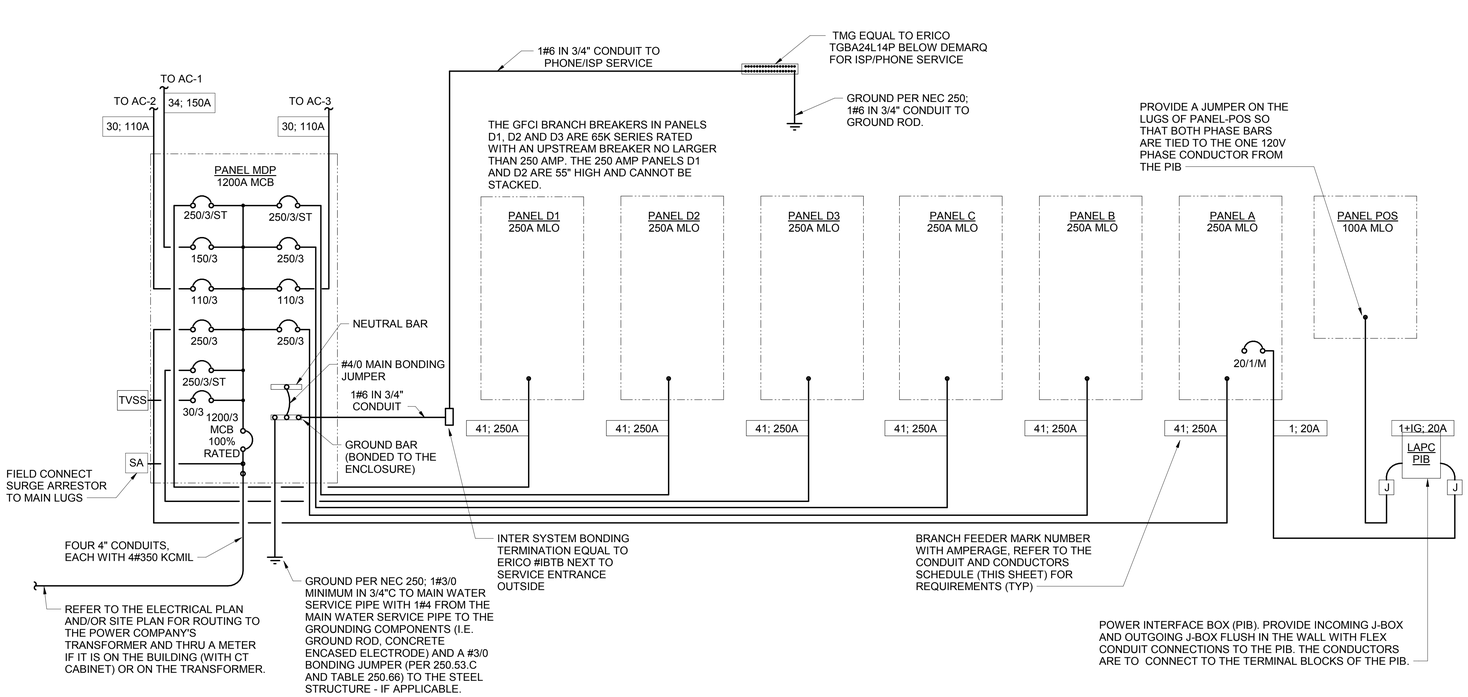
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SHEET
ELECTRICAL SCHEDULES AND DETAILS

SHEET NUMBER
E-002

5/23/2022 9:31:35 AM BIM 360://FL_04571_Hunt Club_2021.11_FSR/04571_Hunt Club_ELE.rvt
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C2 SINGLE LINE DIAGRAM

NO SCALE

SINGLE-LINE DIAGRAM NOTES

1. VERIFY SERVICE LOCATIONS AND CONFORM TO THE REQUIREMENTS OF THE POWER COMPANY AND/OR DEVELOPER. POWER COMPANY AND/OR DEVELOPER SHALL BE CONTACTED PRIOR TO BEGINNING CONSTRUCTION TO ARRANGE AND VERIFY FOR THE INSTALLATION OF THE POWER COMPANY SERVICE, METER, AND OTHER ITEMS.
2. GROUND ALL EQUIPMENT AND SERVICES IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, LOCAL APPLICABLE CODES, AND ALSO AS INDICATED ON DRAWINGS.
3. MAKE NECESSARY INSPECTIONS OF EXISTING SITE AND SERVICE LOCATIONS AS REQUIRED FOR THIS WORK AND MAKE ALLOWANCE FOR EXISTING CONDITIONS BEFORE SUBMITTING BID. VERIFY WORK REQUIRED WITH POWER COMPANY AND TELEPHONE COMPANY.
4. CUT AND PATCH THE CONSTRUCTION WORK AS REQUIRED FOR PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PATCHING SHALL MATCH THE SURROUNDING WORK TO THE SATISFACTION OF THE ARCHITECT. ALL CONDUIT SHALL BE INSTALLED CONCEALED UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT. COORDINATE SAW CUTTING WITH LANDLORD'S OR OWNER'S REPRESENTATIVE.
5. WIRE AND CABLE:
   A. CONDUCTORS SHALL BE COPPER, #12 AWG, MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE.
   B. CONDUCTOR #10 AWG AND SMALLER SHALL BE SOLID AND #8 AWG AND LARGER SHALL BE STRANDED. INSULATION SHALL BE 600 VOLT, THHN/THWN.
6. PROVIDE ENGRAVED LAMINATED PHENOLIC BLOCK-ON-WHITE (UNLESS NOTED OTHERWISE) NAMEPLATES SECURED TO EQUIPMENT WITH ADHESIVE AND SCREWS FOR PANELBOARDS, RELAY CABINETS, TRANSFORMERS, DISTRIBUTION BOARDS, AND MAIN PANELBOARD - IDENTIFYING EQUIPMENT DESIGNATION (CORRESPONDING WITH DESIGNATION USED ON DRAWINGS) AND EQUIPMENT VOLTAGE. LETTERING SHALL BE 1/4" HIGH. PROVIDE LABELS FOR CIRCUIT BREAKERS, FUSIBLE SWITCHES AND STARTERS IN PANELBOARDS AND DISTRIBUTION BOARDS FOR EACH DEVICE IDENTIFYING EQUIPMENT CONTROLLED. LETTERING SHALL BE 1/8" HIGH.
7. ALL DEVICES SHALL HAVE AN INTERRUPTING CAPACITY NOT LESS THAN THE POWER COMPANY AVAILABLE FAULT CURRENT, OR AS INDICATED ON THE DRAWINGS.
8. 120/208 VOLT BRANCH CIRCUIT PANELBOARD BREAKERS SHALL HAVE A MINIMUM U.L. SERIES RATING OF 65 KAIC WITH UP-STREAM FEEDER BREAKERS AS NOTED.
9. AVAILABLE SPACE FOR MAIN PANELBOARD IS LIMITED. PANELBOARD MUST FIT IN ALLOCATED SPACE. COORDINATE WITH CONSTRUCTION AS REQUIRED.
10. ALL WIRING SHALL BE IN CONDUIT, E.M.T OR RIGID. FLEXIBLE CONDUIT MAY ONLY BE USED FOR FINAL CONNECTIONS AND WITH GREEN EQUIPMENT GROUNDING CONDUCTORS.
11. MOUNT SINGLE CIRCUIT SURGE PROTECTION DEVICE (SQUARE D) SDSA1175T TO FACEPLATE MOUNTED ON JUNCTION BOX DIRECTLY ABOVE PANELBOARD SERVING LOAD. REF PANEL SCHEDULES FOR SURGE PROTECTION CIRCUITS.

SWITCHGEAR AND CONTROL EQUIPMENT NOTES

1. PURCHASE PANELBOARDS, SURGE ARRESTOR, AND TVSS FROM ONE OF THE TWO NATIONAL ACCOUNTS VENDORS (SEE SHEET E-902 SECTION C16440, PANELBOARDS) PROVIDING SQUARE-D EQUIPMENT. NO SUBSTITUTIONS ALLOWED.
2. PURCHASE CONTROL PANEL 'CFA-T500' FROM SUNCOAST ENVIRONMENTAL, INC. (NO SUBSTITUTIONS ALLOWED). ALL EQUIPMENT IN THE CONTROL PANEL SHALL BE INSTALLED, WIRED AND CONNECTED AT THE FACTORY, INCLUDING AUTOMATIC LIGHTING CONTROL SYSTEM, LIGHTING RELAYS, HVAC STARTERS, POWER SUPPLIES, MISCELLANEOUS RELAYS AND CONTROLS, AND THERMOSTATS.
3. CONTRACTOR SHALL PROVIDE PANEL FEEDERS A, B, C, D, AND POS, BRANCH CIRCUIT CONDUIT AND WIRE, AND INSTALL ALL EQUIPMENT AS REQUIRED.
4. ALL BREAKERS AND PANELS SHALL BE SQUARE-D.
5. TVSS AND SURGE ARRESTOR UNITS SHALL BE MOUNTED DIRECTLY ADJACENT TO THE SIDE OF THE MAIN DISTRIBUTION PANEL IN NEMA 3R ENCLOSURES. CLOSE NIPPLE THE UNITS TO THE SIDE OF THE PANEL. PROVIDE CONNECTION OF TVSS UNIT TO BREAKER IN PANEL. CONNECT SURGE ARRESTOR TO MAIN INCOMING LUGS OF THE PANEL. CONNECT USING MINIMUM LENGTH OF WIRE WITHOUT SHARP BENDS IN THE WIRE AND SHALL NOT BE LENGTHENED FROM WIRE LENGTH PROVIDED WITH THE TVSS OR SURGE SUPPRESSOR DEVICE.

B1 CONDUIT AND CONDUCTORS SCHEDULE

Mark	OCP Device	Conductors Total Amps		Conductors					Raceway Size (Nominal Inches)							
				Phase & Neutral			Min Eq Grd		No.	Phase, Neutral & Equip Grd				With IG		
No.	(Amp/Poles)	60d C	75d C	Qty	Size	Type	Qty/Set	Size	Sets	EMT	IMC	RIGID	PVC	EMT	IMC	PVC
1	20/1	20	-	2	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
2	20/2	20	-	3	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
3	20/3	20	-	4	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
4	25/1	30	-	2	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
5	25/2	30	-	3	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
6	25/3	30	-	4	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
7	30/1	30	-	2	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
8	30/2	30	-	3	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
9	30/3	30	-	4	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
10	40/1	40	-	2	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
11	40/2	40	-	3	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
12	40/3	40	-	4	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	1.00
13	45/3	55	-	4	6	THHN	1	10	One	1.00	1.00	1.00	1.00	1.00	1.00	1.00
14	50/1	55	-	2	6	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
15	50/2	55	-	3	6	THHN	1	10	One	0.75	0.75	0.75	0.75	1.00	1.00	1.00
16	50/3	55	-	4	6	THHN	1	10	One	1.00	1.00	1.00	1.00	1.00	1.00	1.00
17	60/1	70	-	2	4	THW	1	8	One	1.00	1.00	1.00	1.00	1.25	1.00	1.25
18	60/2	70	-	3	4	THW	1	8	One	1.25	1.00	1.25	1.25	1.25	1.25	1.25
19	60/3	70	-	4	4	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25	1.25
20	70/1	70	-	2	4	THW	1	8	One	1.00	1.00	1.00	1.00	1.25	1.00	1.25
21	70/2	70	-	3	4	THW	1	8	One	1.25	1.00	1.25	1.25	1.25	1.25	1.25
22	70/3	70	-	4	4	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25	1.25
23	80/2	85	-	3	3	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25	1.25
24	80/3	85	-	4	3	THW	1	8	One	1.25	1.25	1.25	1.25	1.50	1.25	1.50
25	90/2	95	-	3	2	THW	1	8	One	1.25	1.25	1.25	1.25	1.50	1.25	1.50
26	90/3	95	-	4	2	THW	1	8	One	1.50	1.25	1.50	1.50	1.50	1.50	1.50
27	100/2	110	-	3	1	THW	1	6	One	1.50	1.50	1.50	1.50	2.00	2.00	2.00
28	100/3	110	-	4	1	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
29	110/2	-	150	3	1/0	THW	1	6	One	1.25	1.25	1.25	1.25	1.50	1.25	1.50
30	110/3	-	150	4	1/0	THW	1	6	One	1.50	1.25	1.50	1.50	1.50	1.50	1.50
31	125/2	-	150	3	1/0	THW	1	6	One	1.50	1.50	1.50	1.50	2.00	2.00	2.00
32	125/3	-	150	4	1/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
33	150/2	-	150	3	1/0	THW	1	6	One	2.00	1.50	2.00	2.00	2.00	2.00	2.00
34	150/3	-	150	4	1/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
35	175/2	-	175	3	2/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
36	175/3	-	175	4	2/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.50	2.50	2.50
37	200/2	-	200	3	3/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.50	2.50	2.50
38	200/3	-	200	4	3/0	THW	1	6	One	2.50	2.50	2.50	2.50	2.50	2.50	2.50
39	225/2	-	230	3	4/0	THW	1	4	One	2.50	2.00	2.50	2.50	2.50	2.50	2.50
40	225/3	-	230	4	4/0	THW	1	4	One	2.50	2.50	2.50	2.50	2.50	3.00	3.00
41	250/3	-	255	4	250	THW	1	4	One	2.50	3.00	3.00	3.00	3.00	3.00	3.00
42A	300/3	-	285	4	300	THW	1	4	One	3.00	3.00	3.00	3.00	3.00	3.00	3.00
42B	300/3	-	310	4	350	THW	1	4	One	3.00	3.00	3.00	3.00	3.00	3.00	3.00
43A	350/3	-	335	4	400	THW	1	4	One	3.00	3.50	3.50	3.50	3.50	3.50	3.50
43B	350/3	-	380	4	500	THW	1	4	One	3.50	3.50	3.50	3.50	3.50	3.50	3.50
44A	400/3	-	380	4	500	THW	1	3	One	3.50	3.50	3.50	3.50	3.50	3.50	3.50
44B	400/3	-	400	4	3/0	THW	1	3	Two	2.50	2.50	2.50	2.50	2.50	2.50	2.50
45A	600/3	-	570	4	300	THW	1	1	Two	3.00	3.00	3.00	3.00	3.00	3.00	3.00
45B	600/3	-	620	4	350	THW	1	1	Two	3.00	3.00	3.00	3.00	3.00	3.00	3.50
46A	800/3	-	760	4	500	THW	1	1/0	Two	3.50	3.50	3.50	3.50	3.50	3.50	3.50
46B	800/3	-	820	4	600	THW	1	1/0	Two	4.00	4.00	4.00	4.00	4.00	4.00	4.00
47	1000/3	-	1005	4	400	THW	1	2/0	Three	3.50	3.50	3.50	3.50	3.50	3.50	3.50
48	1200/3	-	1240	4	350	THW	1	3/0	Four	3.50	3.50	3.50	3.50	3.50	3.50	4.00
49	1600/3	-	1675	4	400	THW	1	4/0	Five	4.00	4.00	4.00	4.00	4.00	4.00	4.00

Notes:
Conductors are rated at 600 volt or below and are to be copper.

NEC Table 310.15(B)(16) - formerly Table 310.16 - is used for the basis of the conductor ampacities, which is not more than three current carrying conductors in a raceway at an ambient temperature of 30 deg C with 60 deg C rated conductors and connectors per 110.14-C-1 for up to 100 amp rated and up to #1 AWG conductors for equipment terminations and 75 deg C rated conductors and termination connectors for larger than 100 amp or above #1 AWG conductors.

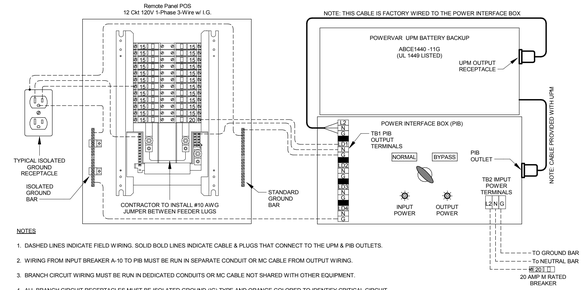
NEC Tables 4, 5, and Appendix C is used for the basis of the conduit sizes. Table C1 for EMT, Table C4 for IMC, Table C8 for Rigid, and Table C10 for PVC (Sch 40).

All Branch Feeders and Branch Circuits shall include a green Equipment Grounding Conductor.

Omit Grounding conductor on Service Entrance Feeders.

Omit Neutral conductor on all Delta primary transformer feeders or single-phase 2 pole loads and 3 phase loads not requiring a neutral.

The above conductors are not calculated for Voltage Drop. Any circuits that exceed 100 feet shall be calculated by the Installer to have less than a three percent voltage drop on feeders and five percent on branch circuits per the NEC.



NOTES

1. DASHED LINES INDICATE FIELD WIRING. SOLID BOLD LINES INDICATE CABLE & PLUGS THAT CONNECT TO THE UPM & PIB OUTLETS.
2. WIRING FROM INPUT BREAKER A-10 TO PIB MUST BE RUN IN SEPARATE CONDUIT OR MC CABLE FROM OUTPUT WIRING.
3. BRANCH CIRCUIT WIRING MUST BE RUN IN DEDICATED CONDUITS OR MC CABLE NOT SHARED WITH OTHER EQUIPMENT.
4. ALL BRANCH CIRCUIT RECEPTACLES MUST BE ISOLATED GROUND (IG) TYPE AND ORANGE COLORED TO IDENTIFY CRITICAL CIRCUIT.
5. POWERVAR UPM BATTERY BACKUP IS MOUNTED ON TOP OF THE PIB AND CONNECTS WITH CABLE PLUGS AND OUTLETS.

A1 POS AND LAPC/PIB WIRING DIAGRAM

NO SCALE

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

GPD GROUP, INC.
LIC. # - 30920
520 S. MAIN STREET, SUITE 2531
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STEVEN P. SCHAUB
LICENSE No. 75207
STATE OF FLORIDA
PROFESSIONAL ENGINEER
05/23/22

CHICK-FIL-A
HUNT CLUB
2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571

BUILDING TYPE / SIZE: P13 SE ALL
RELEASE: v2_21.08
PRINTED FOR
ISSUED FOR CONSTRUCTION

REVISION SCHEDULE

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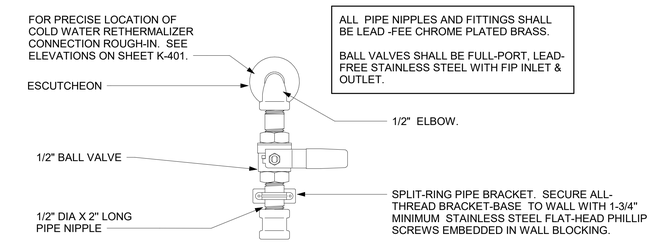
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DATE 12/08/21
DRAWN BY Author

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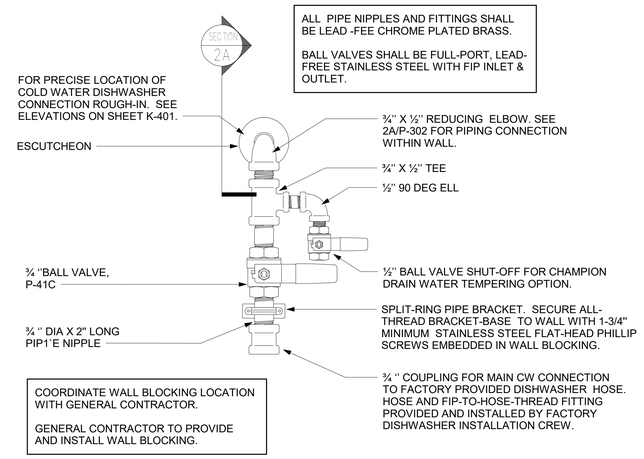
SHEET
SINGLE LINE DIAGRAM AND NOTES

SHEET NUMBER
E-502

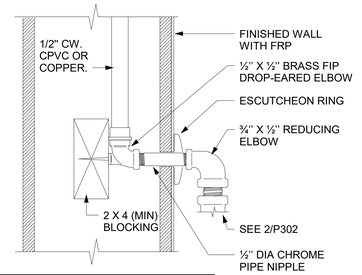
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50-SE-04571-E-502-SINGLE LINE DIAGRAM AND NOTES



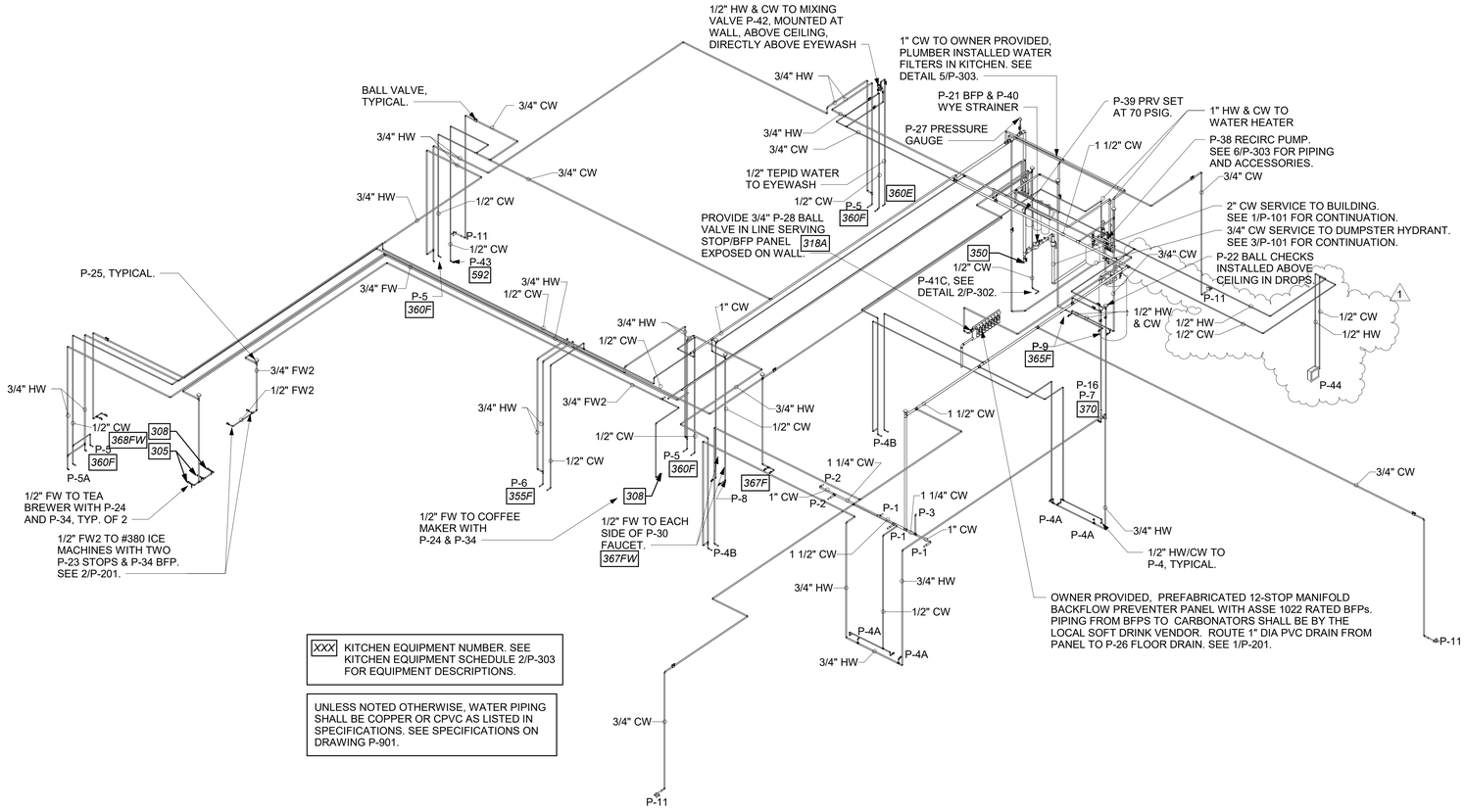
3 RETHERMALIZER SUPPLY VALVE
NOT TO SCALE



2 DISHWASHER SUPPLY VALVE ASSEMBLY-CHAMPION
NOT TO SCALE



2A SECTION AT PIPNG WITHIN WALL
NOT TO SCALE



1 WATER RISER DIAGRAM

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Atlanta, Georgia
30349-2998

GPD GROUP, INC.
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AKRON, OH 44311

CHICK-FIL-A HUNT CLUB

2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571

BUILDING TYPE / SIZE: P13 SE ALL
RELEASE: v2.21.05
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1	06/15/22	Bulletin 1

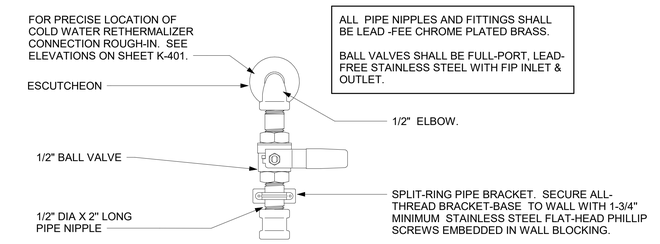
CONSULTANT PROJECT # 2021223.29
DATE 12/08/21
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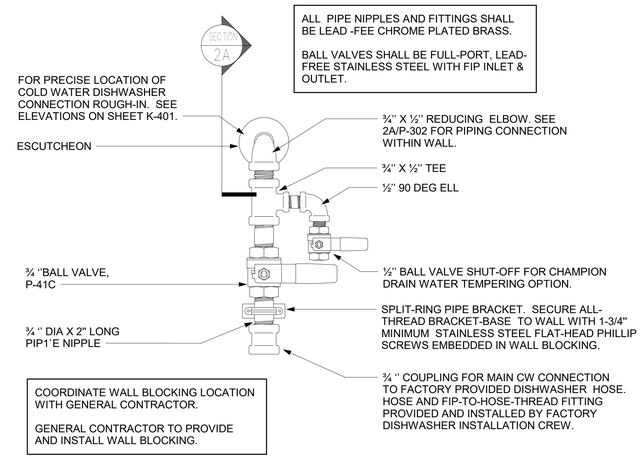
SHEET
WATER RISER DIAGRAM

SHEET NUMBER
P-302

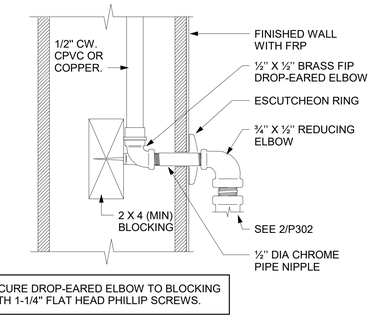
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40-SE-04571-P-302-WATER RISER DIAGRAM



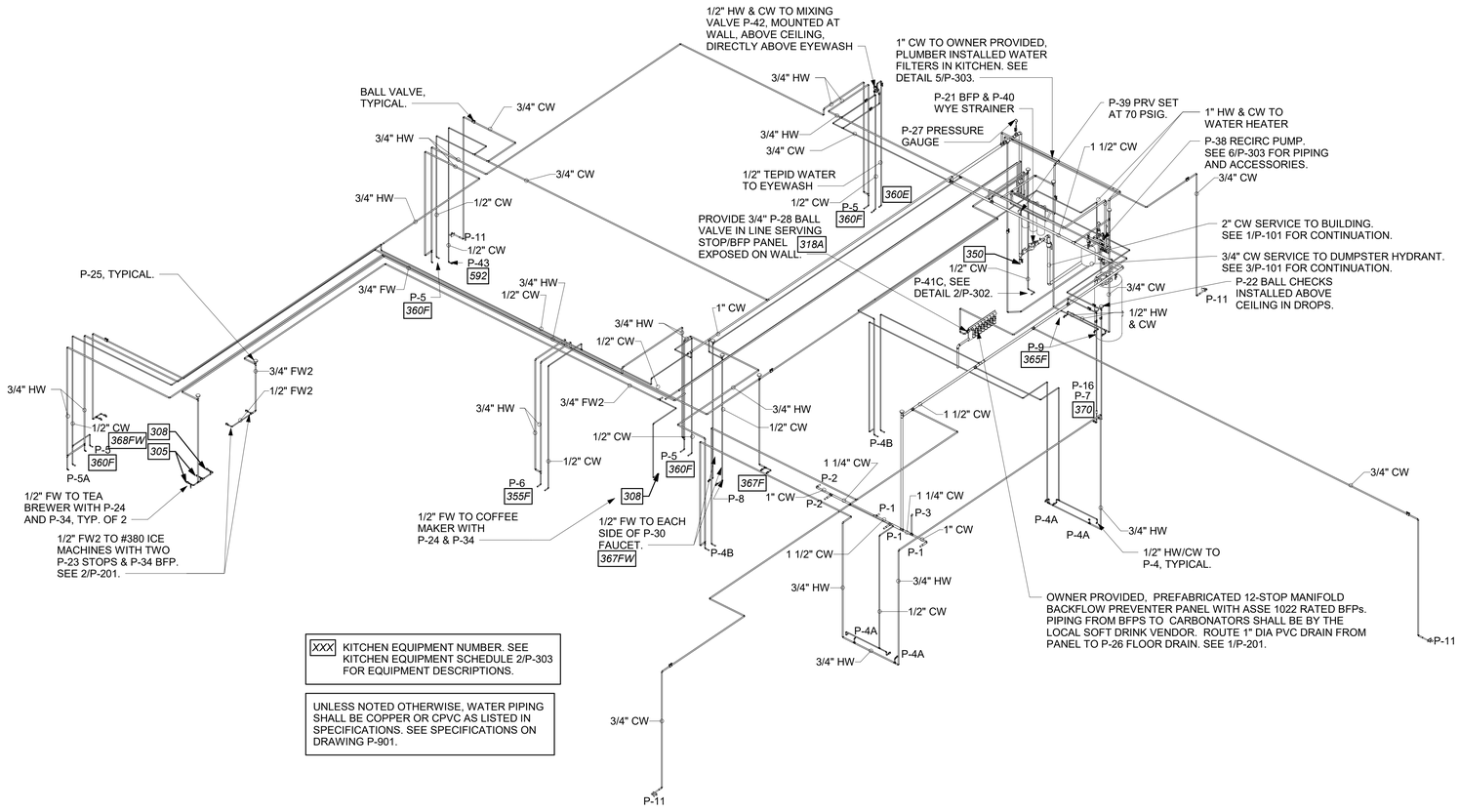
3 RETHERMALIZER SUPPLY VALVE
NOT TO SCALE



2 DISHWASHER SUPPLY VALVE ASSEMBLY-CHAMPION
NOT TO SCALE



2A SECTION AT PIPNG WITHIN WALL
NOT TO SCALE



1 WATER RISER DIAGRAM

Chick-fil-A
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BRANDON M. MARZLEY
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05/23/22

CHICK-FIL-A HUNT CLUB

2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571

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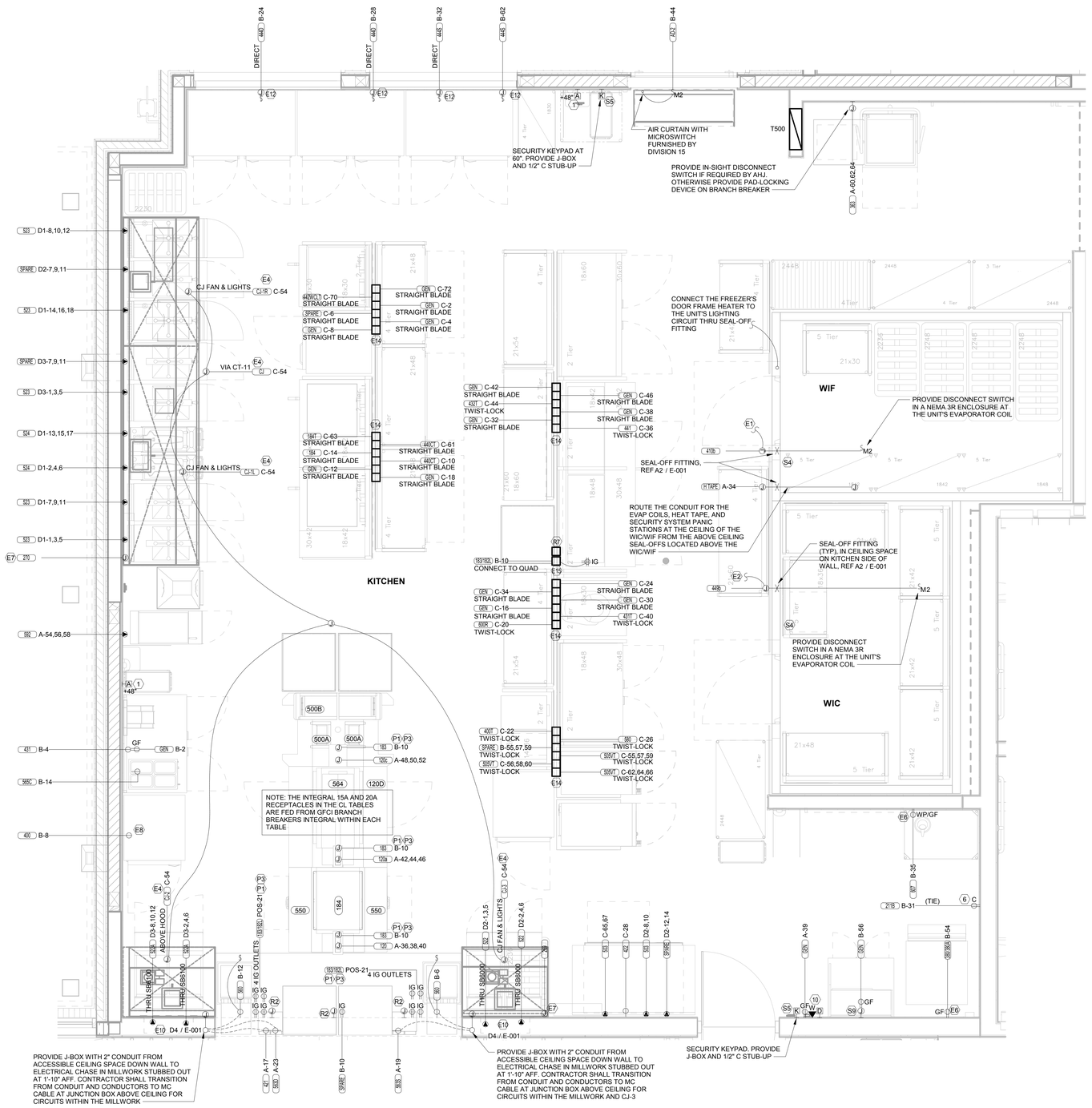
CONSULTANT PROJECT # 2021223.29
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SHEET
WATER RISER DIAGRAM

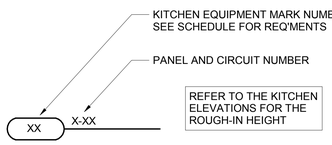
SHEET NUMBER
P-302

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40-SE-04571-P-302-WATER RISER DIAGRAM



A1 ENLARGED KITCHEN POWER PLAN

1/2" = 1'-0"



A4 KITCHEN EQUIPMENT NOMENCLATURE

NO SCALE

NOTE FOR GF TYPE RECEPTACLES IN KITCHEN/FOOD PREP AREAS:
THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL 150V TO GROUND OR LESS, 50A OR LESS, AND 3-PHASE RECEPTACLES 100A OR LESS IN THE KITCHEN/FOOD PREPARATION AREAS. GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE RECEPTACLE VIA A GROUND FAULT TYPE RECEPTACLE UNLESS OTHERWISE NOTED ON THE PLANS. SEE FLOOR PLANS FOR ADDITIONAL INFORMATION.

GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE BRANCH BREAKER VIA A GROUND FAULT TYPE BREAKER FOR ALL 50 AMP AND LESS RECEPTACLE CIRCUITS UNLESS ALREADY NOTED TO BE PROVIDED WITH AN ACCESSIBLE GFCI TYPE RECEPTACLE. (NOTE THAT SQUARE-D DOES NOT HAVE ANY GFCI TYPE BRANCH BREAKERS ABOVE 50 AMP AVAILABLE AT THIS TIME HOWEVER, GFI REQUIREMENTS ARE REQUIRED).

NOTE FOR POS GF IN KITCHEN:
THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL 120 VOLT, 15 AND 20 AMP ISOLATED GROUND RECEPTACLE OUTLET BRANCH CIRCUITS IN THE KITCHEN/FOOD PREPARATION AREAS. GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE BREAKER VIA A GROUND FAULT TYPE BRANCH BREAKER. (GFCI TYPE ISOLATED GRD RECEPTACLES ARE NOT AVAILABLE.)

NOTE:
RECEPTACLES FOR THE POS EQUIPMENT SHALL BE THE ONLY ITEMS THAT CONNECT TO PANEL-POS. THERE SHALL BE NO OTHER LOADS CONNECTED TO THIS ISOLATED GROUND PANEL AND, IF SO, SHALL BE REMOVED AND RECONNECTED TO ANOTHER PANELBOARD AT THE EXPENSE OF THE CONTRACTOR.

POWER PLAN KEYNOTES

1. PROVIDE TWO-GANG DEEP BOX (2" MIN.) FOR ANSUL PULL STATION. EXTEND 1/2" CONDUIT FROM BOX, STUBBED ABOVE CEILING.
6. PROVIDE DUPLEX RECEPTACLE (SEE ELEVATIONS FOR MTG HT) IN AN ARLINGTON #DVFR2W DOUBLE-GANG RECESSED BOX FOR THE FLY SYSTEM ITEMS. DO NOT CUT THE CORDSET FURNISHED WITH THE UNIT, BUT COIL THE CORD ON THE BACK OF THE UNIT AND TUCK INTO THE BACKBOX.
10. PROVIDE 2 GANG DEEP BOX (2" MIN.) FOR EACH DUCT SMOKE DETECTOR INDICATED ON THE MECHANICAL DRAWINGS FOR INSTALLATION OF DUCT DETECTOR REMOTE ANNUNCIATORS BY MECHANICAL. THE DUCT SMOKE REMOTE ANNUNCIATORS ARE PROVIDED TO THE ELECTRICIAN WITH THE SUNCOAST ELECTRONICS PACKAGE OF GEAR AND CONTROLS. EXTEND 1/2" CONDUIT FROM EACH BOX AND STUB ABOVE CEILING.

SECURITY KEYNOTES

- S4 PROVIDE TWO GANG WEATHERPROOF JUNCTION BOX AND STAINLESS STEEL PLATE WITH 7/8" HOLE IN CENTER FOR PANIC BUTTON. LOCATE AT 48" AFF AND EXTEND 1/2" CONDUIT UP TO ABOVE ACCESSIBLE CEILING WITH CONDUIT SEAL FITTING. SEAL CONDUIT PENETRATION AT WIC/WIF CEILING.
- S5 PROVIDE SINGLE GANG BOX WITHOUT COVER PLATE. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.
- S9 PROVIDE SINGLE GANG JUNCTION BOX WITHOUT COVERPLATE. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.

POS DATA KEYNOTES

- R2 PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" CONDUIT EXTENDING UP INTO THE CEILING SPACE FOR POS MONITOR(S). COVER PLATE PROVIDED BY OWNER'S POS SYSTEM VENDOR.
- R7 PROVIDE A SINGLE GANG BOX FLUSH MOUNTED IN THE CEILING FOR THE POS DATA PLATE (BY OTHERS) FOR THE SALAD PREP AREA POS MONITOR AND PRINTER.

POS POWER KEYNOTES

- P1 PROVIDE ORANGE ISOLATED GROUND (IG) DUPLEX RECEPTACLE.
- P3 USE TYPE MC CABLE FOR THE ISOLATED GROUND CIRCUIT: #12 HOT, NEUTRAL, GREEN GROUND, STRIPED ISOLATED GROUND. EACH 15 AMP HOMERUN SHALL BE DEDICATED TO A CIRCUIT BREAKER VIA DEDICATED CONDUCTORS WITHIN A CABLE ASSEMBLY. ALL MC CABLES SHALL BE RUN OVERHEAD ABOVE THE CEILING AND RACKED TOGETHER ON J-HOOKS. NO SPLICES IN ANY HOMERUN CABLES FROM FIRST RECEPTACLE TO BREAKER.

ENLARGED POWER PLAN KEYNOTES

- E1 CONNECT EVAPORATOR UNIT IN FREEZER TO FREEZER CONDENSING UNIT CONTROLS LOCATED ON ROOF. SEE THE ROOF ELECTRICAL PLAN.
- E2 CONNECT EVAPORATOR UNIT IN COOLER TO COOLER CONDENSING UNIT CONTROLS LOCATED ON ROOF. SEE THE ROOF ELECTRICAL PLAN.
- E4 CONNECT AS REQUIRED TO HOOD. CONNECT HOMERUN VIA A RELAY IN THE CFA-T500 CONTROL SECTION.
- E6 SEE THE ROOF ELECTRICAL PLAN FOR THE LOCATION OF THE ICE MAKER CONDENSERS AND ANY ADDITIONAL REQUIREMENTS.
- E7 PROVIDE 3#12 IN 1/2" CONDUIT BETWEEN THE CFA-T500 CONTROL PANEL AND THE ANSUL SYSTEM PANEL(S). SEE ANSUL SYSTEM WIRING DIAGRAM DETAIL ON SHEET E-002 FOR ADDITIONAL INFORMATION.
- E8 PROVIDE GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE RECEPTACLE IN COMPLIANCE WITH THE NEC REQUIREMENT FOR KITCHEN/FOOD PREP AREAS. IF THE RECEPTACLE OUTLET IS NOT NOTED AS GFCI, THEN THE BREAKER IS TO BE GFCI TYPE.
- E10 THE RECESSED PIN AND SLEEVE BOX WITH THE 'SLEEVE' RECEPTACLE FOR THE OPEN FRYERS (ITEMS #522 AND 522A) ARE FURNISHED BY THE EXHAUST HOOD SUPPLIER AND INSTALLED BY THE CONTRACTOR. THE OPEN FRYER SUPPLIER PROVIDES PREWIRED CORDSET WITH A PIN DEVICE INTERGRAL WITH THE OPEN FRYER TO PLUG INTO THE SLEEVE RECEPTACLE.
- E12 SINGLE POLE SWITCH SHALL SERVE AS THE LOCAL "IN-SIGHT" MEANS OF DISCONNECT FOR EQUIPMENT ITEM AS NOTED. SEE DIRECT CONNECTION DETAILS ON SHEET E-002 FOR FURTHER INFORMATION.
- E14 OVERHEAD EQUIPMENT POWER (OEP) DROP CORD RECEPTACLES FROM A FLUSH MOUNTED CEILING OEP BOX (MAXIMUM OF SIX PER ASSEMBLY.) PROVIDE A-C-S OEP ASSEMBLY #12360-1000. ASSEMBLY WILL CONSIST OF A FLUSH CEILING OUTLET BOX, TWIST-LOCK PENDANT RECEPTACLES, STRAIGHT BLADE PENDANT RECEPTACLES, CORDS, STRAIN RELIEF, AND TWISTLOCK PLUGS AS NOTED ON PLAN. CONTACT BRIDGID DEFRAMCESHI EMAIL: BRIDGID1985@GMAIL.COM (800-639-7584) TO PURCHASE OEP BOX AND DROP CORD/RECEPTACLES. PROVIDE LIQUID-TIGHT CONDUIT WITH CONDUCTORS FOR DIRECT CONNECTED EQUIPMENT. CONDUIT SHALL NOT TOUCH THE FLOOR WHEN EQUIPMENT IS IN PLACE. USE SUPPORT GRIPS W/ SUPPORT HOOK ATTACHED TO SHELVING ABOVE AS NEEDED. PASS & SEYMOUR MODEL #FS075-U-GH5 OR EQUIVALENT.
- E15 PROVIDE A DOUBLE-GANG BOX FLUSH MOUNTED IN THE CEILING WITH A BLANK PLATE WITH HOLE FOR A DROP CORD. PROVIDE THE #12 DROP CORD (WITH STRAIN RELIEF AT THE BOX AND AT THE OUTLET BACKBOX) AND CONNECT THE CORD TO AN OUTLET BOX CONTAINING TWO 15 AMP IG (ORANGE) RECEPTACLE OUTLETS. OUTLET BOX TO BE MOUNTED TO THE OVERHEAD SHELVING AT THE PRINTER AND MONITOR MOUNTING BRACKET.

POWER PLAN GENERAL NOTES

1. ALL SECURITY, POS, MUSIC, COMMUNICATIONS, AND POWER ROUGH-IN SHALL BE INSTALLED DURING THE FRAMING/ROUGH-IN PHASE OF CONSTRUCTION.
2. REFER TO KITCHEN EQUIPMENT SHEETS FOR EQUIPMENT ELECTRICAL ROUGH-IN ELEVATIONS ABOVE FINISHED FLOOR.
3. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRING.
4. PROVIDE INSULATED BUSHING AT TERMINATION POINTS OF ALL CONDUITS FOR LOW VOLTAGE WIRING.
5. THE ELECTRICAL INSTALLER SHALL COORDINATE THE ROUTING OF ALL CONDUIT IN THE BUILDING WITH OTHER TRADES (SPECIFICALLY THE DUCTWORK INSTALLATION) TO AVOID CONFLICTS OF SPACE REQUIREMENTS IN WALLS AND CEILING SPACES.

Chick-fil-A
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STEVEN P. SCHAUB
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05/23/22

CHICK-FIL-A HUNT CLUB

2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571

BUILDING TYPE / SIZE: P13 SE ALL
RELEASE: v2_21.08
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SHEET
ENLARGED KITCHEN POWER PLAN

SHEET NUMBER
E-301

5/23/2022 9:32:44 AM BIM 360://FL_04571_Hunt Club_2021.11_FSR/04571_Hunt Club_ELE.rvt
50-SE-0457-1-E-301-ENLARGED KITCHEN POWER PLAN

VALVE TAG LEGEND	
VALVE	VALVE POSITION
① MAIN WATER SHUT-OFF	NORMALLY OPEN
② MAIN DRAIN	NORMALLY CLOSED
③ ACCESSORY SHUT-OFF	NORMALLY OPEN
④ WATER FILTER INLET	NORMALLY OPEN
⑤ RECIRC PUMP ISOLATION VALVE	NORMALLY OPEN
⑥ WATER HEATER INLET	NORMALLY OPEN
⑦ RESTROOM & KITCHEN COLD WATER	NORMALLY OPEN
⑧ POST HYDRANT COLD WATER	NORMALLY OPEN
⑨ GAS TO WATER HEATER	NORMALLY OPEN
⑩ WATER HEATER OUTLET	NORMALLY OPEN
NOTE: HANDLE IN-LINE WITH PIPING = VALVE OPEN	

LAMINATE VALVE TAG LEGEND AND MOUNT PERMANENTLY WHERE SHOWN ON WATER HEATER DETAIL IN AN ALUMINUM FRAME EQUAL TO SETON #68624.



② VALVE TAG SYMBOL AS SHOWN ON DETAIL 6/P-303. PROVIDE 1-1/2" ROUND BRASS VALVE TAG WITH 1/2" HIGH BLACK FILLED LETTERING. EACH TAG SHALL INDICATE VALVE NUMBER AND WILL ALSO HAVE "PLBG" STAMPED ON THE TAG IN 1/4" HIGH BLACK FILLED LETTERING EQUAL TO SETON #M4506. HANG WITH BRASS JACK CHAIN ON VALVE HANDLE.

③ VALVE TAGS AND LEGEND
NOT TO SCALE

2. KITCHEN EQUIPMENT SCHEDULE

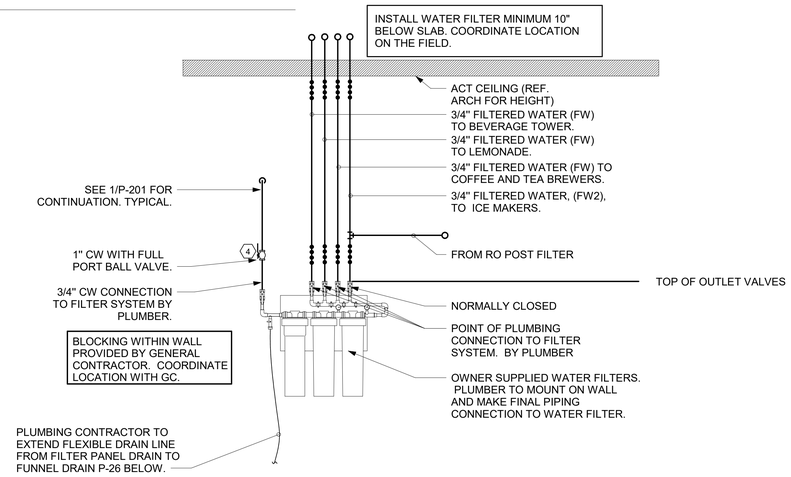
TAG	DESCRIPTION	FW	FW2	CW	HW	WASTE	ROUGH-IN
305	TEA BREWER	1/2"	X	X	X	X	P-24, SEE K-611 & 6/P-211
308	COFFEE MAKER	1/2"	X	X	X	X	P-24, SEE K-611 & 6/P-211
318A	CARBONATOR BFP PANEL	3/4"	X	X	X	X	P-28, SEE K-611
350	WATER FILTER PANEL	(3) 3/4"	3/4"	3/4"	X	X	SEE DET 5/P-303
360E	EMERGENCY EYEWASH STATION	X	X	1/2"*	1/2"*	X	*1/2" TEPID WATER FROM P-42, SEE K-611 & 1/P-201
363	DISHWASHER	X	X	1/2"	X	INDIRECT TO P-13A	P-41, SEE K-611 & 1/P-201
365	POT SINK	X	X	(2) 1/2"	(2) 1/2"	INDIRECT	TWO #365F FAUCETS, P-9 SEE K-611
367	VEGETABLE PREP SINK	X	X	1/2"	1/2"	INDIRECT	#367F FAUCET, P-8 SEE K-611
367FW	FILTERED WATER FAUCET	(2) 1/2"	X	X	X	X	P-30 48" AFF.
368FW	FILTERED WATER FAUCET	(2) 1/2"	X	X	X	X	P-30 48" AFF.
370	MOP SINK	X	X	1/2"	1/2"	3" P-35	P-7 SEE K-611
380	ICE MAKER (BIN MOUNTED)	X	(2) 1/2"	X	X	INDIRECT	P-23 SEE K-611 & 3/P-201
381	ICE BIN (1 HEAD)	X	1/2"	X	X	INDIRECT	P-23 SEE K-611 & 3/P-201
384	ICE BIN (2 HEAD)	X	1/2"	X	X	INDIRECT	P-23 SEE K-611 & 3/P-201
592	RETHERMALIZER	X	X	1/2"	X	INDIRECT	P-43 SEE DET 3/P-302

1. FIXTURE CONNECTION SCHEDULE

MARK	FIXTURE	FW	FW2	CW	HW	WASTE
P-1	WATER CLOSET - FLOOR MOUNT (1.28 GPF)	X	X	1"	X	3"
P-2	WATER CLOSET - ADA FLOOR MOUNT (1.28 GPF)	X	X	1"	X	3"
P-3	URINAL - ADA WALL HUNG (0.125 GPF)	X	X	3/4"	X	2"
P-4A	LAVATORY - ADA COUNTERTOP (0.50 GPM)	X	X	1/2"	1/2"	1-1/4"
P-4B	LAVATORY - ADA WALL-MOUNTED (0.50 GPM)	X	X	1/2"	1/2"	1-1/4"
P-5	KITCHEN HAND SINK - WALL HUNG (1.0 GPM)	X	X	1/2"	1/2"	1-1/2"
P-5A	KITCHEN DUMP SINK - WALL HUNG (1.0 GPM)	X	X	1/2"	1/2"	1-1/2"
P-6	SINGLE COMP SINK - COUNTERTOP (1.0 GPM)	X	X	1/2"	1/2"	1-1/2"
P-7	MOP SINK	X	X	1/2"	1/2"	3"
P-8	VEGETABLE PREP SINK (0.65 GPM SPRAYER)	X	X	1/2"	1/2"	(2) 1-1/2"
P-9	POT SINK (0.65 GPM SPRAYER)	X	X	(2) 1/2"	(2) 1/2"	(4) 1-1/2"
P-10	FLOOR DRAIN (ROUND TOP)	X	X	X	X	3"
P-11	WALL HYDRANT (NON FREEZE)	X	X	3/4"	X	X
P-12	FUNNEL DRAIN (3")	X	X	X	X	3"
P-13A	FLOOR SINK (4") 12" TOP	X	X	X	X	4"
P-13B	FLOOR SINK (3") 8" TOP	X	X	X	X	3"
P-14	CLEANOUT INSIDE BUILDING	X	X	X	X	SEE PLAN
P-16	3-WAY VALVE/ VACUUM BREAKER	X	X	3/4"	3/4"	X
P-17	VACUUM RELIEF VALVE	X	X	3/4"	X	X
P-18	EXPANSION TANK	X	X	3/4"	X	X
P-19	WATER HEATER	X	X	1"	1"	X
P-20	THERMOMETER	X	X	X	1/2"	X
P-21	BACKFLOW PREVENTER	X	X	1-1/2"	X	X
P-22	MOP SINK CHECK VALVES	X	X	1/2"	1/2"	X
P-23	UTILITY CONNECTION (ICE MAKER)	X	1/2"	X	X	X
P-24	UTILITY CONNECTION (COFFEE & TEA)	1/2"	X	X	X	X
P-25	SHOCK ABSORBER	1/2"	1/2" & 3/4"	1/2"	1/2"	X
P-26	FUNNEL DRAIN	X	X	X	X	3"
P-26A	TRAP SEAL PROTECTOR	X	X	X	X	3"
P-27	WATER PRESSURE GAUGE	X	X	1/4"	X	X
P-28	BALL VALVE-CARBONATOR STOP/BFP PANEL	3/4"	X	X	X	X
P-29	ICE MACHINE TRENCH DRAIN	X	X	X	X	4"
P-30	FILTERED WATER FAUCET	(2) 1/2"	X	X	X	X
P-31	DUMPSTER POST HYDRANT	X	X	3/4"	X	X
P-32	DUMPSTER DRAIN	X	X	X	X	3"
P-33	TRAP PRIMER (MECHANICAL TYPE)	X	X	1/2"	X	X
P-34	DISPENSER BACKFLOW PREVENTER	1/2"	X	X	X	X
P-35	FLOOR DRAIN	X	X	X	X	3"
P-36	BEVERAGE TOWER INDIRECT RECEIVER	X	X	X	X	3"
P-37	FLOOR DRAIN (SQUARE TOP)	X	X	X	X	3"
P-38	HOT WATER CIRCULATING PUMP	X	X	X	1/2"	X
P-39	PRESSURE REDUCING VALVE	X	X	2"	X	X
P-40	WYE STRAINER	X	X	2"	X	X
P-41C	DISHWASHER SUPPLY VALVES - CHAMPION	X	X	3/4"	X	X
P-42	EMERGENCY EYEWASH MIXING VALVE	X	X	1/2"	1/2"	X
P-43	RETHERMALIZER SUPPLY VALVE	X	X	1/2"	X	X

NOTES: ① REFER TO FOOD SERVICE DRAWINGS FOR KITCHEN EQUIPMENT INSTALLATION AND HOOK-UP RESPONSIBILITIES.

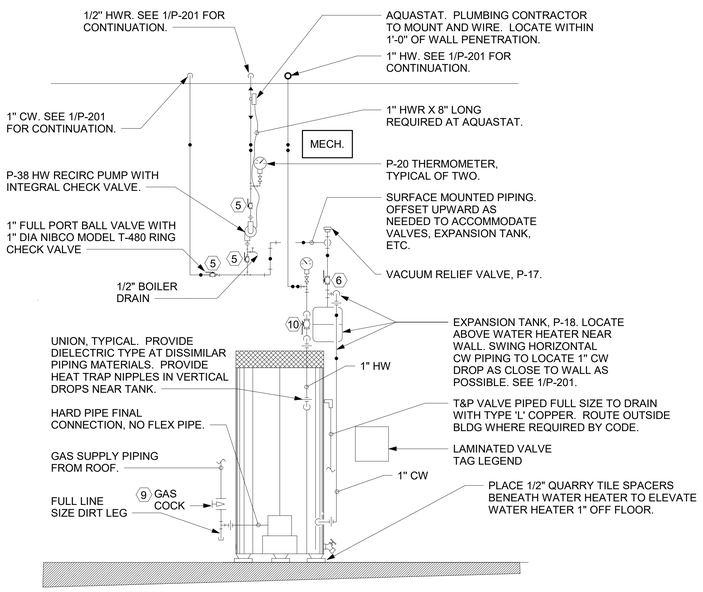
② DO NOT MANIFOLD POT OR PREP SINK DRAINS TOGETHER UNLESS ALLOWED BY LOCAL AUTHORITY.



⑤ PIPING AT WATER FILTER
NOT TO SCALE

NOTES TO WATER HEATER INSTALLER:

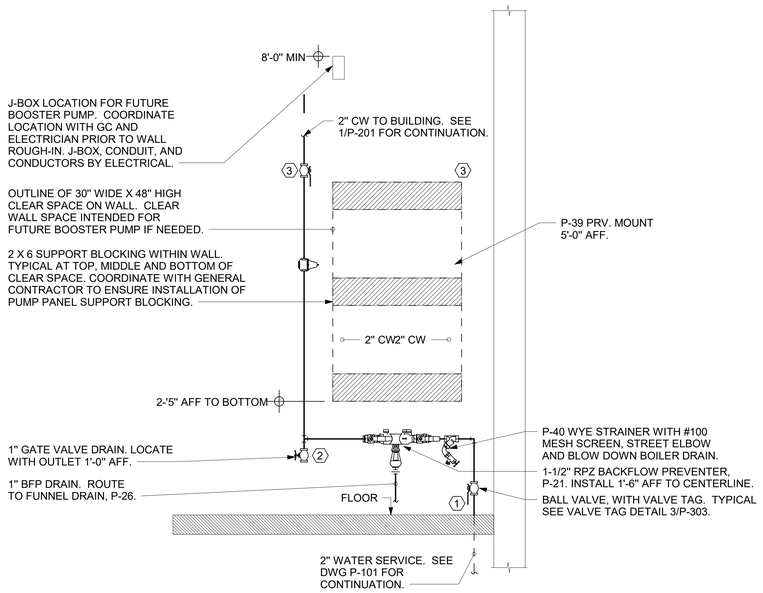
1. POSITION VALVES AND TRIM IN MECH ROOM SUCH THAT VALVES AND TRIM ARE UNOBSTRUCTED TO VIEW AND SO THAT ACCESS FOR OPERATION OR REPAIR IS POSSIBLE WITHOUT USE OF STEP LADDERS OR NEED TO DISASSEMBLE ANY COMPONENTS.
2. VENT HEATER UP THRU MECH ROOM ROOF AND PROVIDE FRESH AIR PIPING PER MANUFACTURER'S RECOMMENDATIONS.



⑥ PIPING AT WATER HEATER
NOT TO SCALE

NOTE OF SPECIAL IMPORTANCE :

1. LOCATIONS OF 2" CW RISER AND CLEAR SPACE ARE DIMENSIONED BECAUSE THEY ARE CRITICAL FOR THE FUTURE PUMP PANEL INSTALLATION.
2. GENERAL CONTRACTOR SHALL ENSURE OTHER TRADES SHALL NOT INSTALL ANY OTHER BUILDING COMPONENT WITHIN CLEAR SPACE OR WITHIN 10" OF EDGES.



④ PIPING AT WATER SERVICE ENTRANCE IN MECHANICAL ROOM
NOT TO SCALE

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05/23/22

CHICK-FIL-A HUNT CLUB

2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571

BUILDING TYPE / SIZE: P13 SE ALL
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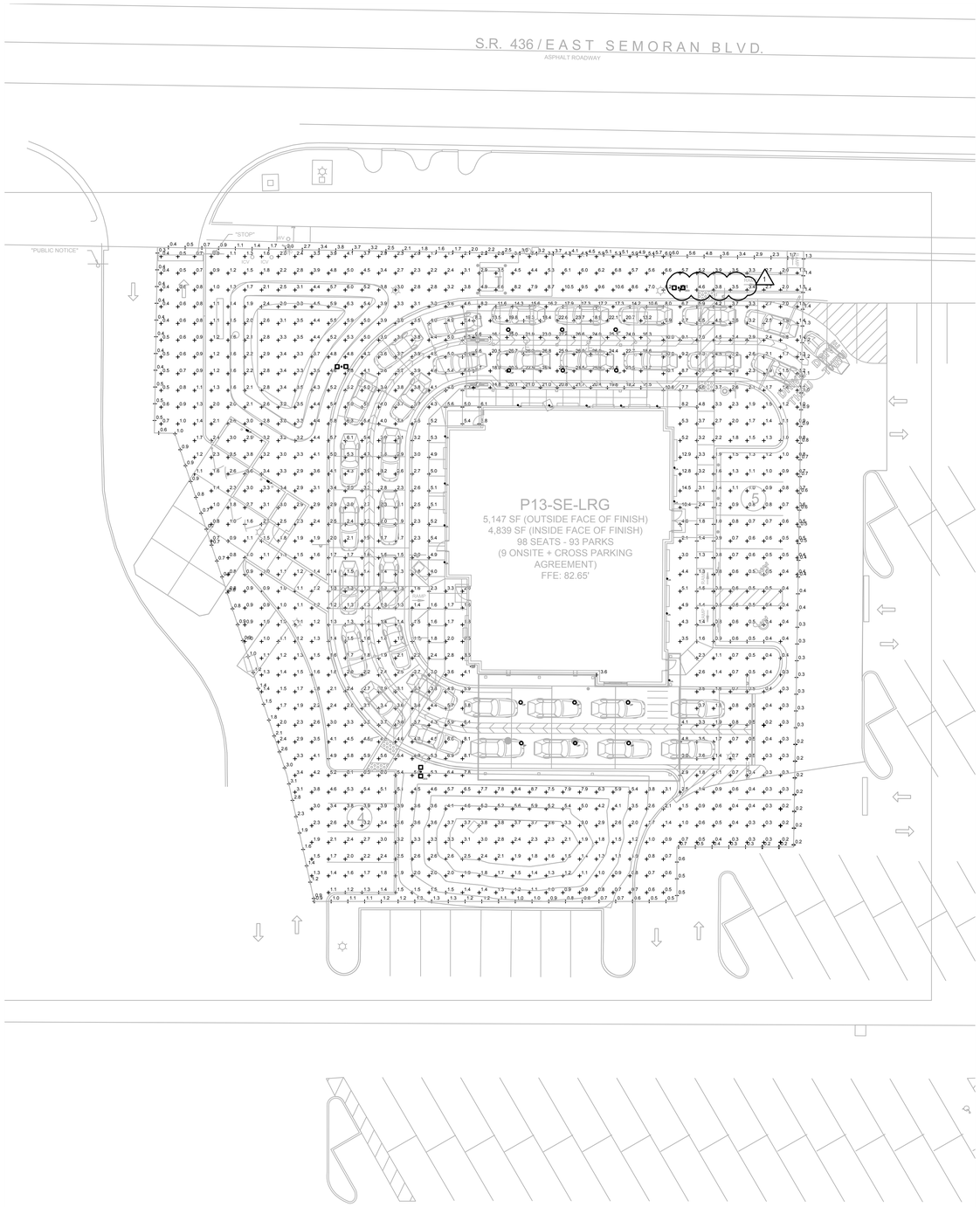
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SHEET
DETAILS AND SCHEDULES

SHEET NUMBER
P-303

5/23/2022 10:14:18 AM BIM 360://FL_04571_Hunt Club_2021.11_FSR/04571_Hunt Club_PLB.rvt
40-SE-04571-P-303-DETAILS AND SCHEDULES



STATISTICS

DESCRIPTION	SYMBOL	AVG	MAX	MIN	MAX/MIN	AVG/MIN
CFA HARDSCAPE	+	3.3 fc	17.9 fc	0.2 fc	89.5:1	16.5:1
PEDESTRIAN WALKWAYS	+	3.2 fc	10.6 fc	0.8 fc	13.3:1	4.0:1
PROPERTY LINE	+	1.4 fc	6.0 fc	0.2 fc	30.0:1	7.0:1

1

PHOTOMETRIC NOTES

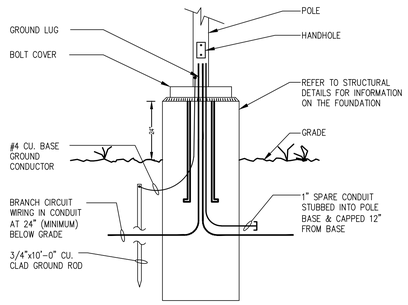
1. ALL FIXTURES UTILIZED IN THIS SITE PHOTOMETRIC ARE FULL CUTOFF.
2. MOUNT AREA LUMINAIRE TYPE 'OD3' AT 25' AFG (INCLUDING POLE BASE) UNLESS OTHERWISE NOTED.
3. COLOR TEMPERATURES OF FIXTURES SHALL BE 40K.

LIGHTING FIXTURE SCHEDULE

SYMBOL	LABEL	QTY	CATALOG NUMBER	MANUFACTURER	DESCRIPTION	LAMP	WATTS	VOLTS	MOUNTING
○	OA	14	P5675-31 WITH P8799 TOP COVER LENS	PROGRESS LIGHTING	5" DIAMETER, 14" HEIGHT, WET LOCATION, UP/DOWN CYLINDER W/ 12 WATT PAR30 3K NFL LED LAMPS	(2)GE-LED12P30RW83025	24	120	WALL
□	OD3	3	LUMINAIRE: PRV-C40-D-UNV-T3-BK-MS/DIM-L40W (TYPE 3 DISTRIBUTION) POLE: DIRECT BURIAL (TWO LUMINAIRES AT 180 DEGRESS) ANCHOR BOLT SET: ABSSS-5	COOPER/LUMARK KW INDUSTRIES	TWIN AREA LIGHT FIXTURE WITH TYPE 3 MEDIUM DISTRIBUTION. FIXTURES, BRACKETS, AND POLES TO HAVE BLACK FINISH. DRILL MOUNT THE ARMS/BRACKETS TO THE POLES. PROVIDE SINGLE POLE FUSE HOLDER AND 3A FUSES IN HAND HOLE OF POLE.	INTEGRAL LED	262	120	POLE - 25'
▭	OK	2	LNC-5LU-3K-3-1	HUBBELL	LED WALLPACK W/ CENTERLINE OF FIXTURE AT 8'-0" ABV 0'-0" (FINISH FLOOR LINE)	INTEGRAL LED	13	120	WALL
○	OP	12	C-CP-A-SQ-79L-50K-WH	C-LITE	CEILING LIGHT FIXTURE PROVIDED BY THE CANOPY SUPPLIER AND INSTALLED BY THE ELECTRICAL CONTRACTOR.	INTEGRAL LED	88	120	CANOPY - 9.5'

NOTES: OD POLES SHALL BE 25' DIRECT BUIRED CONCRETE POLES WITH 2-3/8" TENON MOUNTS. POLE DESIGN BY MANUFACTURER. VERIFY ALL INSTALLATION REQUIREMENTS PRIOR TO ROUGH-IN. 1

A4 SITE PHOTOMETRIC PLAN
SCALE: 3/4" = 1'-0"



A2 TYPICAL POLE BASE DETAIL
N.T.S.

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APOPKA, FL 32703

FSR#04571

BUILDING TYPE / SIZE: P13 SE LRG
RELEASE: v2_21.08
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REVISION SCHEDULE

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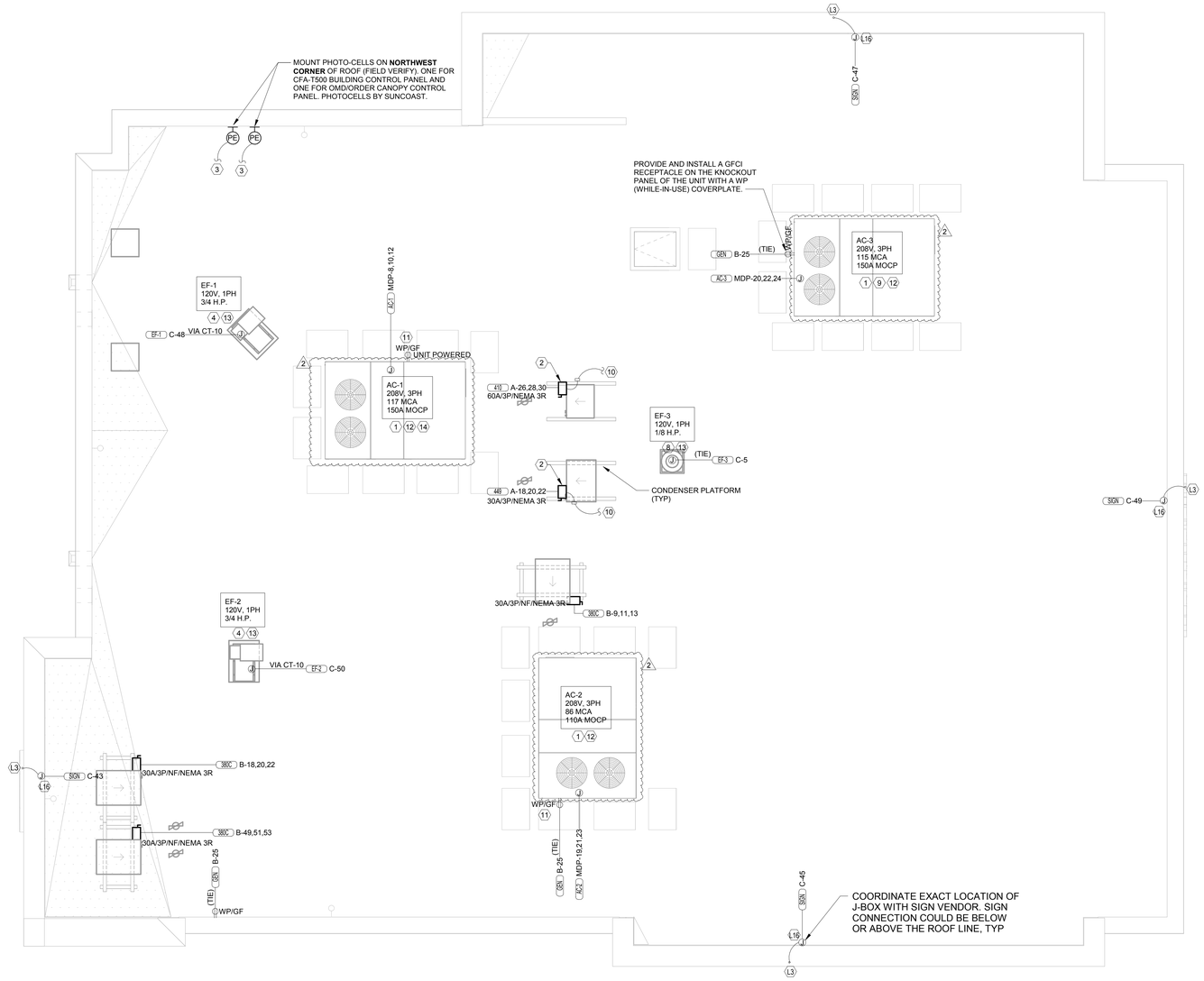
CONSULTANT PROJECT #	2021223.29
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SHEET: ELECTRICAL PHOTOMETRIC PLAN

SHEET NUMBER: **E-102**

7/14/2022 4:41 PM \\GPDCO.COM\DATA\2021\2021223\29 04571 RELO HUNT CLUB, FL (BLDG)\4_WORKING FILES\03_ENGINEERING\01_ELECT\CFA HUNT CLUB PHOTOMETRIC.DWG
10-SE-04571-A-001-FLORIDA PRODUCT APPROVALS



B1 ROOF POWER PLAN - LRG

1/4" = 1'-0"

NOTE: REFER TO MECHANICAL DRAWINGS FOR ROOFTOP PACKAGED AC UNIT SCHEDULE. ALL UNITS ARE FURNISHED WITH FACTORY INSTALLED DISCONNECT SWITCH. REFER TO SAME SCHEDULE FOR INDICATION OF UNITS FURNISHED WITH FACTORY RECEPTACLE FOR COMPLIANCE WITH NEC 210-63.

LIGHTING PLAN KEYNOTES

- L3 FOR SIGNAGE BY OTHERS; CONNECT AS REQUIRED. GROUND ALL LOCATIONS IN ACCORDANCE WITH NEC AND MANUFACTURER'S REQUIREMENTS. SIGN IS FURNISHED WITH AN INTEGRAL PRE-WIRED DISCONNECTING MEANS.
- L16 ROUTE THROUGH CONTROL PANEL CFA-T500 AND CONTROLLED BY OCCUPIED SWITCH AND PHOTOCELL.

ROOF POWER KEYNOTES

1. ROUTE ELECTRICAL CONDUITS TO UNIT CONNECTIONS THROUGH WEATHERPROOF RACEWAY FURNISHED WITH UNIT. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATIONS.
2. MOUNT WEATHER-PROOF FUSED DISCONNECT SWITCHES FOR WIC AND WIF CONDENSERS ON UNISTRUT WITH CONDUIT DOWN INTO CEILING SPACE BELOW THRU ROOF PENETRATION DEVICE (NOT THRU ROOF). SEE THE ARCHITECTURAL ROOF PENETRATION DETAIL(S) FOR FURTHER INFORMATION. PROVIDE FUSE SIZE PER MANUFACTURER REQUIREMENTS.
3. CONNECT ONE PHOTOCELL ON ROOF TO THE CFA-T500 CONTROL PANEL TERMINALS AND ONE PHOTOCELL ON ROOF TO THE ORDER/OMD CANOPY CONTROL PANEL AS DIRECTED BY SUNCOAST ENVIRONMENTAL INC WIRING DIAGRAMS. PHOTOCELLS ON THE ROOF FURNISHED WITH CONTROL PANELS ORDER (SUNCOAST) AND INSTALLED BY CONTRACTOR.
4. COORDINATE EXACT LOCATION OF CONDUIT AND DISCONNECT AT EXHAUST FAN. CONDUIT SHALL BE INSTALLED THROUGH ROOF ON OUTSIDE OF FAN CURB. CONDUIT SHALL BE LOCATED AT FAN HINGE SUCH THAT THE FAN HOOD CAN BE FULLY HINGED OPEN AND NOT TOUCH THE CONDUIT. PROVIDE 14" DIAMETER LOOP IN THE FLEXIBLE CONDUIT BETWEEN THE ROOF AND THE FAN ELECTRICAL CONNECTION.
8. COORDINATE EXACT LOCATION OF CONDUIT AND DISCONNECT AT EXHAUST FAN. CONDUIT SHALL BE ROUTED WITH DUCTWORK WITHIN FAN ROOF CURB AND TO THE FAN WIREWAY. PROVIDE SEALTIGHT FITTINGS AS THE CONDUIT ENTERS AND LEAVES THE DUCTWORK. INTERLOCK WITH LIGHTING CIRCUIT IN RESTROOM. REFER TO THE LIGHTING PLAN FOR CONTINUATION.
9. PROVIDE 208/120V, 3P, 200A, 150AF FUSED DISCONNECT WITH CURRENT LIMITING FUSES.
10. CONNECT POWER FROM EACH CONDENSING UNIT'S COMPRESSOR CONTACTOR TO THE EVAPORATOR COIL UNIT'S JUNCTION BOX BELOW. REFER TO ENLARGED KITCHEN POWER PLAN FOR LOCATION.
11. CONVENIENCE RECEPTACLE PROVIDED PRE-INSTALLED IN HVAC UNIT. CONNECT TO 120 VOLT CIRCUIT AS REQUIRED AND/OR AS INDICATED. (NOTE THAT ONE UNIT WILL NOT BE FURNISHED WITH AN INTEGRAL PRE-INSTALLED RECEPTACLE OUTLET. CONTRACTOR SHALL PROVIDE A GFCI TYPE 20 AMP RECEPTACLE WITH IN-USE WP COVERPLATE MOUNTED TO THE OUTSIDE OF THE ROOFTOP AC UNIT.)
12. A/C UNIT DISCONNECT IS FURNISHED WITH A/C UNIT AND SHALL BE CONNECTED BY THE CONTRACTOR.
13. EXHAUST FAN IS FURNISHED WITH A PREWIRED DISCONNECT.
14. E.C. SHALL INSTALL CURRENT LIMITING FUSES. COORDINATE WITH MECHANICAL PLANS AND EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.

POWER PLAN GENERAL NOTES

1. ALL SECURITY, POS, MUSIC, COMMUNICATIONS, AND POWER ROUGH-IN SHALL BE INSTALLED DURING THE FRAMING/ROUGH-IN PHASE OF CONSTRUCTION.
2. REFER TO KITCHEN EQUIPMENT SHEETS FOR EQUIPMENT ELECTRICAL ROUGH-IN ELEVATIONS ABOVE FINISHED FLOOR.
3. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRING.
4. PROVIDE INSULATED BUSHING AT TERMINATION POINTS OF ALL CONDUITS FOR LOW VOLTAGE WIRING.
5. THE ELECTRICAL INSTALLER SHALL COORDINATE THE ROUTING OF ALL CONDUIT IN THE BUILDING WITH OTHER TRADES (SPECIFICALLY THE DUCTWORK INSTALLATION) TO AVOID CONFLICTS OF SPACE REQUIREMENTS IN WALLS AND CEILING SPACES.

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08/11/22

CHICK-FIL-A HUNT CLUB

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APOPKA, FL 32703

FSR#04571

BUILDING TYPE / SIZE: P13 SE LRG
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2	08/10/2022	Bulletin 2

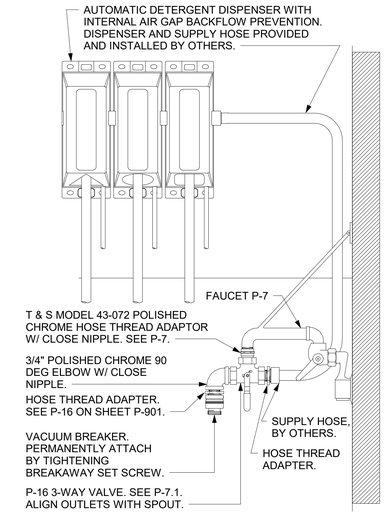
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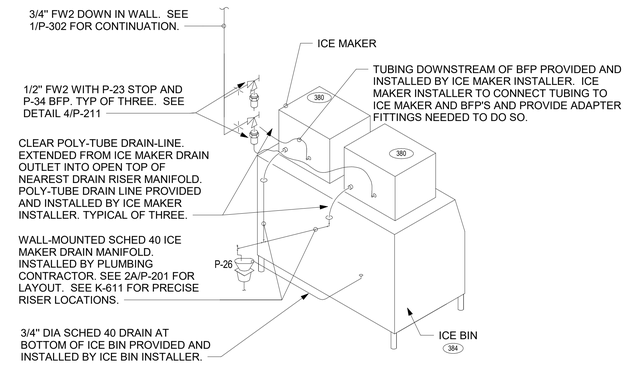
SHEET
ROOF POWER PLAN

SHEET NUMBER
E-250L

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50-SE-04571-E-250L-ROOF POWER PLAN

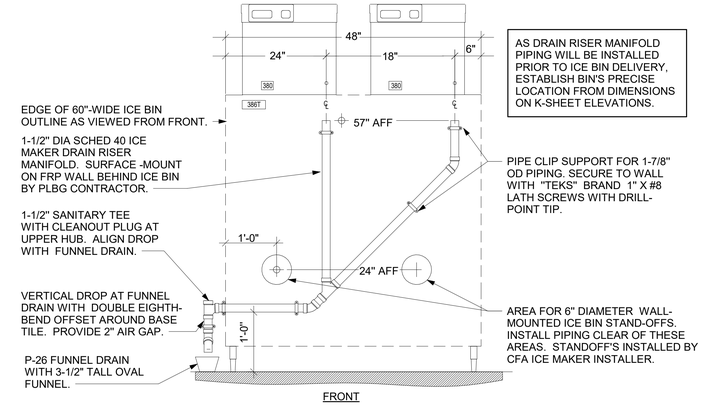


4 3-WAY VALVE AT MOP SINK
NOT TO SCALE

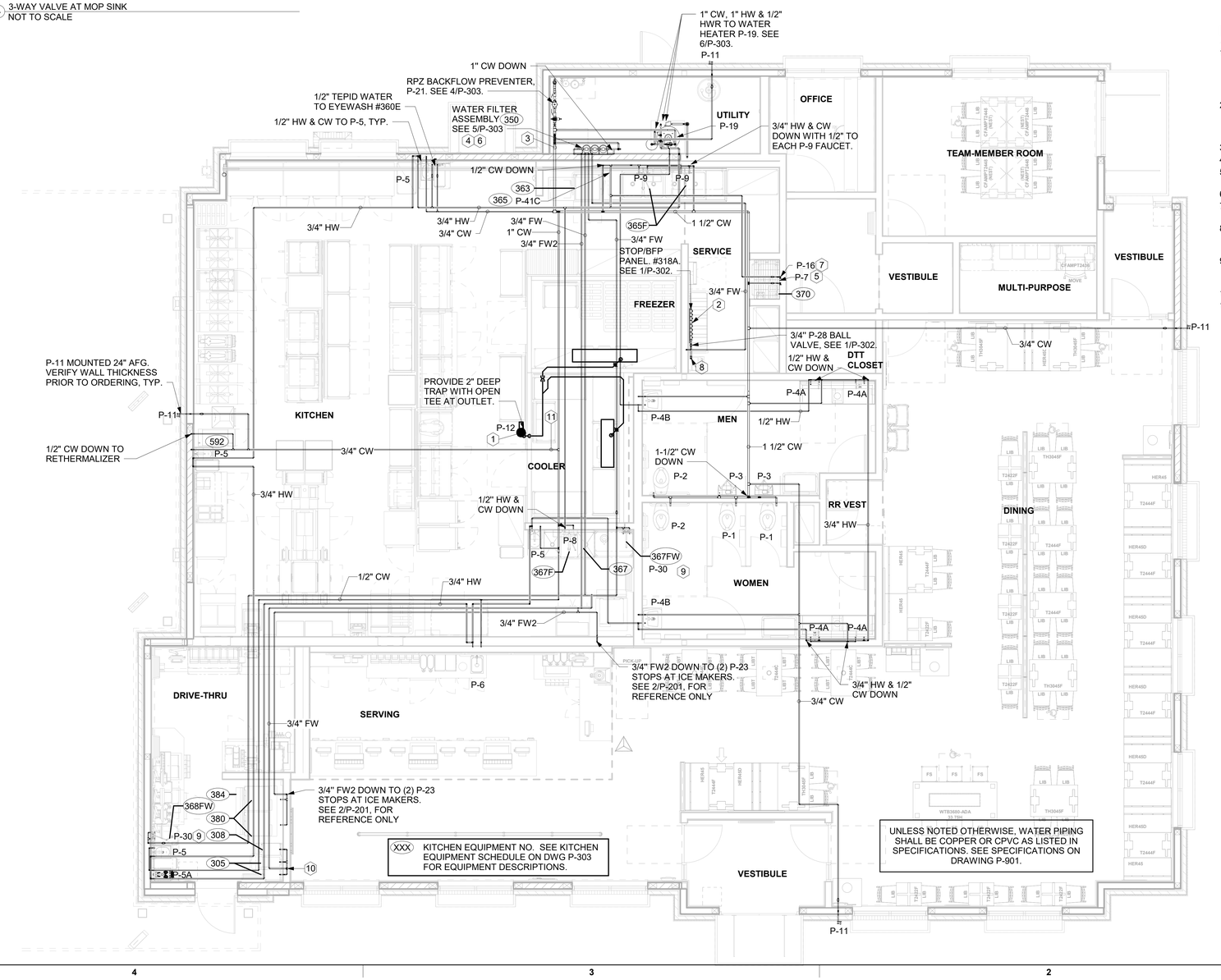


2 ICE MACHINE PIPING
NOT TO SCALE

DRAIN RISER LOCATIONS MEASURED FROM EDGE OF ICE BIN. VERIFY ICE BIN WIDTH AND PRECISE LOCATION FROM DIMENSIONS ON K-SHEET ELEVATIONS.



2A ICE MAKER DRAIN ON WALL
NOT TO SCALE



1 WATER PIPING PLAN PLUMBING
1/4" = 1'-0"

KEY NOTES

1. TURN 3/4" CONDENSATE PIPING OUT OF COOLER AND EXTEND OUTLET TO P-12 FUNNEL DRAIN, SECURE PIPING TO COOLER/FREEZER WALL WITH RUBBER INSULATED PIPE CLAMPS TO PREVENT GALVANIC CORROSION. SEAL ALL PENETRATIONS IN WALLS WITH PERMAGUM CORD. TERMINATE ABOVE FUNNEL WITH ELBOW AND AIR GAP. PROVIDE P-TRAP IN CONDENSATE DRAIN OUTSIDE COOLER WITH OPEN-TOPPED TEE AT TRAP OUTLET.
2. OWNER PROVIDED, PLUMBER INSTALLED STOP/BFP PANEL. SEE K-SHEET ELEVATIONS FOR EXACT LOCATION. PROVIDE EXPOSED 3/4" BALL VALVE AT CONNECTION TO PANEL. ROUTE 1" PVC DRAIN FROM FACTORY PANEL DRAIN CONNECTION TO P-26 FUNNEL DRAIN AT END OF BEVERAGE RACK AND TERMINATE WITH ELBOW AND AIR GAP.
3. 2" CW. SEE 4/P-303 FOR EXACT ROUTING LOCATIONS OF CW PIPING IN THIS AREA.
4. OWNER PROVIDED, PLUMBER INSTALLED WATER FILTERS. SEE DETAIL 5/P-303.
5. 1/2" HW AND CW DROPS TO MOP SINK FAUCET SET P-7. PROVIDE BALL VALVE FOR EACH ABOVE CEILING WITH P-22 BALL CHECK VALVE IN EACH DROP. SEE RISER DIAGRAM 1/P-302.
6. FW AND FW2 FROM WATER FILTERS. SEE DETAIL 5/P-303.
7. INSTALL P-16 3-WAY VALVE WITH BACKFLOW PREVENTER ON P-7 FAUCET SPOUT FOR CONNECTION TO ECOLAB DETERGENT DISPENSER. SEE DETAIL 4/P-201.
8. 1" DIAMETER PVC DRAIN FROM BACKFLOW PREVENTER PANEL. CONNECT 1" PVC TO FACTORY PROVIDED COUPLING MOUNTED ON BACK PANEL. ROUTE DRAIN TO P-26 FUNNEL DRAIN AT END OF BAG-N-BOX. MOUNT PIPING TIGHT TO WALL WITH STRUT AND CLAMP.
9. 3/4" FW DROP TO TWO-HANDLE FAUCET, P-30. MOUNT FAUCET ON WALL. SEE K-SHEETS FOR EXACT LOCATION. PIPE 1/2" FW TO EACH FAUCET INLET WITH 6" SPREAD. PROVIDE BALL VALVE ABOVE CEILING. SEE RISER DIAGRAM 1/P-302.
10. 1/2" FW TO P-24 & P-34 AT TWO TEA BREWERS. SEE 6/P-211 AND 1/P-302.
11. APPLY RAYCHEM XL-TRACE, MODEL 5XL-1, SELF REGULATING HEATING CABLE. USE END SEAL KIT FROM MFR. PROVIDE P-TRAP IN CONDENSATE DRAIN ON COOLER SIDE OF COOLER-FREEZER PANEL WALL WITH OPEN-TOPPED TEE AT TRAP OUTLET. PROVIDE 6" OF FALL IN FREEZER DRAIN LINE PRIOR TO PENETRATING PANEL WALL. EXTEND HEAT TRACE TO P-TRAP OUTLET IN COOLER.

3. SHEET NOTES

1. COORDINATE VENT TERMINAL LOCATIONS WITH FRESH AIR HOODS ON ROOFTOP EQUIPMENT SO AS TO MAINTAIN MINIMUM 15'-0" CLEARANCE.
2. HOLD ALL PIPING ABOVE THE CEILING TIGHT TO STRUCTURE. DUCT LOCATIONS TAKE PRIORITY. SEE DRAWING M-201 FOR DUCT LAYOUT. COORDINATE CONFLICTS WITH GC.
3. SEE K-SHEET ELEVATIONS FOR KITCHEN EQUIPMENT WATER PIPING ROUGH-IN LOCATIONS.
4. SEE SHEET P-211 FOR BEVERAGE CONDUIT PIPING.
5. SEE RISER DIAGRAM 1/P-301 FOR VENT PIPING. SEE ROOF PLAN 1/P-250 FOR VENT THRU ROOF (VTR) LOCATION.
6. VERIFY WALL TYPE AND WALL THICKNESS AT EXTERIOR HOSE BIBBS PRIOR TO ORDERING EQUIPMENT.
7. WATER HEATER PIPING IS SHOWN FOR STATE/A.O. SMITH MODELS WITH SIDE INLET/OUTLET CONNECTIONS. ADJUST PIPING AS NEEDED TO ACCOMODATE OTHER CONNECTION POINTS WHEN ALTERNATE MODELS ARE PROVIDED.
8. COORDINATE ABOVE-CEILING PIPING LOCATIONS AND ROUTING WITH HVAC CONTRACTOR AND M-SHEETS PRIOR TO INSTALLATION. ALL MAIN DUCT TRUNK LOCATIONS SHALL TAKE PRIORITY. PIPING MAY REQUIRE REMOVAL AND REINSTALLATION AT PLUMBING CONTRACTOR'S EXPENSE IF PIPING OBSTRUCTS THE M-SHEET DUCT LAYOUT AS SHOWN OR PREVENTS ACCESS TO GREASE DUCT CLEANOUT OPENINGS.

WALK-IN CONDENSATE PIPING NOTES:

INSTALL PIPING TIGHT TO WALL SO AS NOT TO INTERFERE WITH COOLER AND FREEZER SHELVES. PROVIDE UNION FITTINGS IMMEDIATELY DOWNSTREAM OF CONNECTION TO EVAPORATORS.

NOTE TO WATER HEATER INSTALLER:

POSITION VALVES AND TRIM IN WATER HEATER CLOSET SUCH THAT VISIBLE OBSERVATION OF VALVES AND TRIM IS UNOBSTRUCTED AND SUCH THAT ACCESS FOR OPERATION OR REPAIR IS POSSIBLE WITHOUT USE OF STEP LADDERS OR ANY NEED TO DISASSEMBLE ANY COMPONENTS.

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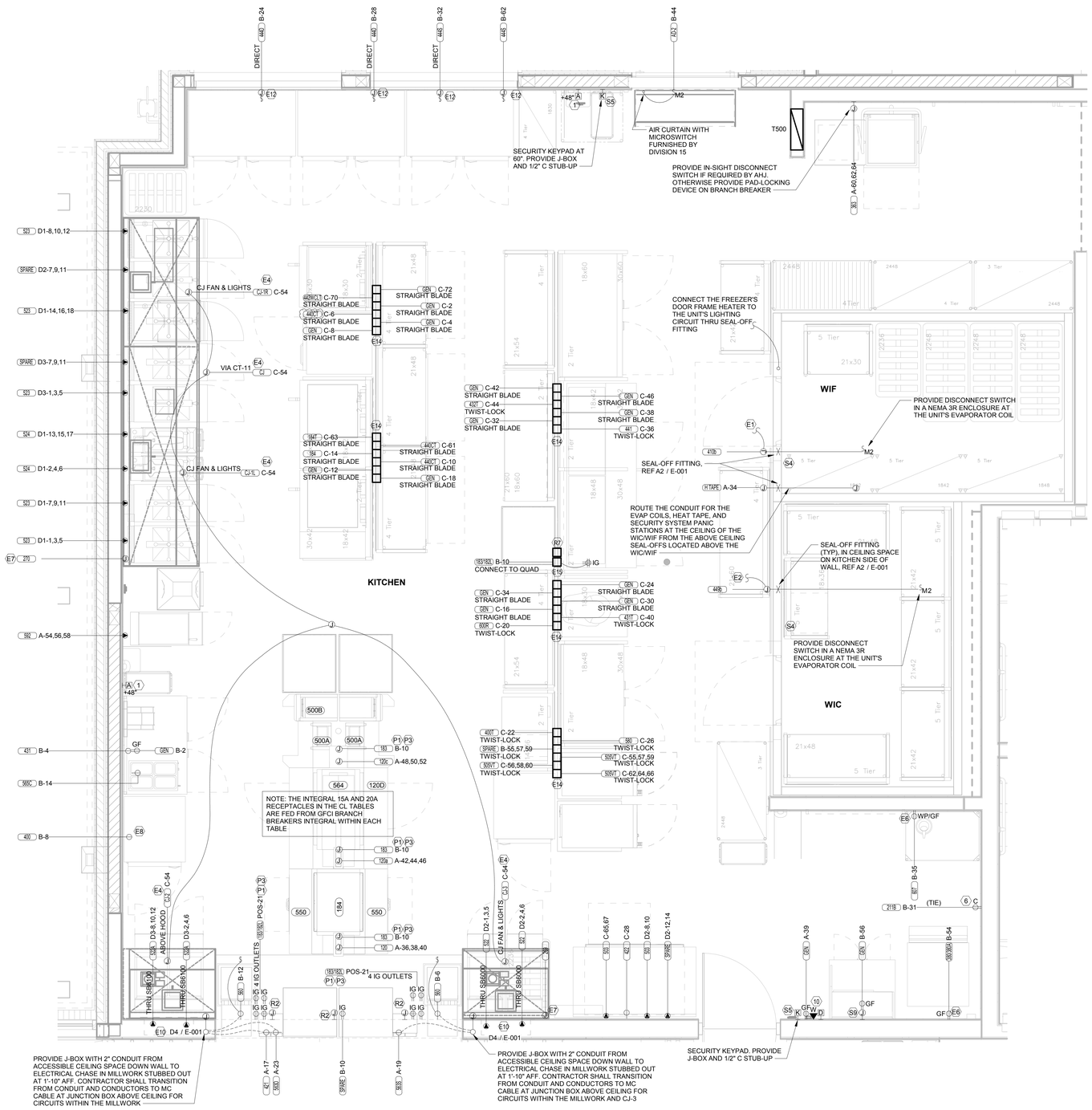
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SHEET
WATER PIPING PLAN

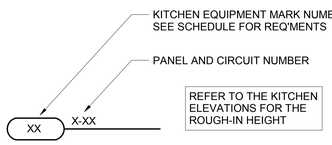
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P-201

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40-SE-0457-1-P-201-WATER PIPING PLAN



A1 ENLARGED KITCHEN POWER PLAN

1/2" = 1'-0"



A4 KITCHEN EQUIPMENT NOMENCLATURE

NO SCALE

NOTE FOR GF TYPE RECEPTACLES IN KITCHEN/FOOD PREP AREAS:
THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL 150V TO GROUND OR LESS, 50A OR LESS, AND 3-PHASE RECEPTACLES 100A OR LESS IN THE KITCHEN/FOOD PREPARATION AREAS. GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE RECEPTACLE VIA A GROUND FAULT TYPE RECEPTACLE UNLESS OTHERWISE NOTED ON THE PLANS. SEE FLOOR PLANS FOR ADDITIONAL INFORMATION.

GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE BRANCH BREAKER VIA A GROUND FAULT TYPE BREAKER FOR ALL 50 AMP AND LESS RECEPTACLE CIRCUITS UNLESS ALREADY NOTED TO BE PROVIDED WITH AN ACCESSIBLE GFCI TYPE RECEPTACLE. (NOTE THAT SQUARE-D DOES NOT HAVE ANY GFCI TYPE BRANCH BREAKERS ABOVE 50 AMP AVAILABLE AT THIS TIME HOWEVER, GFI REQUIREMENTS ARE REQUIRED).

NOTE FOR POS GF IN KITCHEN:
THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL 120 VOLT, 15 AND 20 AMP ISOLATED GROUND RECEPTACLE OUTLET BRANCH CIRCUITS IN THE KITCHEN/FOOD PREPARATION AREAS. GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE BREAKER VIA A GROUND FAULT TYPE BRANCH BREAKER. (GFCI TYPE ISOLATED GRD RECEPTACLES ARE NOT AVAILABLE.)

NOTE:
RECEPTACLES FOR THE POS EQUIPMENT SHALL BE THE ONLY ITEMS THAT CONNECT TO PANEL-POS. THERE SHALL BE NO OTHER LOADS CONNECTED TO THIS ISOLATED GROUND PANEL AND, IF SO, SHALL BE REMOVED AND RECONNECTED TO ANOTHER PANELBOARD AT THE EXPENSE OF THE CONTRACTOR.

POWER PLAN KEYNOTES

1. PROVIDE TWO-GANG DEEP BOX (2" MIN.) FOR ANSUL PULL STATION. EXTEND 1/2" CONDUIT FROM BOX, STUBBED ABOVE CEILING.
6. PROVIDE DUPLEX RECEPTACLE (SEE ELEVATIONS FOR MTG HT) IN AN ARLINGTON #DVFR2W DOUBLE-GANG RECESSED BOX FOR THE FLY SYSTEM ITEMS. DO NOT CUT THE CORDSET FURNISHED WITH THE UNIT, BUT COIL THE CORD ON THE BACK OF THE UNIT AND TUCK INTO THE BACKBOX.
10. PROVIDE 2 GANG DEEP BOX (2" MIN.) FOR EACH DUCT SMOKE DETECTOR INDICATED ON THE MECHANICAL DRAWINGS FOR INSTALLATION OF DUCT DETECTOR REMOTE ANNUNCIATORS BY MECHANICAL. THE DUCT SMOKE REMOTE ANNUNCIATORS ARE PROVIDED TO THE ELECTRICIAN WITH THE SUNCOAST ELECTRONICS PACKAGE OF GEAR AND CONTROLS. EXTEND 1/2" CONDUIT FROM EACH BOX AND STUB ABOVE CEILING.

SECURITY KEYNOTES

- S4 PROVIDE TWO GANG WEATHERPROOF JUNCTION BOX AND STAINLESS STEEL PLATE WITH 7/8" HOLE IN CENTER FOR PANIC BUTTON. LOCATE AT 48" AFF AND EXTEND 1/2" CONDUIT UP TO ABOVE ACCESSIBLE CEILING WITH CONDUIT SEAL FITTING. SEAL CONDUIT PENETRATION AT WIC/WIF CEILING.
- S5 PROVIDE SINGLE GANG BOX WITHOUT COVER PLATE. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.
- S9 PROVIDE SINGLE GANG JUNCTION BOX WITHOUT COVERPLATE. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.

POS DATA KEYNOTES

- R2 PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" CONDUIT EXTENDING UP INTO THE CEILING SPACE FOR POS MONITOR(S). COVER PLATE PROVIDED BY OWNER'S POS SYSTEM VENDOR.
- R7 PROVIDE A SINGLE GANG BOX FLUSH MOUNTED IN THE CEILING FOR THE POS DATA PLATE (BY OTHERS) FOR THE SALAD PREP AREA POS MONITOR AND PRINTER.

POS POWER KEYNOTES

- P1 PROVIDE ORANGE ISOLATED GROUND (IG) DUPLEX RECEPTACLE.
- P3 USE TYPE MC CABLE FOR THE ISOLATED GROUND CIRCUIT: #12 HOT, NEUTRAL, GREEN GROUND, STRIPED ISOLATED GROUND. EACH 15 AMP HOMERUN SHALL BE DEDICATED TO A CIRCUIT BREAKER VIA DEDICATED CONDUCTORS WITHIN A CABLE ASSEMBLY. ALL MC CABLES SHALL BE RUN OVERHEAD ABOVE THE CEILING AND RACKED TOGETHER ON J-HOOKS. NO SPLICES IN ANY HOMERUN CABLES FROM FIRST RECEPTACLE TO BREAKER.

ENLARGED POWER PLAN KEYNOTES

- E1 CONNECT EVAPORATOR UNIT IN FREEZER TO FREEZER CONDENSING UNIT CONTROLS LOCATED ON ROOF. SEE THE ROOF ELECTRICAL PLAN.
- E2 CONNECT EVAPORATOR UNIT IN COOLER TO COOLER CONDENSING UNIT CONTROLS LOCATED ON ROOF. SEE THE ROOF ELECTRICAL PLAN.
- E4 CONNECT AS REQUIRED TO HOOD. CONNECT HOMERUN VIA A RELAY IN THE CFA-T500 CONTROL SECTION.
- E6 SEE THE ROOF ELECTRICAL PLAN FOR THE LOCATION OF THE ICE MAKER CONDENSERS AND ANY ADDITIONAL REQUIREMENTS.
- E7 PROVIDE 3#12 IN 1/2" CONDUIT BETWEEN THE CFA-T500 CONTROL PANEL AND THE ANSUL SYSTEM PANEL(S). SEE ANSUL SYSTEM WIRING DIAGRAM DETAIL ON SHEET E-002 FOR ADDITIONAL INFORMATION.
- E8 PROVIDE GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE RECEPTACLE IN COMPLIANCE WITH THE NEC REQUIREMENT FOR KITCHEN/FOOD PREP AREAS. IF THE RECEPTACLE OUTLET IS NOT NOTED AS GFCI, THEN THE BREAKER IS TO BE GFCI TYPE.
- E10 THE RECESSED PIN AND SLEEVE BOX WITH THE 'SLEEVE' RECEPTACLE FOR THE OPEN FRYERS (ITEMS #522 AND 522A) ARE FURNISHED BY THE EXHAUST HOOD SUPPLIER AND INSTALLED BY THE CONTRACTOR. THE OPEN FRYER SUPPLIER PROVIDES PREWIRED CORDSET WITH A PIN DEVICE INTERGRAL WITH THE OPEN FRYER TO PLUG INTO THE SLEEVE RECEPTACLE.
- E12 SINGLE POLE SWITCH SHALL SERVE AS THE LOCAL "IN-SIGHT" MEANS OF DISCONNECT FOR EQUIPMENT ITEM AS NOTED. SEE DIRECT CONNECTION DETAILS ON SHEET E-002 FOR FURTHER INFORMATION.
- E14 OVERHEAD EQUIPMENT POWER (OEP) DROP CORD RECEPTACLES FROM A FLUSH MOUNTED CEILING OEP BOX (MAXIMUM OF SIX PER ASSEMBLY.) PROVIDE A-C-S OEP ASSEMBLY #12360-1000. ASSEMBLY WILL CONSIST OF A FLUSH CEILING OUTLET BOX, TWIST-LOCK PENDANT RECEPTACLES, STRAIGHT BLADE PENDANT RECEPTACLES, CORDS, STRAIN RELIEF, AND TWISTLOCK PLUGS AS NOTED ON PLAN. CONTACT BRIDGID DEFRAMCESHI EMAIL: BRIDGID1985@GMAIL.COM (800-639-7584) TO PURCHASE OEP BOX AND DROP CORD/RECEPTACLES. PROVIDE LIQUID-TIGHT CONDUIT WITH CONDUCTORS FOR DIRECT CONNECTED EQUIPMENT. CONDUIT SHALL NOT TOUCH THE FLOOR WHEN EQUIPMENT IS IN PLACE. USE SUPPORT GRIPS W/ SUPPORT HOOK ATTACHED TO SHELVING ABOVE AS NEEDED. PASS & SEYMOUR MODEL #FS075-U-GH5 OR EQUIVALENT.
- E15 PROVIDE A DOUBLE-GANG BOX FLUSH MOUNTED IN THE CEILING WITH A BLANK PLATE WITH HOLE FOR A DROP CORD. PROVIDE THE #12 DROP CORD (WITH STRAIN RELIEF AT THE BOX AND AT THE OUTLET BACKBOX) AND CONNECT THE CORD TO AN OUTLET BOX CONTAINING TWO 15 AMP IG (ORANGE) RECEPTACLE OUTLETS. OUTLET BOX TO BE MOUNTED TO THE OVERHEAD SHELVING AT THE PRINTER AND MONITOR MOUNTING BRACKET.

POWER PLAN GENERAL NOTES

1. ALL SECURITY, POS, MUSIC, COMMUNICATIONS, AND POWER ROUGH-IN SHALL BE INSTALLED DURING THE FRAMING/ROUGH-IN PHASE OF CONSTRUCTION.
2. REFER TO KITCHEN EQUIPMENT SHEETS FOR EQUIPMENT ELECTRICAL ROUGH-IN ELEVATIONS ABOVE FINISHED FLOOR.
3. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRING.
4. PROVIDE INSULATED BUSHING AT TERMINATION POINTS OF ALL CONDUITS FOR LOW VOLTAGE WIRING.
5. THE ELECTRICAL INSTALLER SHALL COORDINATE THE ROUTING OF ALL CONDUIT IN THE BUILDING WITH OTHER TRADES (SPECIFICALLY THE DUCTWORK INSTALLATION) TO AVOID CONFLICTS OF SPACE REQUIREMENTS IN WALLS AND CEILING SPACES.

Chick-fil-A
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520 S. MAIN STREET, SUITE 2531
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CHICK-FIL-A HUNT CLUB

2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571

BUILDING TYPE / SIZE: P13 SE ALL
RELEASE: v2_21.08
PRINTED FOR
ISSUED FOR CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	06/07/2022	Bulletin 1

CONSULTANT PROJECT # 2021223.29
DATE 06/10/22
DRAWN BY JPW

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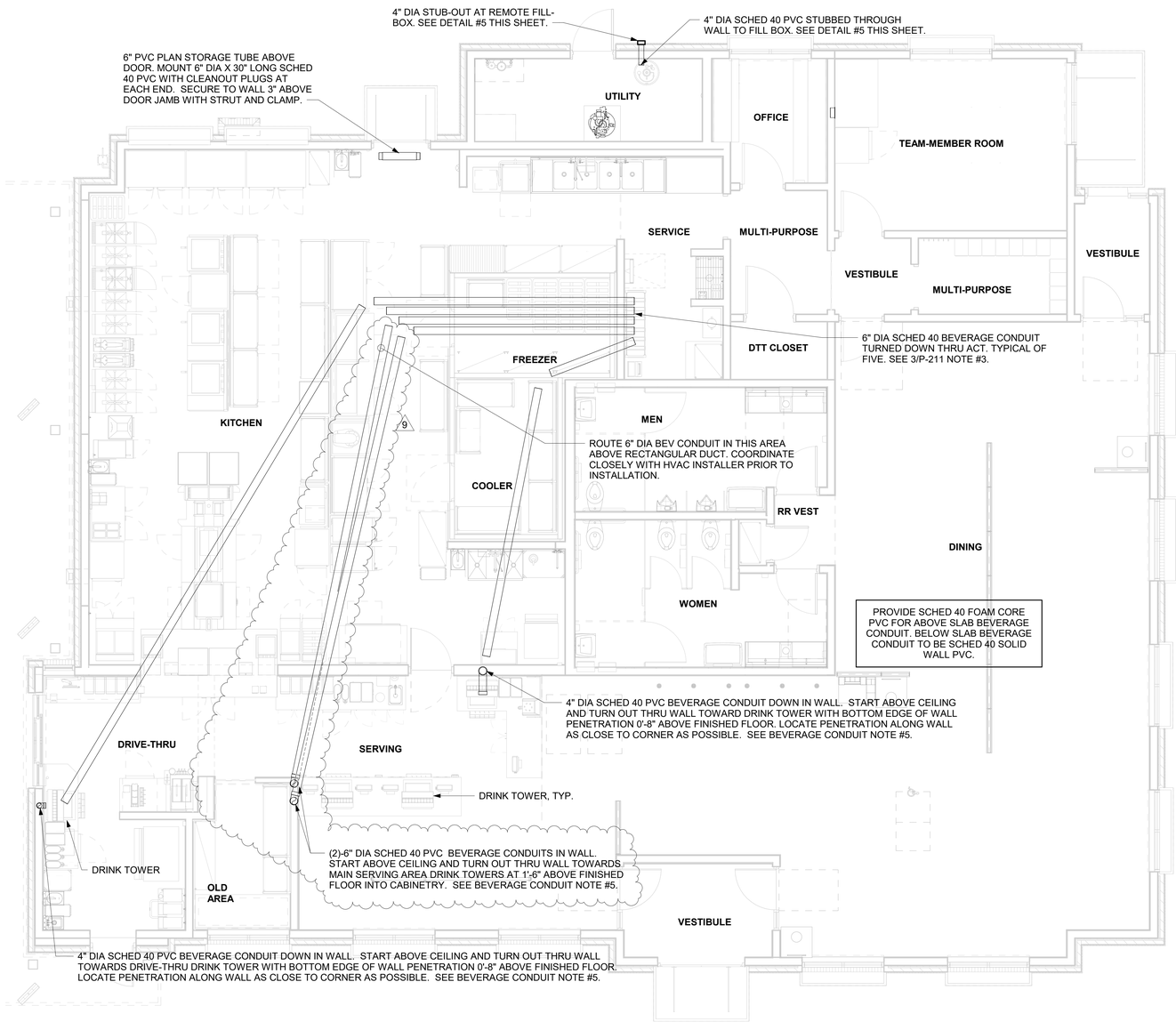
SHEET
ENLARGED KITCHEN POWER PLAN

SHEET NUMBER
E-301

7/18/2022 4:12:25 PM BIM 360://FL_04571_Hunt Club_2021.11_FSR/04571_Hunt Club_ELE.rvt
50-SE-04571-E-301-ENLARGED KITCHEN POWER PLAN

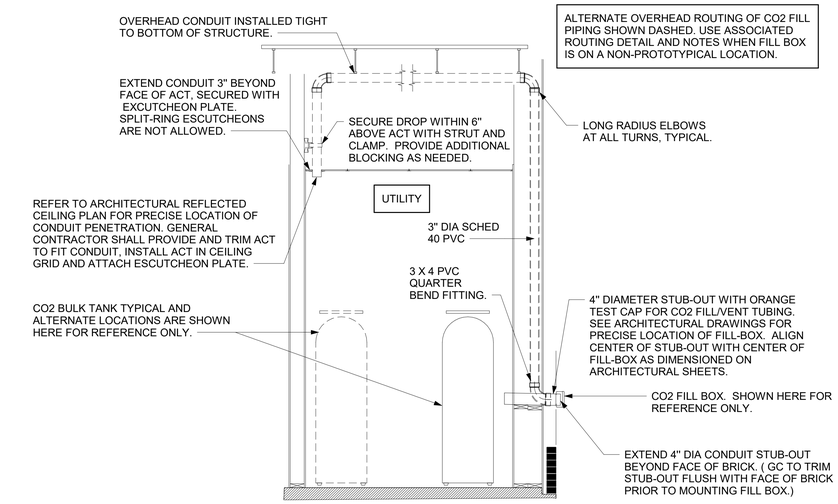
2. BEVERAGE CONDUIT NOTES

1. ROUTE BEVERAGE SYSTEM PIPING OVERHEAD FROM THE BEVERAGE RACK TO DRINK TOWERS IN FOUR (4)-6" DIA SCH 40 PVC DWV CONDUITS. ALL CONDUIT SHALL BE HELD TIGHT TO STRUCTURE AND SUPPORTED WITH THREADED ROD AND CLEVIS HANGERS AT INTERVALS SHOWN IN SPECIFICATIONS FOR HORIZONTAL OVERHEAD PIPING. COORDINATE ROUTING WITH THE GENERAL CONTRACTOR TO AVOID MECHANICAL AND ELECTRICAL SYSTEMS. SEE 1/P-101 AND 1/P-221 FOR BELOW-SLAB BEVERAGE CONDUIT.
2. COORDINATE ROUTING OF ALL CONDUITS WITH HVAC DUCT IN KITCHEN. SEE SHEET M-201 FOR LOCATION OF AC UNITS AND DUCT ROUTING.
3. TURN THE 6" DIA CONDUIT DOWN THROUGH THE CEILING AT THE BEVERAGE RACK AND PROVIDE CHROMED ESCUTCHEONS AT CEILING PENETRATIONS. TERMINATE OPPOSITE END ABOVE CEILING WHERE SHOWN ON PLANS.
4. AT 6" DIA CONDUIT DROP IN DRIVE-THRU, PROVIDE 1/8TH BEND FITTING WITH SHORT PIPE STUB AT BASE OF DROP. CUT STUB AND FITTING FLUSH WITH FINISHED WALL.
5. FOR BEVERAGE CONDUIT DROPS AT WALLS WITH SHEATHING EXTENDED ABOVE THE CEILING, PROVIDE APPROPRIATE FITTING AT UPPER END OF CONDUIT DROP TO EXTEND CONDUIT THROUGH SHEATHING.
6. INSTALL CONTINUOUS CONDUIT FROM CO2 FILL-BOX LOCATION TO BULK CO2 TANK AS SHOWN ON PLANS AND DETAILS. COORDINATE 4" CONDUIT WALL STUB INSTALLATION CLOSELY WITH GENERAL CONTRACTOR AND BRICK MASON. PRIOR TO COVERING UP OF CONDUIT, VERIFY WITH GENERAL CONTRACTOR THE FULL LENGTH OF FILL/VENT TUBING MAY BE INSTALLED AND SUBSEQUENTLY REMOVED FROM CONDUIT. SEE PLAN AND DETAIL #5 THIS SHEET.

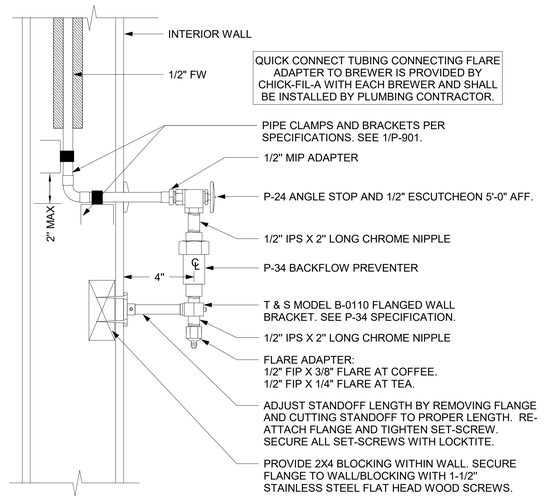


1 BEVERAGE CONDUIT PIPING PLAN
1/4" = 1'-0"

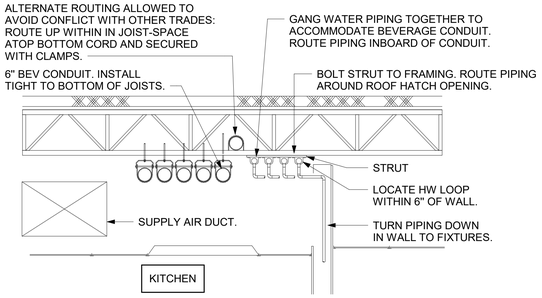
CO2 FILL BOX, FILL TUBING, AND VENT LINE SET PROVIDED BY CHICK-FIL-A AND INSTALLED BY GC. GC TO COORDINATE REQUIRED LENGTH OF TUBING AND LINE SET FROM FILL BOX TO TANK LOCATION WITH TMS; LENGTH NOT TO EXCEED 100 FT. FINAL CONNECTION BY CO2 VENDOR.



5 CO2 FILL/VENT CONDUIT AND FILL-BOX INSTALLATION
NOT TO SCALE



4 COFFEE & TEA BREWER STOP & BFP
1/4" = 1'-0"



3 SECTION AT WET WALL
NOT TO SCALE

5/24/2023 4:14:19 PM BIM 360://FL_04571_Hunt Club_2021.11_FSR\04571_Hunt Club_PLB.rvt
40-SE-04571-P-211-BEVERAGE CONDUIT PLAN

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BRANDON M. MARZLEY
LICENSE No. 77967
BRANDON M. MARZLEY LICENSE No 77967 STATE OF FLORIDA PROFESSIONAL ENGINEER
05/25/23

CHICK-FIL-A HUNT CLUB

2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571

BUILDING TYPE / SIZE: P13 SE ALL
RELEASE: v2.21.05
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REVISION SCHEDULE

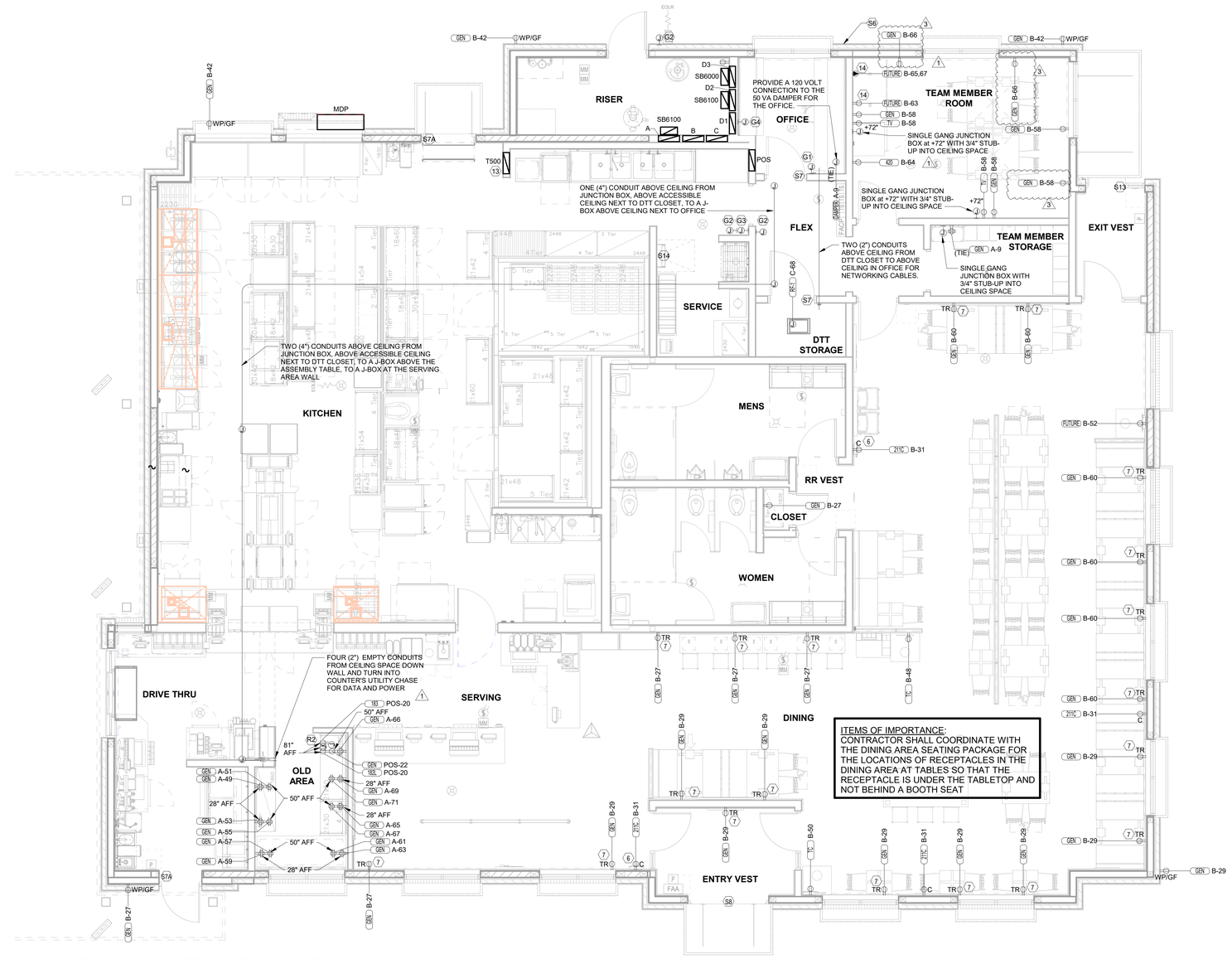
NO.	DATE	DESCRIPTION
1	06/15/22	Bulletin 1
9	05/24/23	BULLETIN #9

CONSULTANT PROJECT #	2021223.29
DATE	12/08/21
DRAWN BY	MJA

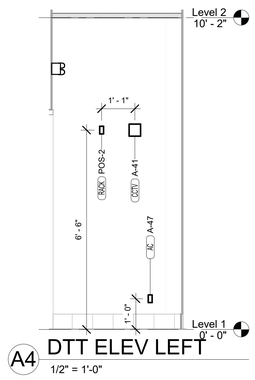
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SHEET
BEVERAGE CONDUIT PLAN

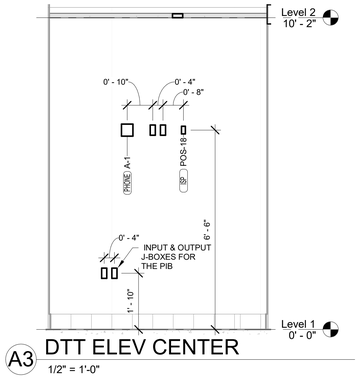
SHEET NUMBER
P-211



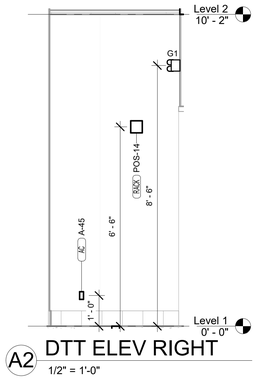
B1 POWER AND SYSTEMS PLAN - LRG
1/4" = 1'-0"



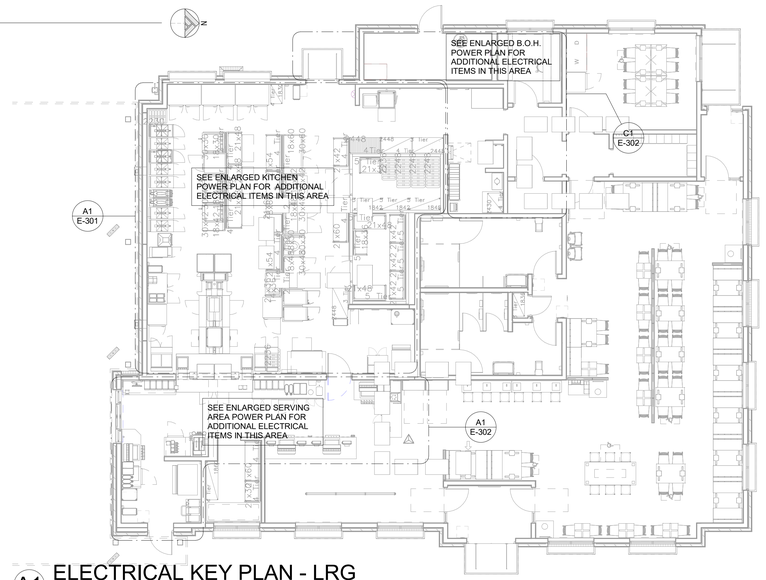
A4 DTT ELEV LEFT
1/2" = 1'-0"



A3 DTT ELEV CENTER
1/2" = 1'-0"



A2 DTT ELEV RIGHT
1/2" = 1'-0"



A1 ELECTRICAL KEY PLAN - LRG
1/8" = 1'-0"

POWER PLAN KEYNOTES

- 6 PROVIDE DUPLEX RECEPTACLE (SEE ELEVATIONS FOR MTG HT) IN AN ARLINGTON #DFR2W DOUBLE-GANG RECESSED BOX FOR THE FLYLIGHT SYSTEM ITEMS. DO NOT CUT THE CORDSET FURNISHED WITH THE UNIT, BUT COIL THE CORD ON THE BACK OF THE UNIT AND TUCK INTO THE BACKBOX.
- 7 TAMPER RESISTANT (TR) DUPLEX RECEPTACLE (IN DINING AREAS) WITH USB CHARGER SHALL BE COOPER/ARROW HART #TR7756-B (BROWN) WITH MATCHING COLOR 'DECOR' STYLE PLATE. VERIFY COLOR WITH OWNER.
- 13 THE STORE OPEN-CLOSE UNIT SWITCH IS FURNISHED WITH THE CFA-T500 CONTROL PANEL AND FACTORY INSTALLED IN THE DOOR OF THE CFA-T500 CABINET.
- 14 E.C. SHALL COORDINATE ALL INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER (PLUG-TYPE, WIRE SIZING, MOUNTING HEIGHTS, ETC) PRIOR TO ROUGH-IN.

SECURITY KEYNOTES

- S6 PROVIDE A 1/2" CONDUIT THRU THE EXTERIOR WALL AND STUBBED INTO THE ACCESSIBLE CEILING SPACE FOR THE EXTERIOR WALL MOUNTED AUDIO-VISUAL ALARM NOTIFICATION DEVICE. VERIFY LOCATION WITH THE EXTERIOR ELEVATIONS AND WITH THE SECURITY INSTALLER - TYPICALLY TO BE LOCATED NEAR THE FIRE PROTECTION SYSTEM'S EXTERIOR ALARM UNIT AND VISIBLE FROM THE STREET.
- S7 EXTEND 1/2" RIGID CONDUIT FROM TOP OF STRIKE-SIDE DOOR FRAME CHANNEL TO ABOVE ACCESSIBLE CEILING.
- S7A EXTEND 3/4" RIGID CONDUIT FROM TOP OF STRIKE-SIDE DOOR FRAME CHANNEL TO ABOVE ACCESSIBLE CEILING.
- S8 EXTEND 1/2" CONDUIT FROM A POINT 3" WITHIN EITHER HINGE-SIDE DOOR VERTICAL FRAME MULLION TO ABOVE ACCESSIBLE CEILING.
- S13 EXTEND 1/2" CONDUIT FROM A POINT 3" INSIDE THE STRIKE-SIDE DOOR FRAME MULLION TO ABOVE ACCESSIBLE CEILING.
- S14 PROVIDE JUNCTION BOX ON THE LATCH SIDE OF THE ROOF ACCESS HATCH WITH 1/2" CONDUIT ABOVE THE CEILING TO AN ACCESSIBLE CEILING SPACE FOR A DOOR CONTACT.

CO2 DETECTOR NOTES

- G1 CO2 CENTRAL CONTROL UNIT - PROVIDE SINGLE-GANG BACKBOX AT 60" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE
- G2 CO2 ANNUNCIATOR UNIT - PROVIDE SINGLE-GANG BACKBOX AT 60" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE
- G3 CO2 SENSOR UNIT - PROVIDE SINGLE-GANG BACKBOX AT 12" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE
- G4 CO2 POWER SUPPLY - PROVIDE SINGLE-GANG BACKBOX AT 18" BELOW CEILING WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE. PROVIDE DUPLEX OUTLET, AND CONNECT TO A LOCAL GENERAL OUTLET CIRCUIT. FIELD VERIFY EXACT LOCATION WITH STRONG SYSTEMS 800-500-5566

POWER PLAN GENERAL NOTES

1. ALL SECURITY, POS, MUSIC, COMMUNICATIONS, AND POWER ROUGH-IN SHALL BE INSTALLED DURING THE FRAMING/ROUGH-IN PHASE OF CONSTRUCTION.
2. REFER TO KITCHEN EQUIPMENT SHEETS FOR EQUIPMENT ELECTRICAL ROUGH-IN ELEVATIONS ABOVE FINISHED FLOOR.
3. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRING.
4. PROVIDE INSULATED BUSHING AT TERMINATION POINTS OF ALL CONDUITS FOR LOW VOLTAGE WIRING.
5. THE ELECTRICAL INSTALLER SHALL COORDINATE THE ROUTING OF ALL CONDUIT IN THE BUILDING WITH OTHER TRADES (SPECIFICALLY THE DUCTWORK INSTALLATION) TO AVOID CONFLICTS OF SPACE REQUIREMENTS IN WALLS AND CEILING SPACES.

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STEVEN P. SCHAUB
LICENSE No. 75207
STATE OF FLORIDA
PROFESSIONAL ENGINEER
09/09/22

CHICK-FIL-A HUNT CLUB

2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571

BUILDING TYPE / SIZE: P13 SE LRG
RELEASE: v2_21.08
PRINTED FOR
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	06/07/2022	Bulletin 1
3	08/31/22	Revision 3

CONSULTANT PROJECT # 2021223.29
DATE 06/10/22
DRAWN BY JPW

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SHEET
POWER AND SYSTEMS PLAN

SHEET NUMBER
E-221L

9/9/2022 7:33:26 AM BIM 360://FL_04571_Hunt Club_2021 11_FSR04571_Hunt Club_ELE.rvt
50-SE-04571-E-221L-POWER AND SYSTEMS PLAN

STATISTICS

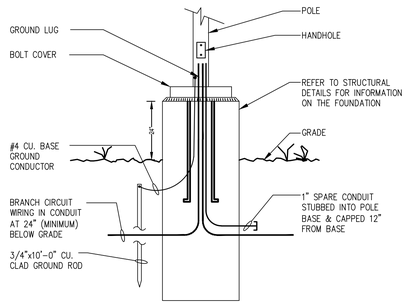
DESCRIPTION	SYMBOL	AVG	MAX	MIN	MAX/MIN	AVG/MIN
CFA HARDSCAPE	+	3.4 fc	16.7 fc	0.2 fc	83.5:1	17.0:1
PEDESTRIAN WALKWAYS	+	3.0 fc	8.0 fc	0.8 fc	10.0:1	3.8:1
PROPERTY LINE	+	1.5 fc	5.4 fc	0.2 fc	27.0:1	7.5:1

PHOTOMETRIC NOTES

1. ALL FIXTURES UTILIZED IN THIS SITE PHOTOMETRIC ARE FULL CUTOFF.
2. MOUNT AREA LUMINAIRE TYPE 'OD3' AT 25' AFG (INCLUDING POLE BASE) UNLESS OTHERWISE NOTED.
3. COLOR TEMPERATURES OF FIXTURES SHALL BE 40K.

LIGHTING FIXTURE SCHEDULE

SYMBOL	LABEL	QTY	CATALOG NUMBER	MANUFACTURER	DESCRIPTION	LAMP	WATTS	VOLTS	MOUNTING
○	OA	14	P5675-31 WITH P8799 TOP COVER LENS	PROGRESS LIGHTING	5" DIAMETER, 14" HEIGHT, WET LOCATION, UP/DOWN CYLINDER W/ 12 WATT PAR30 3K NFL LED LAMPS	(2)GE-LED12P30RW83025	24	120	WALL
□□	OD3	3	LUMINAIRE: PRV-C40-D-UNV-T3-BK-MS/DIM-L40W (TYPE 3 DISTRIBUTION) POLE: SSP25-4.0-7-BLK-DM2180-BC (TWO LUMINAIRES AT 180 DEGRESS) ANCHOR BOLT SET: ABSSS-5	COOPER/LUMARK KW INDUSTRIES	TWIN AREA LIGHT FIXTURE WITH TYPE 3 MEDIUM DISTRIBUTION. FIXTURES, BRACKETS, AND POLES TO HAVE BLACK FINISH. DRILL MOUNT THE ARMS/BRACKETS TO THE POLES. PROVIDE SINGLE POLE FUSE HOLDER AND 3A FUSES IN HAND HOLE OF POLE.	INTEGRAL LED	262	120	POLE - 25'
▭	OK	2	LNC-5LU-3K-3-1	HUBBELL	LED WALLPACK W/ CENTERLINE OF FIXTURE AT 8'-0" ABV 0'-0" (FINISH FLOOR LINE)	INTEGRAL LED	13	120	WALL
○	OP	12	C-CP-A-SQ-79L-50K-WH	C-LITE	CEILING LIGHT FIXTURE PROVIDED BY THE CANOPY SUPPLIER AND INSTALLED BY THE ELECTRICAL CONTRACTOR.	INTEGRAL LED	88	120	CANOPY - 9.5'



A2 TYPICAL POLE BASE DETAIL
N.T.S.

A4 SITE PHOTOMETRIC PLAN
SCALE: 3/4" = 1'-0"

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RICHFIELD, OH 44286

STEVEN P. SCHAUB
LICENSE No. 75207
STEVEN P. SCHAUB LICENSE No 75207 STATE OF FLORIDA PROFESSIONAL ENGINEER
05/23/22

CHICK-FIL-A
HUNT CLUB

2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571

BUILDING TYPE / SIZE: P13 SE LRG
RELEASE: v2_21.08
PRINTED FOR
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NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #	2021223.29
DATE	04/01/22
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SHEET
ELECTRICAL PHOTOMETRIC PLAN

SHEET NUMBER
E-102

5/23/2022 9:02 AM O:\2021\2021223\29 04571 HUNT CLUB, FL (BLDG)\4_WORKING FILES\03_ENGINEERING\01_ELECT\CFA HUNT CLUB PHOTOMETRIC.DWG
10-SE-04571-A-001-FLORIDA PRODUCT APPROVALS

Branch Panel: A

LOCATION:
SUPPLY FROM: MDP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A	B	C	POLE	TRIP	LOAD DESCRIPTION	CKT	NT
H	1	TELEPHONE DT VIDEO (190)	20 A	1	0.240 1.020			1	20 A	DOUBLE LEMONADE BUBBLER (310)	2	I
	3	OFFICE GEN OUTLETS & PRINTER	20 A	1		0.720 1.650		1	20 A	TEA BREWER (305)	4	I
	5	OFFICE GEN OUTLETS & MUSIC (669)	20 A	1			0.720 1.650	1	20 A	TEA BREWER (305)	6	I
H	7	GENERAL OUTLET	20 A	1	0.180 1.200			1	20 A	DRINK TOWER (315W)	8	I
	9	GENERAL OUTLETS (CO2)	20 A	1		0.530 1.611		1	20 A	PANEL-POS THRU PIB	10	M
I	11	DRINK TOWER (315W)	20 A	1			1.200				12	I
H	13	U.C. REFRIG (420L)	20 A	1	0.564 1.200			1	20 A	DRINK TOWER (315W)	14	I
I	15	U.C. REFRIG (420L)	20 A	1		0.564 0.240		1	20 A	SECURITY SYSTEM	16	L
H	17	U.C. REFRIG (421)	20 A	1			0.756 1.244	3	15 A	COOLER CONDESER / EVAP COIL (449)	18	LO
I	19	SINGLE SANDWHICH SLIDE (563S)	20 A	1	0.548 1.244			--	--	--	20	
I	21	U.C. REFRIG (420)	20 A	1		0.564 1.140		--	--	--	22	
I	23	DOUBLE SANDWHICH SLIDE (563D)	20 A	1			1.090 1.200	1	20 A	DRINK TOWER (315W)	24	I
	25	CARBONATOR (320)	20 A	1	0.744 1.752			3	35 A	FREEZER CONDESER / EVAP COIL (410)	26	LO
	27	CARBONATOR (320)	20 A	1		0.744 1.908		--	--	--	28	
	29	CARBONATOR (320)	20 A	1			0.744 1.908	--	--	--	30	
	31	CARBONATOR (320)	20 A	1	0.744 0.180			1	20 A	GEN OUTLET DTT CLOSET	32	
	33	CARBONATOR (320)	20 A	1		0.744 0.500		1	20 A	FREEZER HEAT TAPE (410)	34	F
	35	BOOSTER PUMP	20 A	2			1.144 4.992	3	60 A	FRANKE TOASTER TABLE (120)	36	
	37	--	--	--	1.144 4.056			--	--	--	38	
H	39	GENERAL OUTLETS	20 A	1		0.180 4.056		--	--	--	40	
	41	CCTV RACK DTT CLOSET	20 A	1			0.360 1.844	3	60 A	FRANKE TOASTER TABLE (120a)	42	
1	43	GEN OUTLET DTT CLOSET	20 A	1	0.180 4.544			--	--	--	44	
	45	FUTURE/RACK AC DTT CLOSET	20 A	1		1.272 3.060		--	--	--	46	
	47	FUTURE/RACK AC DTT CLOSET	20 A	1			1.272 4.296	3	60 A	FRANKE TOASTER TABLE (120c)	48	
I	49	DELIVERY BAG (DEDICATED)	20 A	1	0.360 4.992			--	--	--	50	
I	51	DELIVERY BAG (DEDICATED)	20 A	1		0.360 4.296		--	--	--	52	
I	53	DELIVERY BAG (DEDICATED)	20 A	1			0.360 2.667	3	30 A	RETHERMALIZER (592)	54	I
I	55	DELIVERY BAG (DEDICATED)	20 A	1	0.360 2.667			--	--	--	56	
I	57	DELIVERY BAG (DEDICATED)	20 A	1		0.360 2.667		--	--	--	58	
I	59	DELIVERY BAG (DEDICATED)	20 A	1			0.360 5.880	3	60 A	DISHWASHER (363)	60	LOSB
I	61	DELIVERY BAG (DEDICATED)	20 A	1	0.360 5.880			--	--	--	62	
I	63	DELIVERY BAG (DEDICATED)	20 A	1		0.360 5.880		--	--	--	64	
I	65	DELIVERY BAG (DEDICATED)	20 A	1			0.360 0.360	1	20 A	DELIVERY BAG (DEDICATED)	66	I
I	67	DELIVERY BAG (DEDICATED)	20 A	1	0.360 0.000			--	--	SPACE	68	
I	69	DELIVERY BAG (DEDICATED)	20 A	1		0.360 0.000		--	--	SPACE	70	
I	71	DELIVERY BAG (DEDICATED)	20 A	1			0.360 0.000	--	--	SPACE	72	
			Total Load:		34.52 kVA	33.77 kVA	35.13 kVA					
			Total Amps:		288.6 A	281.4 A	293.7 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC COOL	2544 VA	100.00%	2544 VA		
KITCHEN EQUIPMENT	76254 VA	65.00%	49565 VA	**Total Conn. Load:**	103.4 kVA
KITCHEN REFRIG EQUIPMENT	11644 VA	65.00%	7569 VA	**Total Est. Demand:**	73.2 kVA
MISCELLANEOUS	1890 VA	100.00%	1890 VA	**Total Conn.:**	287.0 A
Motor	2338 VA	124.47%	2910 VA	**Total Est. Demand:**	203.2 A
RECEPTACLES	8741 VA	100.00%	8741 VA		

Branch Panel: B

LOCATION:
SUPPLY FROM: MDP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A	B	C	POLE	TRIP	LOAD DESCRIPTION	CKT	NT
	1	GENERAL OUTLETS	20 A	1	0.360 0.180			1	20 A	GENERAL OUTLET	2	
	3	GENERAL OUTLET	20 A	1		0.180 0.756		1	20 A	DOUBLE WORKTOP REFRIG (431)	4	
	5	GENERAL OUTLET	20 A	1			0.360 1.840	1	20 A	FRY HOLDING STATION (560)	6	
	7	MILKSHAKE DISPENSER (300a)	20 A	1	0.120 1.128			1	20 A	SINGLE REACH-IN FREEZER (400)	8	
	9	ROOF MTD ICE MAKER (380C)	25 A	3		1.704 0.195		1	15 A	CL TABLE MONITORS (183/182L)	10	I, IG
	11	--	--	--			1.704 1.840	1	20 A	FRY HOLDING STATION (560)	12	
	13	--	--	--	1.704 1.500			1	20 A	FOOD COOKER/WARMER (565C)	14	
	15	INTERIOR ICE MAKER (380B)	15 A	1		0.600 0.500		1	20 A	D.T. DOOR	16	
	17	DOUBLE LEMONADE BUBBLER (310)	20 A	1			0.943 1.704	3	15 A	ROOF MTD ICE MAKER (380C)	18	
	19	ICECREAM MACHINE (300X)	30 A	3	2.280 1.704			--	--	--	20	
	21	--	--	--		2.280 1.704		--	--	--	22	
	23	--	--	--			2.280 1.920	1	20 A	DOUBLE THAWING CABINET (444D)	24	
	25	ROOF RECEPTACLES	20 A	1	0.540 0.610			1	15 A	INTERIOR ICE MAKER (380,380A)	26	
	27	DINING AREA OUTLETS	20 A	1		1.080 1.920		1	20 A	DOUBLE THAWING CABINET (444D)	28	
	29	DINING AREA OUTLETS	20 A	1			1.800 0.000	1	20 A	FACP (WHEN REQ'D)	30	
	31	FLYLIGHT SYSTEM (211B,C)	20 A	1	0.360 1.920			1	20 A	SINGLE THAWING CABINET (444S)	32	
	33	DOUBLE LEMONADE BUBBLER (310)	20 A	1		0.943 0.180		1	20 A	REFUSE ENCLOSURE	34	
	35	LEMON JUICER STAND (607)	20 A	1			0.180 0.360	1	20 A	T500/ SHUNT TRIP (269,270)	36	
	37	ICE CREAM MACHINE (300X)	20 A	3	1.800 1.000			2	30 A	COFFEE MAKER (308)	38	
	39	--	--	--		1.800 1.000		--	--	--	40	
	41	--	--	--			1.800 0.560	1	20 A	GENERAL OUTLETS/DOORBELL	42	
	43	HEATED AIR DOOR (AD-1)	45 A	3	4.068 0.960			1	20 A	UNHEATED AIR DOOR (AD-2)	44	
	45	--	--	--		4.068 2.185		1	20 A	OPTIONAL COMPRESSOR	46	
	47	--	--	--			4.068 1.800	1	20 A	TRASH COMPACTOR (TC)	48	
	49	ROOF MTD ICE MAKER (380C)	25 A	3	1.704 1.800			1	20 A	TRASH COMPACTOR (TC)	50	
	51	--	--	--		1.704 1.800		1	20 A	FUTURE TRASH COMPACTOR (TC)	52	
	53	--	--	--			1.704 0.610	1	15 A	INTERIOR ICE MAKER (380,380A)	54	
	55	FUTURE VECTOR OVEN (505VT)	30 A	3	0.878 0.180			1	20 A	MANAGERS STATION (GEN)	56	
	57	--	--	--		0.878 1.080		1	20 A	DINING AREA OUTLETS	58	
	59	--	--	--			0.878 1.080	1	20 A	DINING AREA OUTLETS	60	
1	61	SPARE	20 A	1	0.564 1.920			1	20 A	FUTURE SINGLE THAWING...	62	
I	63	WASHER (FUTURE)	15 A	1		1.800 0.564		1	20 A	UNDERCOUNTER REFRIGERATOR (420)	64	
I	65	DRYER (FUTURE)	30 A	2			2.496 0.360	1	20 A	TEAM MEMBER ROOM OUTLETS	66	
	67	--	--	--	2.496 0.000			1	20 A	SPARE	68	
	69	SPACE	--	--		0.000 0.000		--	--	SPACE	70	
	71	SPACE	--	--			0.000 0.000	--	--	SPACE	72	
			Total Load:		29.78 kVA	28.92 kVA	30.29 kVA					
			Total Amps:		249.2 A	241.0 A	253.5 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HEAT	12204 VA	100.00%	12204 VA		
KITCHEN EQUIPMENT	25367 VA	65.00%	16489 VA	**Total Conn. Load:**	88.6 kVA
KITCHEN REFRIG EQUIPMENT	26155 VA	65.00%	17001 VA	**Total Est. Demand:**	68.6 kVA
LIGHTING	312 VA	125.00%	390 VA	**Total Conn.:**	246.0 A
MISCELLANEOUS	218 VA	100.00%	218 VA	**Total Est. Demand:**	190.3 A
Motor	9045 VA	106.04%	9591 VA		
RECEPTACLES	15321 VA	82.63%	12661 VA		

Branch Panel: POS

LOCATION:
SUPPLY FROM: A
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/120 Single
PHASES: 1
WIRES: 3
2+G+IG
PROVIDE JUMPER FOR PHASE A & B

A.I.C. SERIES RATING: 10 K
MAINS TYPE: MLO
MAINS RATING: 100 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A	B	POLE	TRIP	LOAD DESCRIPTION	CKT	NT
H,IG	1	COUNTER STATIONS (180,182)	15 A	1	0.318 0.260		1	15 A	CCTV RACK DTT CLOSET	2	IG
	3	SPACE	--	--		0.000 0.000	--	--	SPACE	4	
H,IG	5	COUNTER POS STATIONS (180,182)	15 A	1	0.052 0.070		1	15 A	OFFICE RECEPTACLE (COMP)	6	IG
	7	SPACE	--	--		0.000 0.000	--	--	SPACE	8	
H,IG	9	DT POS STATION (180,182)	15 A	1	0.210 0.000		--	--	SPACE	10	
	11	SPACE	--	--		0.000 0.000	--	--	SPACE	12	
H,IG	13	MLOP POS STATIONS (180,182)	15 A	1	0.111 0.040		1	15 A	NETWORK RACK DTT CLOSET	14	IG
	15	SPACE	--	--		0.000 0.000	--	--	SPACE	16	
H,IG	17	MLOP MONITORS (183)	15 A	1	0.120 0.050		1	15 A	ISP MODEM	18	IG
	19	SPACE	--	--		0.000 0.360	1	20 A	PASS THRU MONITORS (183,182L)	20	H,IG
H,IG	21	PASS THRU MONITORS (183/182L)	15 A	1	0.200 0.180		1	20 A	PC (DEDICATED)	22	IG
	23	SPACE	--	--		0.000 0.000	1	20 A	BACKFED MAIN BREAKER	24	LO
			Total Load:		1.61 kVA	0.36 kVA					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
MISCELLANEOUS	1030 VA	100.00%	1030 VA		
RECEPTACLES	941 VA	100.00%	941 VA		
				Total Conn. Load:	2.0 kVA
				Total Est. Demand:	2.0 kVA
				Total Conn.:	16.4 A
				Total Est. Demand:	16.4 A

Branch Panel: C

LOCATION:
SUPPLY FROM: MDP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A	B	C	POLE	TRIP	LOAD DESCRIPTION	CKT	NT
J	1	KITCHEN LTG	20 A	1	1.284 0.180			1	20 A	DROP CORD OUTLET	2	I
J	3	KITCHEN LTG	20 A	1		0.552 0.180		1	20 A	DROP CORD OUTLET	4	I
J	5	RESTROOM LTG & EF-3	20 A	1			0.780 0.120	1	20 A	ICE BREADING TABLE (440CT)	6	I
J	7	DINING AREA LTG	20 A	1	0.288 0.180			1	20 A	DROP CORD OUTLET	8	I
J	9	SERVE AREA LTG	20 A	1		0.136 0.120		1	20 A	ICE BATH BREADING TABLE (440CT)	10	I
J	11	DINING AREA LTG	20 A	1			0.816 0.180	1	20 A	DROP CORD OUTLET	12	I
H	13	MENU BOARD NETWORK	20 A	1	0.651 0.180			1	20 A	DROP CORD OUTLET (184)	14	I
J	15	WATER HEATER/PUMP/FILTER	20 A	1		1.440 0.212		1	20 A	DROP CORD OUTLET	16	I
H	17	MENU BOARDS (672)	20 A	1			0.651 0.180	1	20 A	DROP CORD OUTLET	18	I
B	19	DIRECTIONAL SIGNS	20 A	1	0.360 1.175			1	20 A	FLOOR MIXER (600R)	20	I
E	21	PARKING LOT LTG	20 A	1		0.326 1.128		1	20 A	SINGLE REACH-IN FREEZER (400T)	22	I
E	23	PARKING LOT LTG	20 A	1			0.652 0.180	1	20 A	DROP CORD OUTLET	24	I
	25	MENU BOARD RECEPTACLE	20 A	1	0.264 2.880			1	30 A	HOT HOLDING CABINET (580)	26	I
	27	MENU BOARD RECEPTACLE	20 A	1		0.264 0.804		1	20 A	REFRIG EQUIPMENT STAND (422T)	28	I
D	29	SECURITY/FLAGPOLE LTG	20 A	1			0.347 0.180	1	20 A	DROP CORD OUTLET	30	I
C	31	BLDG EXTERIOR LTG	20 A	1	0.312 0.212			1	20 A	DROP CORD OUTLET	32	I
S,J	33	MLOP &OMD CANOPY LTG	20 A	1		1.332 0.180		1	20 A	DROP CORD OUTLET	34	I
LO	35	FRZR/COOLER LTG (410/449)	20 A	1			1.000 1.080	1	20 A	SALAD PREP TABLE (441)	36	I
B	37	MAIN ID SIGN	20 A	1	0.980 0.180			1	20 A	DROP CORD OUTLET	38	I
B	39	MAIN ID SIGN	20 A	1		0.800 0.756		1	20 A	WORKTOP REFRIGERATOR (431T)	40	I
B	41	MAIN ID SIGN	20 A	1			0.800 0.180	1	20 A	DROP CORD OUTLET	42	I
B	43	BUILDING SIGNAGE	20 A	1	0.500 0.480			1	20 A	WORKTOP REFRIGERATOR (432T)	44	I
B	45	BUILDING SIGNAGE	20 A	1		0.500 0.180		1	20 A	DROP CORD OUTLET	46	I
B	47	BUILDING SIGNAGE	20 A	1			0.800 1.587	1	25 A	HOOD EXHAUST FAN (EF-1)	48	A
B	49	BUILDING SIGNAGE	20 A	1	0.800 1.587			1	25 A	HOOD EXHAUST FAN (EF-2)	50	A
S,LO	51	DRIVE THRU ORDERING	20 A	1		0.780 1.584		1	20 A	MLOP CANOPY FANS	52	I,J,S
S,I,J	53	OMD CANOPY FANS	20 A	1			0.792 0.563	1	20 A	HOOD CJ FANS AND LIGHTS	54	A
I	55	VECTOR OVEN (505VT)	30 A	3	0.878 0.878			3	30 A	VECTOR OVEN (505VT)	56	I
	57	--	--	--		0.878 0.878		--	--	--	58	
	59	--	--	--			0.878 0.878	--	--	--	60	
I	61	ICE BATH BREADING TABLE (440CT)	20 A	1	0.120 0.878			3	30 A	VECTOR OVEN (505VT)	62	I
I	63	DROP CORD OUTLET (184T)	20 A	1		0.180 0.878		--	--	--	64	
I	65	EGG STATION (503)	20 A	2			1.300 0.878	--	--	--	66	
	67	--	--	--	1.300 0.528			1	20 A	RF-1	68	
	69	SPARE	20 A	1		0.000 0.840		1	20 A	SINGLE REFRIG (442WCLT)	70	I
	71	SPARE	20 A	1			0.000 0.180	1	20 A	DROP CORD OUTLET	72	I
			Total Load:		17.03 kVA	14.91 kVA	15.00 kVA					
			Total Amps:		142.0 A	124.3 A	125.1 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
KITCHEN EQUIPMENT	14555 VA	65.00%	9461 VA		
KITCHEN REFRIG EQUIPMENT	5448 VA	65.00%	3541 VA	**Total Conn. Load:**	46.9 kVA
LIGHTING	14357 VA	125.00%	17946 VA	**Total Est. Demand:**	43.9 kVA
MISCELLANEOUS	1378 VA	100.00%	1378 VA	**Total Conn.:**	130.3 A
Motor	7967 VA	104.98%	8364 VA	**Total Est. Demand:**	121.9 A
RECEPTACLES	3240 VA	100.00%	3240 VA		

Branch Panel: D1

LOCATION:
SUPPLY FROM: MDP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A	B	C	POLE	TRIP	LOAD DESCRIPTION	CKT	NT
I	1	PRESSURE FRYER (523)	50 A	3	4.560 2.892			3	50 A	CHARGRILL COOKER (524)	2	I
	3	--	--	--		4.560 3.840		--	--	--	4	
	5	--	--	--			4.560 2.772	--	--	--	6	
I	7	PRESSURE FRYER (523)	50 A	3	4.560 2.892			3	50 A	CHARGRILL COOKER (524)	8	I
	9	--	--	--		4.560 3.840		--	--	--	10	
	11	--	--	--			4.560 2.772	--	--	--	12	
I	13	PRESSURE FRYER (523)	50 A	3	4.560 4.560			3	50 A	PRESSURE FRYER (523)	14	I
	15	--	--	--		4.560 4.560		--	--	--	16	
	17	--	--	--			4.560 4.560	--	--	--	18	
	19	SPACE	--	--	0.000 0.000			--	--	SPACE	20	
	21	SPACE	--	--		0.000 0.000		--	--	SPACE	22	
	23	SPACE	--	--			0.000 0.000	--	--	SPACE	24	
	25	SPACE	--	--	0.000 0.000			--	--	SPACE	26	
	27	SPACE	--	--		0.000 0.000		--	--	SPACE	28	
	29	SPACE	--	--			0.000 0.000	--	--	SPACE	30	
			Total Load:		24.02 kVA	25.92 kVA	23.78 kVA					
			Total Amps:		200.5 A	216.3 A	198.2 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
KITCHEN EQUIPMENT	73728 VA	65.00%	47923 VA		
				Total Conn. Load:	73.7 kVA
				Total Est. Demand:	47.9 kVA
				Total Conn.:	204.6 A
				Total Est. Demand:	133.0 A

Branch Panel: D2

LOCATION:
SUPPLY FROM: MDP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A	B	C	POLE	TRIP	LOAD DESCRIPTION	CKT	NT
SB	1	OPEN FRYER (522)	80 A	3	7.320 7.320			3	80 A	OPEN FRYER (522)	2	SB
	3	--	--	--		7.320 7.320		--	--	--	4	
	5	--	--	--			7.320 7.320	--	--	--	6	
I	7	SPARE/FUTURE FRYER (523)	50 A	3	4.560 1.300			2	20 A	EGG STATION (503)	8	I
	9	--	--	--		4.560 1.300		--	--	--	10	
	11	--	--	--			4.560 1.300	2	20 A	FUTURE EGG STATION (503T)	12	I
	13	SPACE	--	--	0.000 1.300			--	--	--	14	
	15	SPACE	--	--		0.000 0.000		--	--	SPACE	16	
	17	SPACE	--	--			0.000 0.000	--	--	SPACE	18	
	19	SPACE	--	--	0.000 0.000			--	--	SPACE	20	
	21	SPACE	--	--		0.000 0.000		--	--	SPACE	22	
	23	SPACE	--	--			0.000 0.000	--	--	SPACE	24	
	25	SPACE	--	--	0.000 0.000			--	--	SPACE	26	
	27	SPACE	--	--		0.000 0.000		--	--	SPACE	28	
	29	SPACE	--	--			0.000 0.000	--	--	SPACE	30	
			Total Load:		21.80 kVA	20.50 kVA	20.50 kVA					
			Total Amps:		181.7 A	170.8 A	170.8 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
KITCHEN EQUIPMENT	62800 VA	65.00%	40820 VA		
				Total Conn. Load:	62.8 kVA
				Total Est. Demand:	40.8 kVA
				Total Conn.:	174.3 A
				Total Est. Demand:	113.3 A

Branch Panel: D3

LOCATION:
SUPPLY FROM: MDP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A	B	C	POLE	TRIP	LOAD DESCRIPTION	CKT	NT
I	1	PRESSURE FRYER (523)	50 A	3	4.560 7.320			3	80 A	OPEN FRYER (522A)	2	SB
	3	--	--	--		4.560 7.320		--	--	--	4	
	5	--	--	--			4.560 7.320	--	--	--	6	
I	7	SPARE/FUTURE FRYER (523)	50 A	3	4.560 7.320			3	80 A	OPEN FRYER (522A)	8	SB
	9	--	--	--		4.560 7.320		--	--	--	10	
	11	--	--	--			4.560 7.320	--	--	--	12	
	13	SPACE	--	--	0.000 0.000			--	--	SPACE	14	
	15	SPACE	--	--		0.000 0.000		--	--	SPACE	16	
	17	SPACE	--	--			0.000 0.000	--	--	SPACE	18	
	19	SPACE	--	--	0.000 0.000			--	--	SPACE	20	
	21	SPACE	--	--		0.000 0.000		--	--	SPACE	22	
	23	SPACE	--	--			0.000 0.000	--	--	SPACE	24	
	25	SPACE	--	--	0.000 0.000			--	--	SPACE	26	
	27	SPACE	--	--		0.000 0.000		--	--	SPACE	28	
	29	SPACE	--	--			0.000 0.000	--	--	SPACE	30	
			Total Load:		23.76 kVA	23.76 kVA	23.76 kVA					
			Total Amps:		198.0 A	198.0 A	198.0 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
KITCHEN EQUIPMENT	71280 VA	65.00%	46332 VA		
				Total Conn. Load:	71.3 kVA
				Total Est. Demand:	46.3 kVA
				Total Conn.:	197.9 A
				Total Est. Demand:	128.6 A

Distribution Panel: MDP

LOCATION:
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA 3R

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K
MAINS TYPE: MCB
MAINS RATING: 1200 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A	B	C	POLE	TRIP	LOAD DESCRIPTION	CKT	NT
	1	PANEL-A (SUB-FEEDS PANEL POS)	250 A	3	34.52 29.78			3	250 A	PANEL-B	2	
	3	--	--	--		33.77 28.92		--	--	--	4	
	5	--	--	--			35.13 30.29	--	--	--	6	
	7	PANEL-C	250 A	3	17.03 14.05			3	150 A	ROOFTOP UNIT 25 TON (AC-1)	8	
	9	--	--	--		14.91 14.05		--	--	--	10	
	11	--	--	--			15.00 14.05	--	--	--	12	
ST	13	PANEL-D1	250 A	3	24.02 21.80			3	250 A	PANEL-D2	14	ST
2	15	--	--	--		25.92 20.50		--	--	--	16	2
	17	--	--	--			23.78 20.50	--	--	--	18	
	19	ROOFTOP UNIT 17.5 TON (AC-2)	110 A	3	10.33 13.81			3	150 A	ROOFTOP UNIT 20 TON (AC-3)	20	
	21	--	--	--		10.33 13.81		--	--	--	22	
	23	--	--	--			10.33 13.81	--	--	--	24	
	25	TVSS	30 A	3	0.00 23.76			3	250 A	PANEL-D3	26	ST
	27	--	--	--		0.00 23.76		--	--	--	28	2
	29	--	--	--			0.00 23.76	--	--	--	30	
			Total Load:		189.1 kVA	186.0 kVA	186.6 kVA					
			Total Amps:		1576.6 A	1549.7 A	1556.3 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HEAT	12204 VA	100.00%	12204 VA		
HVAC	114566 VA	100.00%	114566 VA	**Total Conn. Load:**	561345 VA
HVAC COOL	2544 VA	100.00%	2544 VA	**Total Est. Demand:**	SEE LOAD SUMMARY
KITCHEN EQUIPMENT	323984 VA	65.00%	210590 VA	**Total Conn.:**	1558 A
KITCHEN REFRIG EQUIPMENT	43247 VA	65.00%	28111 VA	**Total Est. Demand:**	SEE LOAD SUMMARY
LIGHTING	14669 VA	125.00%	18336 VA		
MISCELLANEOUS	3486 VA	100.00%	3486 VA		
Motor	19350 VA	102.96%	19922 VA		
RECEPTACLES	27302 VA	68.31%	18651 VA

SECTION C16100
ELECTRICAL GENERAL PROVISIONS

PART 1- GENERAL

1.01 WORK INCLUDED
A. Provide all materials, labor and equipment required to furnish and install a complete electrical system as indicated on drawings and as specified herein.

1.02 REGULATORY REQUIREMENTS
A. Equipment furnished shall be UL listed where such label is available. Installation shall conform to UL standards where applicable.

B. Electrical work shall be installed in accordance with drawings and specifications, NEC and NFPA codes in effect at project location, state and local electrical and building codes and special codes having jurisdiction over specific portions within complete installation.

C. Obtain permits and certificates of approval from all authorities having jurisdiction over the installation and pay all fees required.

1.03 SUBMITTALS
A. Submit list of materials and equipment prior to manufacture, order or installation and within twenty days after award of contract for approval. Include each item of material and equipment whether or not shop drawings are also required. List shall include name of manufacturer, catalog number and other complete identification as well as dimensions and detailed data. Submittals shall be included for the following:
1. Lighting Fixtures
2. Panelboards/Breakers
3. Wiring Devices and Device Plates
4. Enclosed Switches

B. Certified shop drawings and submittals shall bear stamp of approval of contractor as evidence that drawings have been checked. Drawings submitted without this stamp of approval will not be considered and will be returned for proper resubmission.

C. If submittals show variances or substitutions from requirements of contract, contractor shall make specific mention of such variation in his letter of transmittal in order that, if acceptable, suitable action may be taken for proper adjustment. Otherwise contractor shall not be relieved of responsibility for executing work in accordance with contract even though such submittals have been approved.

1.04 SITE VISIT
A. Visit job site prior to bid date to determine actual conditions under which work shall be done, to familiarize oneself with project and to verify total scope of work required. Failure to do so shall not constitute a reason for an extra charge.

SECTION C16101
BASIC MATERIALS AND METHODS

PART 1 - GENERAL

1.01 COORDINATION
A. Obtain and review shop drawings, product data, and manufacturer's instructions for equipment furnished under other sections to determine connection locations and requirements.

B. Sequence rough-in of electrical connections to coordinate with installation and start-up of equipment furnished under other sections.

PART 2 - PRODUCTS

2.01 SUBSTITUTIONS
A. Where specifications list one or more manufacturers and do not include "or approved equal", furnish materials made by one of manufacturers listed. Where "or approved equal" is included, contractor may substitute equal products by another manufacturer subject to approval by engineer and owner.

PART 3 - EXECUTION

3.01 INSTALLATION
A. Make electrical connections to utilization equipment in accordance with equipment manufacturer's instructions.

B. Drawings are diagramatic and shall not be scaled for exact sizes or locations, they are not intended to disclose absolute or unconditional knowledge of actual field conditions.

C. Protect work and materials from damage by weather, entrance of water and dirt. Cap conduit during installation. Avoid damage to materials and equipment in place.

D. Satisfactorily repair or remove and replace damaged work with new materials, Deliver equipment and materials to job site in original, unopened, labeled containers. Store ferrous materials to prevent rusting. Store finished materials and equipment to prevent staining and discoloring.

E. Trenches shall be excavated 6" below elevation of bottom of conduit.

F. Failure to route conduit through building without interfering with other equipment and construction shall not constitute a reason for an extra charge. Equipment, conduit and fixtures shall fit into available spaces in building and shall not be introduced into building at such times and manner as to cause damage to structure. Equipment requiring service shall be readily accessible.

3.02 TESTING AND EQUIPMENT SERVICING
A. Make test to ensure that entire system is in proper operating condition, and that adjustments and apparatus setting of circuit breakers, fuses, control equipment and apparatus have been made. Correct defects discovered during tests.

3.03 REMOVAL OF DEBRIS
A. Remove surplus materials and debris caused by, or incidental to, electrical work. Remove such debris at frequent intervals. Keep job clean during construction.

3.04 IDENTIFICATION OF EQUIPMENT
A. Identify electrical distribution equipment, disconnects, and contactors with black laminated plastic name-plates, attached with two screws, engraved with 1/4" high, white letters.

3.05 TEMPORARY LIGHTING AND POWER IN AREAS OF CONSTRUCTION
A. Provide, maintain and remove after construction is completed, temporary lighting adequate for workman safety and temporary power for all trades including any 3 phase power required.

B. Provide and maintain barricade lighting where required to adequately protect owner against liability for damage to public or personnel. All lamps used in barricade shall be 60 watt red, installed in weatherproof socket with wire guard. All wiring shall be approved for weatherproof installation.

3.06 GUARANTEE-WARRANTY
A. Guarantee work to be free from defects of materials and workmanship for a period of one year from date of final acceptance of building. Repair and replace defective work and other work damaged thereby which becomes defective during term of guarantee-warranty. Furnish owner with three written copies of guarantee-warranty.

SECTION C16120
RACEWAYS AND CONDUIT SYSTEMS

PART 1 - PRODUCTS

1.01 ACCEPTABLE MANUFACTURERS
A. Rigid IMC, and EMT conduit shall be hot-dipped, galvanized, or electro-galvanized steel by Allied, Republic, Triangle, Wheatland, or approved equal.

B. PVC conduit shall be Carlon, schedule 40, 90 degrees C. rated, unless otherwise noted.

C. MC cable shall be manufactured by AFC Cable Systems or approved equal. Type "AC-90" is not allowed. All MC Cables shall have a green equipment ground conductor and an additional isolated ground (green + yellow stripe) conductor for isolated ground circuits (POS system). Fittings used for connecting MC cable to boxes, cabinets, or other equipment shall be listed and identified for such use.

D. Associated couplings, connectors and fittings shall be steel as manufactured by Raco or equivalent. Catalog numbers used below are those of Raco.

E. Erickson Couplings, Series 1502, shall be used where neither length of conduit can be rotated.

F. Insulated bushings shall be series 1402.

G. EMT box connectors shall be compression or set-screw fittings.

H. Conduit, connectors, couplings and fittings shall be UL listed and labeled.

1.02 ELECTRICAL METALLIC TUBING (EMT)
A. Use Electrical Metallic Tubing (EMT) where drawings call for conduit to be:
1. Concealed in walls.
2. Installed above suspended ceilings.
3. Installed exposed, above 6 feet.
4. Installed for panelboard feeders above slab.

1.03 INTERMEDIATE METAL CONDUIT (IMC)
A. Use Intermediate Metal Conduit (IMC) where drawings call for conduit to be:
1. Installed for panelboard feeders ran below ground.
2. Installed in wet locations (interior and exterior).
3. Installed exposed below 6 feet.

1.04 POLYVINYL CHLORIDE (PVC) RACEWAY
A. Use PVC raceway for:
1. Underground service entrance conduits for telephone and power.
2. Exterior branch circuits installed underground.
3. Interior branch circuit conduits installed in or under concrete slab on ground floor.

1.05 RIGID STEEL CONDUIT (RSC)
A. Use Rigid Steel Conduit for:
1. Install underground for power Service Entrance elbows penetrating floor slab.
2. Exposed to physical damage.

1.06 FLEXIBLE METAL CONDUIT
A. Provide flexible metal conduit for termination at equipment subject to motion and vibration.

B. Length shall not exceed 6 feet in accessible ceiling areas.

C. Shall not be concealed in walls.

D. Where exposed to continuous or intermittent moisture, conduit shall be UL Type EF liquidtight or type as indicated.

E. For connection to ceiling mounted lighting fixtures from outlet boxes.

1.07 MC (METAL-CLAD) CABLE
A. MC Cable shall be UL listed per standard 1569, color coded copper conductors (type THHN), the sheathing shall be constructed of interlocking galvanized steel, and shall conform to the requirements of Article 330 of the National Electrical Code.

B. MC Cable with an isolated grounding conductor shall be used, concealed above ceiling and in walls, for the connection of the Point Of Sales (POS) system equipment from the isolated ground receptacles to the panelboard serving the POS loads when allowed by local codes and Article 330 of the National Electrical Code.

C. MC Cable may be used when allowed by local codes and Article 330 of the National Electrical Code for branch circuits (except the main homerun to the panelboard which shall be conduit with conductors) for the following:
1. Lighting
2. Dining area receptacles
3. Fly Lights
4. Building mounted signage
5. Office area receptacles

D. MC Cable shall not be used for branch circuits serving Kitchen Equipment Items and similar circuits in the Kitchen, the Drive- Thru area, and the Serving area's back counter.

PART 2 - EXECUTION

2.01 INSTALLATION
A. Minimum size of conduits shall be 1/2 inch.

B. Run concealed conduits in direct line with long sweep bends or offsets. Run exposed conduits parallel to and at right angles to building lines. Group multiple conduit runs in banks.

C. Cap ends of conduits to prevent entrance of water and other foreign material during construction.

D. Provide No. 12 AWG copper pull wires or nylon cord in all empty conduits. Steel wire not acceptable as pull wire.

E. Where IMC enters a cabinet, junction box, or pull box conductors shall be protected by an insulated bushing. Locknuts shall be installed on conduit outside and inside enclosure.

F. In areas where enclosed and gasketed fixtures and weatherproof devices are specified, where Rigid Conduit enters a sheet metal enclosure, junction box and outlet box, and not terminated in a threaded hub, a steel, or malleable iron nylon insulated hub, complete with recessed sealing "O"ring or sealing locknut shall be used.

G. Provide seal-off fitting in all conduits entering a cold temperature area such as freezers and dry refrigerators.

H. In concrete slabs, block up conduit from forms and securely fasten in place. all conduits in slabs shall have a minimum of 4" inches concrete coverage above.

I. Failure to route conduit through building without interfering with other equipment, and construction shall not constitute a reason for an extra charge. Equipment, conduit, and fixtures shall fit into available spaces in building and shall not be introduced into building at such times and manner as to cause damage to structure or equipment. Equipment requiring servicing shall be readily accessible.

2.02 EMT (ELECTRICAL METALLIC TUBING) RACEWAY
A. Do not use Electrical Metallic Tubing in cinder concrete or cinder fill or where conduit system is in contact with dissimilar metals or in wet locations.

2.03 PVC RACEWAY
A Use threaded fittings for all connectors and adapters.

B. Provide 1/4-inch nylon pull rope in all primary power and incoming telephone service entrance conduits.

C. PVC conduit shall convert to galvanized rigid metal per detail on drawings.

2.04 FLEXIBLE METAL CONDUIT
A. Where fittings for liquid tight flexible conduit are brought into an enclosure with a knock-out, a gasket assembly, consisting of one piece "O" ring, with Buna-N sealing material, series 3400, shall be installed on outside of box. Fittings shall be made of either steel or malleable iron only, and shall have insulated throats or insulated bushings.

B. In dry locations, where final connections to motors and other equipment may be made with Flexible Metal Conduit, fittings shall be of steel or malleable iron only with insulated throats or insulated bushings, and shall be of wedge and screw type having an angular wedge fitting between convolutions of conduit.

2.05 MC CABLE
A. MC Cable may be used for branch circuits as noted in Part 1 above and where the local code allows use of MC Cable. The installation shall conform to Article 330 of the National Electrical Code and shall be concealed in walls and above ceilings. (Exposed MC Cable will not be acceptable.)

B. MC Cables shall be secured and supported by the building structure per the National Electrical Code and any local code requirements. MC Cable shall not lay on ceilings.

SECTION C16121
CONDUCTORS

PART 1 - PRODUCTS

1.01 CONDUCTORS
A. Provide 98% conductivity copper conductors with 600-volt insulation. For conductors No. 12 AWG and No. 10 AWG, provide solid type. For all conductors No. 8 AWG and larger, provide stranded type. All conductors shall have THHN/THWN insulation unless noted otherwise.

B. Conductors shall be manufactured by Triangle, American, Rome, Southwire or approved equal.

C. Provide No. 14 AWG type THHN fixture conductors, for conductors entering lighting fixtures.

D. Branch circuit conductors shall be minimum #12 AWG, copper.

PART 2 - EXECUTION

2.01 INSTALLATION
A. Install pull boxes in circuits or feeders over 100 feet long.

B. Make all splices or connections only at outlet, pull or junction boxes.

C. All conductors and connections shall test free of grounds, shorts, and opens prior to energizing circuit.

D. Provide No. 10 wire in lieu of No. 12 wire for any branch circuit in excess of 100 feet linear length to prevent excessive voltage drop.

E. Use Ideal wing nuts, Scotchlok Type Y, R, G, or B, or approved equivalent connectors for fixture connections at outlet boxes.

F. Make feeder taps and joints with OZ Type T, PT, PM or PTS, or approved equivalent clamp connectors as manufactured by Kupler, or with approved compression sleeves. Wrap connectors with No. 10 Electro-Seal or approved equivalent plastic filler and vinyl tape.

G. Leave a minimum of 8" slack wire in every outlet box.

H. Provide color coded wire and with a different color for each phase and neutral and ground as follows: Phase A, B, C: Black, Red and Blue respectively; Neutral: White; Isolated Ground: Green with Yellow Stripes. Approved color tape is acceptable for feeders using larger than #6 conductors.

I. All conductors shall be continuous from origin to panel or equipment termination without splices where possible. Where splices and taps are necessary or are required, they shall be made in splice boxes with suitable connectors.

J. Tighten all electrical connectors and terminals, including screws and bolts, in accordance with manufacturer's published torque tightening values. Where manufacturer's torquing requirements are not indicated,tighten connectors and terminals to comply with tightening torques specified in UL486A and UL486B.

SECTION C16122
OUTLET AND JUNCTION BOXES

PART 1 - GENERAL

1.01 PROJECT CONDITIONS
A. Verify field measurements are as shown on drawings.

B. Verify locations of floor boxes and outlets in work areas prior to rough-in.

PART 2 - PRODUCTS

2.01 OUTLET BOXES

A. Sheet metal outlet boxes: galvanized steel.

B. Cast boxes: type FS, cast feralloy. Provide gasketed cover by box manufacturer.

C. Manufacturers: National, Appleton, General Electric, RACO, or Steel City.

D. Provide boxes for fixtures with fixture studs in center.

E. Outlet boxes for lighting, switches and receptacles in interior areas with exposed conduit shall be pressed steel and in exterior areas with exposed conduit shall be cast metal with threaded hubs, "FS" type. Use galvanized steel for concealed boxes. Boxes shall be 1-1/2" deep minimum.

2.02 PULL AND JUNCTION BOXES
A. Sheet metal boxes: galvanized steel.

B. Surface-mounted cast metal box: type 4; flat-flanged, surface-mounted junction box.
1. Material: galvanized cast iron.
2. Cover: furnish with ground flange, neoprene gasket, and stainless steel cover screws.

C. In-ground cast metal box: inside flanged, recessed cover box for flush mounting.
1. Material: galvanized cast iron.
2. Cover: nonskid cover with neoprene gasket and stainless steel cover screws.
3. Cover legend: electric.

D. Manufacturers: National, Appleton, General Electric, RACO, Oz-Gedney or Steel City.

PART 3 - EXECUTION

3.01 INSTALLATION
A. Install electrical boxes as shown on drawings, and as required for splices, taps, wire pulling, equipment connections and compliance with regulatory requirements.

B. Install pull boxes and junction boxes above accessible ceilings.

C. Inaccessible ceiling areas: Install outlet and junction boxes no more than 6 inches from ceiling access panel or from removable recessed light fixture.

D. Use flush mounting outlet boxes in finished areas.

E. Use stamped steel bridges to fasten flush mounting outlet box between studs.

F. Install flush mounted box without damaging wall insulation or reducing its effectiveness.

G. Use adjustable steel channel fasteners for hung ceiling outlet box.

H. Do not fasten boxes to ceiling support wires.

I. Support boxes independently of conduit, except cast box that is connected to two Rigid Metal Conduits both supported within 12 inches of box.

J. Use gang box where more than one device is mounted together. Do not use sectional box.

K. Use gang box with plaster ring for single device outlets.

L. Use cast outlet box in exterior locations and wet locations.

3.02 OUTLET BOXES
A. Select boxes according to intended use and type of outlet. Ceiling outlet boxes shall be 4" octagon and 1-1/2" deep. Use 2-1/8" deep octagon boxes or 4" square boxes required. All ceiling outlet boxes shall have a fixture stud of no bolt self-locking type installed if required to hang the fixture specified at the outlet.

3.03 JUNCTION BOXES
A. Junction boxes shall be sized according to number of conductors in box or type of service to be provided. Minimum junction box size 4-11/16" square and 2-1/8" deep. Provide screw covers for junction boxes.

B. Use code gauge steel with screw covers for pull boxes with prime coat and provide with screw cover. Size pull boxes according to the NEC.

C. Provide pull box every 100 feet of conduit run or where excessive number of bends necessitates a box for ease of wire installation.

SECTION C16123
GROUNDING AND BONDING

PART 1 - PRODUCTS

1.01 ROD ELECTRODES
A. Material: copper-clad steel.

B. Diameter: 3/4 inch.

C. Length: 10 feet.

1.02 MECHANICAL CONNECTORS
A. Material: bronze.

1.03 GROUNDING CONDUCTOR (WIRE)
A. Material: stranded copper, sized to meet NFPA 70, Article 250 requirements.

PART 2 - EXECUTION

2.01 INSTALLATION
A. Install rod electrodes at locations indicated. Install additional rod electrodes as required to achieve resistance to ground of less than 25 ohms.

B. Provide grounding electrode conductor and connect to reinforcing steel in foundation footing.

C. Provide bonding to meet regulatory requirements.

D. Bond together each metallic raceway, pipe, duct and other metal objects.

E. Provide isolated grounding conductor for circuits supplying all isolated ground outlets. Insulation shall be green with yellow stripe. Size per NEC Table 250.66. This isolated grounding conductor shall run in addition to equipment grounding conductor and along with the branch circuit conductors.

2.02 GROUNDING
A. Ground electrical system in accordance with NEC Article 250 and local authorities having jurisdiction.

B. Install a #3/0 bare copper wire bond across the water meter attached to ground clamps on water line on each side of meter. Arrangements shall be made to do this work at the time the water meter is installed.

C. From the point of entrance of the water main into the building and on the meter side of the main inside water valve and union install a stranded copper cable #3/0 in 1-1/4" conduit to the main distribution panel. Connect the cable to the equipment ground bus.

D. Install a green equipment grounding conductor in each raceway, sized per NEC Table 250-122. Terminate on equipment ground bus within panelboard serving load.

E. Install #6 awg copper grounding conductor from ground bar in main telephone box to inter system bonding termination to grounded neutral bus in main distribution panel.

F. All separate grounding electrode conductors shall be bonded together to limit potential differences between them and between their associated wiring systems. This includes the power system, telephone system, etc.

2.03 FIELD QUALITY CONTROL
A. Inspect grounding and bonding system conductors and connections for tightness and proper installation.

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

GPD GROUP, INC.
LIC. # - 30920
520 S. MAIN STREET, SUITE 2531
AKRON, OH 44311

STEVEN P. SCHAUB
LICENSE No. 75207
STATE OF FLORIDA
PROFESSIONAL ENGINEER
05/23/22

CHICK-FIL-A
HUNT CLUB
2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571
BUILDING TYPE / SIZE: P13 SE ALL
RELEASE: v2_21.08
PRINTED FOR
ISSUED FOR CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 2021223.29
DATE 12/08/21
DRAWN BY Author

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SHEET
ELECTRICAL SPECIFICATIONS

SHEET NUMBER
E-901

5/23/2022 9:33:26 AM BIM 360://FL_04571_Hunt Club_2021.11_FSR04571_Hunt Club_ELE.rvt
50-SE-04571-E-901-ELECTRICAL SPECIFICATIONS

GREASE INTERCEPTOR SIZING

(GREASE INTERCEPTOR PRETREATEMENT CAPACITY FOR FAST FOOD) 10 GAL x 98 SEATS = 980 GAL REQUIRED

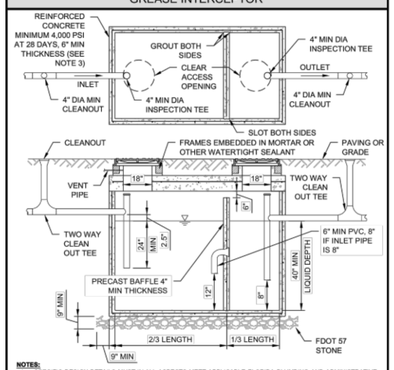
GREASE INTERCEPTOR CAPACITY = 1,250 GAL PROVIDED

GREASE INTERCEPTOR SIZED PER "TABLE 2310-4: SIZING REQUIREMENTS FOR GREASE INTERCEPTORS" OF THE ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL

NOTES:
1. SET ON 0'-4" OF STRUCTURAL BACKFILL
2. INTERIOR DIMENSIONS CHANGES ALLOWED TO ACCOMPLISH SIMILAR VOLUME.
3. TRAP CAPACITY SUBJECT TO APPROVAL BY ORANGE COUNTY UTILITIES. CONSTRUCTION OF INTERCEPTOR MUST MEET OR EXCEED OC STANDARD A307-1. INTERCEPTOR MUST MEET H-20 TRAFFIC LOAD REQUIREMENTS WHEN REQUIRED BY ORANGE COUNTY UTILITIES.

APPENDIX A — STANDARD DRAWINGS

GREASE INTERCEPTOR



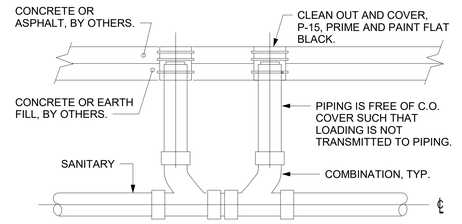
NOTES:
1. SPECIFIC DESIGN DETAILS MUST IN ALL ASPECTS MEET APPLICABLE FLORIDA PLUMBING AND ADMINISTRATIVE CODE.
2. SIZE GREASE INTERCEPTOR PER OCU MANUAL, SECTION **2310**. MINIMUM SIZE 750 GAL; MAXIMUM SIZE 1250 GAL.
3. INTERCEPTORS SHALL BE MONOLITHIC, WATER AND GAS TIGHT. SECTIONAL TANKS SHALL NOT BE PERMITTED.
4. ALL FIXTURES LOCATED IN FOOD AND BEVERAGE PREPARATION AREAS SHALL BE ROUTED THOUGH GREASE INTERCEPTOR. RESTROOM WASTE SHALL NOT BE ROUTED THROUGH INTERCEPTOR.
5. BAFFLE REQUIRED; ALTERNATIVE DESIGNS ARE ACCEPTABLE. DESIGN MUST MEET FLORIDA PLUMBING AND ADMINISTRATIVE CODE.
6. LOADS: H-20 TRUCK WHEELS WITH 30% IMPACT PER AASHTO. TRAFFIC BEARING FRAME AND COVER TO MEET FDOT STANDARDS IF APPLICABLE.

ORANGE COUNTY UTILITIES
STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL

FIGURE A308-1
10/10/2021

5. SHEET NOTES

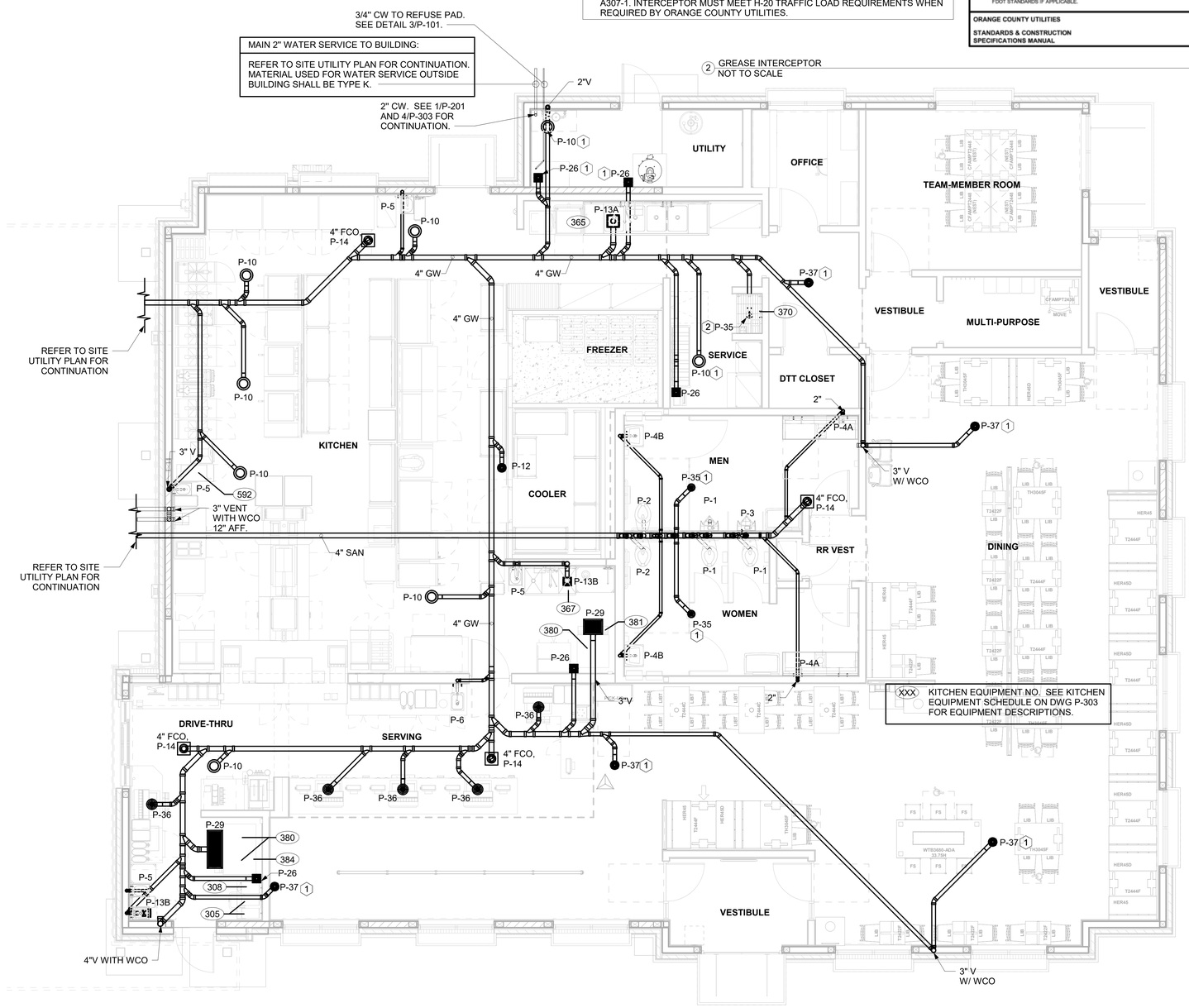
1. COORDINATE INSTALLATION OF SANITARY PIPING WITH FOOTINGS IN THE FIELD. SLEEVE PENETRATIONS IN FOOTINGS WITH PVC.
2. COMBINATION WASTE AND VENT SYSTEM SHOWN HERE. WHERE REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION, PROVIDE SAFE-WASTE SYSTEM OR DEDICATED VENT SYSTEM AS OUTLINED IN STATE AND LOCAL CODE AMENDMENTS.
3. ALL WATER PIPING INSTALLED WITHIN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF THE INSULATION.
4. ALL VENT PIPING TO BE 2" DIAMETER MIN U.N.O. SEE 1/P-301 FOR VENT LAYOUT.



4 SAN. C.O. OUTSIDE BUILDING
NOT TO SCALE

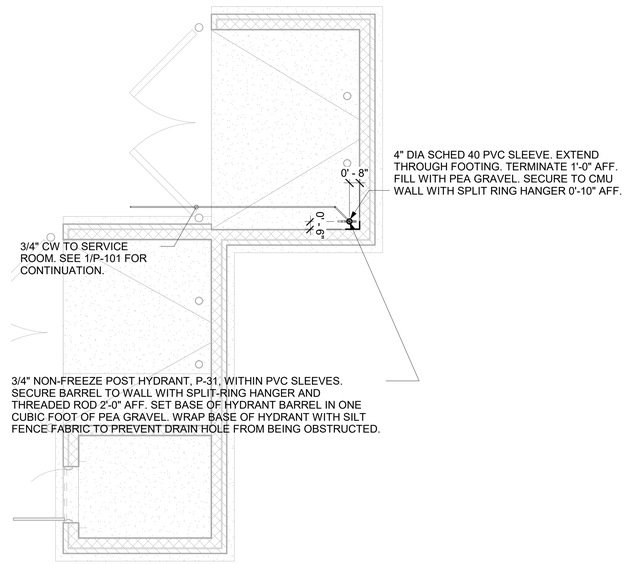
KEY NOTES

1 PROVIDE TRAP SEAL PROTECTOR P-26A.
2 INSTALL FLOOR DRAIN P-35 AT MOP SINK DEPRESSION WITH TOP OF STRAINER 0'-7" BFF.



1 BELOW SLAB PLUMBING PLAN
1/4" = 1'-0"

METHOD OF DRAINAGE AT REFUSE PAD -
WHEN AREA DRAIN IS SHOWN ON CIVIL PLANS, SEE FIXTURE P-32 SPECIFICATION ON DRAWING P-901 FOR MAKE AND MODEL OF DRAIN. DRAIN AND PIPING PROVIDED AND INSTALLED BY CHICK-FIL-A SITE CONTRACTOR. WHEN AREA DRAIN IS NOT SHOWN, REFER TO ARCHITECTURAL DRAWINGS FOR DESIGN OPTION SHOWING DRAINAGE THROUGH BACK OF DUMPSTER ENCLOSURE.



3 REFUSE PAD PLUMBING PLAN
1/4" = 1'-0"

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

GPD GROUP, INC.
LIC. # - 30920
520 S. MAIN STREET, SUITE 2531
AKRON, OH 44311

BRANDON M. MARZLEY
LICENSE No. 77967
BRANDON M. MARZLEY LICENSE No 77967 STATE OF FLORIDA PROFESSIONAL ENGINEER
05/23/22

CHICK-FIL-A HUNT CLUB

2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571

BUILDING TYPE / SIZE: P13 SE LRG
RELEASE: v2.21.05
PRINTED FOR
ISSUED FOR CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 2021223.29
DATE 12/08/21
DRAWN BY MJA

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SHEET
BELOW SLAB PLUMBING PLAN

SHEET NUMBER
P-101

5/23/2022 10:13:51 AM BIM 360://FL_04571_Hunt Club_2021.11_FSR/04571_Hunt Club_PLB.rvt
40-SE-04571-P-101-BELOW SLAB PLUMBING PLAN

Branch Panel: A

LOCATION:
SUPPLY FROM: MDP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A	B	C	POLE	TRIP	LOAD DESCRIPTION	CKT	NT
H	1	TELEPHONE DT VIDEO (190)	20 A	1	0.240 1.020			1	20 A	DOUBLE LEMONADE BUBBLER (310)	2	I
	3	OFFICE GEN OUTLETS & PRINTER	20 A	1		0.720 1.650		1	20 A	TEA BREWER (305)	4	I
	5	OFFICE GEN OUTLETS & MUSIC (669)	20 A	1			0.720 1.650	1	20 A	TEA BREWER (305)	6	I
H	7	GENERAL OUTLET	20 A	1	0.180 1.200			1	20 A	DRINK TOWER (315W)	8	I
	9	GENERAL OUTLETS (CO2)	20 A	1		0.530 1.509		1	20 A	PANEL-POS THRU PIB	10	M
I	11	DRINK TOWER (315W)	20 A	1			1.200 1.200	1	20 A	DRINK TOWER (315W)	12	I
H	13	U.C. REFRIG (420L)	20 A	1	0.564 1.200			1	20 A	DRINK TOWER (315W)	14	I
I	15	U.C. REFRIG (420L)	20 A	1		0.564 0.240		1	20 A	SECURITY SYSTEM	16	L
H	17	U.C. REFRIG (421)	20 A	1			0.756 1.244	3	15 A	COOLER CONDESER / EVAP COIL (449)	18	LO
I	19	SINGLE SANDWHICH SLIDE (563S)	20 A	1	0.548 1.244			--	--	--	20	
I	21	U.C. REFRIG (420)	20 A	1		0.564 1.140		--	--	--	22	
I	23	DOUBLE SANDWHICH SLIDE (563D)	20 A	1			1.090 1.200	1	20 A	DRINK TOWER (315W)	24	I
	25	CARBONATOR (320)	20 A	1	0.744 1.752			3	35 A	FREEZER CONDESER / EVAP COIL (410)	26	LO
	27	CARBONATOR (320)	20 A	1		0.744 1.908		--	--	--	28	
	29	CARBONATOR (320)	20 A	1			0.744 1.908	--	--	--	30	
	31	CARBONATOR (320)	20 A	1	0.744 0.180			1	20 A	GEN OUTLET DTT CLOSET	32	
	33	CARBONATOR (320)	20 A	1		0.744 0.500		1	20 A	FREEZER HEAT TAPE (410)	34	F
	35	BOOSTER PUMP	20 A	2			1.144 4.992	3	60 A	FRANKE TOASTER TABLE (120)	36	
	37	--	--	--	1.144 4.056			--	--	--	38	
H	39	GENERAL OUTLETS	20 A	1		0.180 4.056		--	--	--	40	
	41	CCTV RACK DTT CLOSET	20 A	1			0.360 1.844	3	60 A	FRANKE TOASTER TABLE (120a)	42	
	43	GEN OUTLET DTT CLOSET	20 A	1	0.180 4.544			--	--	--	44	
	45	FUTURE/RACK AC DTT CLOSET	20 A	1		1.272 3.060		--	--	--	46	
	47	FUTURE/RACK AC DTT CLOSET	20 A	1			1.272 4.296	3	60 A	FRANKE TOASTER TABLE (120c)	48	
	49	SPARE	20 A	1	0.000 4.992			--	--	--	50	
	51	SPARE	20 A	1		0.000 4.296		--	--	--	52	
	53	SPARE	20 A	1			0.000 2.667	3	30 A	RETHERMALIZER (592)	54	I
	55	SPARE	20 A	1	0.000 2.667			--	--	--	56	
	57	SPARE	20 A	1		0.000 2.667		--	--	--	58	
	59	SPARE	20 A	1			0.000 5.880	3	60 A	DISHWASHER (363)	60	LOSB
	61	SPACE	--	--	0.000 5.880			--	--	--	62	
	63	SPACE	--	--		0.000 5.880		--	--	--	64	
	65	SPACE	--	--			0.000 0.000	--	--	SPACE	66	
	67	SPACE	--	--	0.000 0.000			--	--	SPACE	68	
	69	SPACE	--	--		0.000 0.000		--	--	SPACE	70	
	71	SPACE	--	--			0.000 0.000	--	--	SPACE	72	
			Total Load:		33.08 kVA	32.22 kVA	34.17 kVA					
			Total Amps:		276.8 A	268.5 A	285.8 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC COOL	2544 VA	100.00%	2544 VA		
KITCHEN EQUIPMENT	77454 VA	65.00%	50345 VA	**Total Conn. Load:**	99.5 kVA
KITCHEN REFRIG EQUIPMENT	11644 VA	65.00%	7569 VA	**Total Est. Demand:**	68.9 kVA
MISCELLANEOUS	1968 VA	100.00%	1968 VA	**Total Conn.:**	276.1 A
Motor	2338 VA	124.47%	2910 VA	**Total Est. Demand:**	191.1 A
RECEPTACLES	3521 VA	100.00%	3521 VA		

Branch Panel: B

LOCATION:
SUPPLY FROM: MDP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A	B	C	POLE	TRIP	LOAD DESCRIPTION	CKT	NT
	1	GENERAL OUTLETS	20 A	1	0.360 0.180			1	20 A	GENERAL OUTLET	2	
	3	GENERAL OUTLET	20 A	1		0.180 0.756		1	20 A	DOUBLE WORKTOP REFRIG (431)	4	
	5	GENERAL OUTLET	20 A	1			0.360 1.840	1	20 A	FRY HOLDING STATION (560)	6	
	7	MILKSHAKE DISPENSER (300a)	20 A	1	0.120 1.128			1	20 A	SINGLE REACH-IN FREEZER (400)	8	
	9	ROOF MTD ICE MAKER (380C)	25 A	3		1.704 0.195		1	15 A	CL TABLE MONITORS (183/182L)	10	I, IG
	11	--	--	--			1.704 1.840	1	20 A	FRY HOLDING STATION (560)	12	
	13	--	--	--	1.704 1.500			1	20 A	FOOD COOKER/WARMER (565C)	14	
	15	INTERIOR ICE MAKER (380B)	15 A	1		0.600 0.500		1	20 A	D.T. DOOR	16	
	17	DOUBLE LEMONADE BUBBLER (310)	20 A	1			0.943 1.704	3	15 A	ROOF MTD ICE MAKER (380C)	18	
	19	ICECREAM MACHINE (300X)	30 A	3	2.280 1.704			--	--	--	20	
	21	--	--	--		2.280 1.704		--	--	--	22	
	23	--	--	--			2.280 1.920	1	20 A	DOUBLE THAWING CABINET (444D)	24	
	25	ROOF RECEPTACLES	20 A	1	0.540 0.610			1	15 A	INTERIOR ICE MAKER (380,380A)	26	
	27	DINING AREA OUTLETS	20 A	1		1.260 1.920		1	20 A	DOUBLE THAWING CABINET (444D)	28	
	29	DINING AREA OUTLETS	20 A	1			1.800 0.000	1	20 A	FACP (WHEN REQ'D)	30	
	31	FLYLIGHT SYSTEM (211B,C)	20 A	1	0.360 1.920			1	20 A	SINGLE THAWING CABINET (444S)	32	
	33	DOUBLE LEMONADE BUBBLER (310)	20 A	1		0.943 0.180		1	20 A	REFUSE ENCLOSURE	34	
	35	LEMON JUICER STAND (607)	20 A	1			0.180 0.360	1	20 A	T500/ SHUNT TRIP (269,270)	36	
	37	ICE CREAM MACHINE (300X)	20 A	3	1.800 1.000			2	30 A	COFFEE MAKER (308)	38	
	39	--	--	--		1.800 1.000		--	--	--	40	
	41	--	--	--			1.800 0.560	1	20 A	GENERAL OUTLETS/DOORBELL	42	
	43	HEATED AIR DOOR (AD-1)	45 A	3	4.068 0.960			1	20 A	UNHEATED AIR DOOR (AD-2)	44	
	45	--	--	--		4.068 2.185		1	20 A	OPTIONAL COMPRESSOR	46	
	47	--	--	--			4.068 1.800	1	20 A	TRASH COMPACTOR (TC)	48	
	49	ROOF MTD ICE MAKER (380C)	25 A	3	1.704 1.800			1	20 A	TRASH COMPACTOR (TC)	50	
	51	--	--	--		1.704 1.800		1	20 A	FUTURE TRASH COMPACTOR (TC)	52	
	53	--	--	--			1.704 0.610	1	15 A	INTERIOR ICE MAKER (380,380A)	54	
	55	FUTURE VECTOR OVEN (505VT)	30 A	3	0.878 0.180			1	20 A	MANAGERS STATION (GEN)	56	
	57	--	--	--		0.878 1.080		1	20 A	DINING AREA OUTLETS	58	
	59	--	--	--			0.878 1.080	1	20 A	DINING AREA OUTLETS	60	
	61	SPARE	20 A	1	0.564 1.920			1	20 A	FUTURE SINGLE THAWING...	62	
	63	SPARE	20 A	1		0.000 0.000		1	20 A	SPARE	64	
	65	SPACE	--	--			0.000 0.000	1	20 A	SPARE	66	
	67	SPACE	--	--	0.000 0.000			--	--	SPACE	68	
	69	SPACE	--	--		0.000 0.000		--	--	SPACE	70	
	71	SPACE	--	--			0.000 0.000	--	--	SPACE	72	
			Total Load:		27.28 kVA	26.74 kVA	27.43 kVA					
			Total Amps:		228.0 A	222.8 A	229.3 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HEAT	12204 VA	100.00%	12204 VA		
KITCHEN EQUIPMENT	25367 VA	65.00%	16489 VA	**Total Conn. Load:**	81.1 kVA
KITCHEN REFRIG EQUIPMENT	26155 VA	65.00%	17001 VA	**Total Est. Demand:**	63.7 kVA
LIGHTING	312 VA	125.00%	390 VA	**Total Conn.:**	225.1 A
MISCELLANEOUS	218 VA	100.00%	218 VA	**Total Est. Demand:**	176.8 A
Motor	9045 VA	106.04%	9591 VA		
RECEPTACLES	7785 VA	100.00%	7785 VA		

Branch Panel: POS

LOCATION:
SUPPLY FROM: A
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/120 Single
PHASES: 1
WIRES: 3
2+G+IG
PROVIDE JUMPER FOR PHASE A & B

A.I.C. SERIES RATING: 10 K
MAINS TYPE: MLO
MAINS RATING: 100 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A	B	POLE	TRIP	LOAD DESCRIPTION	CKT	NT
H,IG	1	COUNTER STATIONS (180,182)	15 A	1	0.318 0.260		1	15 A	CCTV RACK DTT CLOSET	2	IG
	3	SPACE	--	--		0.000 0.000	--	--	SPACE	4	
H,IG	5	COUNTER POS STATIONS (180,182)	15 A	1	0.130 0.070		1	15 A	OFFICE RECEPTACLE (COMP)	6	IG
	7	SPACE	--	--		0.000 0.000	--	--	SPACE	8	
H,IG	9	DT POS STATION (180,182)	15 A	1	0.210 0.000		--	--	SPACE	10	
	11	SPACE	--	--		0.000 0.000	--	--	SPACE	12	
H,IG	13	MLOP POS STATIONS (180,182)	15 A	1	0.111 0.040		1	15 A	NETWORK RACK DTT CLOSET	14	IG
	15	SPACE	--	--		0.000 0.000	--	--	SPACE	16	
H,IG	17	MLOP MONITORS (183)	15 A	1	0.120 0.050		1	15 A	ISP MODEM	18	IG
	19	SPACE	--	--		0.000 0.000	--	--	SPACE	20	
H,IG	21	PASS THRU MONITORS (183/182L)	15 A	1	0.200 0.000		--	--	SPACE	22	
	23	SPACE	--	--		0.000 0.000	1	20 A	BACKFED MAIN BREAKER	24	LO
			Total Load:		1.51 kVA	0.00 kVA					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
MISCELLANEOUS	1108 VA	100.00%	1108 VA		
RECEPTACLES	401 VA	100.00%	401 VA	**Total Conn. Load:**	1.5 kVA
				Total Est. Demand:	1.5 kVA
				Total Conn.:	12.6 A
				Total Est. Demand:	12.6 A

Branch Panel: C

LOCATION:
SUPPLY FROM: MDP
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A	B	C	POLE	TRIP	LOAD DESCRIPTION	CKT	NT
J	1	KITCHEN LTG	20 A	1	1.284 0.180			1	20 A	DROP CORD OUTLET	2	I
J	3	KITCHEN LTG	20 A	1		0.552 0.180		1	20 A	DROP CORD OUTLET	4	I
J	5	RESTROOM LTG & EF-3	20 A	1			0.780 0.120	1	20 A	FUTURE/BREADING TABLE (440CT)	6	I
J	7	DINING AREA LTG	20 A	1	0.288 0.180			1	20 A	DROP CORD OUTLET	8	I
J	9	SERVE AREA LTG	20 A	1		0.148 0.120		1	20 A	ICE BATH BREADING TABLE (440CT)	10	I
J	11	DINING AREA LTG	20 A	1			0.816 0.180	1	20 A	DROP CORD OUTLET	12	I
H	13	MENU BOARD NETWORK	20 A	1	0.651 0.180			1	20 A	DROP CORD OUTLET (184)	14	I
J	15	WATER HEATER/PUMP/FILTER	20 A	1		1.440 0.212		1	20 A	DROP CORD OUTLET	16	I
H	17	MENU BOARDS (672)	20 A	1			0.651 0.180	1	20 A	DROP CORD OUTLET	18	I
B	19	DIRECTIONAL SIGNS	20 A	1	0.360 1.175			1	20 A	FLOOR MIXER (600R)	20	I
E	21	PARKING LOT LTG	20 A	1		0.326 1.128		1	20 A	SINGLE REACH-IN FREEZER (400T)	22	I
E	23	PARKING LOT LTG	20 A	1			0.652 0.180	1	20 A	DROP CORD OUTLET	24	I
	25	MENU BOARD RECEPTACLE	20 A	1	0.264 2.880			1	30 A	HOT HOLDING CABINET (580)	26	I
	27	MENU BOARD RECEPTACLE	20 A	1		0.264 0.804		1	20 A	REFRIG EQUIPMENT STAND (422T)	28	I
D	29	SECURITY/FLAGPOLE LTG	20 A	1			0.347 0.180	1	20 A	DROP CORD OUTLET	30	I
C	31	BLDG EXTERIOR LTG	20 A	1	0.312 0.212			1	20 A	DROP CORD OUTLET	32	I
S,J	33	MLOP &OMD CANOPY LTG	20 A	1		1.332 0.180		1	20 A	DROP CORD OUTLET	34	I
LO	35	FRZR/COOLER LTG (410/449)	20 A	1			1.000 1.080	1	20 A	SALAD PREP TABLE (441)	36	I
B	37	MAIN ID SIGN	20 A	1	0.980 0.180			1	20 A	DROP CORD OUTLET	38	I
B	39	MAIN ID SIGN	20 A	1		0.800 0.756		1	20 A	WORKTOP REFRIGERATOR (431T)	40	I
B	41	MAIN ID SIGN	20 A	1			0.800 0.180	1	20 A	DROP CORD OUTLET	42	I
B	43	BUILDING SIGNAGE	20 A	1	0.500 0.480			1	20 A	WORKTOP REFRIGERATOR (432T)	44	I
B	45	BUILDING SIGNAGE	20 A	1		0.500 0.180		1	20 A	DROP CORD OUTLET	46	I
B	47	BUILDING SIGNAGE	20 A	1			0.800 1.587	1	25 A	HOOD EXHAUST FAN (EF-1)	48	A
B	49	BUILDING SIGNAGE	20 A	1	0.800 1.587			1	25 A	HOOD EXHAUST FAN (EF-2)	50	A
S,LO	51	DRIVE THRU ORDERING	20 A	1		0.780 1.584		1	20 A	MLOP CANOPY FANS	52	I,J,S
S,I,J	53	OMD CANOPY FANS	20 A	1			0.792 0.563	1	20 A	HOOD CJ FANS AND LIGHTS	54	A
I	55	VECTOR OVEN (505VT)	30 A	3	0.878 0.878			3	30 A	VECTOR OVEN (505VT)	56	I
	57	--	--	--		0.878 0.878		--	--	--	58	
	59	--	--	--			0.878 0.878	--	--	--	60	
I	61	ICE BATH BREADING TABLE (440CT)	20 A	1	0.120 0.878			3	30 A	VECTOR OVEN (505VT)	62	I
I	63	DROP CORD OUTLET (184T)	20 A	1		0.180 0.878		--	--	--	64	
I	65	EGG STATION (503)	20 A	2			1.300 0.878	--	--	--	66	
	67	--	--	--	1.300 0.528			1	20 A	RF-1	68	
	69	SPARE	20 A	1		0.000 0.840		1	20 A	SINGLE REFRIG (442WCLT)	70	I
	71	SPARE	20 A	1			0.000 0.180	1	20 A	DROP CORD OUTLET	72	I
			Total Load:		17.03 kVA	14.93 kVA	15.00 kVA					
			Total Amps:		142.0 A	124.4 A	125.1 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
KITCHEN EQUIPMENT	14555 VA	65.00%	9461 VA		
KITCHEN REFRIG EQUIPMENT	5448 VA	65.00%	3541 VA	**Total Conn. Load:**	47.0 kVA
LIGHTING	14369 VA	125.00%	17961 VA	**Total Est. Demand:**	43.9 kVA
MISCELLANEOUS	1378 VA	100.00%	1378 VA	**Total Conn.:**	130.3 A
Motor	7967 VA	104.98%	8364 VA	**Total Est. Demand:**	122.0 A
RECEPTACLES	3240 VA	100.00%	3240 VA		

Branch Panel: D1

LOCATION:
SUPPLY FROM: MDP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A	B	C	POLE	TRIP	LOAD DESCRIPTION	CKT	NT
I	1	PRESSURE FRYER (523)	50 A	3	4.560 2.892			3	50 A	CHARGRILL COOKER (524)	2	I
	3	--	--	--		4.560 3.840		--	--	--	4	
	5	--	--	--			4.560 2.772	--	--	--	6	
I	7	PRESSURE FRYER (523)	50 A	3	4.560 2.892			3	50 A	CHARGRILL COOKER (524)	8	I
	9	--	--	--		4.560 3.840		--	--	--	10	
	11	--	--	--			4.560 2.772	--	--	--	12	
I	13	PRESSURE FRYER (523)	50 A	3	4.560 4.560			3	50 A	PRESSURE FRYER (523)	14	I
	15	--	--	--		4.560 4.560		--	--	--	16	
	17	--	--	--			4.560 4.560	--	--	--	18	
	19	SPACE	--	--	0.000 0.000			--	--	SPACE	20	
	21	SPACE	--	--		0.000 0.000		--	--	SPACE	22	
	23	SPACE	--	--			0.000 0.000	--	--	SPACE	24	
	25	SPACE	--	--	0.000 0.000			--	--	SPACE	26	
	27	SPACE	--	--		0.000 0.000		--	--	SPACE	28	
	29	SPACE	--	--			0.000 0.000	--	--	SPACE	30	
			Total Load:		24.02 kVA	25.92 kVA	23.78 kVA					
			Total Amps:		200.5 A	216.3 A	198.2 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
KITCHEN EQUIPMENT	73728 VA	65.00%	47923 VA		
				Total Conn. Load:	73.7 kVA
				Total Est. Demand:	47.9 kVA
				Total Conn.:	204.6 A
				Total Est. Demand:	133.0 A

Branch Panel: D2

LOCATION:
SUPPLY FROM: MDP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A	B	C	POLE	TRIP	LOAD DESCRIPTION	CKT	NT
SB	1	OPEN FRYER (522)	80 A	3	7.320 7.320			3	80 A	OPEN FRYER (522)	2	SB
	3	--	--	--		7.320 7.320		--	--	--	4	
	5	--	--	--			7.320 7.320	--	--	--	6	
I	7	SPARE/FUTURE FRYER (523)	50 A	3	4.560 1.300			2	20 A	EGG STATION (503)	8	I
	9	--	--	--		4.560 1.300		--	--	--	10	
	11	--	--	--			4.560 1.300	2	20 A	FUTURE EGG STATION (503T)	12	I
	13	SPACE	--	--	0.000 1.300			--	--	--	14	
	15	SPACE	--	--		0.000 0.000		--	--	SPACE	16	
	17	SPACE	--	--			0.000 0.000	--	--	SPACE	18	
	19	SPACE	--	--	0.000 0.000			--	--	SPACE	20	
	21	SPACE	--	--		0.000 0.000		--	--	SPACE	22	
	23	SPACE	--	--			0.000 0.000	--	--	SPACE	24	
	25	SPACE	--	--	0.000 0.000			--	--	SPACE	26	
	27	SPACE	--	--		0.000 0.000		--	--	SPACE	28	
	29	SPACE	--	--			0.000 0.000	--	--	SPACE	30	
			Total Load:		21.80 kVA	20.50 kVA	20.50 kVA					
			Total Amps:		181.7 A	170.8 A	170.8 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
KITCHEN EQUIPMENT	62800 VA	65.00%	40820 VA		
				Total Conn. Load:	62.8 kVA
				Total Est. Demand:	40.8 kVA
				Total Conn.:	174.3 A
				Total Est. Demand:	113.3 A

Branch Panel: D3

LOCATION:
SUPPLY FROM: MDP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A	B	C	POLE	TRIP	LOAD DESCRIPTION	CKT	NT
I	1	PRESSURE FRYER (523)	50 A	3	4.560 7.320			3	80 A	OPEN FRYER (522A)	2	SB
	3	--	--	--		4.560 7.320		--	--	--	4	
	5	--	--	--			4.560 7.320	--	--	--	6	
I	7	SPARE/FUTURE FRYER (523)	50 A	3	4.560 7.320			3	80 A	OPEN FRYER (522A)	8	SB
	9	--	--	--		4.560 7.320		--	--	--	10	
	11	--	--	--			4.560 7.320	--	--	--	12	
	13	SPACE	--	--	0.000 0.000			--	--	SPACE	14	
	15	SPACE	--	--		0.000 0.000		--	--	SPACE	16	
	17	SPACE	--	--			0.000 0.000	--	--	SPACE	18	
	19	SPACE	--	--	0.000 0.000			--	--	SPACE	20	
	21	SPACE	--	--		0.000 0.000		--	--	SPACE	22	
	23	SPACE	--	--			0.000 0.000	--	--	SPACE	24	
	25	SPACE	--	--	0.000 0.000			--	--	SPACE	26	
	27	SPACE	--	--		0.000 0.000		--	--	SPACE	28	
	29	SPACE	--	--			0.000 0.000	--	--	SPACE	30	
			Total Load:		23.76 kVA	23.76 kVA	23.76 kVA					
			Total Amps:		198.0 A	198.0 A	198.0 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
KITCHEN EQUIPMENT	71280 VA	65.00%	46332 VA		
				Total Conn. Load:	71.3 kVA
				Total Est. Demand:	46.3 kVA
				Total Conn.:	197.9 A
				Total Est. Demand:	128.6 A

Distribution Panel: MDP

LOCATION:
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA 3R

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K
MAINS TYPE: MCB
MAINS RATING: 1200 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A	B	C	POLE	TRIP	LOAD DESCRIPTION	CKT	NT
	1	PANEL-A (SUB-FEEDS PANEL POS)	250 A	3	33.08 27.28			3	250 A	PANEL-B	2	
	3	--	--	--		32.22 26.74		--	--	--	4	
	5	--	--	--			34.17 27.43	--	--	--	6	
	7	PANEL-C	250 A	3	17.03 17.04			3	150 A	ROOFTOP UNIT 25 TON (AC-1)	8	
	9	--	--	--		14.93 17.04		--	--	--	10	
	11	--	--	--			15.00 17.04	--	--	--	12	
	13	PANEL-D1	250 A	3	24.02 21.80			3	250 A	PANEL-D2	14	
	15	--	--	--		25.92 20.50		--	--	--	16	
	17	--	--	--			23.78 20.50	--	--	--	18	
	19	ROOFTOP UNIT 17.5 TON (AC-2)	110 A	3	10.44 11.40			3	110 A	ROOFTOP UNIT 20 TON (AC-3)	20	
	21	--	--	--		10.44 11.40		--	--	--	22	
	23	--	--	--			10.44 11.40	--	--	--	24	
	25	TVSS	30 A	3	0.00 23.76			3	250 A	PANEL-D3	26	
	27	--	--	--		0.00 23.76		--	--	--	28	
	29	--	--	--			0.00 23.76	--	--	--	30	
			Total Load:		185.8 kVA	182.9 kVA	183.5 kVA					
			Total Amps:		1549.4 A	1524.5 A	1530.1 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HEAT	12204 VA	100.00%	12204 VA		
HVAC	116640 VA	100.00%	116640 VA	**Total Conn. Load:**	551953 VA
HVAC COOL	2544 VA	100.00%	2544 VA	**Total Est. Demand:**	SEE LOAD SUMMARY
KITCHEN EQUIPMENT	325184 VA	65.00%	211370 VA	**Total Conn.:**	1532 A
KITCHEN REFRIG EQUIPMENT	43247 VA	65.00%	28111 VA	**Total Est. Demand:**	SEE LOAD SUMMARY
LIGHTING	14681 VA	125.00%	18351 VA		
MISCELLANEOUS	3564 VA	100.00%	3564 VA		
Motor	19350 VA	102.96%	19922 VA		
RECEPTACLES	14546 VA	84.37%	12273 VA		

LOAD SUMMARY

TOTAL CONNECTED KVA	IF TOTAL LOAD IS 0_200 KVA	IF TOTAL LOAD IS 201_325 KVA	IF TOTAL LOAD IS 326-800 KVA	IF TOTAL LOAD IS OVER 800 KVA	DIVERSIFIED AMPS AT 208 VOLT
551.95 kVA	0	0	364.63	0	1012.86

CALCULATION PER NEC 220.88

GFCI REQUIREMENTS PER 2020 NEC:

THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL RECEPTACLE OUTLET BRANCH CIRCUITS IN THE K

SECTION C16124
SUPPORTING DEVICES AND HANGERS

PART 1 - PRODUCTS

1.01 ACCEPTABLE MANUFACTURERS
A. Supporting devices and hangers shall be manufactured by RACO Fasteners, or approved equivalent.

PART 2 - EXECUTION

2.01 INSTALLATION
A. Secure conduits to within 3' of each outlet box, junction box, cabinet, fitting, etc., and at intervals not to exceed ten feet (10') and in accordance with the National Electric Code. In seismic zones, support conduits 1" and under at 6' intervals.

B. Install clamps secured to structure for feeder and other conduits routed against the structure. Use drop rods and hangers or racks to support conduits run apart from the structure.

C. Provide and install suitable angle iron, channel iron or steel metal framing with accessories to support or brace electrical equipment including safety switches, fixtures, panelboards, etc.

D. Use of chains, perforated iron, baling wire, or tie wire for supporting conduit runs is not permitted.

E. For support of low voltage wiring not required to be in conduit, bundle cables together in a neat manner using approved nylon tie wraps. Bundled cables shall be supported with "J" hooks on telephone type bridle rings, a minimum of 6 feet on centers. Clearly identify all differing types of cables being run and tag with tape tags regarding telephone, POS System, music / communication, security, etc. for various system utilizing said cable. Identification tape shall be provided at minimum intervals of 25 feet on center and within each building space.

F. Provide a system of supporting devices and hangers to insure secure support or bracing for conduit, electrical equipment, including safety switches, fixtures, panelboards, outlet boxes, junction boxes, cabinets, etc.

SECTION C16140
WIRING DEVICES AND PLATES

PART 1 - PRODUCTS

1.01 WALL SWITCHES
A. Ratings: 20 amps, 120/277 volts a.c. or as identified on drawings.

B. Devices: (Cooper/Arrow Hart catalog numbers are listed unless notedotherwise):
1. Single pole toggle switches: 20 AMP device - #AH1221-GY (Kitchen) or #AH1221-B (Dining) 20 AMP Pilot lights illuminated with load on - #AH1221-PL

2. Double pole toggle switches: 20 AMP device - #AH1222-GY (Kitchen) or #AH1222-B (Dining)

3. Three-way toggle switches: 20 AMP device - #AH1223-GY (Kitchen) or #AH1223-B (Dining)

1.02 RECEPTACLES
A. Devices: (Cooper/Arrow Hart catalog numbers are listed unless otherwise noted):
1. Specification grade devices to be 20 amp, 125 volts, a.c. receptacles:
a. Single (simplex) device: #1877-GY (Kit) or #1877-B (Dining)
b. Duplex device: #CR20-GY (Kitchen) of #CR20-B (Dining)
c. Tamper resistant duplex device: #TRCR20-B or #TR7756-B (with USB charging)
d. GF (ground-fault circuit interrupter) duplex device: #VGF20-GY (Kitchen) or #VGF20-B (Dining)
e. IG (isolated ground) duplex device: #IG5362-RN (orange face)

B. Color:
1. Devices mounted in the FRP or tile shall be gray.
2. Devices mounted in wood finish shall be brown.
3. Isolated ground receptacles shall be orange.

1.03 SPECIAL DEVICES
A. Manual motor starter switch: SQ. D Class 2510, Type F, for use on motors up to 3/4 horsepower. Provide NEMA 1 enclosure in dry locations; provide NEMA 3R enclosure in wet or exterior locations.

1.04 WALL PLATES
A. Provide blank plates on all outlet boxes for future outlets, or outlets without devices. Plate style shall match device plates.

B. Provide non-metallic weatherproof covers for duplex GF receptacles located outside or in wet locations that feature 'while-in-use' cover equivalent to Arrow Hart #WIU-1.

C. Where devices installed in exposed boxes or conduit fittings; provide properly designed plates and covers equal to Arrow Hart RS-Series exposed work covers.

D. Install galvanized steel plates on outlet boxes and junction boxes in unfinished areas, above accessible ceilings, and on surface mounted boxes.

E. Color:
1. Wall plates mounted in FRP or tile shall be smooth satin stainless steel 302-ss series.
2. Wall plates mounted in wood finish shall be brown nylon plastic.
3. Isolated ground wall plates shall be orange nylon plastic with a circuit number printed in 3/16 inch black lettering on clear adhesive label adhered to plate.

PART 2 - EXECUTION

2.01 INSTALLATION

A. Mounting
1. Mount switches and receptacles at height above finished floor as indicated on plans, and legend.
2. Mount switches on strike side of door maximum 8" from door frame. Outlet box for switch shall be located clear of door frame. Coordinate with architectural plans prior to rough-in.
3. Install switches with off position down.
4. Do not use the feed thru feature for the GF Type receptacle, unless required by the plans.
5. Use jumbo sized plates for outlets installed in masonry walls.
6. Each receptacle shall be provided with a #12 green grounding jumper between the ground terminal of the receptacle and the outlet box.
7. The grounding conductor to each receptacle shall be installed such that the removal of the device will not interfere with the continuity of the ground.

B. Testing
1. Test each switch and verify proper operation with energized circuit.
2. Test each receptacle for proper polarity on energized circuit.
3. Test each GF receptacle with a GF receptacle tester and verify circuit is opened by GF device at milli-ampere ranges established by the manufacturer.

SECTION C16440
PANELBOARDS

PART 1 - PRODUCTS

1.01 MANUFACTURER (via Chick-fil-A National Accounts Program)
A. Square-D (West, Midwest, Northeast, and Southwest Regions): from Villa Lighting, Dave Christanell (800)325-0963

B. Square-D (Atlantic and Southeast Regions): from Accu-Serv, Bob Harpring (502)961-0096.

1.02 PANELBOARD FEATURES
A. Panelboards shall have a minimum symmetrical interrupting rating to meet or exceed the available symmetrical interrupting fault current at the device intended to interrupt current.

B. Bus bars shall be copper.

C. Provide factory-installed copper ground bus in each panelboard with lugs or connectors on bar.

D. Provide electrically isolated, factory installed, neutral bus in each 3 phase, 4 wire or 1 phase 3 wire panelboard.

E. In addition to the ground bus required by paragraph 1.02D (above), provide factory installed, electrically isolated, copper ground bus in each panelboard serving isolated ground receptacles.

F. Main lugs and main circuit breaker lugs shall be UL Listed for use with both aluminum and copper conductors.

G. Provide panelboard doors with chrome-plated locks and catches. All locks shall be keyed alike. Provide two keys for each lock.

H. Provide thermal-magnetic circuit breakers which are rated for 40 degrees C ambient temperature. Breakers shall be quick-make, quick-break type trip with trip indication shown by handle position other than on or off. Multi-pole breakers shall have a common trip handle. Tandem type circuit breakers shall not be permitted.

I. MDP main breaker,1200 Amps or higher, shall be equipped with Arc Flash Maintenance Setting switch for use as a temporary arc-flash incident energy reduction device during maintenance activities.

J. Provide typed directory card with clear holder for each panelboard.

PART 2 - EXECUTION

2.01 INSTALLATION
A. Panelboards shall be mounted at height above finished floor such that the height of the top-most breaker in the panel is not more than 6-1/2 feet above finished floor in its highest position per the NEC.

B. Where multiple panelboards are installed on walls in common areas of buildings, the panelboards shall be installed with the top of all panelboards at the same height.

C. Provide blank filler plates over all unused spaces in panelboards.

D. A typed directory card shall indicate devices being served and the space name where the device is located.

E. Provide minimum of one (1) 3/4" empty spare conduit for every 3 poles of spare breaker or space in the panelboard. Stub conduit to nearest accessible ceiling space. Label conduit as spare at panelboard and termination point.

F. Non-isolated ground bars shall be grounded to panelboard can and main service entrance ground bus with a code sized grounding conductor installed in the same conduit as the phase and neutral conductors.

G. Circuits using a common neutral shall be installed in accordance with the National Electrical Code.

H. Inspect each panelboard for proper installation, physical damage, tightness and installation of overcurrent devices. Verify proper color coding of conductors. Correct or repair all items found in inspection.

I. Neutral wires, ground wires, and isolated ground wires shall be connected to the appropriate panel bus bar. Do not mix bus wire connections.

SECTION C16441
ENCLOSED SWITCHES
PART 1 - PRODUCTS

1.01 MANUFACTURERS
A. Square D
B. GE / ABB
C. Siemens

1.02 ENCLOSED SWITCHES
A. Nonfusible switch assemblies: NEMA KS 1, General Duty Type for 208 volt load interrupter enclosed knife switch with externally operable handle interlocked to prevent opening front cover with switch in on position. Handle lockable in off position. Provide equipment ground lug in each switch.

B. Enclosures: NEMA KS 1.
1. Interior dry locations: Type 1.
2. Exterior locations: Type 3R.

SECTION C16442
UTILITY SERVICE ENTRANCE AND DISTRIBUTION SYSTEM

PART 1 - GENERAL

1.01 SYSTEM DESCRIPTION
A. The underground electrical system service characteristics shall be 208Y/120 volts, Three Phase, Four Wire service and shall extend from utility company transformer secondary.

B. Metering of electrical usage shall be located as required by local electrical utility company. Coordinate requirements with local utility company.

C. Distribution system originates at secondary of utility transformer and includes service entrance conduit and conductors, distribution equipment, lighting panelboards, utilization equipment, overcurrent devices, disconnecting means, controls, branch and feeder circuits, etc.

PART 2 - PRODUCTS

2.01 MATERIALS
A. Furnish service entrance conduit, cable, and miscellaneous hardware as required by plans and specifications for electrical service entrance and system grounding at main electrical service.

PART 3 - EXECUTION

3.01 EXAMINATION AND PREPARATION
A. Coordinate exact locations of electrical service utility transformer, metering equipment, service lateral, etc. prior to commencement of installation. Contact engineer with conflicts prior to bid.

B. Ensure pad mounted transformer is not located within roadway or sidewalk.

C. Coordinate with local electrical utility for all utility company requirements and provide for the following items and any others required by the utility:
1. Concrete pad for utility transformer with required dimensions and details.
2. Primary underground conduit, excavation, and backfill requirements.
3. Pay for all fees associated with establishment of electrical service.
4. Furnish list of loads to the electrical utility company serving the facility.
5. Verify that utility company clearances are provided on all sides of utility equipment.

D. Ensure proper access to utility equipment is maintained.

E. Provide pull rope, excavation in accordance with electrical utility company requirements, backfill and concrete envelope for primary in accordance with electrical utility company requirements. Turn conduits up riser pole as required. Cap spare conduits 12 inches above grade with plumbers pipe cap.

F. Provide secondary lugs on utility transformer and perform drilling and installation of lugs in accordance with utility requirements. Type of lugs shall be in accordance with electrical utility company requirements. Connect service conductor to transformer secondary lugs as directed by electrical utility.

SECTION C16500
LIGHTING FIXTURES (LUMINAIRES)

PART 1 - GENERAL

1.01 ACCEPTABLE MANUFACTURERS AND VENDORS
A. Lighting fixtures indicated on lighting fixture schedule are to be purchased from the National Account Vendor for the region of the project (verify region designation with Owner's Representative):

1. Accu-Serv Lighting - Atlantic region and Southeast region. Contact at Accu-Serv: Bob Harpring at 877-707-7378, fax - 502-961-0357, email - bharpring@accu-serv.com
2. Villa Lighting - Northeast region, Midwest region, Southwest region, and West region. Contact at Villa Lighting: Dave Christanell at 800-325-0963, fax- 314-531-8720, email - davec@villalighting.com

B. Ballasts to be electronic ballast provided with lighting fixture by the manufacturer.

C. Lamps to be Osram-Sylvania and will typically be provided with the luminaire by the lighting manufacturer.

1.02 FIXTURE REQUIREMENTS
A. Provide regulating, HPF ballasts in all HID lighting fixtures. HID lamp types shall be as indicated on the drawings.

B. Recessed fluorescent lighting fixture ballasts shall be provided with integral thermal protection.

C. Provide energy-saving Instant or Rapid Start lamps for all fluorescent fixtures.

D. All lamps and ballasts shall meet or exceed the requirements of the National Energy Policy Act of 1992 and any other applicable Codes or Criteria.

E. All components of recessed fixtures shall be accessible without disturbing fixture in or on ceiling.

F. Energy saving ballasts and energy saving lamps provided shall be compatable for operation together.

G. Exterior fixtures and poles shall be suitable for exterior use, shall be UL Listed, and shall be a standard design for exterior application.

H. Exterior poles for fixtures with luminaires installed shall be designed for maximum constant velocity wind load with luminaires installed, applicable to the geographic area.

1.03 CONTROLS
A. Lighting contactors shall be Square-D, GE / ABB, Cutler-Hammer or Siemens of types and quantity shown on drawings, except those furnished with the switchgear as part of the National Account Program by Suncoast Environmental Controls (SEC).

1.04 EMERGENCY LIGHTING UNITS
A. Batteries shall supply emergency power for lighting with minimum operating time of 1-1/2 hours.

B. Emergency lighting shall be automatically operational upon normal utility power failure.

PART 3 - EXECUTION

3.01 INSTALLATION
A. Lighting fixtures shall be structurally supported. Fluorescent fixtures mounted in suspended ceilings shall be supported by and attached to ceiling system as required by NEC Article 410. In addition, fluorescent troffers shall be supported at two opposite corners to building structure.

B. Recessed fixtures in dropped ceiling areas shall be connected to power source using flexible conduit. Flexible conduit shall contain a separate insulated green No. 12 copper ground wire. Flexible conduit shall be connected to junction box and fixture. Green ground wire shall provide ground continuity between conduit system and fixture. Grounding conductors shall be permanently and mechanically connected between fixture and conduit system so as to be electrically continuous.

C. Fixtures surface mounted on exposed tee bar ceilings shall use grip clamps on tee bars to support fixtures.

D. Wire shall be continuous from splice in outlet box of building wiring system to lamp socket or ballast terminals.

E. Maintain the integrity of enclosures on enclosed and gasketed fixtures. Minimize the number of enclosure penetrations and make such penetrations water and dust tight with appropriate gaskets and fittings.

F. Concrete bases shall be provided for all exterior ground mounted or pole mounted fixtures.

G. Install accessories furnished with each fixture.

H. Wiring from pole bases to pole mounted luminaire shall be No. 12 with fuse protection provided by a 30 amp, 600 volt waterproof fuseholder with Bussman 'Limitron' fuse of ampere rating 3 times the load current.

I. Surface and recessed fixtures on or in plastered or drywall ceilings shall be supported by support channels. Support channels shall span across main support channels and shall not depend upon ceilings for support.

3.02 FIELD QUALITY CONTROL
A. Relamp fixtures that have failed lamps at substantial completion.

SECTION C16596
SPECIAL SYSTEMS

PART 1 - GENERAL

1.01 WORK INCLUDED
A. Furnish and install raceway system for music / communications security, CCTV, POS, and other owner-furnished systems, consisting of empty conduits, junction boxes, outlet boxes, and device plates, etc., as specified and shown on owner selected vendor wiring schematics. Cable, equipment, and installation of the interior system will be provided by the owner's system vendor.

B. Interior system equipment will be furnished by Owner's Vendor.

C. Install special backboxes furnished by Owner's Vendor. Coordinate with the Vendor for the installation. Coordinate with the Vendor if backboxes are to be contractor provided in order to provide and install the appropriate item for the Vendor.

PART 2 - PRODUCTS

2.01 MATERIALS
A. Provide 4-11/16" square boxes, with plaster rings. Provide device plates for system outlets as specified in Section 16141. Provide separate conduit to nearest accessible ceiling space from each outlet.

B. Cable shall be in conduit where installed in walls or inaccessible ceilings.

C. Minimum conduit size shall be 3/4" .

PART 3 - EXECUTION

3.01 INSTALLATION
A. Furnish and install conduits, junction boxes, outlet boxes, and plates.

B. Provide one #10 equivalent nylon pull wire in each system empty conduit.

C. Provide a complete raceway system in accordance with interior system vendor requirements. Interior system vendor shall review the drawings. Contractor shall provide for any additional or varying requirements.

D. Final connections and testing of systems will be provided by the system vendor. Contractor shall contact the owner's vendor and schedule the work so as to complete system installation and testing prior to occupancy of the facility.

E. Terminate each conduit stub-up or termination with nylon insulated bushing.

SECTION C16597
TELEPHONE SERVICE

PART 1 - GENERAL

1.01 WORK INCLUDED
A. Furnish and install telephone system consisting of empty conduits, junction boxes, outlet boxes, device plates, etc., as specified and shown on owner selected vendor wiring schematics. Cable, equipment, and installation of the interior system will be provided by the owner's system vendor.

B. Provide underground PVC, Schedule 40, service conduit as required by plans.

C. Telephone Utility Company will provide service entrance cable.

D. Interior telephone system will be furnished by owner's vendor.

E. Special backboxes (unless otherwise noted) and faceplates will be furnished by the owner's vendor.

PART 2 - PRODUCTS

2.01 MATERIALS
A. Provide 4-11/16" square boxes, with plaster rings. Provide device plates for telephone outlets to match those specified in wiring device section. Provide separate conduit to nearest accessible ceiling space from each outlet.

B. Minimum conduit size shall be 3/4".

C. Provide lightning arrester for telephone service entrance at main telephone backboard in accordance with UL96A paragraph 11.2 and NFPA 780.

D. Cable shall be in conduit where installed in walls or above inaccessible ceiling spaces.

PART 3 - EXECUTION

3.01 INSTALLATION
A. Provide one #10 equivalent nylon pull wire in each empty telephone conduit.

B. Provide trenching, backfilling, etc., for installation of service entrance conduit in accordance with other divisions, plans, and telephone utility requirements. Provide pull wire in empty conduit.

C. Coordinate with the local utility for point of service and type of service required. Pay for any utility company charges and fees for establishment of service.

D. Provide a complete raceway system in accordance with telephone utility company and interior system vendor/utility requirements. Telephone utility company and interior system vendor shall review the drawings. Contractor shall provide for any additional or varying requirements.

E. Terminate each conduit stub-up or termination with nylon insulated bushings.

F. Final connections and testing of system will be provided by the system vendor. Contractor shall contact the owner and vendor and schedule the work.

CLOSE OUT DOCUMENT REQUIREMENTS

Provide the following to the building owner upon completion of construction:

1. Submittal data stating equipment rating and selected options for each piece of equipment requiring maintenance.
2. Operation manuals and maintenance manuals for each piece of equipment requiring maintenance. Required routine maintenance actions shall be clearly identified.
3. Names and addresses of at least one qualified service agency.
4. A complete narrative of how each system is intended to operate.

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

GPD GROUP, INC.
LIC. # - 30920
520 S. MAIN STREET, SUITE 2531
AKRON, OH 44311

STEVEN P. SCHAUB
LICENSE No. 75207
STEVEN P. SCHAUB LICENSE No 75207 STATE OF FLORIDA PROFESSIONAL ENGINEER
05/23/22

CHICK-FIL-A
HUNT CLUB
2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571
BUILDING TYPE / SIZE: P13 SE ALL
RELEASE: v2_21.08
PRINTED FOR
ISSUED FOR CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 2021223.29
DATE 12/08/21
DRAWN BY Author

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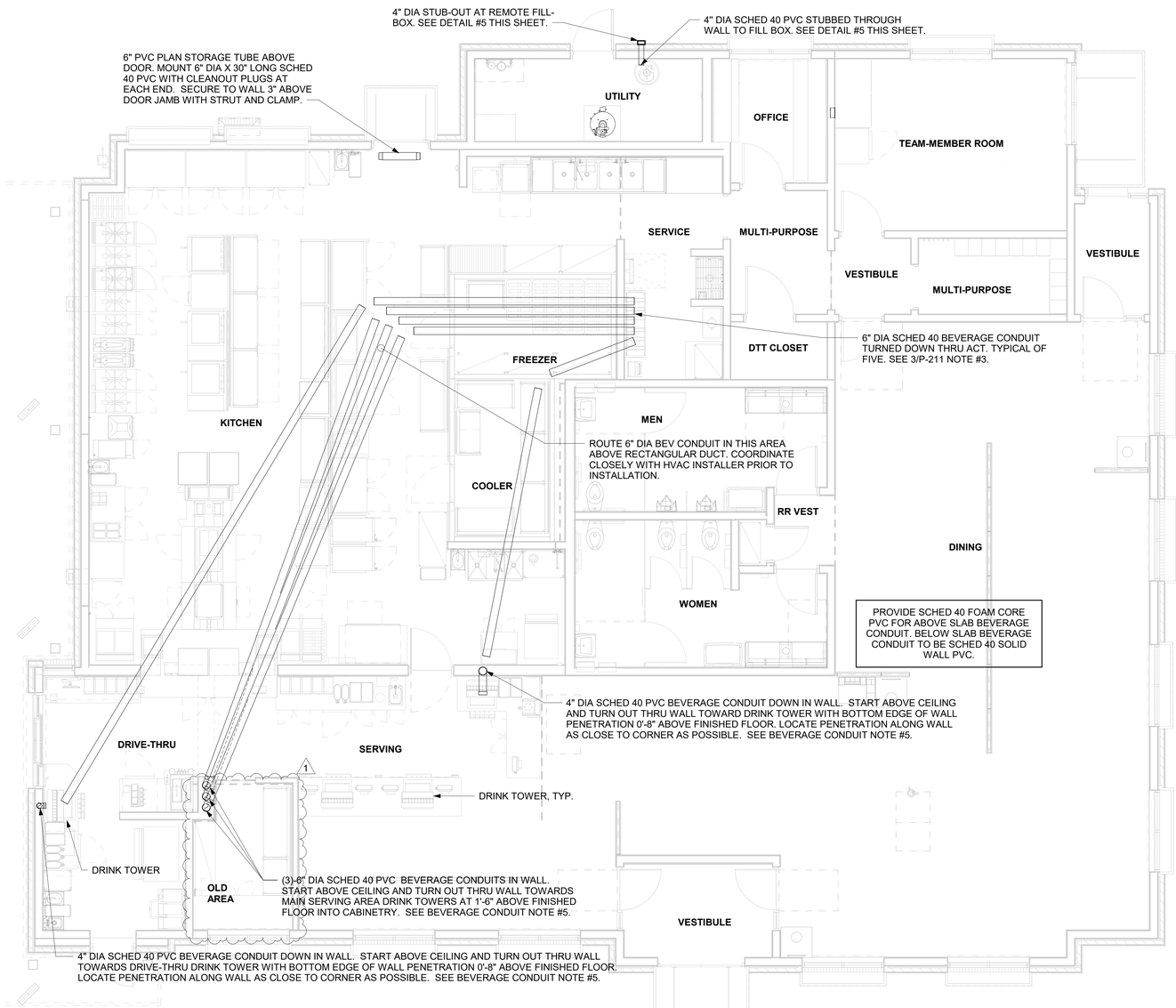
SHEET
ELECTRICAL SPECIFICATIONS

SHEET NUMBER
E-902

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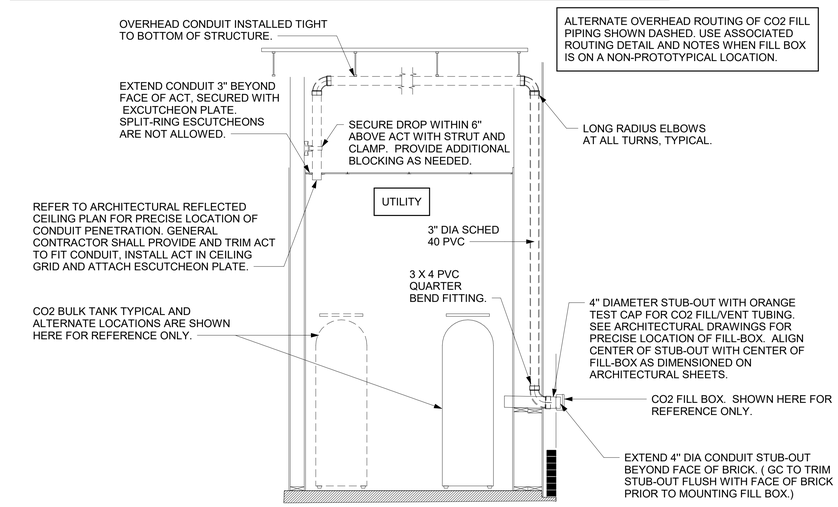
2. BEVERAGE CONDUIT NOTES

1. ROUTE BEVERAGE SYSTEM PIPING OVERHEAD FROM THE BEVERAGE RACK TO DRINK TOWERS IN FOUR (4)-6" DIA SCH 40 PVC DWV CONDUITS. ALL CONDUIT SHALL BE HELD TIGHT TO STRUCTURE AND SUPPORTED WITH THREADED ROD AND CLEVIS HANGERS AT INTERVALS SHOWN IN SPECIFICATIONS FOR HORIZONTAL OVERHEAD PIPING. COORDINATE ROUTING WITH THE GENERAL CONTRACTOR TO AVOID MECHANICAL AND ELECTRICAL SYSTEMS. SEE 1/P-101 AND 1/P-221 FOR BELOW-SLAB BEVERAGE CONDUIT.
2. COORDINATE ROUTING OF ALL CONDUITS WITH HVAC DUCT IN KITCHEN. SEE SHEET M-201 FOR LOCATION OF AC UNITS AND DUCT ROUTING.
3. TURN THE 6" DIA CONDUIT DOWN THROUGH THE CEILING AT THE BEVERAGE RACK AND PROVIDE CHROMED ESCUTCHEONS AT CEILING PENETRATIONS. TERMINATE OPPOSITE END ABOVE CEILING WHERE SHOWN ON PLANS.
4. AT 6" DIA CONDUIT DROP IN DRIVE-THRU, PROVIDE 1/8TH BEND FITTING WITH SHORT PIPE STUB AT BASE OF DROP. CUT STUB AND FITTING FLUSH WITH FINISHED WALL.
5. FOR BEVERAGE CONDUIT DROPS AT WALLS WITH SHEATHING EXTENDED ABOVE THE CEILING, PROVIDE APPROPRIATE FITTING AT UPPER END OF CONDUIT DROP TO EXTEND CONDUIT THROUGH SHEATHING.
6. INSTALL CONTINUOUS CONDUIT FROM CO2 FILL-BOX LOCATION TO BULK CO2 TANK AS SHOWN ON PLANS AND DETAILS. COORDINATE 4" CONDUIT WALL STUB INSTALLATION CLOSELY WITH GENERAL CONTRACTOR AND BRICK MASON. PRIOR TO COVERING UP OF CONDUIT, VERIFY WITH GENERAL CONTRACTOR THE FULL LENGTH OF FILL/VENT TUBING MAY BE INSTALLED AND SUBSEQUENTLY REMOVED FROM CONDUIT. SEE PLAN AND DETAIL #5 THIS SHEET.

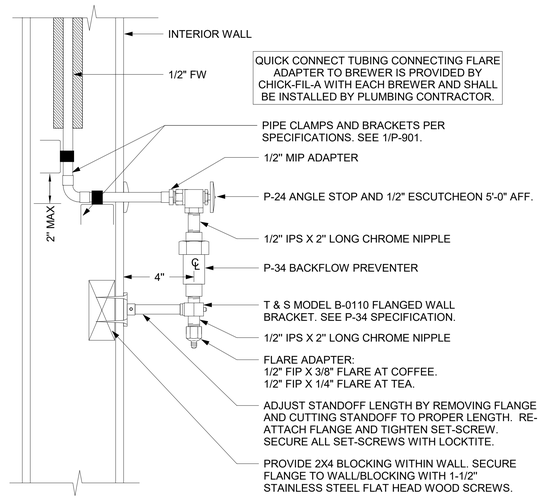


1 BEVERAGE CONDUIT PIPING PLAN
1/4" = 1'-0"

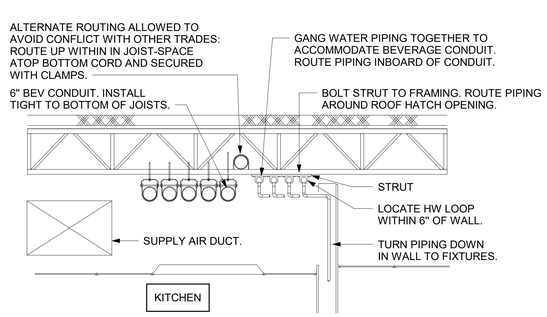
CO2 FILL BOX, FILL TUBING, AND VENT LINE SET PROVIDED BY CHICK-FIL-A AND INSTALLED BY GC. GC TO COORDINATE REQUIRED LENGTH OF TUBING AND LINE SET FROM FILL BOX TO TANK LOCATION WITH TMS; LENGTH NOT TO EXCEED 100 FT. FINAL CONNECTION BY CO2 VENDOR.



5 CO2 FILL/VENT CONDUIT AND FILL-BOX INSTALLATION
NOT TO SCALE



4 COFFEE & TEA BREWER STOP & BFP
1/4" = 1'-0"



3 SECTION AT WET WALL
NOT TO SCALE

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30349-2998

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CHICK-FIL-A HUNT CLUB

2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571

BUILDING TYPE / SIZE: P13 SE ALL
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NO.	DATE	DESCRIPTION
1	06/15/22	Bulletin 1

CONSULTANT PROJECT # 2021223.29
DATE 12/08/21
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SHEET
BEVERAGE CONDUIT PLAN

SHEET NUMBER
P-211

7/18/2022 3:58:20 PM BIM 360://FL_04571_Hunt Club_2021.11_FSR\04571_Hunt Club_PLB.rvt
40-SE-04571-P-211-BEVERAGE CONDUIT PLAN

ORDER CANOPY ELECTRICAL KEYNOTES:

B1 CEILING LIGHT PROVIDED BY CANOPY SUPPLIER AND INSTALLED BY E.C.

B2 (2) 2" UNDERGROUND SCH40 PVC CONDUIT FOR MENU BOARD FIBER. PROVIDE PULL STRING. STUB UP INTO ACCESSIBLE CEILING SPACE AT DTT CLOSET.

B3 AIR CIRCULATING FAN (WITH INTEGRAL ON-OFF SWITCH) PROVIDED BY OTHERS. PROVIDE A DUPLEX OUTLET (WITH IN-USE COVER PLATE) FLUSH MOUNTED IN CUT-OUT AT TOP OF COLUMN FOR FAN'S PLUG AND CORD. OUTLET TO BE ON DOWNSTREAM SIDE OF COLUMN AND AWAY FROM ONCOMING VEHICLES' VIEW.

B5 MENUBOARD PROVIDED BY OTHERS.

B6 PROVIDE IN-GROUND QUASITE PULLBOX FOR MLOP DATA CABLES WITH POWER NEMA 3R JUNCTION BOX MOUNTED INSIDE THE PULLBOX.

B7 2" UNDERGROUND SCH40 PVC CONDUIT WITH POWER CIRCUITS, SEE WIRING SCHEMATIC.

B8 2" EMPTY UNDERGROUND SCH40 PVC CONDUIT FOR OWNER'S DETECTOR LOOP CABLES. EXTEND CONDUITS UP INTO ACCESSIBLE CEILING SPACE ABOVE THE HME BOX IN THE DRIVE THRU AREA.

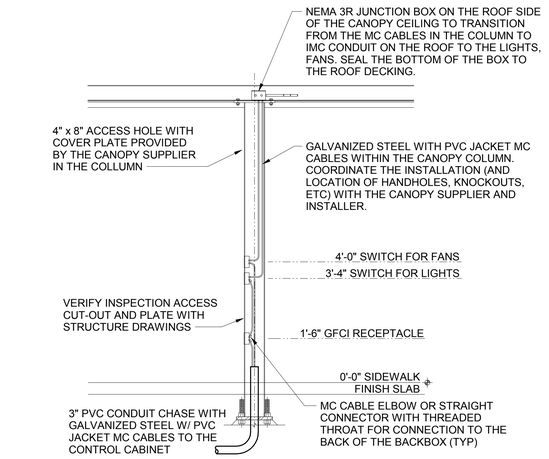
B9 1" EMPTY UNDERGROUND SCH40 PVC CONDUIT FOR OWNER'S AUDIO SYSTEM/DETECTOR LOOP CABLES.

B10 INSTALL UNDERGROUND 3" SCH40 PVC CONDUIT UP INTO THE CANOPY COLUMN WITH TYPE MC CABLE (GALVANIZED STEEL WITH PVC JACKET) RUN WITHIN FOR THE 120V POWER FOR LIGHTS, 120 VOLT POWER FOR FANS.

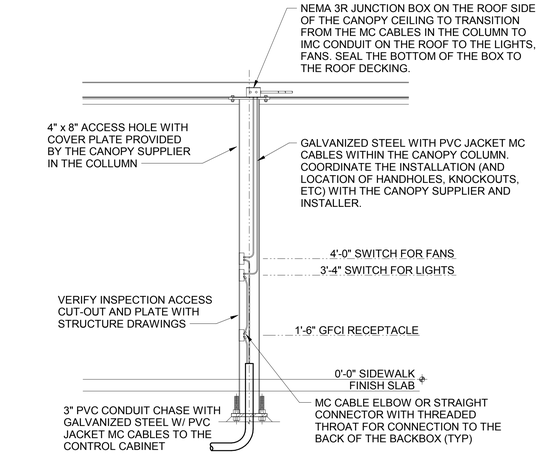
B11 2" CONDUIT FROM DRIVE-THRU MENU BOARD TO DUMPSTER ENCLOSURE ROOM FOR WIFI AND CAMERA CABLES.

B12 PROVIDE ONE DUPLEX GFCI (WITH IN-USE WP COVER PLATE), TWO 120V SINGLE-POLE SWITCHES (EACH WITH HUBBELL #RW51550 WP COVER PLATE), AND ONE DUPLEX SINGLE-POLE SWITCH (WITH HUBBELL #RW51470 WP COVER PLATE) MOUNTED ON THE COLUMN IN FLUSH MOUNTED METAL SINGLE GANG BOXES FOR LOCAL ON-OFF CONTROL OF THE FAN, AND CANOPY LIGHTS. SEE WIRING SCHEMATIC AND CANOPY COLUMN DETAILS FOR FURTHER INFORMATION. ALL SURFACE MOUNTED ITEMS AND COVER PLATES TO BE FIELD PAINTED MATTE BLACK.

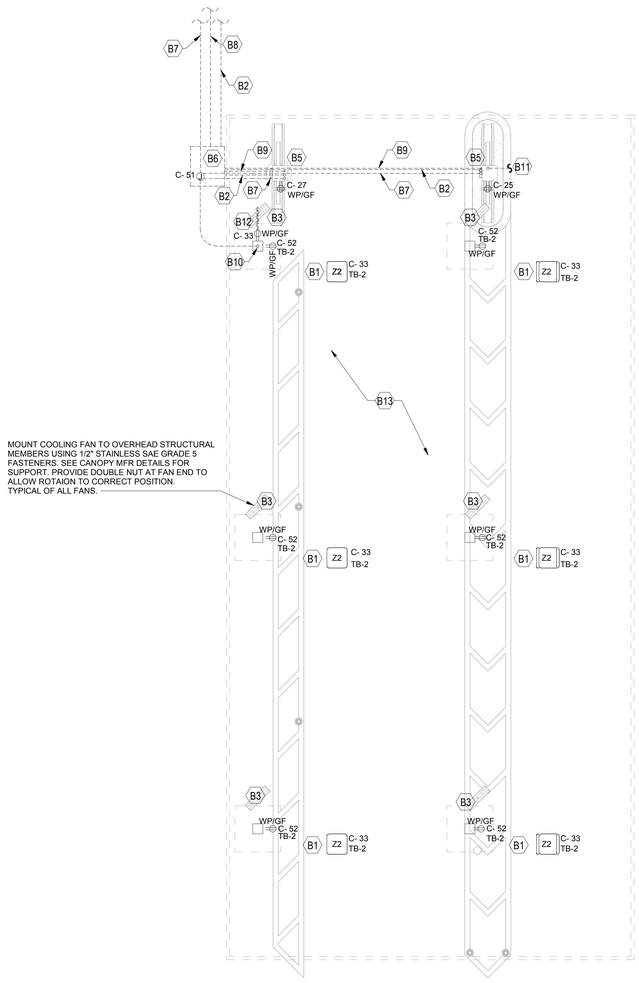
B13 ALL CONDUIT AND BOXES SHALL BE CONCEALED FROM NORMAL VIEW; UNDERGROUND, IN COLUMNS, OR ABOVE THE CANOPY (ON THE ROOF). MC CABLE (GALVANIZED STEEL WITH PVC JACKET) TO BE USED INSIDE THE COLUMNS, BUT MUST CONVERT BACK TO IMC ABOVE THE ROOF. REFER TO THE MECHANICAL DRAWINGS FOR LOCATIONS OF GAS PIPING ABOVE THE ROOF AND INSTALL CONDUIT ALONG THE SAME LOCATIONS USING THE SAME PIPE STAND FOR PIPING AND CONDUIT. ALL EXPOSED ELECTRICAL BOXES TO BE NEMA 3R CAST-METAL.



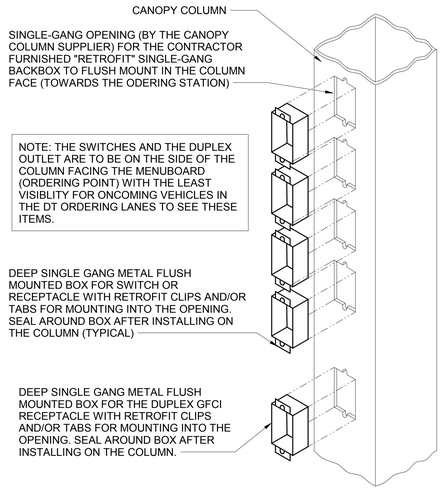
D2 MLOP ORDER CANOPY COLUMN SECTION
N.T.S.



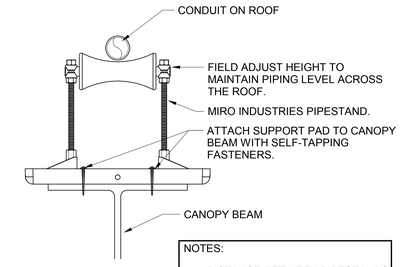
D1 MEAL DELIVERY CANOPY COLUMN SECTION
N.T.S.



B4 MLOP ORDER CANOPY POWER PLAN
1/4" = 1'-0"

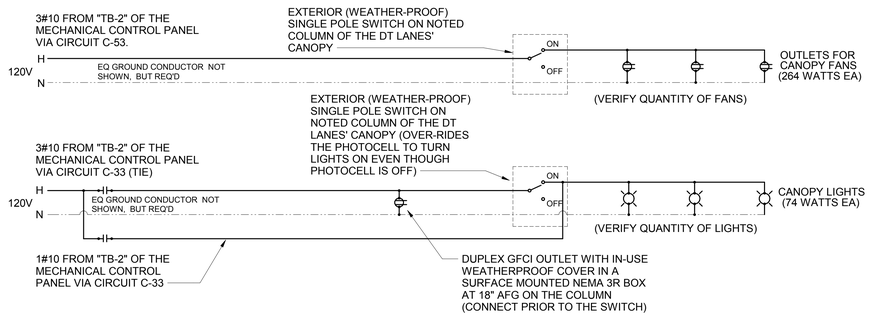


C3 CANOPY COLUMN ISOMETRIC
N.T.S.



NOTES:
1. DISTANCE BETWEEN PIPESTANDS NOT TO EXCEED 8'-0".
2. EC TO PROVIDE DUAL LEVEL SUPPORT TO ACCOMMODATE CONDUIT.

C1 PIPING SUPPORT ON CANOPY
1/4" = 1'-0"



A1 MEAL DELIVERY CANOPY POWER WIRING SCHEMATIC
N.T.S.

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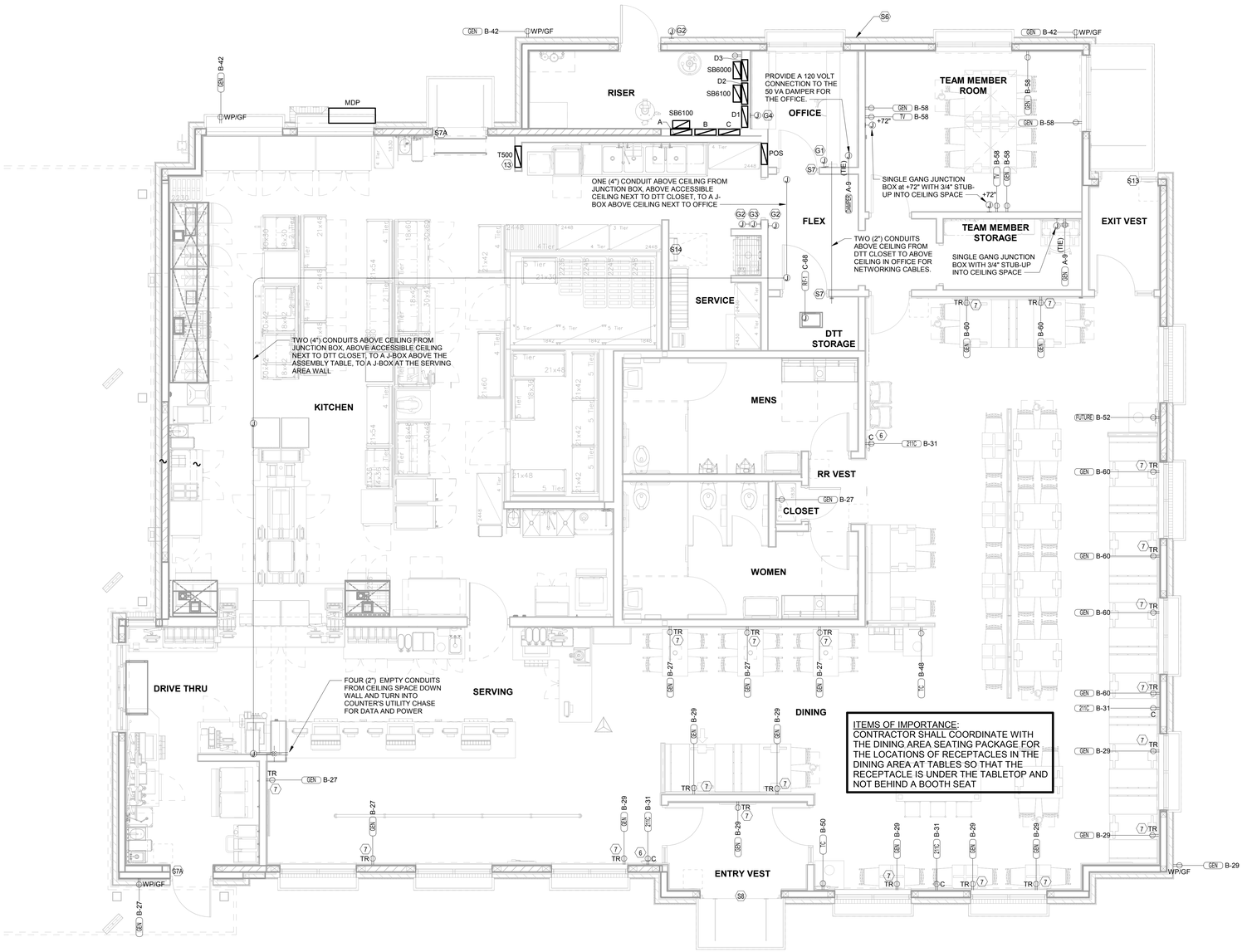
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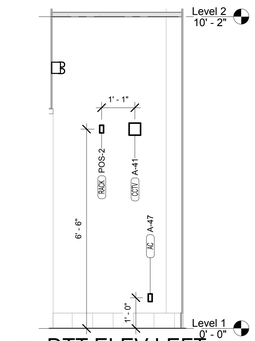
SHEET
ORDER CANOPY PLAN AND DETAILS

SHEET NUMBER
E-304

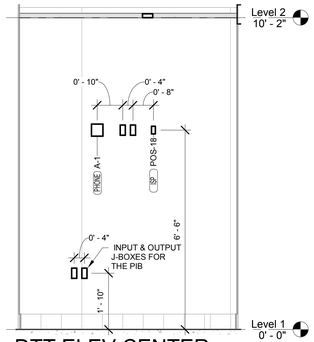
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50-SE-04571-E-304-ORDER CANOPY PLAN AND DETAILS



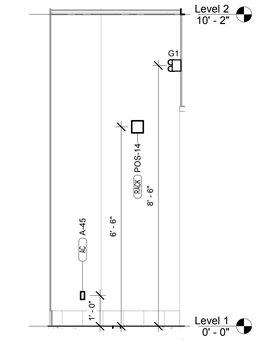
B1 POWER AND SYSTEMS PLAN - LRG
1/4" = 1'-0"



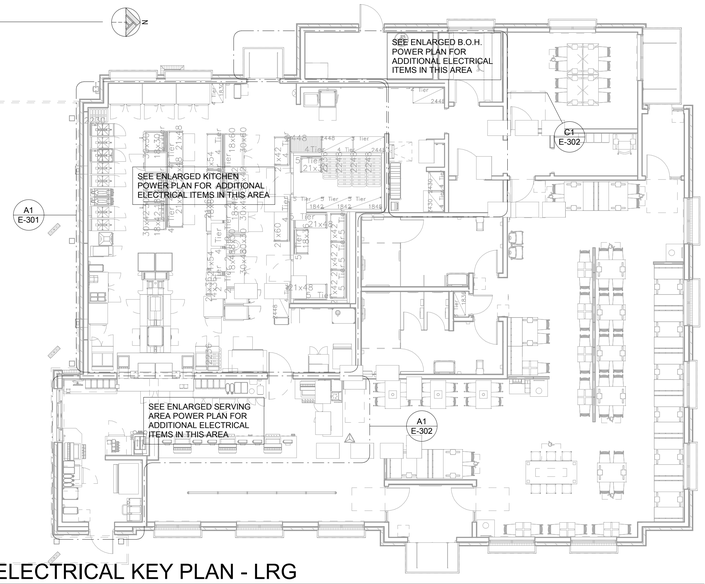
A4 DTT ELEV LEFT
1/2" = 1'-0"



A3 DTT ELEV CENTER
1/2" = 1'-0"



A2 DTT ELEV RIGHT
1/2" = 1'-0"



A1 ELECTRICAL KEY PLAN - LRG
1/8" = 1'-0"

POWER PLAN KEYNOTES

6 PROVIDE DUPLEX RECEPTACLE (SEE ELEVATIONS FOR MTG HT) IN AN ARLINGTON #DFR2W DOUBLE-GANG RECESSED BOX FOR THE FLYLIGHT SYSTEM ITEMS. DO NOT CUT THE CORDSET FURNISHED WITH THE UNIT, BUT COIL THE CORD ON THE BACK OF THE UNIT AND TUCK INTO THE BACKBOX.

7 TAMPER RESISTANT (TR) DUPLEX RECEPTACLE (IN DINING AREAS) WITH USB CHARGER SHALL BE COOPER/ARROW HART #TR7756-B (BROWN) WITH MATCHING COLOR 'DECOR' STYLE PLATE. VERIFY COLOR WITH OWNER.

13 THE STORE OPEN-CLOSE UNIT SWITCH IS FURNISHED WITH THE CFA-T500 CONTROL PANEL AND FACTORY INSTALLED IN THE DOOR OF THE CFA-T500 CABINET.

SECURITY KEYNOTES

S6 PROVIDE A 1/2" CONDUIT THRU THE EXTERIOR WALL AND STUBBED INTO THE ACCESSIBLE CEILING SPACE FOR THE EXTERIOR WALL MOUNTED AUDIO-VISUAL ALARM NOTIFICATION DEVICE. VERIFY LOCATION WITH THE EXTERIOR ELEVATIONS AND WITH THE SECURITY INSTALLER - TYPICALLY TO BE LOCATED NEAR THE FIRE PROTECTION SYSTEM'S EXTERIOR ALARM UNIT AND VISIBLE FROM THE STREET.

S7 EXTEND 1/2" RIGID CONDUIT FROM TOP OF STRIKE-SIDE DOOR FRAME CHANNEL TO ABOVE ACCESSIBLE CEILING.

S7A EXTEND 3/4" RIGID CONDUIT FROM TOP OF STRIKE-SIDE DOOR FRAME CHANNEL TO ABOVE ACCESSIBLE CEILING.

S8 EXTEND 1/2" CONDUIT FROM A POINT 3" WITHIN EITHER HINGE-SIDE DOOR VERTICAL FRAME MULLION TO ABOVE ACCESSIBLE CEILING.

S13 EXTEND 1/2" CONDUIT FROM A POINT 3" INSIDE THE STRIKE-SIDE DOOR FRAME MULLION TO ABOVE ACCESSIBLE CEILING.

S14 PROVIDE JUNCTION BOX ON THE LATCH SIDE OF THE ROOF ACCESS HATCH WITH 1/2" CONDUIT ABOVE THE CEILING TO AN ACCESSIBLE CEILING SPACE FOR A DOOR CONTACT.

CO2 DETECTOR NOTES

G1 CO2 CENTRAL CONTROL UNIT - PROVIDE SINGLE-GANG BACKBOX AT 60" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE

G2 CO2 ANNUNCIATOR UNIT - PROVIDE SINGLE-GANG BACKBOX AT 60" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE

G3 CO2 SENSOR UNIT - PROVIDE SINGLE-GANG BACKBOX AT 12" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE

G4 CO2 POWER SUPPLY - PROVIDE SINGLE-GANG BACKBOX AT 18" BELOW CEILING WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE. PROVIDE DUPLEX OUTLET, AND CONNECT TO A LOCAL GENERAL OUTLET CIRCUIT. FIELD VERIFY EXACT LOCATION WITH STRONG SYSTEMS 800-500-5566

POWER PLAN GENERAL NOTES

1. ALL SECURITY, POS, MUSIC, COMMUNICATIONS, AND POWER ROUGH-IN SHALL BE INSTALLED DURING THE FRAMING/ROUGH-IN PHASE OF CONSTRUCTION.
2. REFER TO KITCHEN EQUIPMENT SHEETS FOR EQUIPMENT ELECTRICAL ROUGH-IN ELEVATIONS ABOVE FINISHED FLOOR.
3. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRING.
4. PROVIDE INSULATED BUSHING AT TERMINATION POINTS OF ALL CONDUITS FOR LOW VOLTAGE WIRING.
5. THE ELECTRICAL INSTALLER SHALL COORDINATE THE ROUTING OF ALL CONDUIT IN THE BUILDING WITH OTHER TRADES (SPECIFICALLY THE DUCTWORK INSTALLATION) TO AVOID CONFLICTS OF SPACE REQUIREMENTS IN WALLS AND CEILING SPACES.

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SHEET
POWER AND SYSTEMS PLAN

SHEET NUMBER
E-221L

5/23/2022 9:32:29 AM BIM 360://FL_04571_Hunt Club_2021.11_FSR/04571_Hunt Club_ELE.rvt
50-SE-04571-E-221L-POWER AND SYSTEMS PLAN

ELECTRICAL SITE PLAN KEYNOTES

(APPLIES TO THE ELECTRICAL SITE PLAN ONLY)

1. PROPOSED LOCATION OF PRIMARY UNDERGROUND ELECTRICAL UTILITY LINES.
2. PROPOSED LOCATION OF PAD MOUNTED TRANSFORMER FURNISHED BY THE ELECTRICAL UTILITY COMPANY. THE ELECTRICAL CONTRACTOR SHALL PROVIDE:
   A. PROVIDE THREE 4", SCH. 40 PVC CONDUIT TO UTILITY SOURCE, AT MINIMUM 30" BELOW FINISHED GRADE AND IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS. COORDINATE ALL REQUIREMENTS WITH THE UTILITY COMPANY PRIOR TO BID.
   B. SECONDARY SERVICE LATERAL FROM UTILITY TRANSFORMER TO PANEL 'MDP' VIA THE CURRENT TRANSFORMER CABINET. SEE SHEET E-502, "SINGLE-LINE DIAGRAM". REFER TO "ELECTRICAL SERVICE LATERAL CONDUIT DETAIL", SHEET E-101, FOR ADDITIONAL INFORMATION.
   C. CONCRETE PAD FOR UTILITY TRANSFORMER IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.
   D. METERING CONDUIT. SEE NOTE-14.
3. LOCATION OF TERMINATION OF SECONDARY SERVICE LATERAL AT PANEL 'MDP'. REFER TO "SINGLE-LINE
4. A. PROVIDE TWO 2" SCH. 40 PVC CONDUIT (ONE IS A SPARE), MINIMUM 24" BELOW FINISHED GRADE, FOR TELEPHONE SERVICE FROM TELEPHONE UTILITY SOURCE TO JUNCTION BOX INSIDE THE BUILDING. REFER TO SHEET E-221 FOR LOCATION OF JUNCTION BOX IN SERVICE AREA. REFER TO "TELEPHONE SERVICE CONDUIT DETAIL", SHEET E-101, FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION OF UTILITY SOURCE WITH TELEPHONE UTILITY. TERMINATE CONDUITS AT UTILITY SOURCE AS REQUIRED BY THE UTILITY COMPANY.
   B. PROVIDE ONE 3" SCH. 40 PVC CONDUIT, MINIMUM 24" BELOW FINISHED GRADE, FOR ISP SERVICE FROM UTILITY SOURCE TO JUNCTION BOX INSIDE THE BUILDING. REFER TO SHEET E-221 FOR LOCATION OF JUNCTION BOX IN BUILDING. REFER TO "TELEPHONE SERVICE CONDUIT DETAIL", SHEET E-101, FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION OF UTILITY SOURCE WITH SERVICE SUPPLY COMPANY. TERMINATE CONDUITS AT AS REQUIRED BY THE UTILITY COMPANY.
5. LOCATION OF DUMPSTER. REFER TO "REFUSE ENCLOSURE PLAN - ELECTRICAL", SHEET E-303 FOR ELECTRICAL REQUIREMENTS IN THIS AREA.
6. REFER TO SHEET E-303 FOR ELECTRICAL REQUIREMENTS AT MENU BOARD, DRIVE-THRU CANOPY, AND PRESELL MENU BOARD.
7. REFER TO SHEETS E-901, & E-902 FOR ELECTRICAL SPECIFICATIONS PERTAINING TO ELECTRICAL WORK DESCRIBED ON THIS SHEET.
8. REFER TO SHEET E-211 FOR LIGHTING FIXTURE SCHEDULE.
9. PROVIDE UNDERGROUND CONDUIT TO JUNCTION BOX IN OFFICE FOR POLE MOUNTED SECURITY CAMERA. REFER TO SHEET E-302 FOR LOCATION OF JUNCTION BOX IN OFFICE AND REQUIRED SIZE OF CONDUIT. COORDINATE EXACT CAMERA LOCATION WITH CHICK-FIL-A SECURITY SYSTEM REPRESENTATIVE PRIOR TO ROUGH-IN.
10. CONNECT SITE LIGHTING CIRCUITS TO TERMINAL BLOCKS LOCATED IN THE "CFA-T500" CONTROL PANEL (TYPICAL). SEE PANEL SCHEDULES ON SHEET E-501.
11. CONNECT SITE SIGNAGE CIRCUITS TO TERMINAL BLOCKS LOCATED IN THE "CFA-T500" CONTROL PANEL (TYPICAL). SEE PANEL SCHEDULES ON SHEET E-501. COORDINATE LOCATIONS OF ALL SIGNS WITH CHICK-FIL-A REPRESENTATIVE PRIOR TO BID AND PRIOR TO CONDUIT INSTALLATION.
12. PROVIDE GFCI TYPE WEATHERPROOF RECEPTACLE MOUNTED ON MAIN SIGN SUPPORT +14" AFG. THIS RECEPTACLE SHALL NOT BE SWITCHED. (BYPASS THE CONTACTOR AND SIGN'S DISCONNECT SWITCH.)
13. PROVIDE WEATHERPROOF 20A SPST TOGGLE SWITCH 18" AFG AND CONNECTION TO MAINTENANCE DISCONNECT SWITCH FOR MAIN I.D. SIGN.
14. PROPOSED LOCATION OF BUILDING MOUNTED ELECTRICAL UTILITY METER. METER BASE WILL BE FURNISHED BY THE UTILITY COMPANY AND INSTALLED BY THE CONTRACTOR. THE CURRENT TRANSFORMER CABINET SHALL BE FURNISHED AND INSTALLED ON THE BUILDING BY THE CONTRACTOR. THE CONTRACTOR SHALL ALSO FURNISH AND INSTALL A 1-1/4" RIGID GALVANIZED CONDUIT BETWEEN METER BASE AND CURRENT TRANSFORMER CABINET. COORDINATE LOCATIONS AND REQUIREMENTS WITH ELECTRIC UTILITY COMPANY PRIOR TO BID.
15. PROVIDE A 12' POLE FOR MOUNTING OF SECURITY CAMERA. POLE TO MATCH SITE LIGHTING POLES IN STYLE AND COLOR. PROVIDE UNDERGROUND CONDUIT TO JUNCTION BOX IN OFFICE FOR POLE MOUNTED SECURITY CAMERA. REFER TO SHEET E-302 FOR LOCATION FOR JUNCTION BOX IN OFFICE AND REQUIRED SIZE OF CONDUIT. COORDINATE EXACT CAMERA LOCATION WITH CHIC-FIL-A SECURITY SYSTEM REPRESENTATIVE PRIOR TO ROUGH-IN.

GENERAL ELECTRICAL SITE PLAN NOTES

(APPLIES TO THE ELECTRICAL SITE PLAN ONLY)

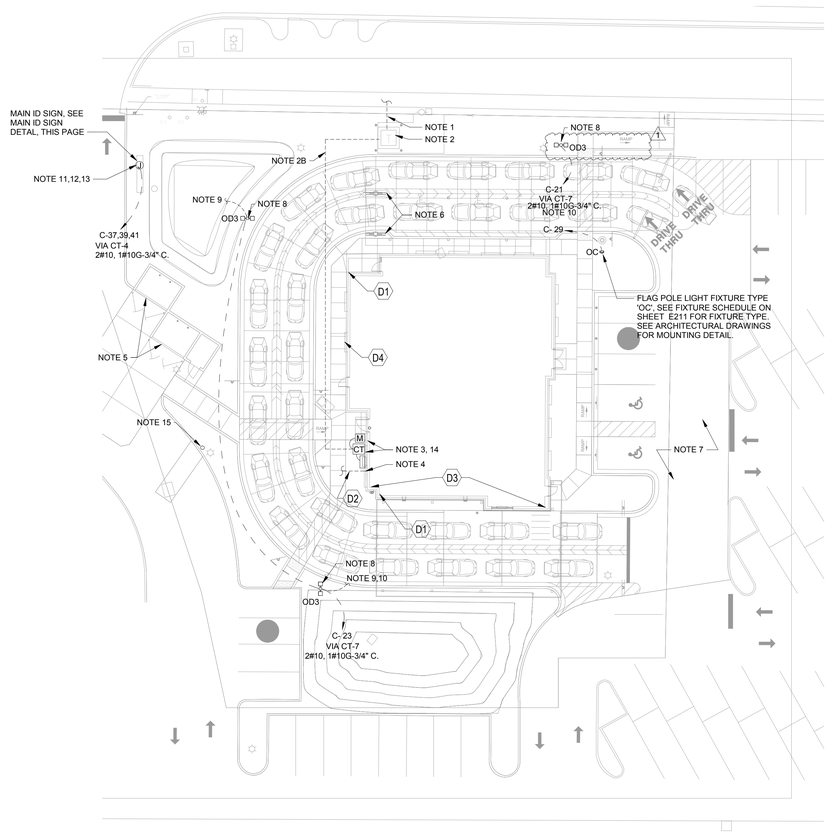
1. VERIFY WITH LOCAL AUTHORITIES AND UTILITIES THAT OWNER'S SIGNS, POLES, AND THEIR APPURTENANCES ARE NOT LOCATED ON OR OVER ANY EASEMENT OR MUNICIPAL RIGHT OF WAY.
2. SITE WORK, UTILITY, AND ROADWAY INFORMATION ARE TAKEN FROM BOUNDARY AND TOPO SURVEY SITE PLANS. REFER TO C-DRAWINGS.
3. MINIMUM CONDUIT SIZE SHALL BE 3/4"C. MINIMUM CONDUCTOR SIZE SHALL BE #10AWG COPPER UNLESS OTHERWISE NOTED.
4. REFER TO BUILDING ELECTRICAL DRAWINGS FOR EXTERIOR LIGHTING CONTROL.
5. FOR WORK UNDER THIS DIVISION, ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ONLY NEW AND U.L. LABELED ELECTRICAL EQUIPMENT, UNLESS INDICATED OTHERWISE BY THE CONTRACT DOCUMENTS.
6. FOR WORK UNDER THIS DIVISION, ELECTRICAL CONTRACTOR SHALL CONTACT ALL UTILITIES FOR VERIFICATION AND IDENTIFICATION OF ALL UNDERGROUND RUNS, PRIOR TO SITE TRENCHING ("CALL BEFORE YOU DIG").
7. FOR WORK UNDER THIS DIVISION, ELECTRICAL CONTRACTOR SHALL PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE (NFPA 70), AND THE LIFE SAFETY CODE (NFPA 101), AS ADOPTED AND/ OR AMENDED BY STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
8. FOR WORK UNDER THIS DIVISION, ELECTRICAL CONTRACTOR SHALL COORDINATE AND FIELD VERIFY LOCATIONS OF ALL UTILITY SERVICE RUNS, ORIGINATIONS, TERMINATIONS AND ANY INSTALLATION REQUIREMENTS (i.e. ELECTRICAL, TELEPHONE, WATER, GAS, SEWAGE, ETC.), AS RELATED TO THIS JOB, OR THEREBY EFFECTED.

POWER/TELEPHONE UTILITIES:

COORDINATE AND COMPLY WITH ALL TELEPHONE AND ELECTRICAL UTILITY REQUIREMENTS. THE FOLLOWING PERSONS SHALL BE CONTACTED FOR SPECIFIC UTILITY COMPANY REQUIREMENTS:

ELECTRICAL UTILITY: DUKE ENERGY
877-372-8477

TELEPHONE UTILITY : AT&T
888-944-0447



DT CASH STATION - KEYNOTES

- D1 LOCATION OF A 360 DEGREE BUILDING MOUNTED EXTERIOR CAMERA (BY OTHERS). PROVIDE A 3/4" CONDUIT AT 9'-4" AFF TO AN EXTERIOR WALL MOUNTED WP JUNCTION BOX WITH THE CONDUIT ABOVE THE INTERIOR CEILING AND EXTENDED TO AN ACCESSIBLE CEILING AREA FOR CAMERA CABLES BY OTHERS.
- D2 PROVIDE AN EXTERIOR DUPLEX 120V, 20A RECEPTACLE AT 18"AFF WITH 'IN-USE' STYLE LOCKABLE WP COVER AND CONNECT TO A GENERAL PURPOSE 120V RECEPTACLE CIRCUIT.
- D3 PROVIDE A JUNCTION BOX ON THE INSIDE PARAPET WALL ABOVE THE ROOF WITH A 3/4" CONDUIT STUBBED DOWN INTO AN ACCESSIBLE CEILING SPACE AREA BELOW FOR THE OWNER PROVIDED WI-FI EXTERIOR ANTENNAE.
- D4 LOCATION OF BUILDING MOUNTED OMD CAMERA. PROVIDE 3/4" CONDUIT AT 9'-4" AFF TO THE CONDUIT ABOVE THE INTERIOR CEILING AND EXTENDED TO AN ACCESSIBLE CEILING AREA FOR CAMERA CABLES.

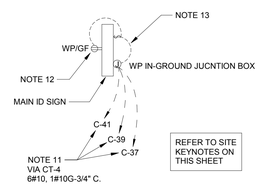
C1 ELECTRICAL SITE PLAN

1" = 20'-0"

N

ELECTRICAL SITE PLAN SYMBOLS

SYMBOL	DESCRIPTION (UNLESS OTHERWISE NOTED ON PLANS)
T	UTILITY COMPANY TRANSFORMER, (208 VOLT, 3 PHASE, 4 WIRE SECONDARY)
$	S.P.S.T. LIGHT SWITCH (600V AC QUIET TYPE)
GF	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE
	CONDUIT HOMERUN TO PANEL
J	JUNCTION BOX (SINGLE GANG STEEL WHERE WALL MOUNTED, 4" SQ. STEEL WHERE CEILING MOUNTED, UNLESS NOTED OTHERWISE)
	CONDUIT BURIED BELOW GRADE
	POLE MOUNTED SITE LIGHTING FIXTURE.



A1 MAIN ID SIGN DETAIL

N.T.S.

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

GPD GROUP, INC.
LIC. # - 30920
520 S. MAIN STREET, SUITE 2531
AKRON, OH 44311

CHICK-FIL-A HUNT CLUB

2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571

BUILDING TYPE / SIZE: P13 SE ALL
RELEASE: v2_21.08
PRINTED FOR
ISSUED FOR CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	06/07/2022	Bulletin 1

CONSULTANT PROJECT # 2021223.29
DATE 06/10/22
DRAWN BY JPW

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SHEET
ELECTRICAL SITE PLAN

SHEET NUMBER
E-100

7/14/2022 4:59:05 PM BIM 360://FL_04571_Hunt Club_2021.11_FSR/04571_Hunt Club_ELE.rvt
50-SE-04571-E-100-ELECTRICAL SITE PLAN

SEQUENCE OF OPERATION

STORE SWITCH IN "STORE OPEN" POSITION

A. COOLING FANS ARE ENABLED.
B. LIGHTS ARE ENABLED.
C. MASTER AUTO/OFF SWITCH FOR IR HEATERS AND COOLING FANS. PROVIDE SINGLE POINT ON/OFF CONTROL.

STORE SWITCH IN "STORE CLOSED" POSITION

A. COOLING FANS ARE DISABLED.
B. LIGHTS ARE DISABLED.

NOTES

1. CONTRACTOR SHALL PURCHASE CONTROL PANEL DIRECT FROM SUNCOAST ENVIRONMENTAL CONTROLS (727-544-6679).
2. COORDINATE WITH GC TO ESTABLISH LOCATION TO MOUNT PANEL IN A CONDITIONED SPACE INSIDE THE BUILDING. SUGGESTED LOCATION IS SURFACE MOUNTED DIRECTLY ABOVE THE LOCATION OF THE CFA-T500 CONTROL PANEL.
3. THE SUNCOAST ENVIRONMENTAL CONTROLS (SEC) IS TO BE SURFACE MOUNTED, UNLESS OTHERWISE REQUESTED TO SUNCOAST.
4. PROVIDE LAMINATED LEGEND SHOWING NAMED LOCATIONS OF FANS. MOUNT LEGEND AT PANEL.

LEGEND

SEC	SUNCOAST ENVIRONMENTAL CONTROLS (SUPPLIER OF CONTROL PANELS)
- - - - -	LOW VOLTAGE BY CONTRACTOR
—·—·—	LOW VOLTAGE WIRING BY SUNCOAST
———	120 VOLT BY CONTRACTOR
—▪—▪—	120 VOLT BY SUNCOAST

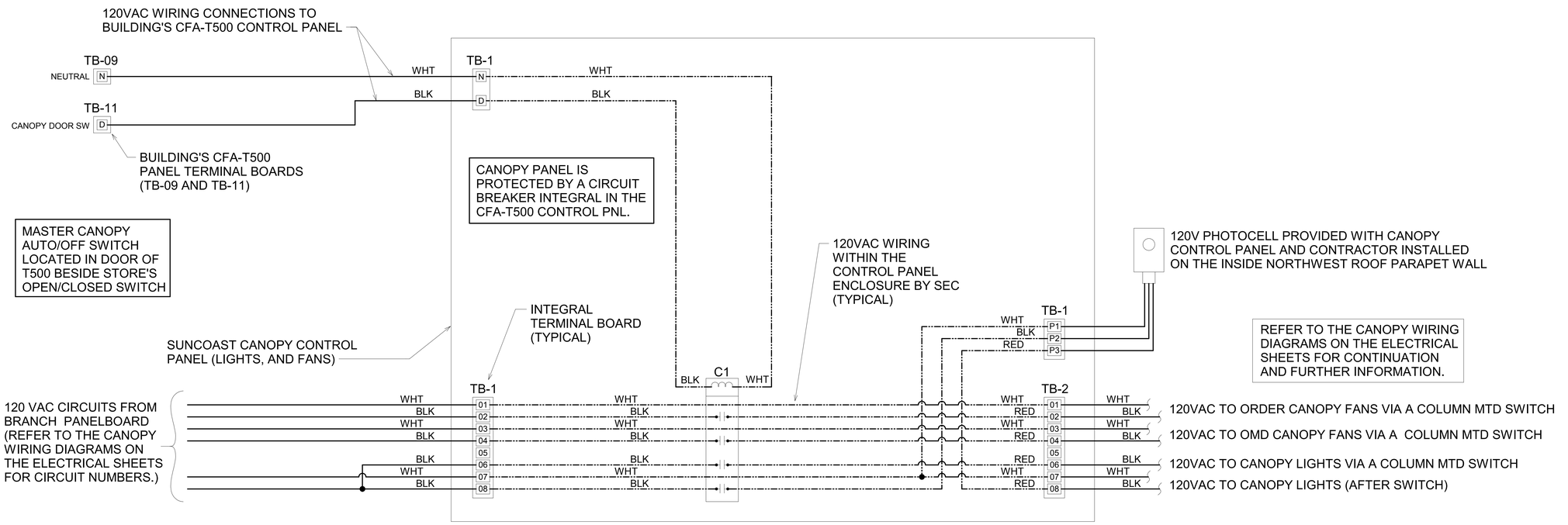
SUNCOAST RELAYS CONTACTORS SHOWN IN DE-ENERGIZED "STORE UNOCCUPIED" CONDITION. RELAYS AND CONTACTORS FACTORY INSTALLED BY SEC IN CONTROL PANEL. RELAYS AND CONTACTORS ENERGIZED VIA "STORE OPEN/CLOSED" SWITCH.

CIRCULATING FAN SCHEDULE

MARK	CFM	RPM	HP	MODEL	MANUFACTURER
CF	5,750	1,625	1/8	U18TE-HD	TPI

REMARKS:
1. ALUMINUM PADDLE WITH STEEL HUB/SPIDER PROPELLER.
2. 360° ROTATING HEAD HORIZONTALLY AND VERTICALLY.
3. OSHA COMPLIANT DOUBLE LOCKING, COATED STEEL WIRE GUARD.
4. 3-SPEED, TOTALLY ENCLOSED, PERMANENTLY LUBRICATED BALL BEARING MOTOR.
5. FACTORY PRE-WIRED POWER CORD.
6. PROVIDE FACTORY WALL MOUNTING BRACKET. SEE FAN MOUNTING DETAIL ON CANOPY SHOP DRAWINGS FOR TYPICAL INSTALLATION INSTRUCTIONS.
7. PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. MOUNT TO UNDERSIDE OF CANOPY OR EXISTING OVERHANG, FACING DOWNWARD, 12" LATERALLY FROM THE FAN LOCATION.
8. REMOVE PULL CHAIN EXTENSION AT ON/OFF SWITCH IN THE FIELD.
9. FACTORY CERTIFIED FOR OUTDOOR INSTALLATION.

TPI FAN PACKAGE - THE CONTRACTOR IS REQUIRED TO PURCHASE THE FAN PACKAGE DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. FANS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.



A1 SUNCOAST CANOPY CONTROL PANEL WIRING DIAGRAM
NO SCALE

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

GPD GROUP, INC.
LIC. # - 30920
520 S. MAIN STREET, SUITE 2531
AKRON, OH 44311

STEVEN P. SCHAUB
LICENSE No. 75207
STEVEN P. SCHAUB LICENSE No 75207 STATE OF FLORIDA PROFESSIONAL ENGINEER
05/23/22

CHICK-FIL-A
HUNT CLUB
2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571

BUILDING TYPE / SIZE: P13 SE ALL
RELEASE: v2_21.08
PRINTED FOR
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION

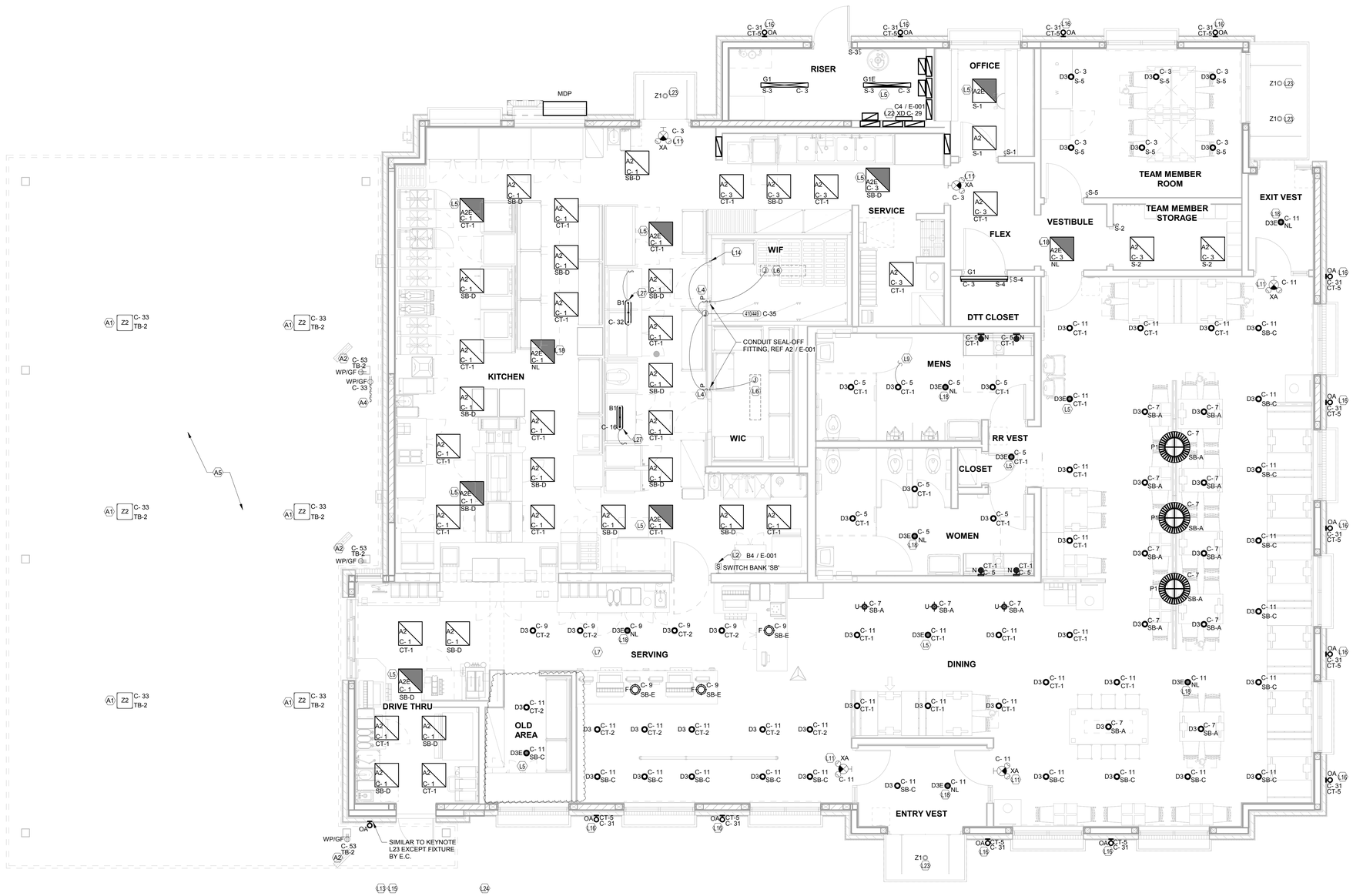
CONSULTANT PROJECT # 2021223.29
DATE 12/08/21
DRAWN BY Author

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SHEET
CANOPY CONTROL PANEL WIRING DIAGRAM

SHEET NUMBER
E-305

5/23/2022 9:33:06 AM BIM 360://FL_04571_Hunt Club_2021.11_FSR/04571_Hunt Club_ELE.rvt
50-SE-04571-E-305-CANOPY CONTROL PANEL WIRING DIAGRAM



B1 LIGHTING PLAN - LRG

1/4" = 1'-0"

LIGHTING PLAN KEYNOTES

- L2 APPROXIMATE LOCATION OF SWITCH BANK 'SB'. SEE DETAIL ON THE LIGHTING PLAN FOR MORE INFORMATION.
- L4 FOR CONTROL OF LIGHTING FIXTURE IN WALK-IN COOLER AND FREEZER. SWITCH FURNISHED WITH EQUIPMENT, INSTALLED BY ELECTRICAL CONTRACTOR.
- L5 CONNECT FIXTURE SO THAT BATTERY PACK IS NOT SWITCHED WITH LIGHTS, BUT ALL LAMPS ARE SWITCHED.
- L6 FOR CONNECTION TO LIGHTING FIXTURE IN THE WALK-IN COOLER AND FREEZER WHICH IS FURNISHED WITH EQUIPMENT. CONTRACTOR SHALL ROUGH-IN AND CONNECT ALL FIXTURES AS REQUIRED BY THE EQUIPMENT MANUFACTURER.
- L7 THE LIGHT FIXTURES IN THE SERVING AREA ARE PROVIDED WITH LAMP SHIELDING VIA A LENS.
- L9 TO THE TOILET EXHAUST FAN ON ROOF. SEE SHEET E-250, ROOF ELECTRICAL PLAN.
- L11 THIS FIXTURE SHALL NOT BE SWITCHED. CONNECT TO CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS.
- L13 SEE THE ROOF ELECTRICAL PLAN FOR LOCATION OF TYPE 'OC' ROOF MOUNTED FLAG POLE LIGHT. FIXTURE TO BE CONNECTED TO CIRCUIT C-29 THRU THE CFA-T500 CONTROL PANEL CONTACTOR #9 (AHEAD OF THE INVERTER, NOT THRU THE INVERTER.)
- L14 TO WALK-IN FREEZER DOOR FRAME HEATER AND AIR RELIEF ASSEMBLY (PRESSURE REDUCTION VALVE - PRV), THRU SEAL-OFF FITTING. VERIFY ROUGH-IN AND FINAL CONNECTION WITH EQUIPMENT.
- L15 SEE THE SITE ELECTRICAL PLAN FOR LOCATION OF TYPE 'OC' GROUND MOUNTED FLAG POLE LIGHT. FIXTURE TO BE CONNECTED TO CIRCUIT C-29 THRU THE CFA-T500 CONTROL PANEL CONTACTOR #9 (AHEAD OF THE INVERTER, NOT THRU THE INVERTER.)
- L16 ROUTE THROUGH CONTROL PANEL CFA-T500 AND CONTROLLED BY OCCUPIED SWITCH AND PHOTOCELL.
- L18 CONNECT LIGHTING FIXTURE SO THAT LAMP BALLAST OR DRIVER AND EMERGENCY BATTERY PACK ARE NOT SWITCHED. 'NL' ADJACENT TO FIXTURE INDICATES THAT FIXTURE SHALL BE ON 24 HOURS.
- L22 TYPE 'XD' INVERTER CABINET TO BE WALL MOUNTED AT THE CEILING AND CONNECTED TO CIRCUIT C-29 THRU THE CFA-T500'S CONTACTOR #9 (DUSK TO DAWN CONTROL). CONNECT WITH BOTH A CONTROLLED (VIA THE CONTACTOR FOR LIGHTS ON AT DUSK AND OFF AT DAWN) LEG AND AN UNSWITCHED LEG FOR THE BATTERY IN THE INVERTER. WHEN POWER IS DISRUPTED ON THE UNSWITCHED LEG, THEN THE INVERTER'S BATTERY WILL ENERGIZE THE LIGHTS CONNECTED TO THE INVERTER NO MATTER THE TIME OF DAY. PROVIDE CONNECTIONS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- L23 CANOPY LIGHTS PROVIDED BY THE CANOPY SUPPLIER INTEGRAL WITH THE CANOPY. ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN CONDUIT CHASE AT CL OF AWNING AND AT 10'-0" AFF (VERIFY) AND CONNECT THE 120V CIRCUIT TO THE 'XD' INVERTER UNIT. COORDINATE LOCATIONS OF LIGHTS AND ROUGH-IN REQUIREMENTS WITH THE CANOPY SUPPLIER. LIGHTS WILL COME ON AT DUSK, TURN OFF AT DAWN, AND BE ENERGIZED WHENEVER THERE IS A POWER OUTAGE.
- L24 REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATIONS OF PENDANTS, DOWNLIGHTS, ACCENTS LIGHTS, AND OTHER CEILING MOUNTED LIGHT FIXTURES.
- L27 PROVIDE A TYPE B1 SHELF MOUNTED TASK LIGHT FIXTURE. MOUNT LIGHT TO THE UNDERSIDE OF THE WIRE SHELVING. PROVIDE A CORD FROM THE FIXTURE(S) TO A SWITCH IN AN FS BOX MOUNTED TO THE SHELF. FROM FS BOX PROVIDE AN SO CORD WITH PLUG AND CONNECT TO THE GEN RECEPTACLE (WALL OR DROP CORD). SEE ENLARGED POWER PLAN FOR FURTHER INFORMATION.

OMD CANOPY KEYNOTES:

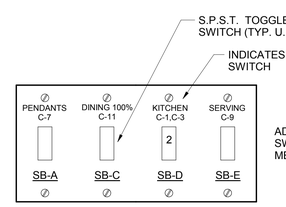
- A1 CEILING LIGHT FIXTURE PROVIDED BY THE CANOPY SUPPLIER AND INSTALLED BY ELECTRICAL CONTRACTOR.
- A2 AIR CIRCULATING FAN (WITH INTEGRAL ON-OFF SWITCH) PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. PROVIDE A DUPLEX RECEPTACLE OUTLET (WITH IN-USE WP COVER PLATE) AT THE TOP OF THE COLUMN FLUSH MOUNTED IN THE CUT-OUTFOR THE FAN'S PLUG AND CORD CONNECTION.
- A4 PROVIDE ONE DUPLEX GFCI (WITH IN-USE WP COVER PLATE) AND TWO 120V SINGLE-POLE SWITCHES (EACH WITH HUBBELL #RW51550 WP COVER PLATE) AND ONE DUPLEX SINGLE-POLE SWITCH (WITH HUBBELL #RW51470 WP COVER PLATE) MOUNTED IN THE COLUMN IN FLUSH MOUNTED METAL SINGLE-GANG BOXES FOR LOCAL ON-OFF CONTROL OF THE FANS, HEATERS, AND CANOPY LIGHTS. SEE WIRING SCHEMATIC FOR FURTHER INFORMATION. ALL SURFACE (OR VISIBLE) ITEMS AND COVERPLATES TO BE FIELD PAINTED MATTE BLACK.
- A5 ALL CONDUIT AND BOXES SHALL BE CONCEALED FROM NORMAL VIEW; IN WALLS OR ABOVE THE CANOPY (ON THE ROOF). MC CABLE (GALVANIZED STEEL WITH PVC JACKET) MAY BE USED INSIDE THE WALL FOR THE DEVICES, BUT MUST CONVERT TO IMC ABOVE THE CANOPY ROOF. (PROVIDE A NEMA 3R JUNCTION BOX ON THE ROOF SIDE OF THE CANOPY TO TRANSITION FROM MC CABLES IN WALL TO IMC CONDUIT ON THE ROOF.) ALL EXPOSED BOXES AND FITTINGS TO BE CAST-METAL NEMA 3R. REFER TO THE MECHANICAL SHEETS FOR CONDUIT MOUNTING DETAILS ON THE ROOF.

LIGHTING FIXTURE (LUMINAIRE) SCHEDULE - CHICK-FIL-A P13 EDITION

NOTE: NOT ALL FIXTURE TYPES ARE USED IN ALL OF THE P13 BUILDINGS. CONFIRM WITH THE LIGHTING VENDOR FOR ANY UPDATES TO THE CURRENT LIGHTING MANUFACTURER AND CATALOG NUMBER.

MARK	MANUFACTURER	CATALOG NUMBER	NO. LAMPS/TYPE	WATTS	VOLTS	MOUNTING	REMARKS
A2	COOPER/METALUX	22FP4240C	INTEGRAL WITH FIXTURE	39 VA	120 V	RECESSED	2X2 LED FLAT PANEL
A2E	COOPER/METALUX	22FP4240C	INTEGRAL WITH FIXTURE	39 VA	120 V	RECESSED	2X2 EMERGENCY LED FLAT PANEL
B1	COOPER/METALUX	2VT3-LD5-4-G-120V-L840-CD1-SSL-U	INTEGRAL WITH FIXTURE	32 VA	120 V	SURFACE	MOUNT LIGHT TO BTM OF OVERHEAD WIRE SHELVING WITH CORD & PLUG
D3	COOPER/HALO	HC620D010-HM612830-61NDC	INTEGRAL WITH FIXTURE	21 VA	120 V	RECESSED	LED DOWNLIGHT WITH CLEAR REFLECTOR & TRIM RATED 2000 LUMENS, 3000K COLOR TEMP
D3E	COOPER/HALO	HC620D010IEM14-HM612830-61NDCIEM	INTEGRAL WITH FIXTURE	21 VA	120 V	RECESSED	SAME AS 'D3' EXCEPT WITH EMERGENCY BATTERY PACK/INTEGRAL TEST SWITCH
F	MEYDA	30894-8 (144638)	1-SATS9238	12 VA	120 V	CEILING	EGG LIGHT FURNISHED WITH A 12 WATT A19-GU24 LED LAMP
G1	COOPER/METALUX	4SLSTP40400D-UNV	INTEGRAL WITH FIXTURE	44 VA	120 V	SURFACE	4760 LUMEN 4 FOOT LENSED LED STRIPLIGHT, MTD ABOVE DOOR FRAME OR CEILING
G1E	COOPER/METALUX	4SLSTP4040DD-UNV-EBPLED7W	INTEGRAL WITH FIXTURE	44 VA	120 V	SURFACE	4760 LUMEN 4 FOOT LENSED LED STRIPLIGHT W/ REMOTE MOUNT EM BATTERY PACK, MTD ABOVE DOOR FRAME OR CEILING
N	MINKA	4531-267B	1-LED11A19/827/D	11 VA	120 V	WALL	LAVATORY WALL SCONCE-SHADE POINTED DOWN W/ LED LAMP & CL ON LAVATORY
OA	PROGRESS LIGHTING	P5675-31 WITH P8799 TOP COVER LENS	2-(GE) LED12P30RW830/25	24 VA	120 V	WALL	5" DIAMETER, 14" HEIGHT, WET LOCATION, UP/DOWN CYLINDER W/ 12 WATT PAR30 3K NFL LED LAMPS
OC	HUBBELL	FLL-42L-95-4K7-N-U-K-DB (SEE NOTE 4)	INTEGRAL WITH FIXTURE	97 VA	120 V	PIPE	FLOODLIGHT MTD AT GRADE ON 2" PIPE SUPPORT (BY OTHERS) AND AIMED AT FLAG AFTER DARK
OD3	COOPER/LUMARK	LUMINAIRE: PRV-A60D-UNV-**-SA-BZ (DISTRIBUTION TYPES TO BE DETERMINED BY THE REGIONAL TEAM SPECIFIC TO THE SITE.) POLE: SSP25-4.0-7-BRZ-DM2180-BC (TWO LUMINAIRES AT 180 DEGRESS)	INTEGRAL WITH FIXTURE	306 VA	120 V	POLE W/CONCRETE BASE	COORDINATE WITH THE SPECIFIC SITE CONDITIONS FOR THE TYPE OF POLES REQUIRED, THE HEIGHT, AND THE CONFIGURATION. CONTACT VENDOR IF HIGHER THAN 100 MPH WIND LOADING REQUIRED.
OK	HUBBELL	LNC-5LU-3K-3-1	INTEGRAL WITH FIXTURE	13 VA	120 V	WALL	LED WALLPACK W/ CENTERLINE OF FIXTURE AT 8'0" ABV 0'0" (FINISH FLOOR LINE)
P1	MEYDA	142776	2-LED11A19/827/D	22 VA	120 V	PENDANT	31" DIA PEACH BASKET PENDANT WITH BTM AT 6'-3" AFF ABV TABLE, 8'-0" OTHERWISE
U	BESA LIGHTING	BES00298-060	FURNISHED	8 VA	120 V	PENDANT	RED FRIT GLASS, BRONZE CABLE & CANOPY, 6'-6" AFF
XA	COOPER/SURE-LITES	APCH7R	INTEGRAL WITH FIXTURE	4 VA	120 V	WALL	EXIT SIGN WITH BATTERY PACK AND TWO INTEGRAL ADJUSTABLE LAMPHEADS
XD	MULE LIGHTING	SPS-220/250-120/277	NONE	250 VA	120 V	WALL	INVERTER UNIT FOR EXTERIOR EGRESS LTG; ON AT DUSK, OFF AT DAWN, ON DURING PWR OUTAGE
Z1	COOPER/HALO	SLD408830WH	INTEGRAL WITH FIXTURE	12 VA	120 V	RECESSED	LED DOWNLIGHT PROVIDED BY CANOPY SUPPLIER INSTALLED BY CANOPY SUPPLIER, CONNECTION BY ELECTRICAL CONTRACTOR
Z2	LSI	CRUS-SC-LED-LW30-UE-WHT	INTEGRAL WITH FIXTURE	74 VA	120 V	RECESSED	CANOPY LIGHT PROVIDED BY CANOPY SUPPLIER AND INSTALLED BY ELECTRICAL CONTRACTOR

NOTES:
1. LUMINAIRES UTILIZING DOUBLE-ENDED LAMPS AND CONTAIN BALLAST THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS EITHER INTERNAL TO EACH LUMINAIRE PER NEC 410.130(G).
2. THE LIGHTING FIXTURE PACKAGE IS AVAILABLE THROUGH A NATIONAL ACCOUNT PROGRAM. REFER TO THE ELECTRICAL SPECIFICATIONS SHEET, SECTION C165500 FOR VENDOR INFORMATION.
3. THE ASTERICK (*) BESIDE THE FIXTURE MAKE IN THE ABOVE SCHEDULE INDICATES THE FIXTURE IS A NON-PROTOTYPCIAL LIGHT FIXTURE PER THE CFA NATIONAL P13 PROTOTYPE.
4. IF TYPE OC IS GROUND MOUNTED IN LIEU OF ROOF MOUNTED, PROVIDE EITHER THE FLL-VISOR-DB (VISOR) OR THE FLL-LOUVER-BL (LOUVER) OF GLARE CONTROL.



NOTE: LOCATE JUNCTION BOXES IN CEILING SPACE ABOVE THE LOCATION OF THE SWITCHBANK FOR SPLICING OF LINE, LOAD, AND SWITCHED CONDUCTORS. PROVIDE GANGED BACKBOX FOR SWITCHES AS REQUIRED AND LABEL ALL CONDUCTORS SO AS TO INDICATE THEIR USE (LINE, LOAD, SWITCH), THE LOAD SERVED, AND THE CIRCUIT NUMBER.

A1 SWITCH BANK "SB" DETAIL

NO SCALE

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

GPD GROUP, INC.
LIC. # - 30920
520 S. MAIN STREET, SUITE 2531
AKRON, OH 44311

CHICK-FIL-A HUNT CLUB

2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571

BUILDING TYPE / SIZE: P13 SE LRG
RELEASE: v2_21.08
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	06/07/2022	Bulletin 1

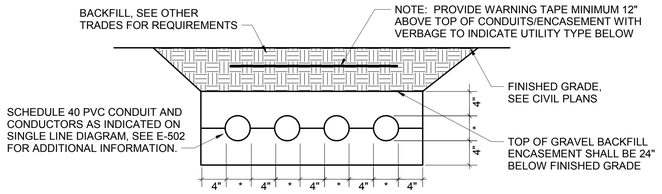
CONSULTANT PROJECT # 2021223.29
DATE 06/10/22
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SHEET
LIGHTING PLAN

SHEET NUMBER
E-211L

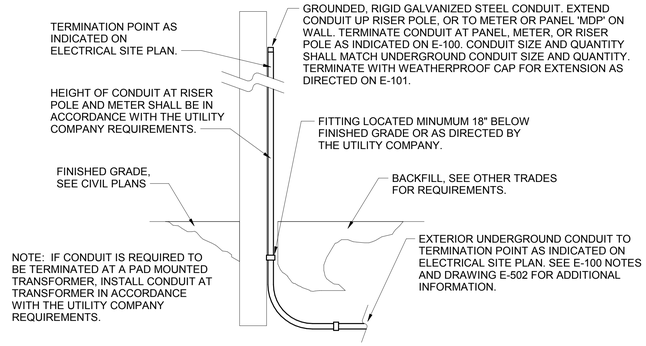
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50-SE-04571-E-211L-LIGHTING PLAN



NOTE:
WHERE THE SECONDARY CONDUITS FROM THE UTILTY TRANSFORMER TO THE CURRENT TRANSFORMER CABINET (OR MAIN PANELBOARD) ARE FURNISHED BY THE UTILITY COMPANY (FOR INSTALLATION BY THE CONTRACTOR) OR ARE FURNISHED AND INSTALLED BY THE UTILITY COMPANY, THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH THE UTILITY COMPANY PRIOR TO BID. REFER TO THE ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION.

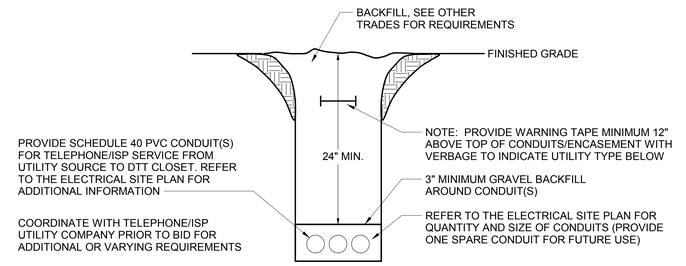
E1 ELECTRICAL SERVICE LATERAL CONDUIT DETAIL

N.T.S.



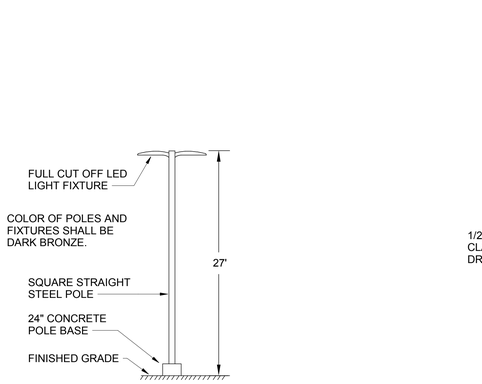
C1 EXTERIOR CONDUIT TURN UP DETAIL

N.T.S.



B1 TELEPHONE/ISP SERVICE CONDUIT DETAIL

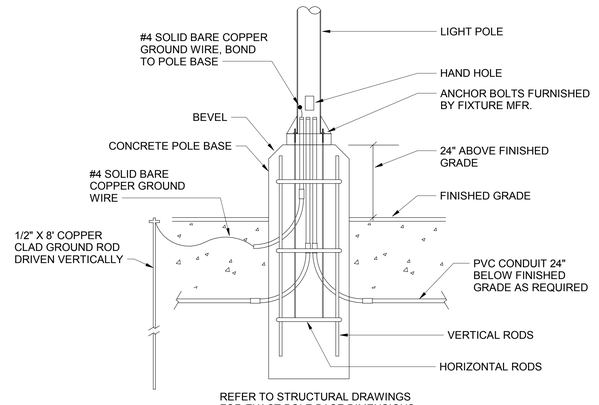
N.T.S.



SEE PHOTOMETRIC LUMINAIRE SCHEDULE FOR POLE MODEL NUMBER

A3 SITE LIGHTING POLE DETAIL

N.T.S.



REFER TO STRUCTURAL DRAWINGS FOR EXACT POLE BASE DIMENSIONS

A1 TYPICAL LIGHT POLE BASE DETAIL

N.T.S.

Chick-fil-A
5200 Buffington Road
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GPD GROUP, INC.
LIC. # - 30920
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CONSULTANT PROJECT # 2021223.29
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SHEET
ELECTRICAL SITE DETAILS

SHEET NUMBER
E-101

5/23/2022 9:31:43 AM BIM 360://FL_04571_Hunt Club_2021.11_FSR/04571_Hunt Club_ELE.rvt
50-SE-04571-E-101-ELECTRICAL SITE DETAILS

NOTE OF SPECIAL IMPORTANCE:

BELOW-SLAB BEVERAGE CONDUIT SHALL BE 6" DIAMETER SCHED 40 DWV SOLID WALL, NO FOAM CORE ALLOWED. USE LONG RADIUS ELBOWS (A.K.A. SWEEPS) ON ALL BEVERAGE CONDUIT. PLEASE NOTE BEVERAGE CONDUIT ROUGH-IN LOCATIONS ARE MEASURED TO THE FRACTION OF AN INCH. CARE MUST BE TAKEN WHEN INSTALLING 6" DIAMETER CONDUIT LOCATED WITHIN A 2X8 WALL. THE MARGIN FOR ERROR IS ONLY 1/16TH INCH.

IMPORTANT NOTE TO INSTALLER

EXERCISE CAUTION WHEN LOCATING ROUGH-INS AT:
-DRIVE THRU AREA
-CUSTOMER WAIT AREA
DO NOT PULL TAPE FROM THE SLAB EDGE AT THESE AREAS WITHOUT COMPENSATING FOR DIFFERENCE IN OFFSETS. NOTE OFFSET AT BACK CORNER OF BUILDING.

VAPOR MITIGATION SYSTEM NOTE

VMS ITEMS SHOWN ON PLAN ARE VAPOR MITIGATION SYSTEM VENT RISER LOCATIONS. REFER TO VAPOR MITIGATION SYSTEM SHOP DRAWINGS FOR ADDITIONAL INFORMATION.

MOP SINK NOTE

IMPORTANT: INSTALL P-35 FLOOR DRAIN WITH TOP OF DRAIN 0'-7" BFF. COORDINATE WITH GENERAL CONTRACTOR. SEE ARCHITECTURAL AND STRUCTURAL PLANS.

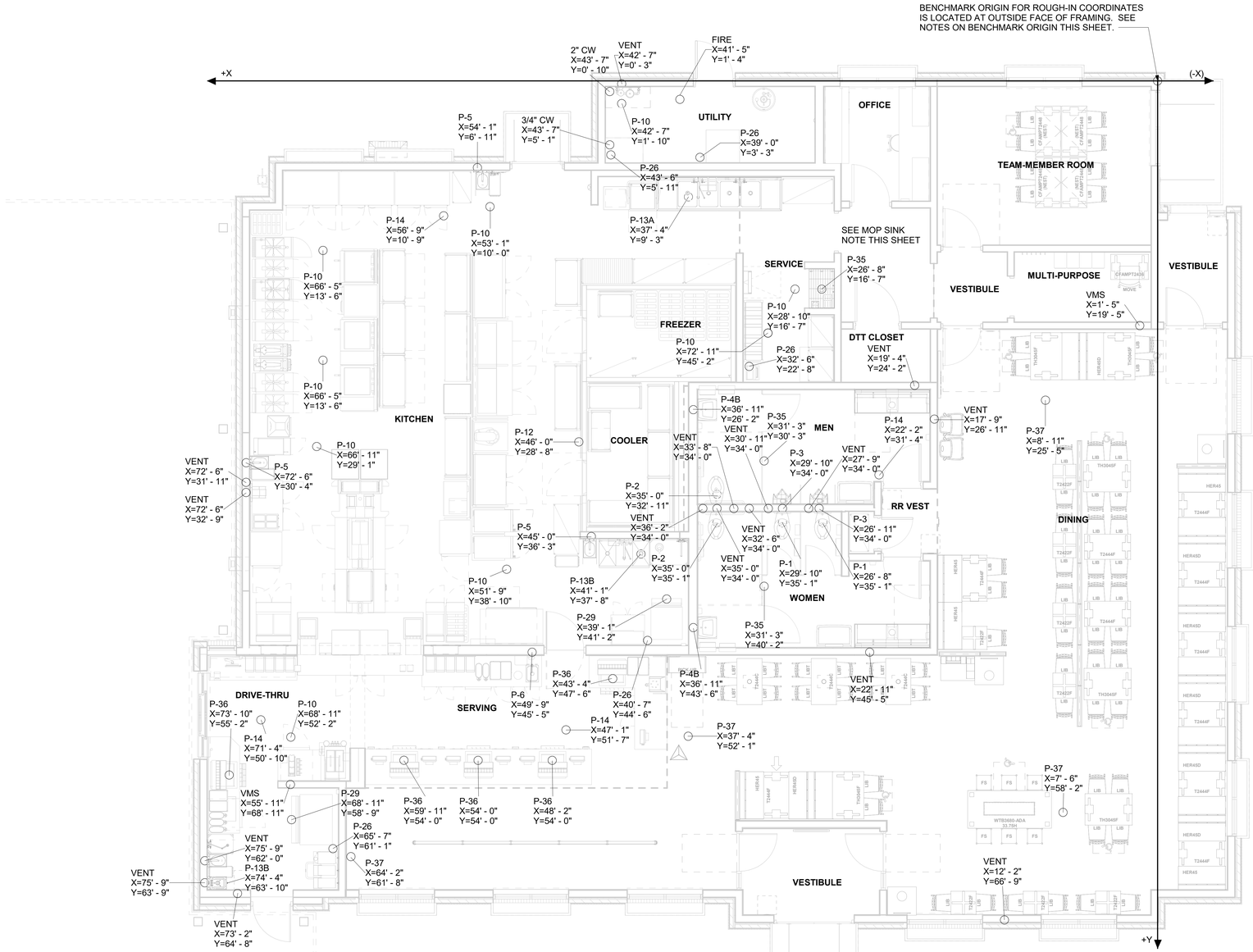
COORDINATE LEGEND

TYPE	EXAMPLE	PIPE COORDINATES
#1	CW X=43'8" Y=14'7"	APPLIES TO WATER PIPING ROUGH-IN PENETRATION ONLY. SEE P-101 FOR CONTINUATION.
#2	VENT X=43'8" Y=14'7"	APPLIES TO DWV PENETRATION ONLY.
#3	6" BEV COND X=43'8" Y=27'3"	APPLIES TO 6" BEVERAGE CONDUIT PENETRATION ONLY.

NOTE: TRAP PRIMER PIPING NOT SHOWN ON THIS PLAN. SEE 1/P-101 FOR TRAP PRIMER LOCATIONS.

NOTES ABOUT (0,0) BENCHMARK ORIGIN

1. THE (X=0, Y=0) BENCHMARK ORIGIN IS LOCATED AT THE OUTSIDE FACE OF FRAMING FOR THE EXTERIOR WALL AT THE CORNER WHERE SHOWN ON THE ADJACENT PLAN.
2. IT IS EXTREMELY IMPORTANT FOR THE PLUMBING INSTALLER TO BECOME COMPLETELY FAMILIAR WITH THE FACE-OF-FRAMING POSITION AND ITS RELATION TO THE FLOOR SLAB CONSTRUCTION PRIOR TO BEGINNING THE UNDERSLAB PLUMBING ROUGH-IN..
3. PLUMBING CONTRACTOR SHALL REVIEW STRUCTURAL DETAIL "TYPICAL SECTION @ EXTERIOR WALL" FOR PRECISE LOCATION OF FACE-OF-FRAMING WITH RESPECT TO THE SLAB INSTALLATION PRIOR TO LOCATING SLAB ROUGH-INS.



1 SLAB ROUGH-IN PLAN
1/4" = 1'-0"

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

GPD GROUP, INC.
LIC. # - 30920
520 S. MAIN STREET, SUITE 2531
AKRON, OH 44311

BRANDON M. MARZLEY
LICENSE No. 77967
BRANDON M. MARZLEY LICENSE No 77967 STATE OF FLORIDA PROFESSIONAL ENGINEER
05/23/22

CHICK-FIL-A HUNT CLUB

2488 E. SEMORAN BLVD
APOPKA, FL 32703

FSR#04571

BUILDING TYPE / SIZE: P13 SE ALL
RELEASE: v2.21.05
PRINTED FOR
ISSUED FOR CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

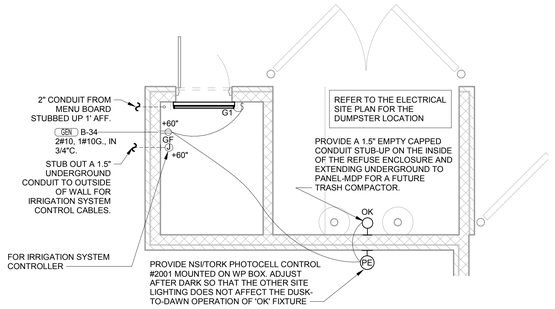
CONSULTANT PROJECT #	2021223.29
DATE	12/08/21
DRAWN BY	MJA

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SHEET
SLAB ROUGH-IN PLAN

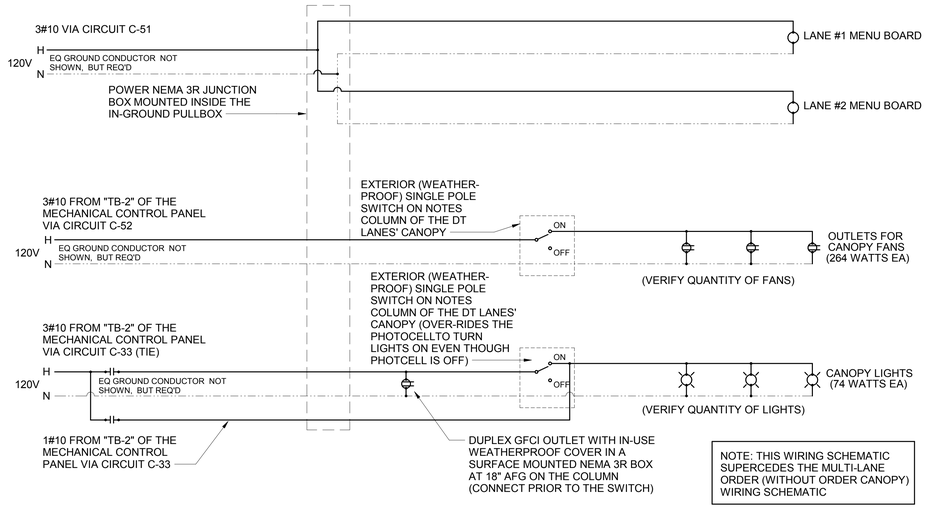
SHEET NUMBER
P-221

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40-SE-04571-P-221-SLAB ROUGH-IN PLAN



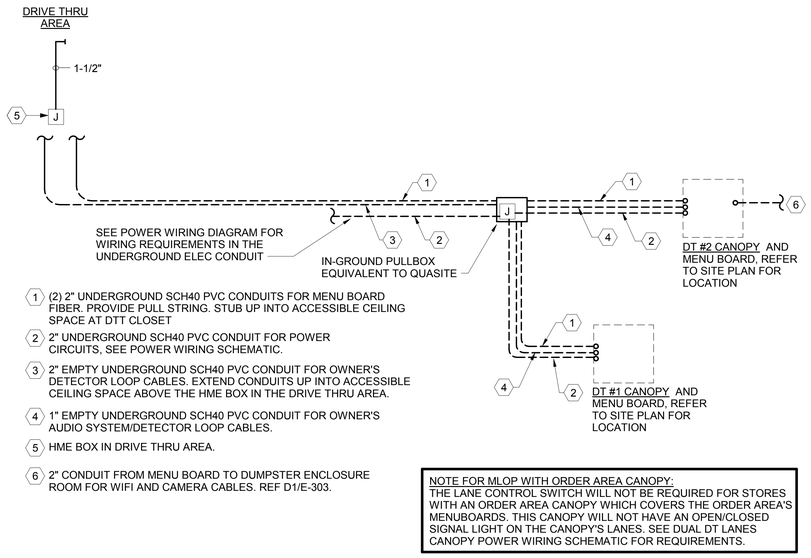
D1 REFUSE ENCLOSURE ELECTRICAL PLAN

1/4" = 1'-0"



B3 MULTI-LANE ORDER CANOPY POWER WIRING SCHEMATIC

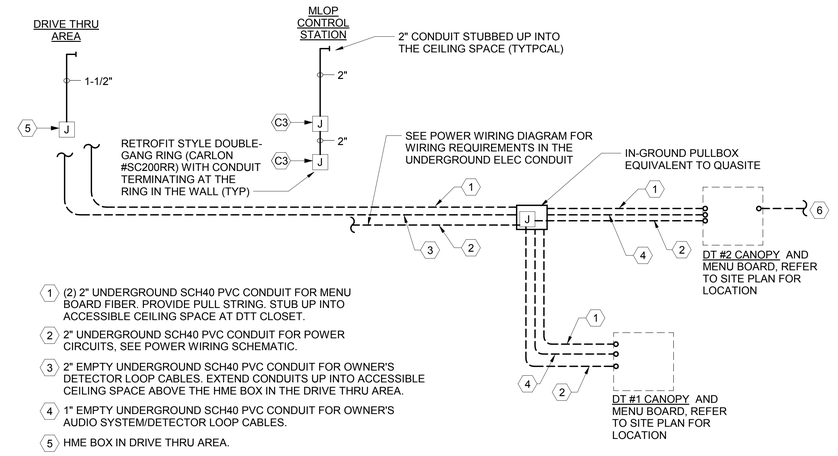
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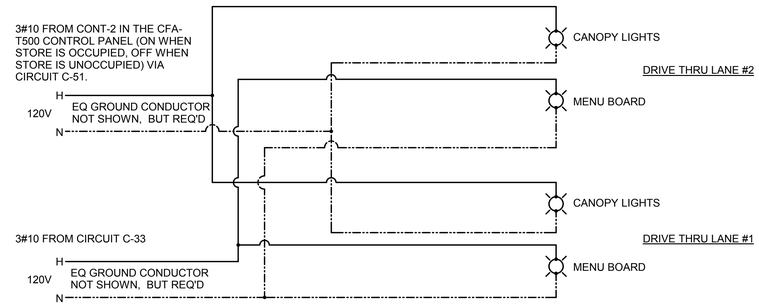
NOTE FOR MLOP WITH ORDER AREA CANOPY:
THE LANE CONTROL SWITCH WILL NOT BE REQUIRED FOR STORES WITH AN ORDER AREA CANOPY WHICH COVERS THE ORDER AREA'S MENUBOARDS. THIS CANOPY WILL NOT HAVE AN OPEN/CLOSED SIGNAL LIGHT ON THE CANOPY'S LANES. SEE DUAL DT LANES CANOPY POWER WIRING SCHEMATIC FOR REQUIREMENTS.

A3 MLOP DT REQUIREMENTS - WITH ORDER AREA F2F CANOPY

NO SCALE



MULTI-LANE DRIVE-THRU ORDER AREA CONDUIT REQUIREMENTS



NOTE: THIS WIRING SCHEMATIC WILL BE USED ONLY FOR LOCATIONS WITHOUT AN ORDER CANOPY

MULTI-LANE DRIVE-THRU ORDER AREA POWER WIRING SCHEMATIC

A1 MLOP DT REQUIREMENTS - NO ORDER AREA F2F CANOPY

NO SCALE

Chick-fil-A
5200 Buffington Road
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30349-2998

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LIC. # - 30920
520 S. MAIN STREET, SUITE 2531
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2488 E. SEMORAN BLVD
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 2021223.29
DATE 12/08/21
DRAWN BY Author

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SHEET
DT ORDERING AREA DETAILS & REFUSE ENCLOSURE PLAN
SHEET NUMBER
E-303

5/23/2022 9:33:02 AM BIM 360://FL_04571_Hunt Club_2021.11_FSR\04571_Hunt Club_ELE.rvt
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