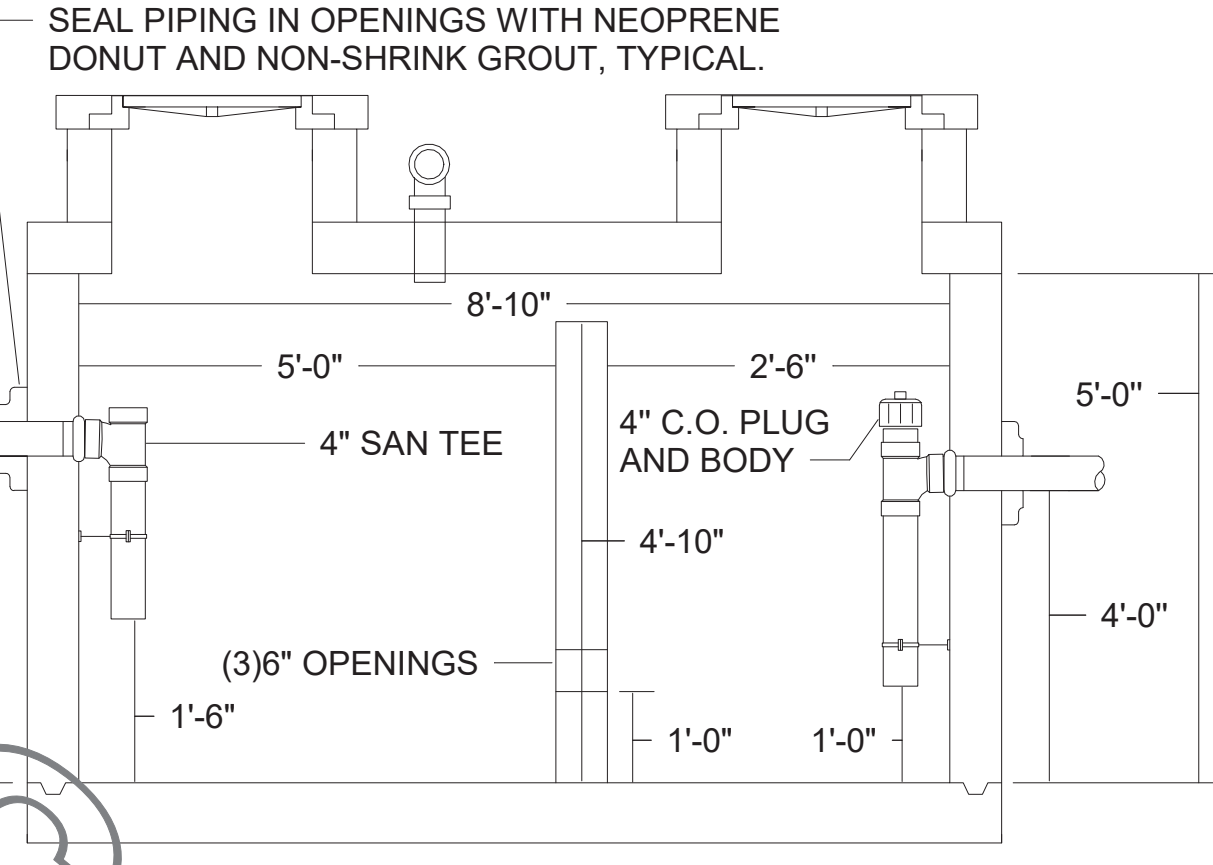
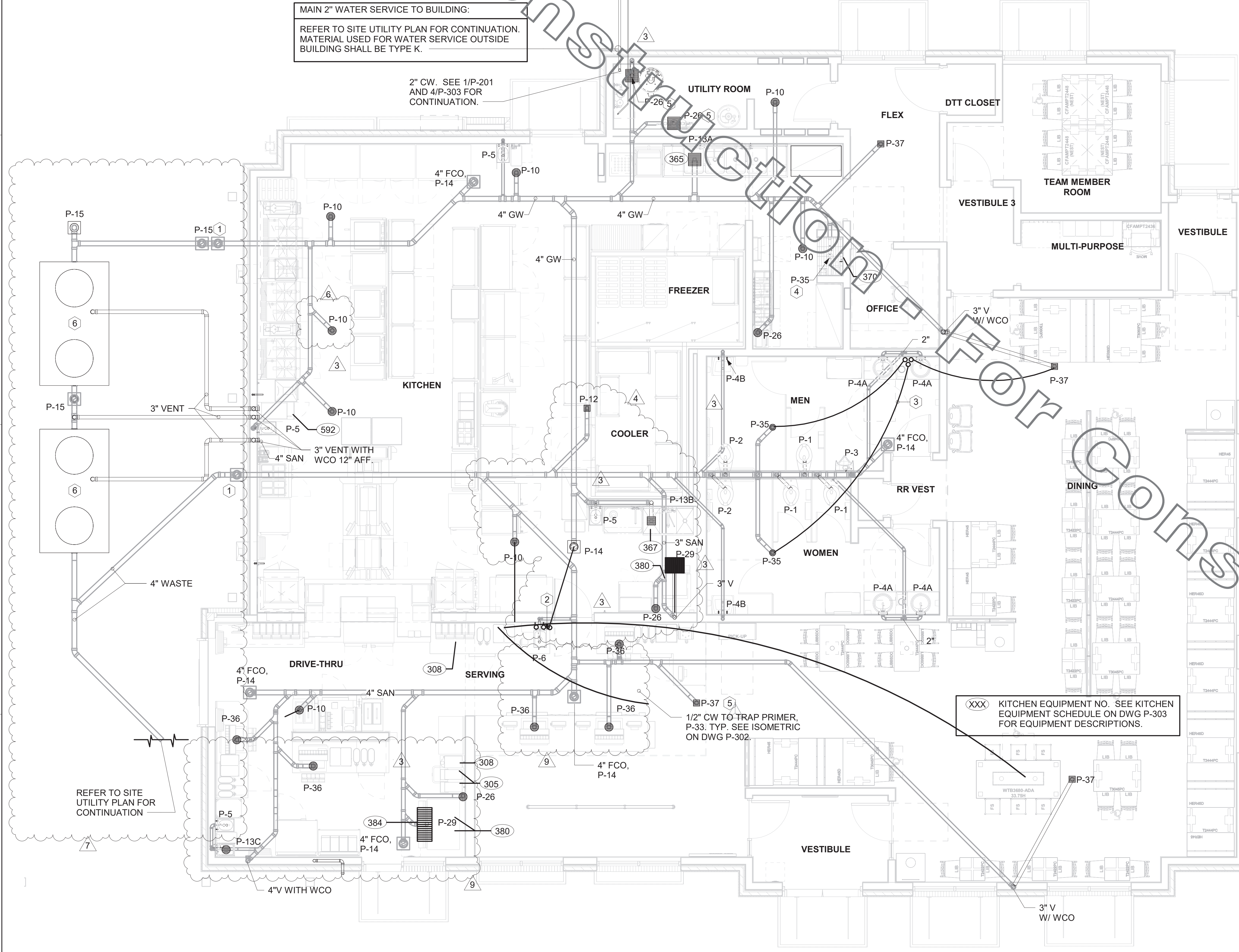


- NOTES:**
1. SET ON 0'-4" OF STRUCTURAL BACKFILL.
  2. INTERIOR DIMENSIONS CHANGES ALLOWED TO ACCOMPLISH SIMILAR VOLUME.
  3. TRAP CAPACITY SUBJECT TO APPROVAL BY STATE OR LOCAL AUTHORITY. CONSTRUCTION MUST BE MONOLITHIC, INCLUDING THE BAFFLE. TRAP MUST MEET H-20 TRAFFIC LOADING REQUIREMENTS WHEN LOCATED IN A TRAFFIC AREA. SEE CIVIL PLANS FOR TRAP LOCATION.



② GREASE INTERCEPTOR NOT TO SCALE

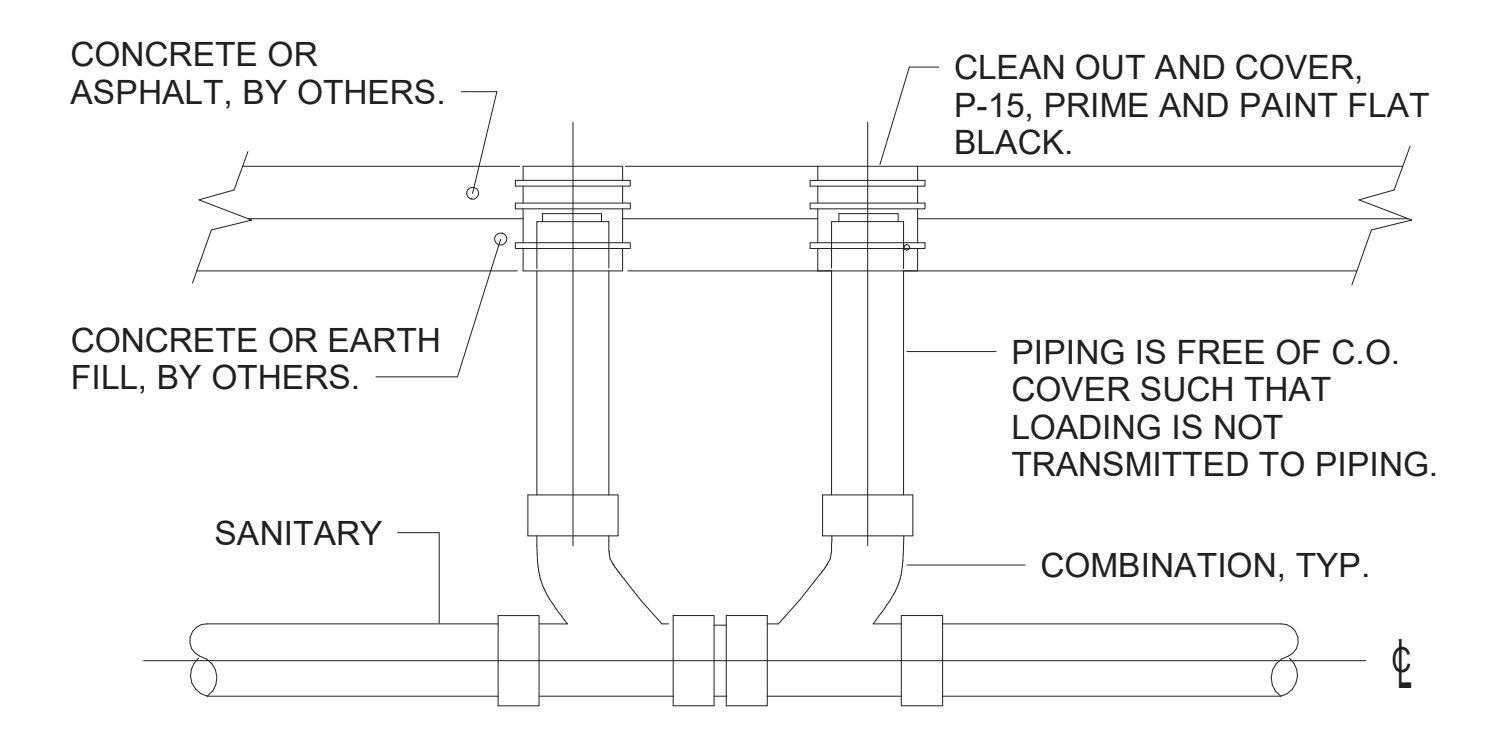
MAIN 2" WATER SERVICE TO BUILDING:  
REFER TO SITE UTILITY PLAN FOR CONTINUATION. MATERIAL USED FOR WATER SERVICE OUTSIDE BUILDING SHALL BE TYPE K.



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

**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.

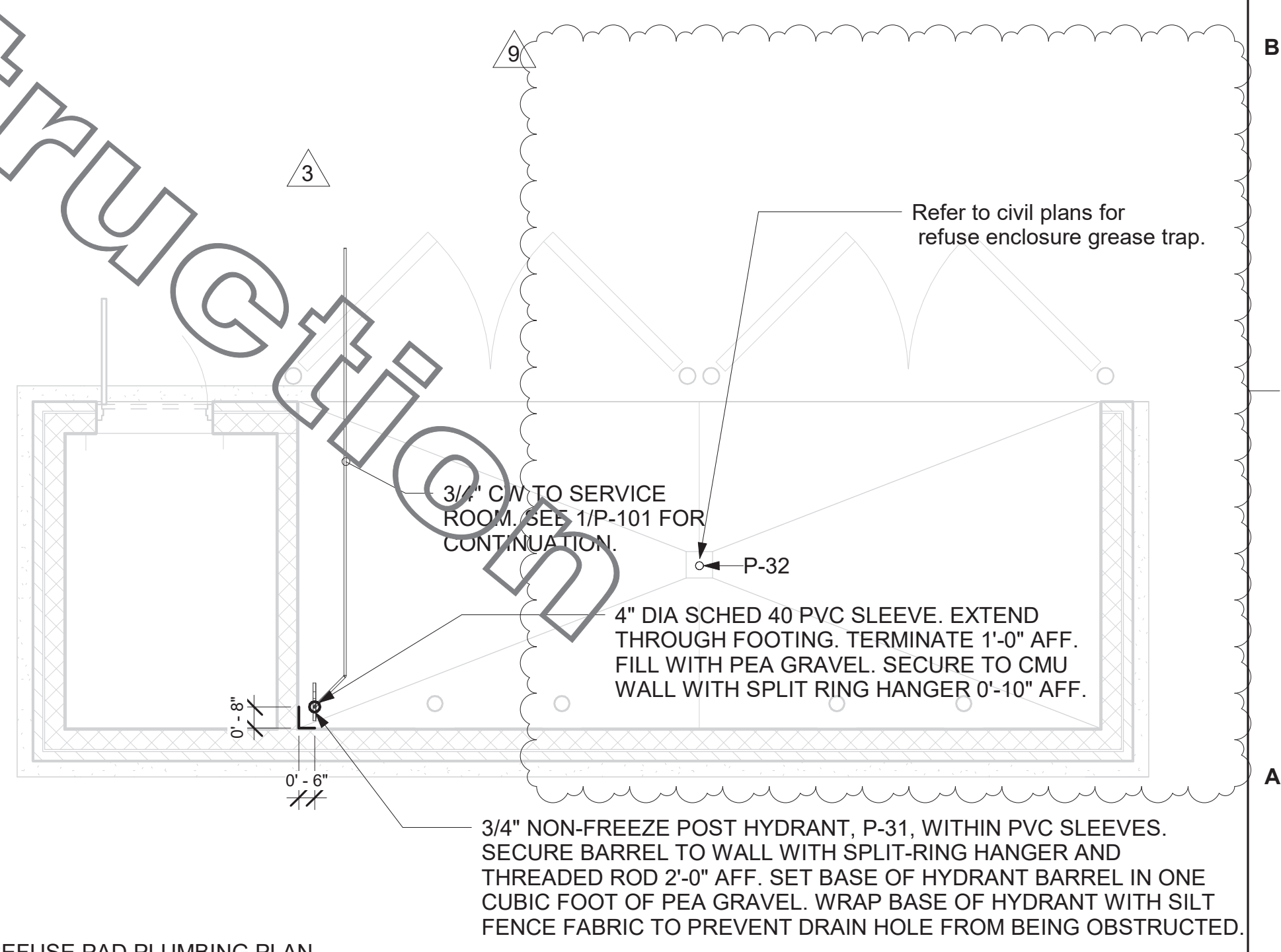


④ SAN. C.O. OUTSIDE BUILDING NOT TO SCALE

**KEY NOTES**

1. 4" DOUBLE CO, P-15. SEE DETAIL 4/P-101.
2. 1/2" CW UP TO TRAP PRIMER, P-33. SEE ISOMETRIC ON DWG P-302. LOCATE PRIMER AND DISTRIBUTION UNIT AT BACK WALL OF CABINET.
3. ROUTE 1/2" CW TO P-33 TRAP PRIMER WITHIN WALL. SEE 1/P-302. PROVIDE ACCESS PANEL.
4. INSTALL FLOOR DRAIN P-35 AT MOP SINK DEPRESSION WITH TOP OF STRAINER 0'-7" BFF.
5. PROVIDE P-26A TRAP SEAL PROTECTOR AT HUB DRAIN.
6. GREASE TRAP - REFER TO DETAIL 2/P-101, REFER TO SITE UTILITY PLAN SHEET FOR EXACT LOCATION.

**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.



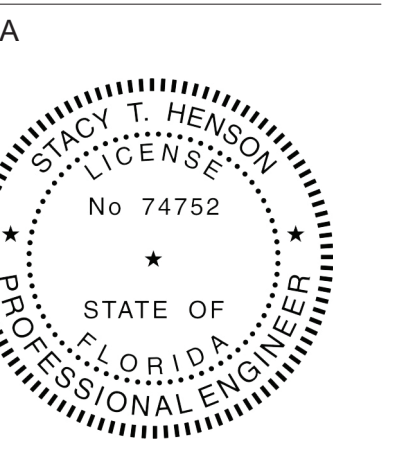
③ REFUSE PAD PLUMBING PLAN  
1/4" = 1'-0"



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

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ARCHITECTURE  
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INTERIOR DESIGN  
PROJECT MANAGEMENT

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AR0011595  
CA 8660



**CHICK-FIL-A**  
INTERNATIONAL  
SPEEDWAY FSR  
100 N. Williamson Boulevard  
Daytona Beach, FL 32114

**FSR#00866**  
BUILDING TYPE / SIZE: P12 SE ALL  
RELEASE: v2, 19.05

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
1	12/04/20	OWNER REVISIONS
4	03/02/21	BUILDING COMMENTS
6	11/12/21	OWNER REVISIONS
7	12/01/21	ARCH-CIVIL COORDINATION
9	07/28/22	OWNER REVISIONS

CONSULTANT PROJECT # 2018.0632  
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DRAWN BY JL

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SHEET BELOW SLAB PLUMBING PLAN  
SHEET NUMBER



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Atlanta, Georgia  
30349-2998

**INTERPLAN**

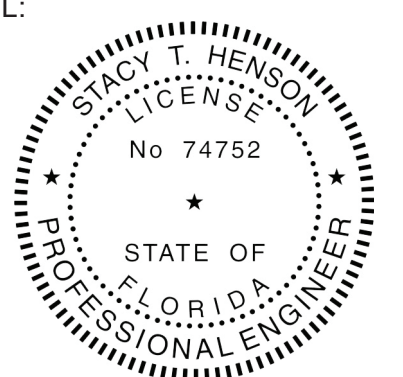
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SEA

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**CHICK-FIL-A**  
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**SPEEDWAY FSR**  
100 N. Williamson Boulevard  
Daytona Beach, FL 32114

**FSR#00866**

BUILDING TYPE / SIZE: P12 SE ALL  
RELEASE: v2.19.05

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

CONSTRUCTION	
CONSULTANT PROJECT #	2018.0632
PRINTED FOR	CONSTRUCTION
DATE	08.23.19
DRAWN BY	MI
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SHEET: CANOPY CONTROL PANEL WIRING DIAGRAM	
SHEET NUMBER: E-305	

For Construction

SEQUENCE OF OPERATION	
<b>STORE SWITCH IN "STORE OPEN" POSITION</b>	<b>STORE SWITCH IN "STORE CLOSED" POSITION</b>
A. INFRARED HEATERS ARE ENABLED.	A. INFRARED HEATERS ARE DISABLED.
B. COOLING FANS ARE ENABLED.	B. COOLING FANS ARE DISABLED.
C. LIGHTS ARE ENABLED.	C. LIGHTS ARE DISABLED.
D. MASTER AUTO/OFF SWITCH FOR IR HEATERS AND COOLING FANS. PROVIDE SINGLE POINT ON/OFF CONTROL.	

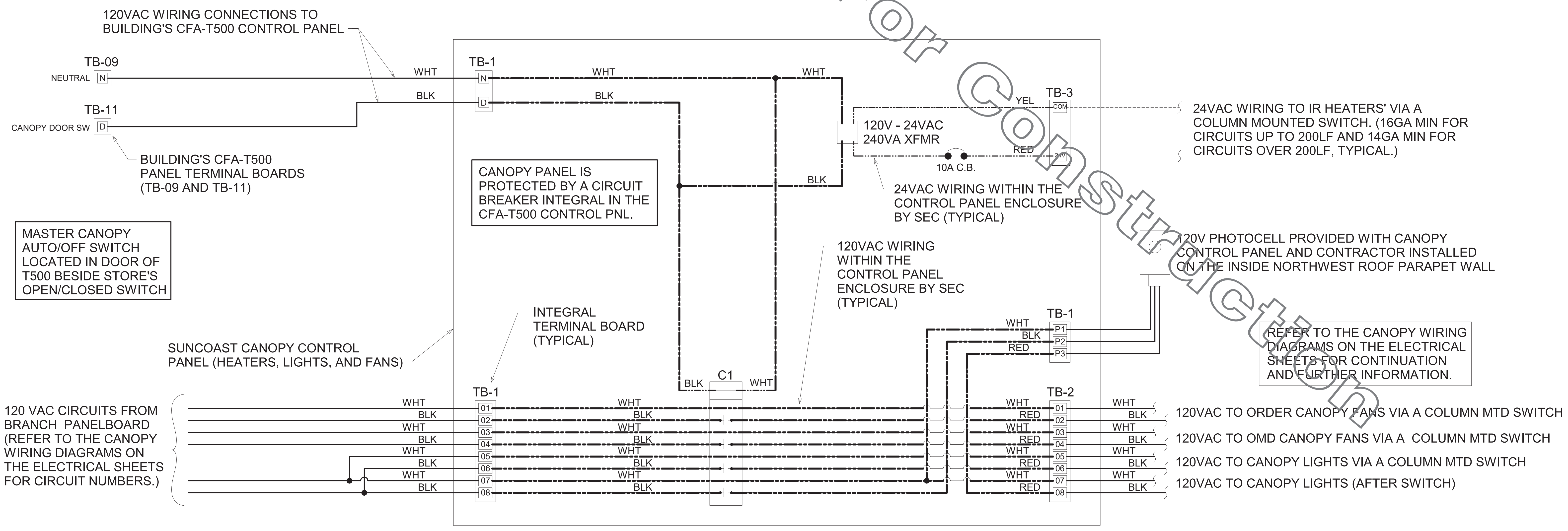
  

NOTES	
1.	CONTRACTOR SHALL PURCHASE CONTROL PANEL DIRECT FROM SUNCOAST ENVIRONMENTAL CONTROLS (727-544-6679).
2.	COORDINATE WITH GC TO ESTABLISH LOCATION TO MOUNT PANEL IN A CONDITIONED SPACE INSIDE THE BUILDING. SUGGESTED LOCATION IS SURFACE MOUNTED DIRECTLY ABOVE THE LOCATION OF THE CFA-T500 CONTROL 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 AND IR HEATERS. 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

CIRCULATING FAN SCHEDULE					
MARK	CFM	RPM	HP	MODEL	MANUFACTURER
CF	4,600	1,660	1/8	U18TE	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. 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.				
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.					

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.

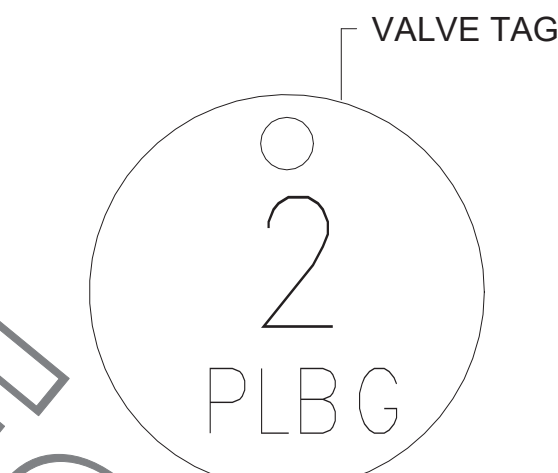


**A1 SUNCOAST CANOPY CONTROL PANEL WIRING DIAGRAM**  
NO SCALE

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50-SE-00866-E-305-CANOPY CONTROL PANEL WIRING DIAGRAM

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

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 1/2" 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.

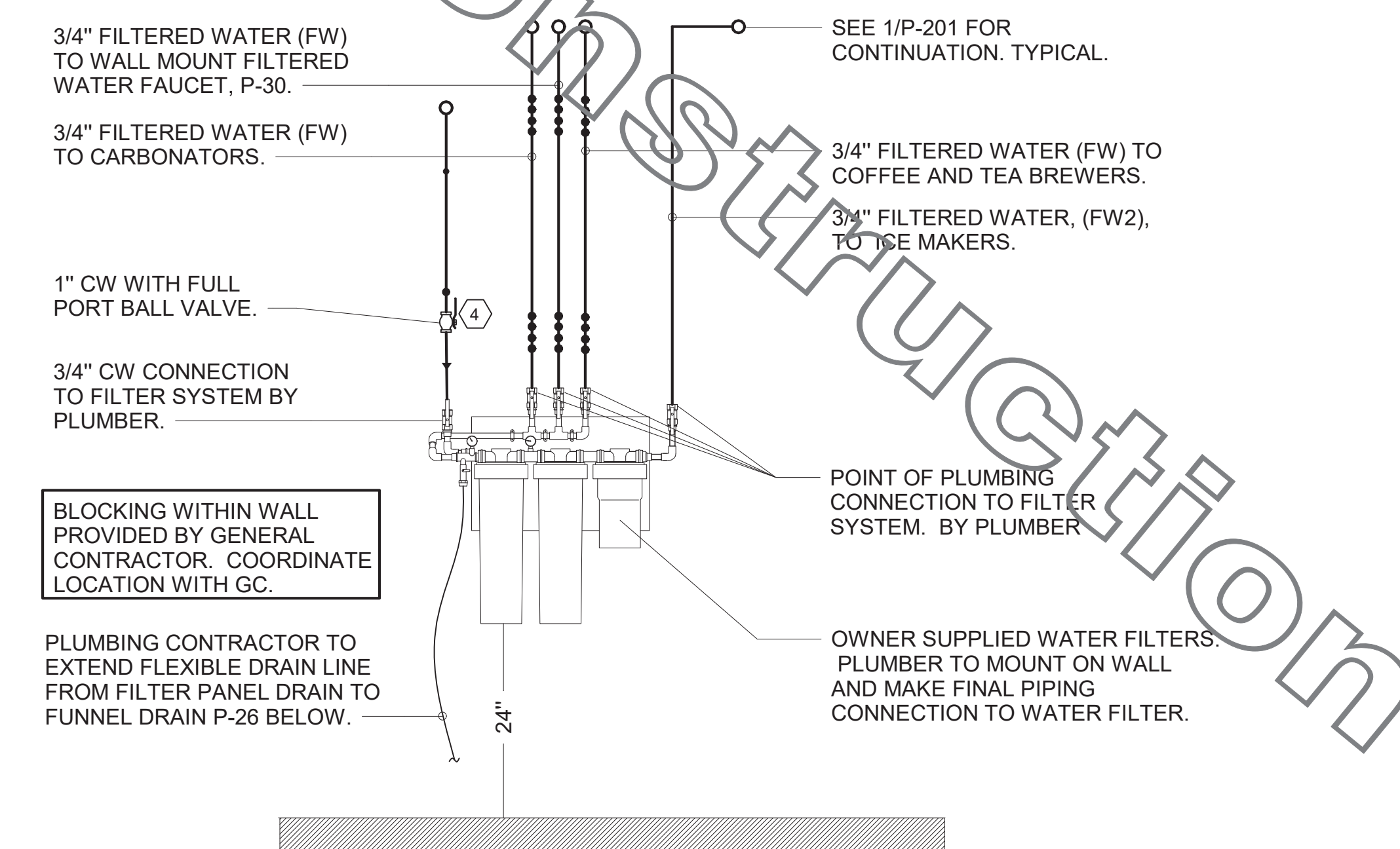
③ VALVE TAGS AND LEGEND NOT TO SCALE

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.
(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 MAKER (1 HEAD)	X	1/2"	X	X	INDIRECT	P-23 SEE K-611 & 3/P-201
(384)	ICE MAKER (2 HEAD)	X	1/2"	X	X	INDIRECT	P-23 SEE K-611 & 3/P-201
(384)	ICE MAKER (2 HEAD)	X	1/2"	X	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 COUNTERTOP (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-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-13DW	FLOOR SINK (3") 12" TOP (DISHWASHER)	X	X	X	X	3"
P-14	CLEANOUT INSIDE BUILDING	X	X	X	X	SEE PLAN
P-15	CLEANOUT OUTSIDE 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-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 FLOOR SINK	X	X	X	X	3"
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-41C	DISHWASHER SUPPLY FAUCET	X	X	1/2"	X	X
P-42	EMERGENCY EYEWASH MIXING VALVE	X	X	1/2"	1/2"	X
P-43	RETHEMALIZER SUPPLY VALVE	X	X	1/2"	X	X

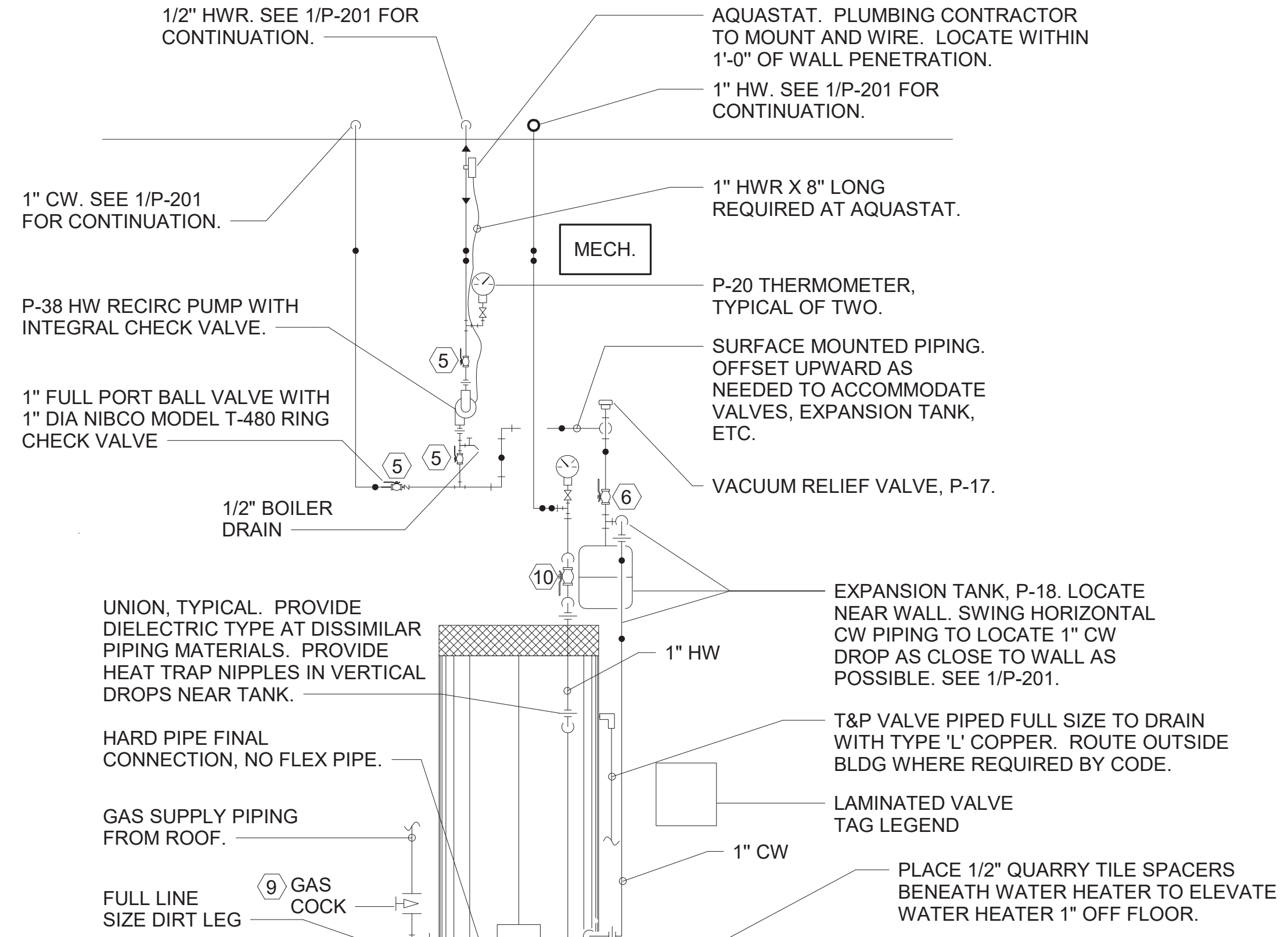
NOTES: ① REFER TO FOOD SERVICE DRAWINGS FOR KITCHEN EQUIPMENT INSTALLATION AND HOOK-UP RESPONSIBILITIES.  
② DO NOT MANIFOLD POT OR PREP SINK DRAINS TOGETHER UNLESS ALLOWED BY LOCAL AUTHORITY.



⑤ PIPING AT WATER FILTER NOT TO SCALE

**NOTES TO WATER HEATER INSTALLER:**

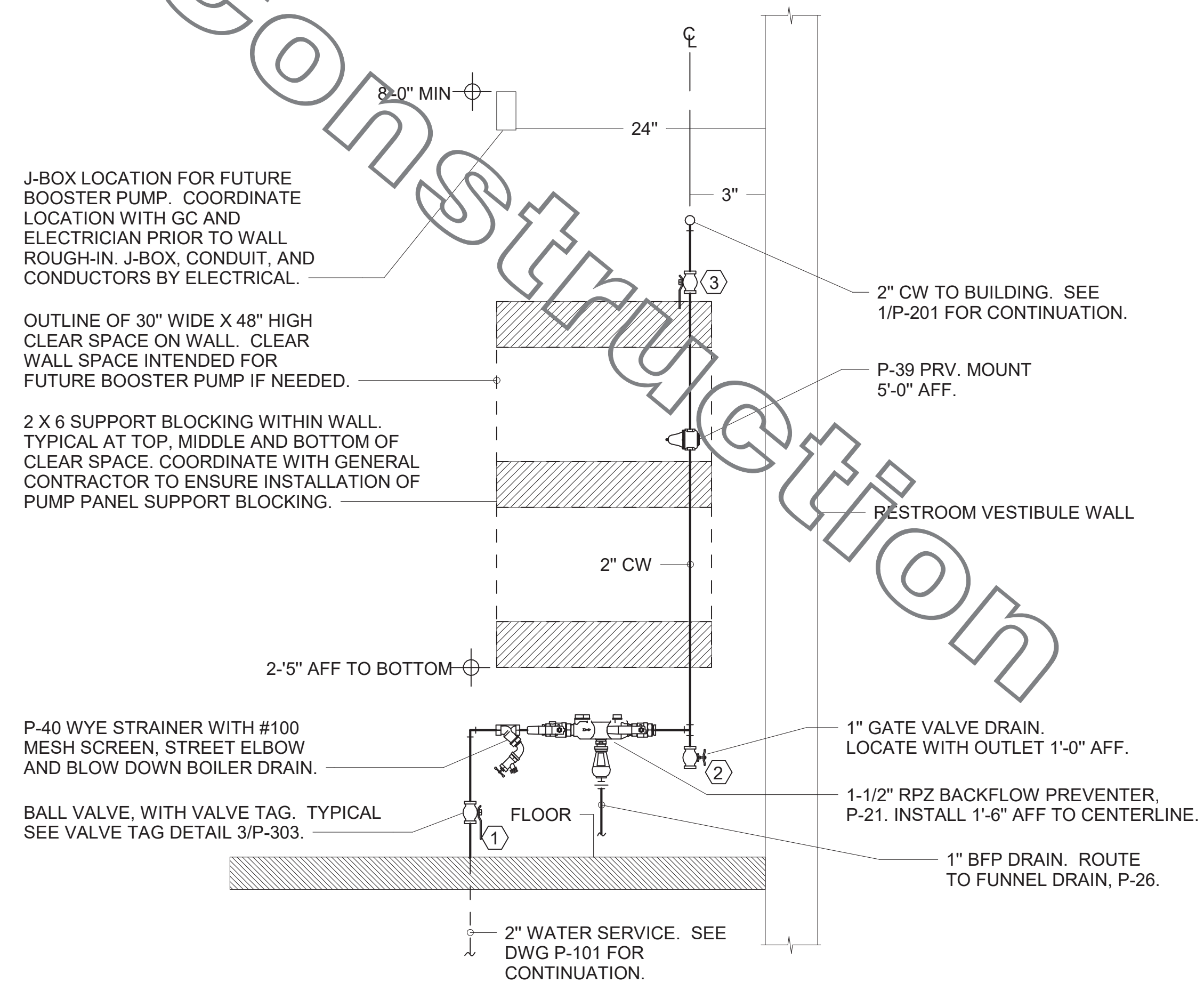
- POSITION VALVES AND TRIM IN MECH ROOM SUCH THAT VALVES AND TRIM ARE UNOBSTRUCTED TO VIEW AND SO THAT ACCESS FOR OPERATION OR REPAIR IS POSSIBLE WITHOUT USE OF STEP LADDERS OR NEED TO DISASSEMBLE ANY COMPONENTS.
- VENT HEATER UP THRU MECH ROOM ROOF AND PROVIDE FRESH AIR PIPING PER MANUFACTURER'S RECOMMENDATIONS.



⑥ PIPING AT WATER HEATER NOT TO SCALE

**NOTE OF SPECIAL IMPORTANCE:**

- LOCATIONS OF 2" CW RISER AND CLEAR SPACE ARE DIMENSIONED BECAUSE THEY ARE CRITICAL FOR THE FUTURE PUMP PANEL INSTALLATION.
- 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



Chick-fil-A

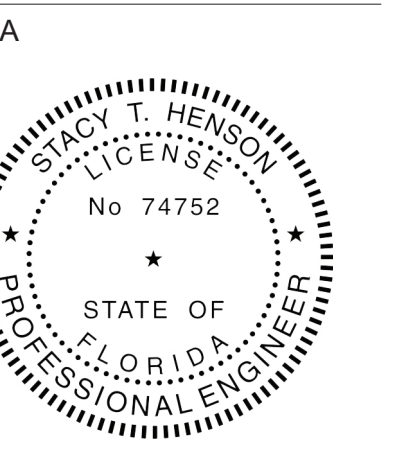
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### INTERPLAN

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SPEEDWAY FSR  
100 N. Williamson Boulevard  
Daytona Beach, FL 32114

### FSR#00866

BUILDING TYPE / SIZE: P12 SE ALL  
RELEASE: v2, 19.05

NO.	DATE	DESCRIPTION
1		
3	12/04/20	OWNER REVISIONS

CONSULTANT PROJECT # 2018.0632  
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### P-303

# 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.

## FLOOR FIXTURE ELEVATIONS

IMPORTANT: INSTALL THE FLOOR FIXTURE SUCH THAT THE TOP-OF-RIM ELEVATION IS AS FOLLOWS:

FIXTURE	TYPE	RIM ELEVATION
P-10	FLOOR DRAIN	1/2" BFF
P-29	ICE BIN FLOOR SINK	3/4" BFF
P-35	RESTROOM FLOOR DRAIN	1/4" BFF
P-35	MOP SINK DRAIN	7" BFF
P-36	INDIRECT WASTE RECEIVER	1/4" BFF
P-37	FLOOR DRAIN	1/4" BFF

NOTE: FIXTURE RIM/GRATE SHALL SET BE FLUSH WITH ADJACENT FLOOR. SEE ARCHITECTURAL PLANS FOR FLOOR SLOPE AT SLAB DEPRESSION FOR FIXTURES INSTALLED BELOW FINISHED FLOOR ELEVATION. FLOOR FIXTURES NOT LISTED HERE SHALL BE INSTALLED FLAT AND FLUSH WITH FINISHED FLOOR ELEVATION.

## 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

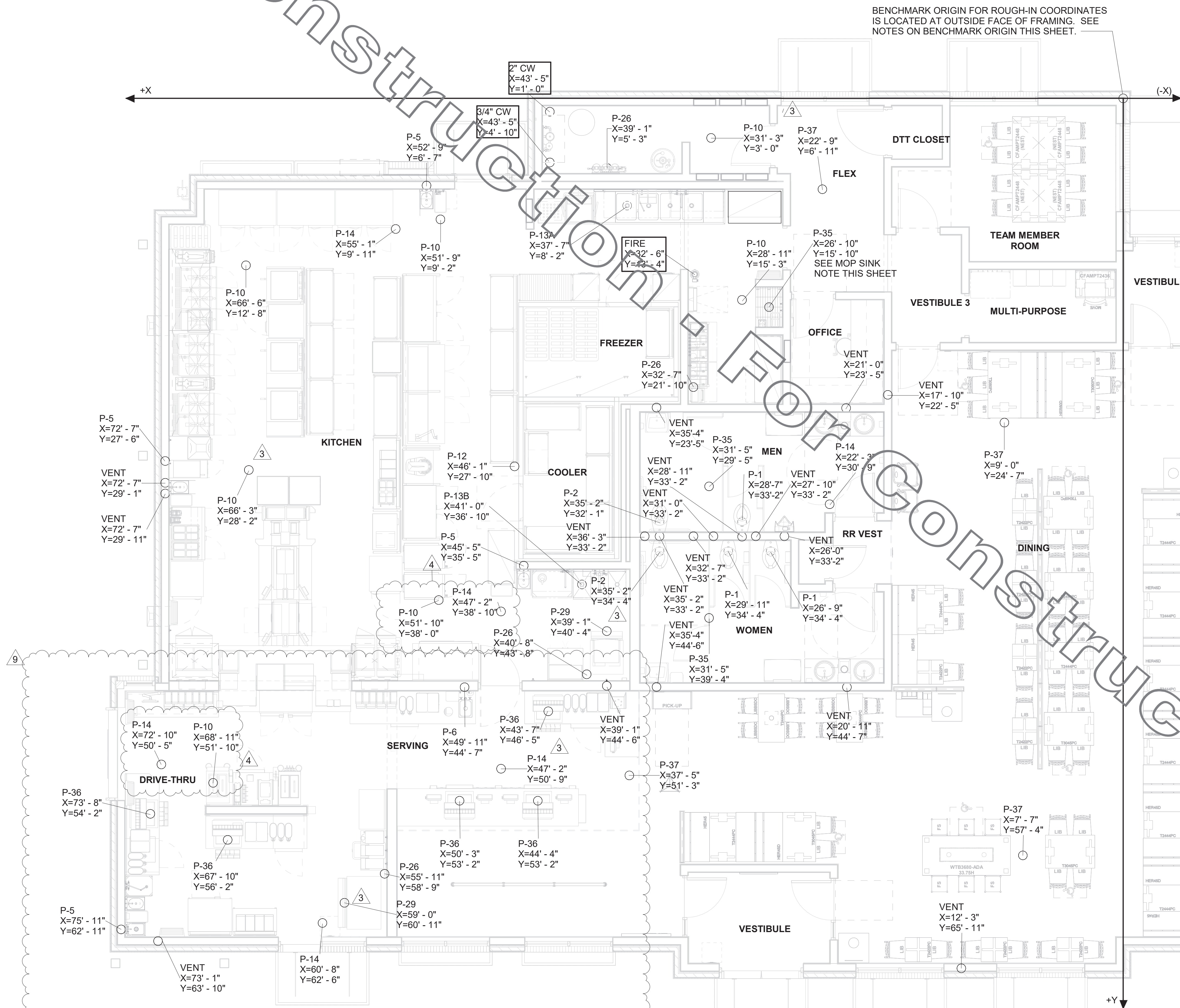
TYPE	EXAMPLE	PIPE COORDINATES
#1	CW X=43'8" Y=14'7"	APPLIES TO WATER PIPING ROUGH-IN PENETRATION ONLY. SEE P-101 FOR CONTINUATION.
#2	VENT X=43'8" Y=14'7"	APPLIES TO DWV PENETRATION ONLY.
#3	6" BEV COND X=43'8" Y=27'3"	APPLIES TO 6" BEVERAGE CONDUIT PENETRATION ONLY.

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

## NOTES ABOUT (0,0) BENCHMARK ORIGIN

- 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.
- 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.
- 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.

BENCHMARK ORIGIN FOR ROUGH-IN COORDINATES IS LOCATED AT OUTSIDE FACE OF FRAMING. SEE NOTES ON BENCHMARK ORIGIN THIS SHEET.



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



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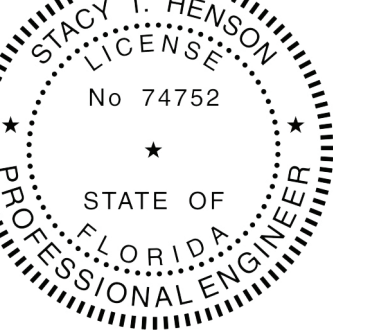
## INTERPLAN

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**CHICK-FIL-A**  
 INTERNATIONAL  
 SPEEDWAY FSR  
 100 N. Williamson Boulevard  
 Daytona Beach, FL 32114

**FSR#00866**

BUILDING TYPE / SIZE: P12 SE ALL  
 RELEASE: v2\_19.05

NO.	DATE	DESCRIPTION
1		
3	12/04/20	OWNER REVISIONS
4	03/02/21	BUILDING COMMENTS
9	07/28/22	OWNER REVISIONS

CONSULTANT PROJECT #	2018.0632
PRINTED FOR	CONSTRUCTION
DATE	08/16/19
DRAWN BY	JL

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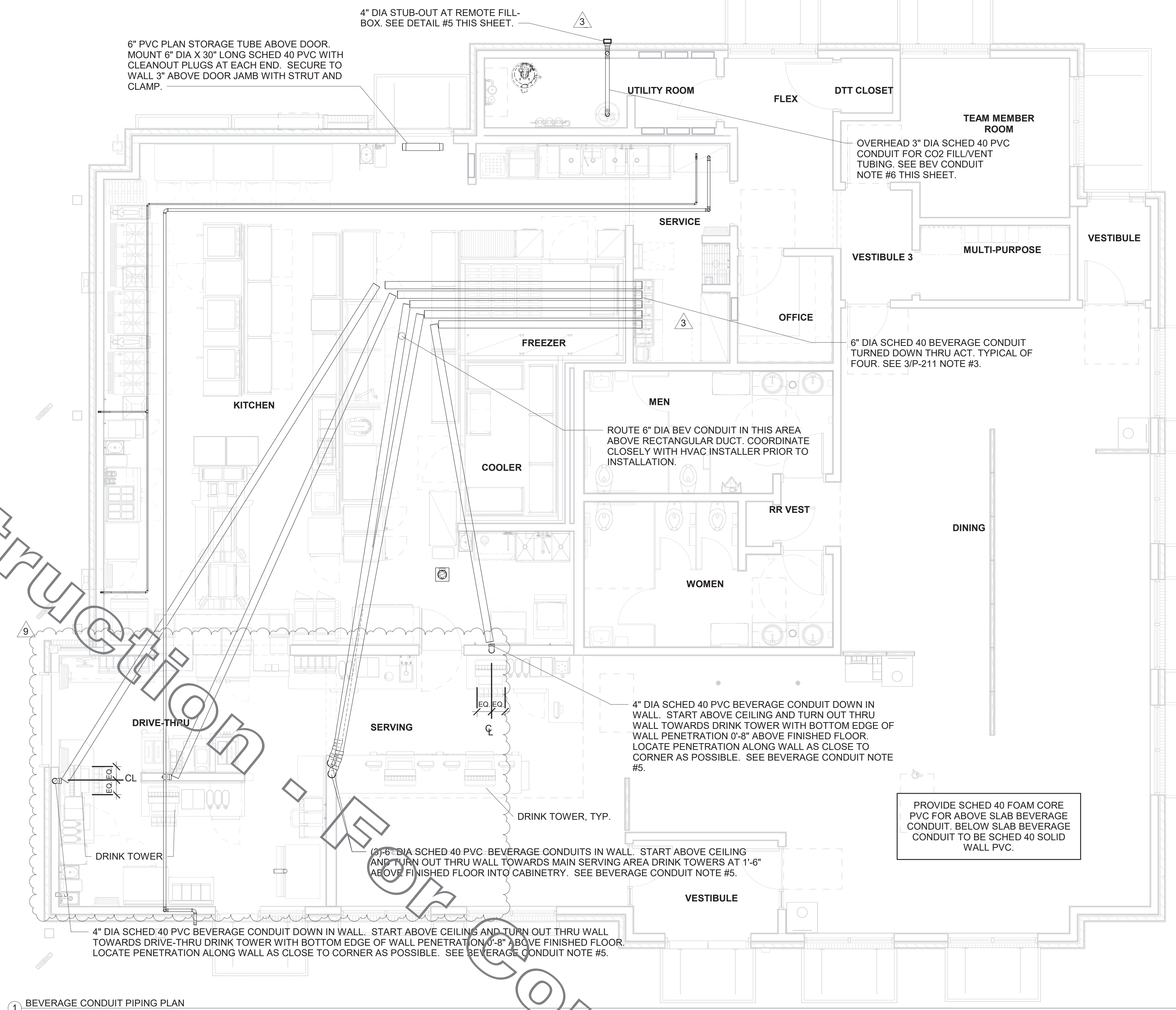
SHEET SLAB ROUGH-IN PLAN

SHEET NUMBER

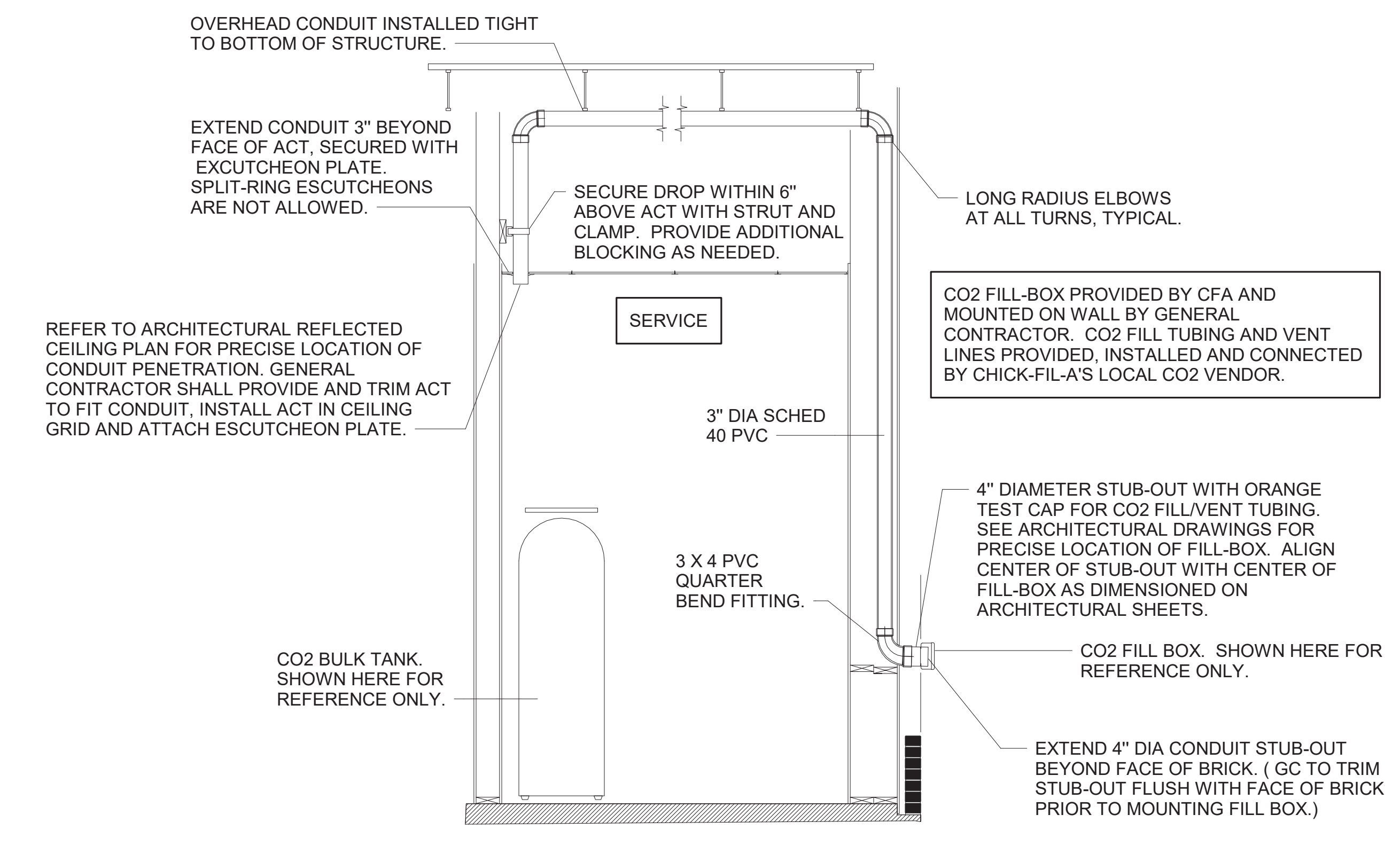
**P-221**

## 2. BEVERAGE CONDUIT NOTES

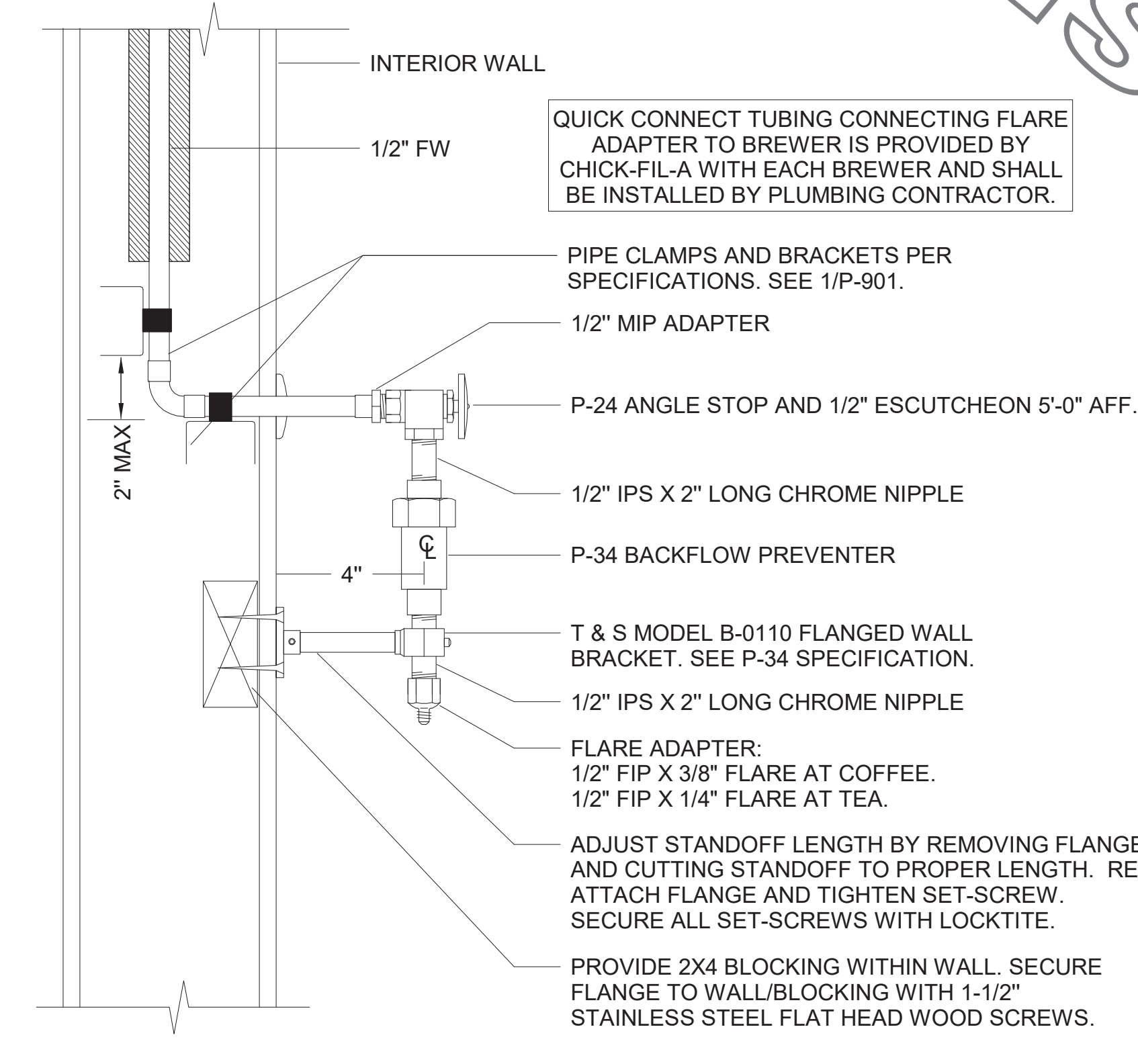
- ROUTE BEVERAGE SYSTEM PIPING OVERHEAD FROM THE BEVERAGE RACK TO DRINK TOWERS IN FOUR (4)-6" DIA SCH 40 PVC DWV CONDUITS. ALL CONDUIT SHALL BE HELD TIGHT TO STRUCTURE AND SUPPORTED WITH THREADED ROD AND CLEVIS HANGERS AT INTERVALS SHOWN IN SPECIFICATIONS FOR HORIZONTAL OVERHEAD PIPING. COORDINATE ROUTING WITH THE GENERAL CONTRACTOR TO AVOID MECHANICAL AND ELECTRICAL SYSTEMS. SEE 1/P-101 AND 1/P-221 FOR BELOW-SLAB BEVERAGE CONDUIT.
- COORDINATE ROUTING OF ALL CONDUITS WITH HVAC DUCT IN KITCHEN. SEE SHEET M-201 FOR LOCATION OF AC UNITS AND DUCT ROUTING.
- 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.
- 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.
- 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.
- 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.



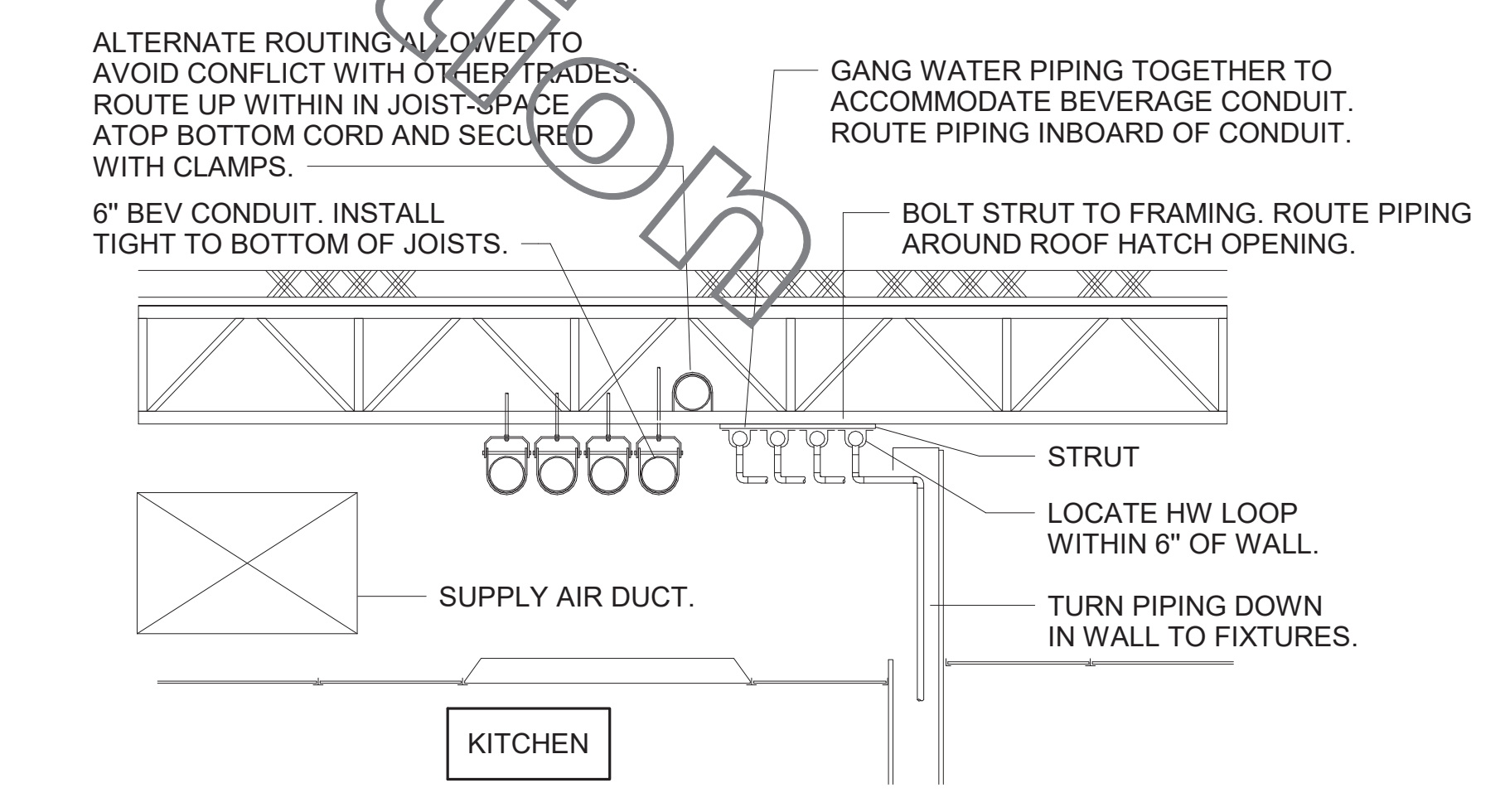
1 BEVERAGE CONDUIT PIPING PLAN  
1/4" = 1'-0"



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

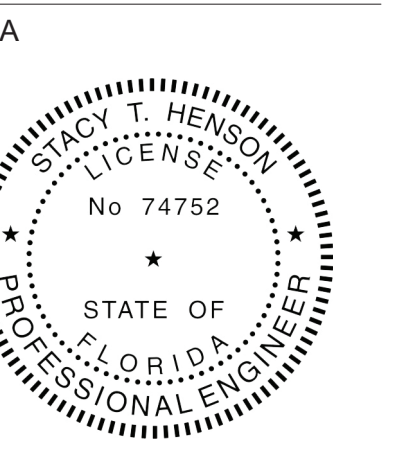


Chick-fil-A

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CHICK-FIL-A  
INTERNATIONAL  
SPEEDWAY FSR  
100 N. Williamson Boulevard  
Daytona Beach, FL 32114

FSR#00866

BUILDING TYPE / SIZE: P12 SE ALL  
RELEASE: v2\_19.05

REVISION SCHEDULE		
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SHEET BEVERAGE CONDUIT PLAN			
SHEET NUMBER			

P-211

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-42 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 CARTRIDGE, HOT 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 RIGID 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:

Table with 3 columns: NOMINAL PIPE SIZE (IN), MINIMUM HANGER DIAMETER (IN), and values for 1/2, 3/4 TO 1-1/2, 2 TO 2-1/2, 3 TO 6.

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.

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. 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. 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 URINAL WITH TEU1UA12#CP 0.125 GPF SELF SUSTAINED HYDROPOWER SELF-GENERATING ELECTRONIC SENSOR-OPERATED FLUSH VALVE. 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 TEL155-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 OWNER) TOTO MODEL TEL105-D10ET#CP ECO-POWER SENSOR HOT/COLD FAUCET 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 AND FAUCET WITH 1.0 GPM AERATOR FURNISHED BY OWNER) COHEN SHALL INSTALL WALK-IN, STAINLESS STEEL SINK AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE LF175 SUPPLIES WITH STOPS AND A MCGUIRE 8912 POLISHED CHROME P-TRAP. ADJUST FAUCET OUTLET TEMPERATURE TO 110 DEGREES F (OR HIGHER AS REQUIRED BY LOCAL JURISDICTION).

P-6 SERVING COUNTER DROP IN SINK ROUGH IN: (SINK AND FAUCET WITH 1.0 GPM AERATOR FURNISHED BY OWNER) CONTRACTOR SHALL INSTALL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE 8912 POLISHED CHROME P-TRAP AND MCGUIRE LF175 STOPS WITH 20" CHROME PLATED 3/8" COPPER RISERS. 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, CARTRIDGE, 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. NO SUBSTITUTIONS. SEE ALSO P-16.

P-8 VEGETABLE PREP SINK ROUGH-IN: (SINK AND FAUCET WITH 0.65 GPM SPRAY HEAD FURNISHED BY OWNER) CONTRACTOR SHALL INSTALL SINK AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE LFST08 STOPS AND BRASSCRAFT 36" CHROME PLATED 1/2" OD COPPER RISERS MODEL 3-36AC, ASSEMBLE AND MOUNT TWO HANDLE FAUCET WITH PRE-RINSE SPRAY ARM. INSTALL ADD-ON FAUCET WITH 15" 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.

P-9 FOUR COMPARTMENT POT SINK ROUGH-IN: (SINK AND FAUCETS WITH 0.65 GPM SPRAY HEAD FURNISHED BY OWNER) CONTRACTOR SHALL INSTALL SINK, ASSEMBLE & MOUNT TWO FAUCETS, AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE LFST08 STOPS AND BRASSCRAFT 36" CHROME PLATED 1/2" OD COPPER RISERS MODEL 3-36AC. ASSEMBLE AND MOUNT ONE TWO-HANDLE FAUCET WITH PRE-RINSE SPRAY. INSTALL ADD-ON FAUCET WITH 18" 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 90 PVC (PIPE AND FITTINGS) INDIRECT WASTE LINES FROM EACH SINK BASIN TO FLOOR SINK P-13A, NO P-TRAPS REQUIRED.

P-10 FLOOR DRAIN (3"): JONES STEPHENS CORP D53-144 PVC BODY, BRONZE SPUD WITH 8" DIAMETER NICKEL BRONZE STRAINER. ALT: (JRS) 2110-HP-NB, (WTS) FD103-A8-60, (ZRN) FR08NIP3S-C.

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

P-12 FUNNEL DRAIN (3"): ZURN MODEL ZN415-3NL-8S-4 FLOOR DRAIN W/FUNNEL INDIRECT WASTE RECEIVER WITH NICKEL BRONZE STRAINER AND FUNNEL. PROVIDE 6" SQUARE STRAINER WITH 4" ROUND FUNNEL AT MACHINE & WALK-IN COOLER. ALT: (WTS) FD103P-M6-F4-1; (JRS) F506NIP3S-C.

P-13A FLOOR SINK (POT SINK): ZURN MODEL Z1901-KC-1-4NL-2-23 CAST IRON INDIRECT WASTE RECEIVER WITH 12" SQUARE BODY, FLASHING CLAMP, 10" DEEP ALUMINUM SEDIMENT BUCKET, AND NO GRATE. NO SUBSTITUTIONS.

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. NO SUBSTITUTIONS.

P-13DW FLOOR SINK (DISHWASHER): ZURN MODEL Z1902-KC-3NL-3-23 CAST IRON INDIRECT WASTE RECEIVER WITH 12" SQUARE BODY, FLASHING CLAMP, 10" DEEP ALUMINUM SEDIMENT BUCKET, AND 3/4 GRATE. 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. ALT (X=PIPE DIA); (WTS) CO-20XP-S; (JRS) 4053L.

P-15 CLEANOUTS OUTSIDE BUILDING: ZURN Z1474-X-N EXTRA HEAVY DUTY CAST IRON CLEANOUT. "C.O." CAST IN COVER, ABS PLUG, NEO-LOOK OUTLET. ALT (X=PIPE DIA); (WTS) CO-X00-MF + CO-38X; (ZRN) Z1474-X-N (JRS) 4261L.

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 G20-003 OR EQUAL). PROVIDE WITH ONE ASSE 1011 APPROVED CHROME PLATED VACUUM BREAKER (WOODFORD MODEL 34H-CH OR EQUAL). 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.

P-18 EXPANSION TANK: STATE INDUSTRIES MODEL ETC-5X. ACCEPTANCE 3.05 GALLONS AT 40 PSI PRECHARGE, 3/4" CONNECTION. ALTERNATE MODELS SIZED PER WATER HEATER MANUFACTURER RECOMMENDATIONS ARE ACCEPTABLE.

P-19 WATER HEATER: STATE INDUSTRIES SUF-60-120-NE STORAGE TYPE GAS FIRED 60 GALLON WATER HEATER, 120MBH INPUT, 137 GPH RECOVERY AT 100F RISE, DIRECT VENT, BLOWER POWERED, NON-CONDENSING TYPE WITH ONE-YEAR WARRANTY. CONTRACTOR TO PROVIDE DIELECTRIC HEAT TRAP NIPPLES. A.O. SMITH BTH-150, RHEEM GHE80-130, AND BRADFORD-WHITE EF-60T-199-3N MODELS ARE ACCEPTABLE SUBSTITUTES.

P-20 THERMOMETER: PROVIDE THERICE MODEL B834 - 04 - 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.

P-22 MOP SINK CHECK VALVES: T&S BRASS 1/2" MODEL B-CVV1-2 BALL CHECK. UTILITY CONNECTION (ICE MAKER): PROVIDE A MCGUIRE MODEL LFHST06SB LEAD-FREE CHROME WHEEL ANGLE STOP, 1/2" FIP INLET AND OUTLET. PROVIDE CHROME WALL ESCUTCHEON. INSTALL WITH BFF 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. PROVIDE CHROME WALL ESCUTCHEON. INSTALL WITH BFF P-34.

P-25 SHOCK ABSORBER: ZURN Z1700-100 THRU Z1700-300 AS NEEDED. SIZE AS RECOMMENDED BY MANUFACTURER. 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: (WTS) FD-103P-AB-G-1; (JRS) SMITH 3510L03

P-26A TRAP SEAL PROTECTOR: PROVENT TRAP GUARD MODEL TG3H 3" TRAP SEAL INSERT FOR INTERIOR INSTALLATION AND REPLACEMENT ACCESS THROUGH STRAINER. PROVIDE AT P-35 FLOOR DRAINS IN RESTROOMS, P-37 FLOOR DRAINS IN DINING ROOM, AND P-26 FUNNEL DRAINS IN MECH ROOM. TRAP GUARDS TO BE USED ALONG WITH MECHANICAL TRAP PRIMERS.

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

P-28 BALL VALVE: NIBCO MODEL 4660-T, 3/4", WITH IPS INLET AND OUTLET.

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=RAIN WIDTH, 18"/36"/48") (PROVIDED BY HJC). NO SUBSTITUTIONS

P-30 FILTERED WATER FAUCET: (FAUCET PROVIDED BY OWNER) 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, BRASS OPERATING ROD, ASSE 1052 APPROVED AND 24" DEPTH OF BURY.

P-32 DUMPSTER PAD DRAIN: J.R. SMITH FIGURE NO. 2280C03 3" FLOOR DRAIN WITH 7-1/2" HINGED CAST IRON OTTED GRATE AND SEDIMENT BUCKET. PROVIDED AND INSTALLED BY SITE CONTRACTOR. ALT: (ZRN) Z415C-3NL-Y.

P-33 TRAP PRIMER (MECHANICAL TYPE): PRECISION PRODUCTS PR-500. PROVIDE DISTRIBUTION UNIT WHERE SERVING MULTIPLE DRAINS. PROVIDE SCREWDRIVER STOP AT PRIMER INLET. ALT: (WTS) TP-300A-DR.

P-34 DISPENSER BACKFLOW PREVENTER: WATTS MODEL #WLFRU22D ASSE 1024 RATED WITH 1/2" FIP INLET AND OUTLET, DUAL CHECK TYPE. PROVIDE 1/2" DIA X 2" LONG CHROME NIPPLE AT BFF INLET AND OUTLET. PROVIDE T&S BRASS MODEL B-0110 CHROME WALL BRACKET.

P-35 FLOOR DRAIN (3"): JONES STEPHENS CORP D50-064 PVC BODY, BRONZE SPUD WITH 6" DIAMETER NICKEL BRONZE STRAINER. SEE DWG P-101 FOR DRAINS IN RESTROOMS REQUIRING 1/2" TRAP PRIMER CONNECTION. ALT: (WTS) FD103-A6-60; (ZRN) FR08NIP3S-C.

P-36 BEVERAGE TOWER INDIRECT RECEIVER (3"): JONES STEPHENS CORP D53-144 PVC BODY, BRONZE SPUD WITH 8" DIAMETER NICKEL BRONZE STRAINER. ALT: (JRS) 2110-HP-NB, (WTS) FD103-A8-60; (ZRN) FR08NIP3S-C.

P-37 FLOOR DRAIN (3"): JONES STEPHENS CORP D50-076 PVC BODY, BRONZE SPUD WITH 8" SQUARE NICKEL BRONZE STRAINER. PROVIDE 1/2" TRAP PRIMER CONNECTION FOR DINING ROOM DRAINS. ALT: (WTS) FD103-M6-7-60; (ZRN) F506NIP3S-C.

P-38 HOT WATER CIRCULATING PUMP: TACO MODEL 006-SC7-FC. 1/2" UNION CONNECTIONS, INTEGRAL FLOW CHECK, 110 VAC, ELECTRICIAN TO PROVIDE AND WIRE PLUG AND CORD. 140 HP, 3 GPM AT 7 FT TOTAL DYNAMIC HEAD. PROVIDE CONTROL WIRING AND HONEYWELL MODEL L6006C 110 VAC AQUA-STAT, WITH ADJUSTABLE SETPOINT, MOUNTED DIRECTLY ON PIPE. SET SHUT-OFF TEMPERATURE AT 130 DEG F.

P-41C DISHWASHER SUPPLY VALVES (CHAMPION): FULL-PORT LEAD-FREE STAINLESS STEEL BALL VALVES (PROVIDED BY HJC) WITH SPLIT-RING BRACKET, CHROME FITTINGS, PIPE NIPPLES AND ESCUTCHEON AS DETAILED ON Z/P-302.

P-42 EMERGENCY THERMOSTATIC MIXING VALVE (EMERGENCY EYEWASH): BRADLEY MODEL S19-2000 FXE THERMOSTATIC TEMPERING VALVE. ANSI Z358.1 CERTIFIED FOR EMERGENCY FIXTURES, ASSE 1071 COMPLIANT, WITH DIAL THERMOMETER, INLET CHECK STOPS, ADJUSTABLE SETPOINT, ACCURATE WITHIN +/- 3 DEG F. INCLUDES INTEGRAL COLD WATER BYPASS WITH POSITIVE HOT WATER SHUT-OFF WHEN COLD WATER SUPPLY IS LOST. FACTORY SETPOINT OF 85 DEG F. MOUNTING BRACKET INCLUDED. FACTORY ASSEMBLED AND TESTED, ROUGH BRASS FINISH. NO SUBSTITUTIONS. CONTACT CHICK-FIL-A NATIONAL ACCOUNTS AT HAYNES, JONES & CADBURY FOR PRICING AND DELIVERY.

P-43 SUPPLY VALVE (RETHERMALIZER): FULL-PORT LEAD-FREE STAINLESS STEEL BALL VALVE (PROVIDED BY HJC) WITH SPLIT-RING BRACKET, CHROME FITTINGS, PIPE NIPPLES AND ESCUTCHEON AS DETAILED ON 3/P-302.

NATIONAL ACCOUNTS

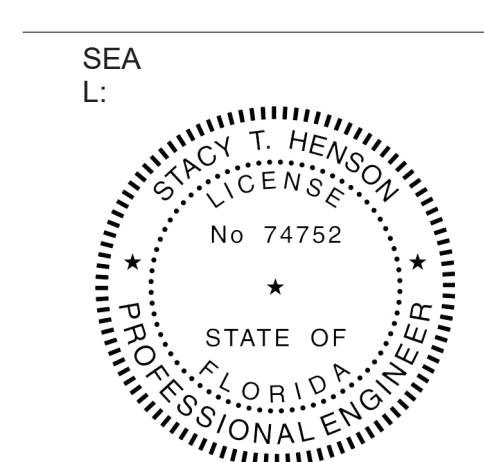
Table with 1 row: 1. TOTO VALVES AND FIXTURES (NO SUBSTITUTIONS). HAINES, JONES & CADBURY LLC. (HJC DISTRIBUTORS). PLEASE CONTACT HJC-CFA CUSTOMER SERVICE REPRESENTATIVE AT (800) 459-7099 OR VIA E-MAIL AT: CFA@HJCINC.COM FOR NATIONAL ACCOUNT PRICING AND DELIVERY FOR ALL ITEMS ON PLUMBING FIXTURE SCHEDULE.



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

INTERPLAN ARCHITECTURE ENGINEERING INTERIOR DESIGN PROJECT MANAGEMENT

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This form has been digitally signed and sealed by State of Florida on the



SECTION C16100  
ELECTRICAL GENERAL PROVISIONS

PART 1 - GENERAL

- 1.01 WORK INCLUDED
  - A. Provide all materials, labor and equipment required to furnish and install 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 include 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 diagrammatic 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 "A" MC is not allowed. All MC Cables shall have a green equipment ground conductor and an additional isolated ground (green + yellow stripes) 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.
- 1.03 INTERMEDIATE METAL CONDUIT (IMC)
  - A. Use Intermediate Metal Conduit (IMC) where drawings call for conduit to be:
    1. Installed for panelboard feeders.
    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, 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 ferrolloy. Provide gasketed cover by box manufacturer.
  - C. Manufacturers: National, Applenton, 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, Applenton, 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 mounting 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. 6 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 wire 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 stripes. 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.

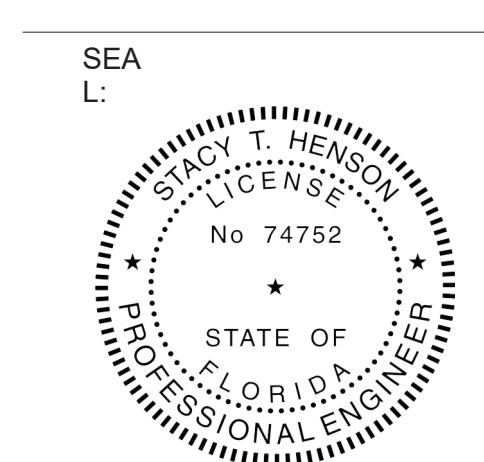
- 2.02 GROUNDING
  - A. Ground electrical system in accordance with NEC Article 250 and local authorities having jurisdiction.
  - B. Install a #3/0 bare copper wire bond across the water meter attached to ground clamps on water line on each side of meter. Arrangements shall be made to do this work at 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 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.



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CHICK-FIL-A  
INTERNATIONAL  
SPEEDWAY FSR  
100 N. Williamson Boulevard  
Daytona Beach, FL 32114

FSR#00866  
BUILDING TYPE / SIZE: P12 SE ALL  
RELEASE: v2:19.05

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #	
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SHEET  
ELECTRICAL  
SPECIFICATIONS

SHEET NUMBER

E-901



P12-SE PANEL-A												#STORE		
PANELBOARD DESCRIPTION				BREAKER OPTIONS				LOADS						
PANELBOARD NAME: A													32.69	
MANUFACTURER / TYPE: SQ-D / NO													29.56	
VOLTS: 208 / 120													29.56	
PHASE / WIRE: 3 / 4													29.56	
MAIN TYPE / CU BUS AMPS: MLO / 250 AMP													246.3	
AIC SERIES RATING: 65K/10K													244.2	
MOUNTING: FLUSH													91.54	
NEMA RATING: ST													71.77	
QUANTITY OF SECTIONS: 1													254.1	
PANEL WIDTH: 20 INCHES													199.2	
PH	CR	LOAD DESCRIPTION	EQ	LOAD TYPE	LOAD	CIR BKR	LOAD	EQ	LOAD TYPE	LOAD	PH	PH	Notes	
1		TELEPHONE D/T VIDEO	R	0.540	201	A	201	1.650	K	305	TEA BREWER	2	H	
3		OFFICE GEN & MUSIC	R	0.540	201	B	201	1.650	K	305	TEA BREWER	4	H	
5		OFFICE GENPRINTER	R	0.720	201	C	201	1.200	K		REACH-IN FREEZER	6	H	
H	7	DRINK TOWER	315W	R	1.200	201	A	201	1.160	R	DAR PRO	8	H	
9		GENERAL OUTLET	R	0.540	201	B	201/HM	1.490	K		PANEL POS THRU PIB	10	I	
11		GENERAL OUTLETS	R	0.720	201	C	201	1.200	K	315W	DRINK TOWER	12	H	
H	13	U.C. REFRIG	420	X	0.564	201/L0	A	201	1.200	K	315W	DRINK TOWER	14	H
H	15	U.C. REFRIG	420	X	0.564	201/L0	B	201/L0	0.360	R	SECURITY SYSTEM	16	H	
I	17	U.C. REFRIG	421	X	0.756	201/GF	C		0.794	X		18	H	
H	19	U.C. REFRIG	420	X	0.564	201	A	203/L0	0.794	X	446	COOLER CONDENSER AND FAN COOL	20	H
21		COMPACTOR	R	0.180	201	B		0.690	X			22	H	
I	23	SANDWICH SLIDE	563D	K	1.090	201/GF	C	201	1.200	K	315W	DRINK TOWER	24	H
I	25	SANDWICH SLIDE	563S	K	0.540	201/GF	A		1.726	X		26	H	
I	27	CARBONATOR	320	K	0.864	201	B	353/L0	1.882	X	410	FREEZER CONDENSER AND FAN COOL	28	H
I	29	CARBONATOR	320	K	0.864	201	C		1.882	X		30	H	
I	31	CARBONATOR	320	K	0.864	201	A	201/GF	0.500	MS	410	FREEZER HEAT TAPE	32	I
I	33	CARBONATOR	320	K	0.864	201	B	201	0.500	K		FUTURE EQUIPMENT	34	H
35		BOOSTER PUMP	M1	1.144	201	C		4.992	K			36	H	
37		BOOSTER PUMP	M1	1.144	202	A		4.056	K	120	FRANKE COLD TABLE	38	H	
H	39	GENERAL OUTLETS	R	0.900	201	B		4.056	K			40	H	
H	41	FUT. EQUIP	R	0.900	201	C		1.844	K			42	H	
H	43	DRINK TOWER	315W	K	1.200	201	A	603	4.544	K	120A	FRANKE HOT TABLE	44	H
H	45	JUICE DISPENSER	K	1.200	201	B		3.060	K			46	H	
I	47	EGG STATION	503T	K	1.250	202	C		4.296	K	120C	FRANKE TOASTER TABLE	48	H
I	49	EGG STATION	503T	K	1.250	202	B	603	4.296	K		50	H	
I	51	EGG STATION	503T	K	1.250	202	C		4.296	K		52	H	
I	53	OMD CANOPY FANS	K	1.250	202	C	201	1.200	K			54	H	
55		ROOFTOP UNIT AC-2 (12.5 TON UNIT)	AC-2	HV	11.04							56	H	
57		ROOFTOP UNIT AC-2 (12.5 TON UNIT)	AC-2	HV	11.04	1103						58	H	
59		SPACE NOT USED										60	H	
61		SPACE NOT USED						2633	K			62	H	
63		SPACE NOT USED						2633	K			64	I	
65		SPACE NOT USED						2633	K			66	H	
67		SPACE NOT USED						2633	K			68	H	
I	69	VICTOR OVEN	505VT	K	2633	303	B	303	2633	K		FUT. VICTOR OVEN	70	I
71		SPACE NOT USED						2633	K			72	H	

PANELBOARD LOAD SUMMARY											
LOAD DESCRIPTION	TYPE	(KVA) X	DEMAND FACTOR	=	DIVERSIFIED KVA						
LIGHTING	L	0.000	1.25		0.000						
EXTERIOR LIGHTING & SIGNAGE	EL	0.000	1		0.000						
RECEPTACLES	R	4.320	PER=(KVA@50%)		4.320						
MISCELLANEOUS	MS	1.890	1.25		4.485						
HVAC	HV	23.400	1		23.400						
HEAT	HT	0.000	1		0.000						
SINGLE PHASE MOTOR	M1	2.288	1.25		2.860						
KITCHEN EQUIPMENT	K	49.330	0.65		32.065						
KITCHEN REFRIG EQUIPMENT	X	10.216	0.65		6.640						
<b>TOTAL</b>					<b>91.544</b>						

\*APIO INDICATES CIRCUIT BREAKER AMPACITY. POLE OPTIONS WITH OPTIONS AS NECESSARY.

P12-SE PANEL-B												#STORE		
PANELBOARD DESCRIPTION				BREAKER OPTIONS				LOADS						
PANELBOARD NAME: B													27.36	
MANUFACTURER / TYPE: SQ-D / NO													28.98	
VOLTS: 208 / 120													23.24	
PHASE / WIRE: 3 / 4													228	
MAIN TYPE / CU BUS AMPS: MLO / 250 AMP													241.5	
AIC SERIES RATING: 65K/10K													193.7	
MOUNTING: FLUSH													79.58	
NEMA RATING: ST													65.15	
QUANTITY OF SECTIONS: 1													220.9	
PANEL WIDTH: 20 INCHES													180.9	
PH	CR	LOAD DESCRIPTION	EQ	LOAD TYPE	LOAD	CIR BKR	LOAD	EQ	LOAD TYPE	LOAD	PH	PH	Notes	
H	1	GENERAL OUTLETS	R	0.360	201	A	201/GF	0.756	X	431	WORKTOP REFRIG	2	I	
H	3	GENERAL OUTLETS	R	0.360	201	B	201	1.500	K	565C	FOOD COOKER/WARMER	4	H	
H	5	GENERAL OUTLET	R	0.180	201	C	201	0.180	R		GENERAL OUTLET	6	H	
H	7	MILKSHAKE DISPENSER	300M	K	1.120	201	A	201	0.180	R		8	H	
H	9	ROOF MTD ICE MAKER	380C	X	1.704	253	C	201/GF	1.126	K	400	FRY FREEZER	10	H
H	11	ROOF MTD ICE MAKER	380C	X	1.704	253	C	201/GF	1.840	K	560	FRY HOLDING STATION	12	I
H	13	ROOF MTD ICE MAKER	380C	X	1.704	253	C	201/GF	1.840	K	560	FRY HOLDING STATION	14	I
F	15	INTERIOR ICE MAKER	380	X	0.600	151/GF	B	201	0.500	M1		D.T. WINDOW	16	H
H	17	JUICE DISPENSER	310	K	0.943	201	C		1.704	X		18	H	
I	19	ICE DREAM MACHINE	300X	K	2.280	201	A	253	1.704	X	380C	ROOF MTD ICE MAKER	20	H
I	21	ICE DREAM MACHINE	300X	K	2.280	253/L0	B		1.704	X		22	H	
I	23	ICE DREAM MACHINE	300X	K	2.280	201	C	151/GF	0.600	X	380	INTERIOR ICE MAKER	24	F
H	25	ROOF RECEPTACLES	R	0.720	201	A	201	1.500	X	444	THAWING CABINET	26	H	
H	27	DINING AREA OUTLETS	R	1.080	201	B	201	1.500	X	444	THAWING CABINET	28	H	
H	29	DINING AREA OUTLETS	R	1.080	201	C	201/L0				FACP (WHEN RECD)	30	H	
I	31	FLY LIGHT SYSTEM	MS	0.384	201/GF	A	201	1.920	X	444	FUTURE THAW CABINET	32	H	
H	33	JUICE DISPENSER	310	K	0.943	201	B	201	0.360	EL		REFUSE ENCLOSURE	34	H
H	35	LEMON JUICER STAND	607	R	0.180	201	C	201/L0	0.360	MS	T-500/SHUNT TRIP	36	H	
I	37	ICE DREAM MACHINE	300X	K	1.800	201	A	302	2.000	K	308	COFFEE MAKER	38	I
I	39	ICE DREAM MACHINE	300X	K	1.800	203/L0	B		2.000	K		40	I	
I	41	HEATED AIR DOOR	AD-1	HT	2.628	453	B	201	0.960	M1	AD-2	UNHEATED AIR DOOR	42	H
I	43	HEATED AIR DOOR	AD-1	HT	2.628	453	B	201	2.185	M1		OPTIONAL COMPRESSOR	44	H
I	45	HEATED AIR DOOR	AD-1	HT	2.628	453	B	201	1.800	M1	TC	TRASH COMPACTOR	46	H
I	47	HEATED AIR DOOR	AD-1	HT	2.628	453	B	201	1.800	M1	TC	TRASH COMPACTOR	50	H
I	49	HEATED AIR DOOR	AD-1	HT	2.628	453	B	201	1.800	M1	TC	TRASH COMPACTOR	52	H
I	51	ROOF MTD ICE MAKER	380C	X	1.704	253	C	151/GF	0.600	X	380	INTERIOR ICE MAKER	54	F
I	55	ROOFTOP UNIT AC-4 (3 TON UNIT)	AC-4	HV	2.760			201	1.500	K		UC REFRIG	56	I
I	57	ROOFTOP UNIT AC-4 (3 TON UNIT)	AC-4	HV	2.760	303	B	201	0.360	R		GENERAL OUTLET	58	I
I	59	ROOFTOP UNIT AC-4 (3 TON UNIT)	AC-4	HV	2.760	303	B	201	1.800	K		UC REFRIG	60	I
I	61	ICE DREAM MACHINE	300X	K	1.800	201	A	201	1.800	K		UC REFRIG	62	I
I	63	ICE DREAM MACHINE	300X	K	1.800	203/L0	B	201	1.800	K		FOOD COOKER	64	I
I	65	ICE DREAM MACHINE	300X	K	1.800	201	C	201	0.360	R		TMS	66	I
I	67	ICE DREAM MACHINE	300X	K	1.800	201	A	201	0.360	R		TMS	68	I
I	69	ICE DREAM MACHINE	300X	K	1.800	203/L0	B	201	0.360	R		TMS	70	I
I	71	ICE DREAM MACHINE	300X	K	1.800	201	C	201	0.360	R		TMS	72	I

PANELBOARD LOAD SUMMARY											
LOAD DESCRIPTION	TYPE	(KVA) X	DEMAND FACTOR	=	DIVERSIFIED KVA						
LIGHTING	L	0.000	1.25		0.000						
EXTERIOR LIGHTING & SIGNAGE	EL	0.380	1		0.380						
RECEPTACLES	R	5.940	PER=(KVA@50%)		5.940						
MISCELLANEOUS	MS	0.744	1.25		0.930						
HVAC	HV	8.280	1		8.280						
HEAT	HT	7.884	1		7.884						
SINGLE PHASE MOTOR	M1	9.045	1.25		11.306						
KITCHEN EQUIPMENT	K	24.454	0.65		15.660						
KITCHEN REFRIG EQUIPMENT	X	23.652	0.65		15.374						
<b>TOTAL</b>					<b>79.579</b>						

\*APIO INDICATES CIRCUIT BREAKER AMPACITY. POLE OPTIONS WITH OPTIONS AS NECESSARY.

P12-SE-LG PANEL-C												#STORE			
PANELBOARD DESCRIPTION				BREAKER OPTIONS				LOADS							
PANELBOARD NAME: C													22.89		
MANUFACTURER / TYPE: SQ-D / NO													22.89		
VOLTS: 208 / 120													27.3		
PHASE / WIRE: 3 / 4													157.8		
MAIN TYPE / CU BUS AMPS: MLO / 250 AMP													189.1		
AIC SERIES RATING: 65K/10K													231.7		
MOUNTING: FLUSH													69.42		
NEMA RATING: ST													68.86		
QUANTITY OF SECTIONS: 1													192.7		
PANEL WIDTH: 20 INCHES													194.4		
PH	CR	LOAD DESCRIPTION	EQ	LOAD TYPE	LOAD	CIR BKR	LOAD	EQ	LOAD TYPE	LOAD	PH	PH	Notes		
J	1	KITCHEN LTG	L	0.923	201	A	201/GF	1.260	K				DROP CORD OUTLET	2	I
J	3	KITCHEN LTG	L	0.789	201	B	201/GF	1.440	X	440			FUTURE BREAD TABLE		

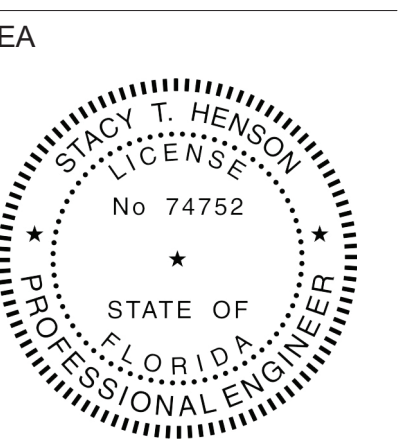


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**CHICK-FIL-A  
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SPEEDWAY FSR**  
100 N. Williamson Boulevard  
Daytona Beach, FL 32114

**FSR#00866**  
BUILDING TYPE / SIZE: P12 SE ALL  
RELEASE: v2\_19.05

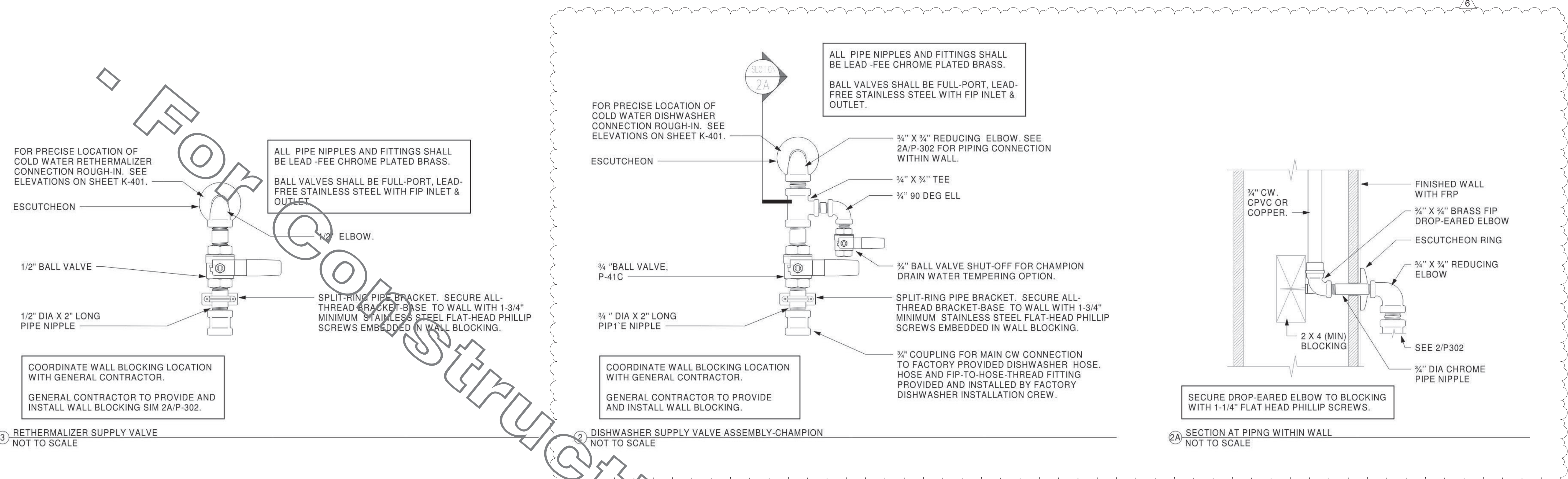
**REVISION SCHEDULE**

NO.	DATE	DESCRIPTION
1	12/04/20	OWNER REVISIONS
3	11/12/21	OWNER REVISIONS

**CONSTRUCTION**

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SHEET	WATER RISER DIAGRAM
SHEET NUMBER	P-302

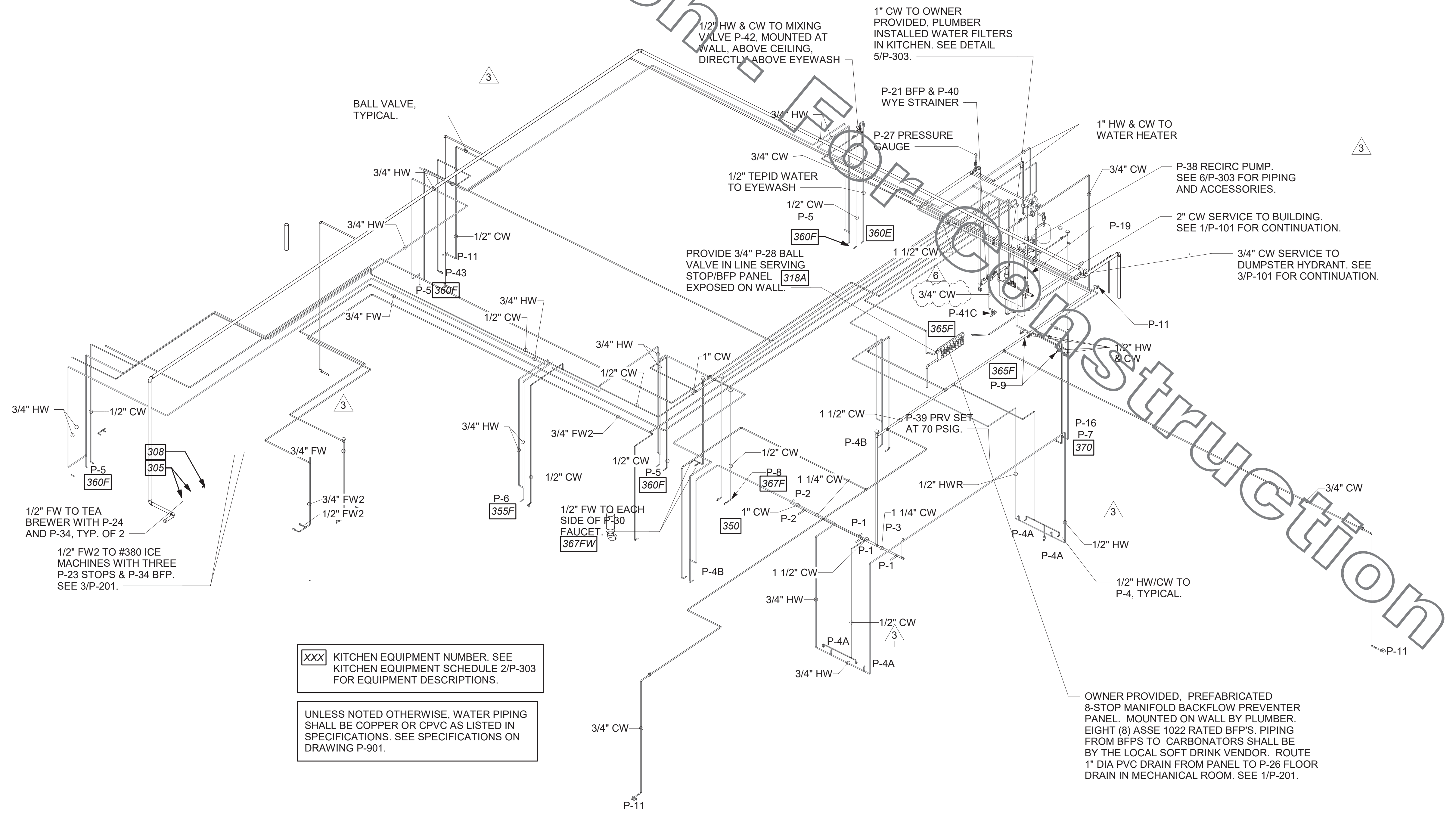
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3 RETHERMALIZER SUPPLY VALVE  
NOT TO SCALE

2 DISHWASHER SUPPLY VALVE ASSEMBLY-CHAMPION  
NOT TO SCALE

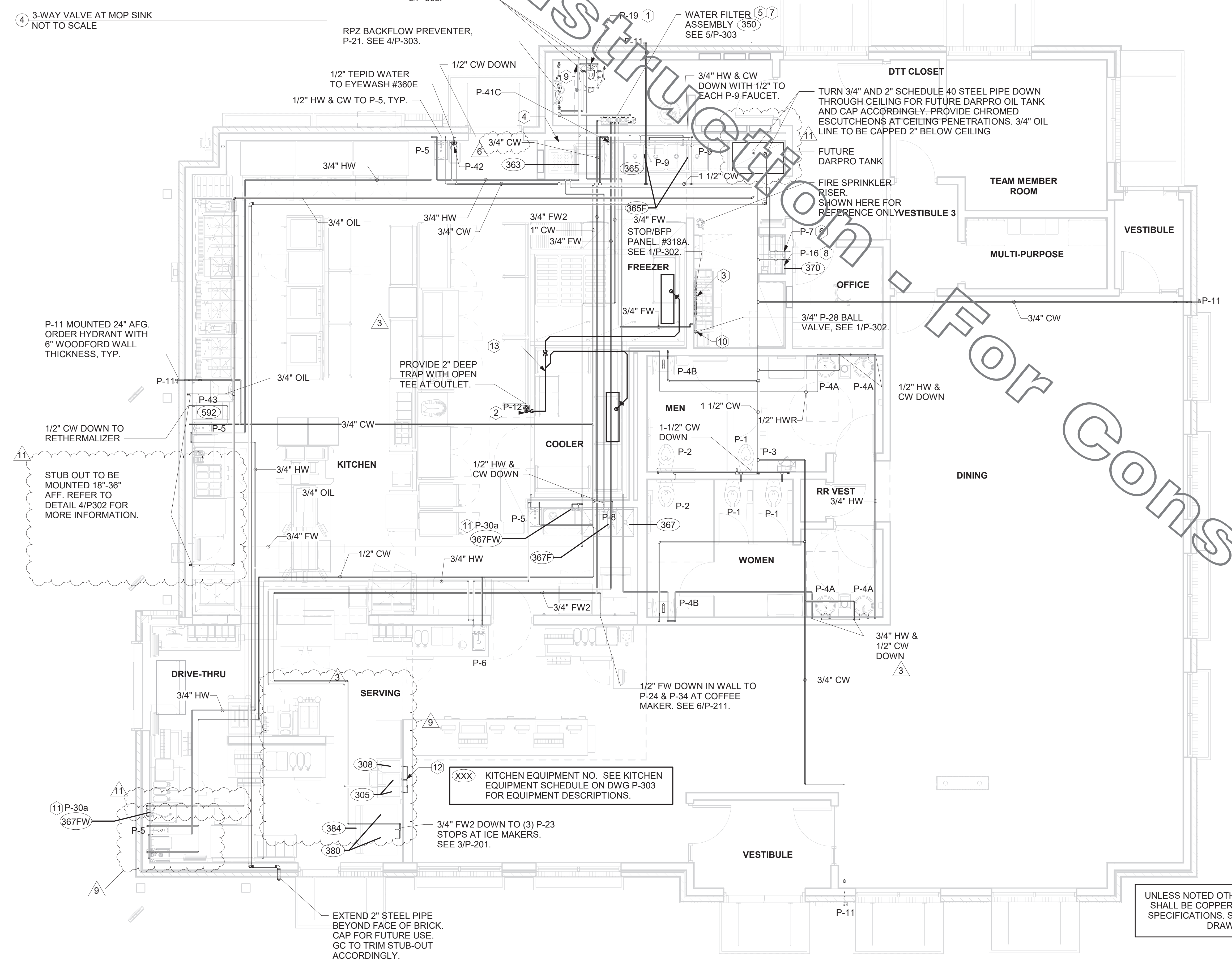
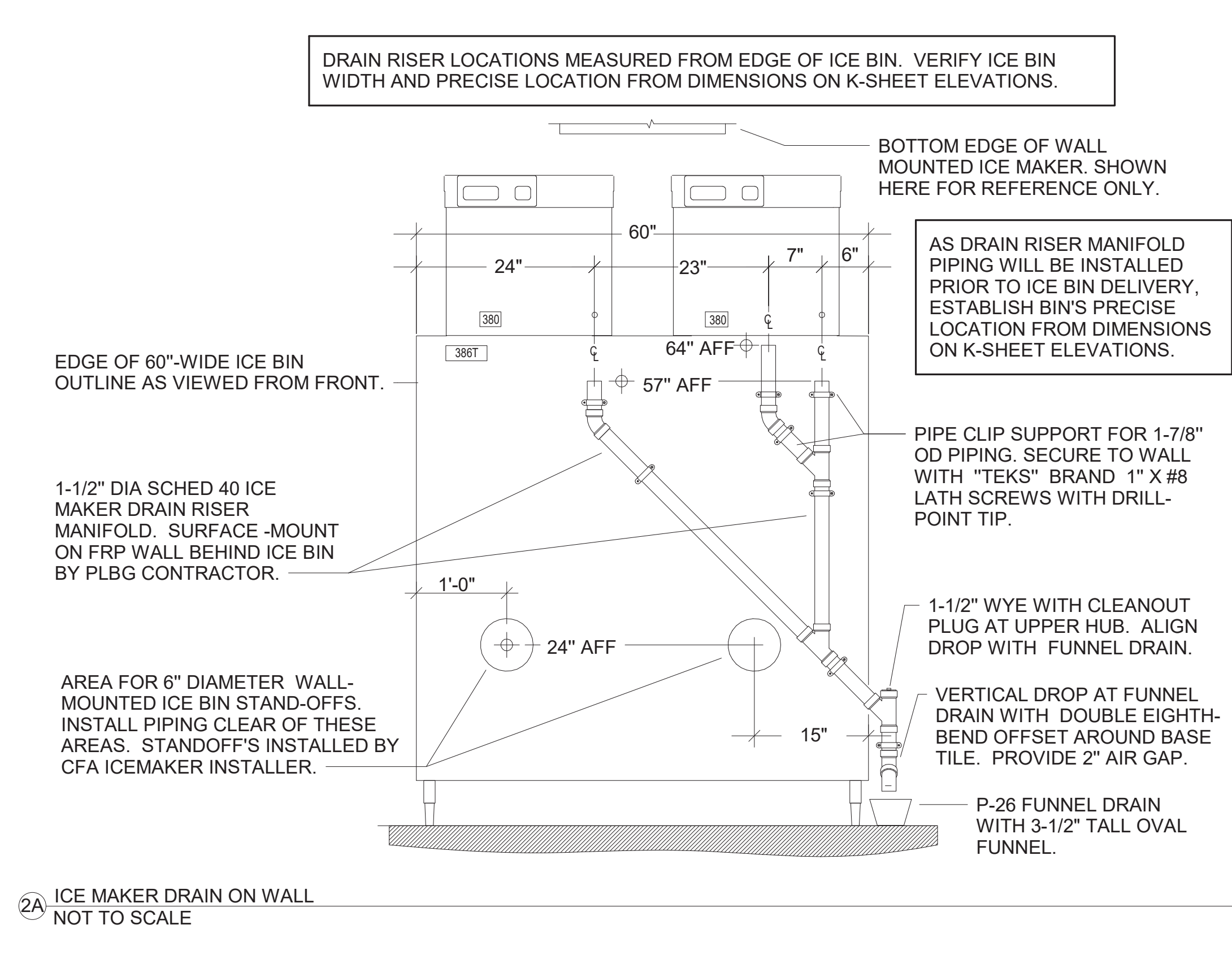
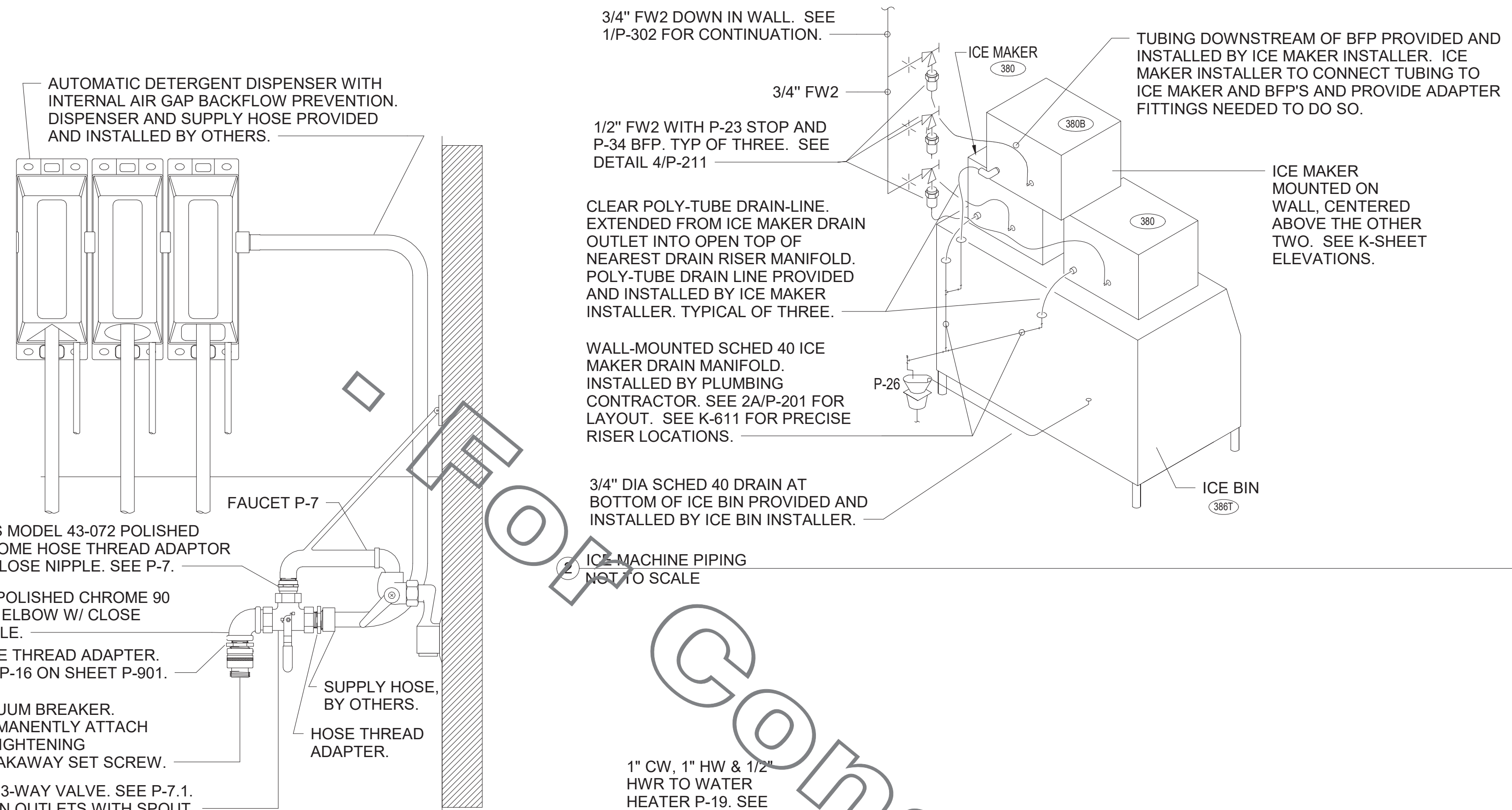
2A SECTION AT PIPING WITHIN WALL  
NOT TO SCALE



1 WATER RISER DIAGRAM

XXX KITCHEN EQUIPMENT NUMBER. SEE KITCHEN EQUIPMENT SCHEDULE 2/P-303 FOR EQUIPMENT DESCRIPTIONS.  
UNLESS NOTED OTHERWISE, WATER PIPING SHALL BE COPPER OR CPVC AS LISTED IN SPECIFICATIONS. SEE SPECIFICATIONS ON DRAWING P-901.

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12/12/2022 12:52:15 PM  
40-SE-00866-P-302-WATER RISER DIAGRAM



**KEY NOTES**

- SEE 6/P-303 FOR P-19 WATER HEATER, AND P-38 HOT WATER CIRCULATING PUMP. COORDINATE WATER AND DWV PIPING IN THIS AREA WITH HVAC DUCT. SEE M-201 FOR DUCT LAYOUT.
- 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.
- 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.
- 2" CW. SEE 4/P-303 FOR EXACT ROUTING LOCATIONS OF CW PIPING IN THIS AREA.
- 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.
- 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.
- FW AND FW2 FROM WATER FILTERS. SEE DETAIL 5/P-303.
- 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.
- 1" GAS DOWN FROM ROOF FOR P-19. SEE 6/P-303 FOR CONTINUATION. OFFSET DROP WITHIN WALL ABOVE MECH ROOM CEILING.
- 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.
- 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.
- 1/2" FW TO P-24 & P-34 AT TWO TEA BREWERS. SEE 6/P-211 AND 1/P-302.
- APPLY RAYOVHEM 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**

- COORDINATE VENT TERMINAL LOCATIONS WITH FRESH AIR HOODS ON ROOFTOP EQUIPMENT SO AS TO MAINTAIN MINIMUM 15'-0" CLEARANCE.
- HOLD ALL PIPING ABOVE THE CEILING TIGHT TO STRUCTURE. DUCT LOCATIONS TAKE PRIORITY. SEE DRAWING M-201 FOR DUCT LAYOUT. COORDINATE CONFLICTS WITH GC.
- SEE K-SHEET ELEVATIONS FOR KITCHEN EQUIPMENT WATER PIPING ROUGH-IN LOCATIONS.
- SEE SHEET P-211 FOR BEVERAGE CONDUIT PIPING.
- SEE RISER DIAGRAM 1/P-301 FOR VENT PIPING. SEE ROOF PLAN 1/P-250 FOR VENT THRU ROOF (WTR) LOCATION.
- VERIFY WALL TYPE AND WALL THICKNESS AT EXTERIOR HOSE BIBBS PRIOR TO ORDERING EQUIPMENT.
- WATER HEATER PIPING IS SHOWN FOR STATE/A.O. SMITH MODELS WITH SIDE INLET/OUTLET CONNECTIONS. ADJUST PIPING AS NEEDED TO ACCOMMODATE OTHER CONNECTION POINTS WHEN ALTERNATE MODELS ARE PROVIDED.
- 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.

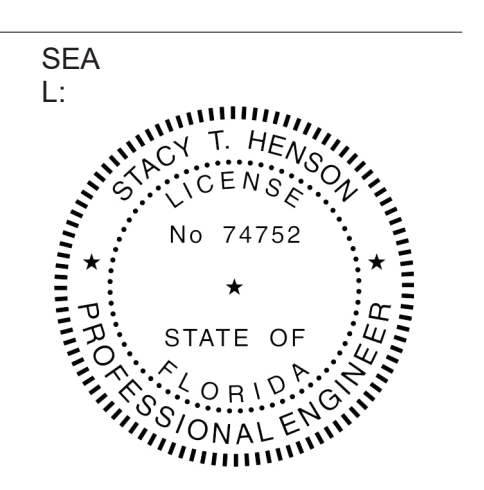
UNLESS NOTED OTHERWISE, WATER PIPING SHALL BE COPPER OR CPVC AS LISTED IN SPECIFICATIONS. SEE SPECIFICATIONS ON DRAWING P-901.

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



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

**INTERPLAN**  
 ARCHITECTURE  
 ENGINEERING  
 INTERIOR DESIGN  
 PROJECT MANAGEMENT  
 LOUISE CRAVER, #A00012641  
 A00011595  
 CA 8660  
 604 COURTLAND STREET  
 SUITE 100  
 ORLANDO, FLORIDA 32804  
 PH 407.645.5308  
 FX 407.629.9124



**CHICK-FIL-A**  
 INTERNATIONAL  
 SPEEDWAY FSR  
 100 N. Williamson Boulevard  
 Daytona Beach, FL 32114

**FSR#00866**  
 BUILDING TYPE / SIZE: P12 SE ALL  
 RELEASE: v2\_19.05

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
1		
3	12/04/20	OWNER REVISIONS
6	11/12/21	OWNER REVISIONS
9	07/28/22	OWNER REVISIONS
11	11/04/22	OWNER REVISIONS

CONSTRUCTION	
CONSULTANT PROJECT #	2018.0632
PRINTED FOR	CONSTRUCTION
DATE	08/16/19
DRAWN BY	JL
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SHEET WATER PIPING PLAN	
SHEET NUMBER	

**P-201**

P12-SE														PANEL-A														#STORE													
PANELBOARD DESCRIPTION														BREAKER OPTIONS														LOADS													
PANELBOARD NAME:														ARC-FAULT:														KVA PHASE A													
MANUFACTURER / TYPE:														GROUND FAULT:														KVA PHASE B													
VOLTS:														HADR:														KVA PHASE C													
PHASE / WIRE:														HID LTG RATED:														AMPS PHASE A													
MAIN TYPE / CU BUS AMPS:														HIGH MAG LOAD:														AMPS PHASE B													
AIC SERIES RATING:														ISOLATED GROUND:														AMPS PHASE C													
MOUNTINGS:														LOCK-ON:														KVA CONNECTED													
NEMA RATING:														SHUNT TRIP:														KVA DIVERSIFIED													
QUANTITY OF SECTIONS:														SWITCH RATED:														AMPS CONNECTED													
PANEL WIDTH:														20 INCHES														AMPS DIVERSIFIED													
PH	CR	LOAD	EQ	LOAD	LOAD	CIR BKR	PH	CIR BKR	LOAD	LOAD	EQ	LOAD	LOAD	CIR	PH	LOAD	EQ	LOAD	LOAD	CIR	PH																				
Notes	NO	DESCRIPTION	NO	TYPE	KVA	*APIO	KVA	TYPE	NO	DESCRIPTION	NO	TYPE	KVA	TYPE	NO	DESCRIPTION	NO	TYPE	KVA	TYPE	NO	Notes																			
1		TELEPHONE D/VIDEO	R	0.540	201	A	201	1.650	K	305	TEA BREADER	2	H																												
3		OFFICE GEN & MUSIC	R	0.540	201	B	201	1.650	K	305	TEA BREADER	4	H																												
5		OFFICE GEN/PRINTER	R	0.720	201	C	201	1.200	K		REACH-IN FREEZER	6	H																												
H	7	DRINK TOWER	315W	X	1.200	201	A	201	1.160	R		DAR PRO	8	H																											
9		GENERAL OUTLET	R	0.540	201	B	201	1.650	K		PANEL-POS THRU PIB	10	H																												
11		GENERAL OUTLETS	R	0.720	201	C	201	1.200	K		315W DRINK TOWER	12	H																												
H	13	U.C. REFRIG	420	X	0.564	201/L0	A	201	1.200	K	315W	DRINK TOWER	14	H																											
H	15	U.C. REFRIG	420	X	0.564	201/L0	B	201	1.200	K		SECURITY SYSTEM	16	H																											
H	17	U.C. REFRIG	420	X	0.564	201/L0	C	201	1.200	K		SECURITY SYSTEM	18	H																											
H	19	U.C. REFRIG	420	X	0.564	201/L0	A	201	1.200	K	446	COOLER CONDENSER AND	20	H																											
H	21	COMPACTOR	R	0.180	201	B	201	1.650	K		0.690	X	22	H																											
I	23	SANDWICH SLDG	563D	K	1.090	201/GF	C	201	1.200	K	315W	DRINK TOWER	24	H																											
I	24	SANDWICH SLDG	563S	K	1.090	201/GF	A	201	1.200	K		DRINK TOWER	26	H																											
I	27	CARBONATOR	320	K	0.864	201	B	35	0.300	L0	1.882	X	410	FREEZER CONDENSER AND	28	H																									
I	29	CARBONATOR	320	K	0.864	201	C	201	1.200	K		1.882	X	30	H																										
I	31	CARBONATOR	320	K	0.864	201	A	201	1.200	K	0.500	MS	410	FREEZER HEAT TAPE	32	I																									
I	33	CARBONATOR	320	K	0.864	201	B	201	1.200	K		0.500	MS	410	FUTURE EQUIPMENT	34	H																								
I	35	BOOSTER PUMP	330	M	1.144	202	C	201	4.992	K		4.992	K	36	H																										
I	37	BOOSTER PUMP	330	M	1.144	202	A	201	4.992	K		4.992	K	36	H																										
H	39	GENERAL OUTLETS	R	0.900	201	B	201	4.056	K		1.20	FRANKE COLD TABLE	40	H																											
H	41	FUT. EQUIP	R	0.900	201	C	201	4.056	K		1.20	FRANKE COLD TABLE	42	H																											
H	43	DRINK TOWER	315W	X	1.200	201	A	603	4.544	K	120A	FRANKE HOT TABLE	44	H																											
H	45	JUICE DISPENSER	K	1.200	201	B	201	3.060	K		0.800	X	46	H																											
H	47	EGG STATION	503T	K	1.250	202	C	201	4.296	K		4.296	K	48	H																										
H	49	EGG STATION	503T	K	1.250	202	A	201	4.296	K		4.296	K	48	H																										
H	51	EGG STATION	503T	K	1.250	202	B	201	4.296	K		4.296	K	48	H																										
H	53	EGG STATION	503T	K	1.250	202	C	201	4.296	K		4.296	K	48	H																										
H	55	ROOFTOP UNIT AC-2	AC-2	HV	11.04	1103	B	302	1.250	K		FUT. EGG STATION	56	H																											
H	57	ROOFTOP UNIT AC-2	AC-2	HV	11.04	1103	C	201	1.250	K		FUT. EGG STATION	58	H																											
H	59	ROOFTOP UNIT AC-2	AC-2	HV	11.04	1103	A	201	1.250	K		FUT. EGG STATION	60	H																											
H	61	VICTOR OVEN	505VT	K	2.633	303	B	303	2.633	K		VICTOR OVEN	62	H																											
H	63	VICTOR OVEN	505VT	K	2.633	303	C	201	2.633	K		VICTOR OVEN	64	H																											
H	65	VICTOR OVEN	505VT	K	2.633	303	A	201	2.633	K		VICTOR OVEN	66	H																											
H	67	TMS	R	0.180	201	B	201	0.65	K		303	FUT VICTOR OVEN	68	H																											
H	69	TMS	R	0.180	201	C	201	0.65	K		303	FUT VICTOR OVEN	70	H																											
H	71	TMS	R	0.180	201	A	201	0.65	K		303	FUT VICTOR OVEN	72	H																											

P12-SE														PANEL-B														#STORE													
PANELBOARD DESCRIPTION														BREAKER OPTIONS														LOADS													
PANELBOARD NAME:														ARC-FAULT:														KVA PHASE A													
MANUFACTURER / TYPE:														GROUND FAULT:														KVA PHASE B													
VOLTS:														HADR:														KVA PHASE C													
PHASE / WIRE:														HID LTG RATED:														AMPS PHASE A													
MAIN TYPE / CU BUS AMPS:														HIGH MAG LOAD:														AMPS PHASE B													
AIC SERIES RATING:														ISOLATED GROUND:														AMPS PHASE C													
MOUNTINGS:														LOCK-ON:														KVA CONNECTED													
NEMA RATING:														SHUNT TRIP:														KVA DIVERSIFIED													
QUANTITY OF SECTIONS:														SWITCH RATED:														AMPS CONNECTED													
PANEL WIDTH:														20 INCHES														AMPS DIVERSIFIED													
PH	CR	LOAD	EQ	LOAD	LOAD	CIR BKR	PH	CIR BKR	LOAD	LOAD	EQ	LOAD	LOAD	CIR	PH	LOAD	EQ	LOAD	LOAD	CIR	PH																				
Notes	NO	DESCRIPTION	NO	TYPE	KVA	*APIO	KVA	TYPE	NO	DESCRIPTION	NO	TYPE	KVA	TYPE	NO	DESCRIPTION	NO	TYPE	KVA	TYPE	NO	Notes																			
H	1	GENERAL OUTLETS	R	0.360	201	A	201	1.080	K	565C	WORKTOP REFRIG	2	I																												
H	3	GENERAL OUTLETS	R	0.360	201	B	201	1.080	K	565C	WORKTOP REFRIG	4	I																												
H	5	GENERAL OUTLET	R	0.180	201	C	201	0.180	R		GENERAL OUTLET	6	I																												
H	7	MIXSHAKE DISPENSER	300M	K	1.704	201	A	201	1.704	X		8	I																												
H	11	ROOF MTD ICE MAKER	380C	X	1.704	253	C	201	1.128	K	400	FRY FREEZER	8	I																											
H	13	ROOF MTD ICE MAKER	380C	X	1.704	253	B	201	1.128	K	400	FRY FREEZER	10	I																											
H	15	ROOF MTD ICE MAKER	380C	X	1.704	253	A	201	1.128	K	400	FRY FREEZER	12	I																											
H	17	ROOF MTD ICE MAKER	380C	X	1.704	253	C	201	1.128	K	400	FRY FREEZER	14	I																											
F	15	INTERIOR ICE MAKER	380	X	0.600	151/GF	B	201	0.500	M1	20	D.T. WINDOW	16	I																											
H	17	JUICE DISPENSER	310	K	0.943	201	C	201	1.704	X		18	I																												
H	19	JUICE DISPENSER	310	K	0.943	201	A	201	1.704	X		18	I																												
H	21	JUICE DISPENSER	310	K	0.943	201	B	201	1.704	X		18	I																												
H	23	JUICE DISPENSER	310	K	0.943	201	C	201	1.704	X		18	I																												
H	25	JUICE DISPENSER	310	K	0.943	201	A	201	1.704	X		18	I																												
H	27	JUICE DISPENSER	310	K	0.943	201	B	201	1.704	X		18	I																												
H	29	JUICE DISPENSER	310	K	0.943	201	C	201	1.704	X		18	I																												
H	31	JUICE DISPENSER	310	K	0.943	201	A	201	1.704	X		18	I																												
H	33	JUICE DISPENSER	310	K	0.943	201	B	201	1.704	X		18	I																												
H	35	JUICE DISPENSER	310	K	0.943	201	C	201	1.704	X		18	I																												
H	37	JUICE DISPENSER	310	K	0.943	201	A	201	1.704	X		18	I																												
H	39	JUICE DISPENSER	310	K	0.943	201	B	201	1.704	X		18	I																												
H	41	JUICE DISPENSER	310	K	0.943	201	C	201	1.704	X		18	I																												
H	43	JUICE DISPENSER	310	K	0.943	201	A	201	1.704	X		18	I																												
H	45	JUICE DISPENSER	310	K	0.943	201	B	201	1.704	X		18	I																												
H	47	JUICE DISPENSER	310	K	0.943	201	C	201	1.704	X		18	I																												
H	49	JUICE DISPENSER	310	K	0.943	201	A	201	1.704	X		18	I																												
H	51	JUICE DISPENSER	310	K	0.943	201	B	201	1.704	X		18	I																												





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 far 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 middle 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. Shall be purchased from the National Accounts Vendor indicated on the plans.  
B. Ratings: 20 amps, 120/277 volts a.c. or as identified on drawings.  
C. Devices: (Cooper/Arrow Hart catalog numbers are listed unless noted otherwise):  
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. Shall be purchased from the National Accounts Vendor indicated on the plans.  
B. Devices: (Cooper/Arrow Hart catalog numbers are listed unless otherwise noted):  
1. Specification grade devices (grey device color in Kitchen, brown device color in Dining, and orange for IG type) 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) or #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)  
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 Cooper/Arrow Hart, or approved equal, smooth satin stainless steel 302-SS Series for switches and receptacles in the Kitchen areas. All other areas shall be brown Nylon plastic.  
B. Provide blank plates on all outlet boxes for future outlets, or outlets without devices. Plate style shall match device plates.  
C. 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.  
D. Where devices installed in exposed boxes or conduit fittings; provide properly designed plates and covers equal to Arrow Hart RS-Series exposed work covers.  
E. Install galvanized steel plates on outlet boxes and junction boxes in unfinished areas, above accessible ceilings, and on surface mounted boxes.

- 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. Siemens (West, Midwest, and Southwest Regions); from Suncoast Environmental Controls (SEC), Scott Dyer (877)544-6679  
B. Square-D (Northeast, Atlantic, and Southeast Regions); from Accu-Serv Lighting (502)961-0096.  
1.02 PANELBOARD FEATURES  
A. Panelboards shall have a minimum symmetrical interrupting rating to meet or exceed the available symmetrical interrupting current at the device intended to interrupt current.  
B. Bus bars shall be copper.  
C. Provide factory-installed copper groundbus 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. 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. General Electric.  
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 compatible 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, General Electric, 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, 800 volt waterproof fuseholder with Bussman 'Limtron' 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 C16506  
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 bushing.  
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

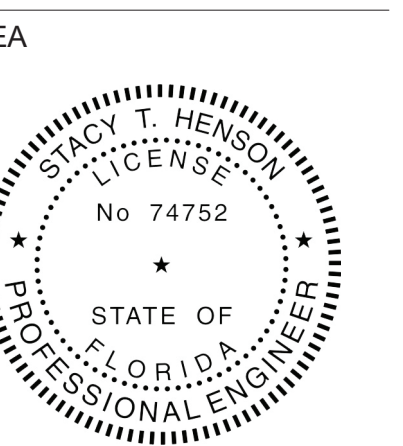
- Provide the following to the building owner upon completion of construction:  
1. Submittal data stating equipment rating and selected options for each piece of equipment requiring maintenance.  
2. Operation manuals and maintenance manuals for each piece of equipment requiring maintenance. Required 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  
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Atlanta, Georgia  
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CHICK-FIL-A  
INTERNATIONAL  
SPEEDWAY FSR  
100 N. Williamson Boulevard  
Daytona Beach, FL 32114

FSR#00866

BUILDING TYPE / SIZE: P12 SE ALL  
RELEASE: v2.19.05

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
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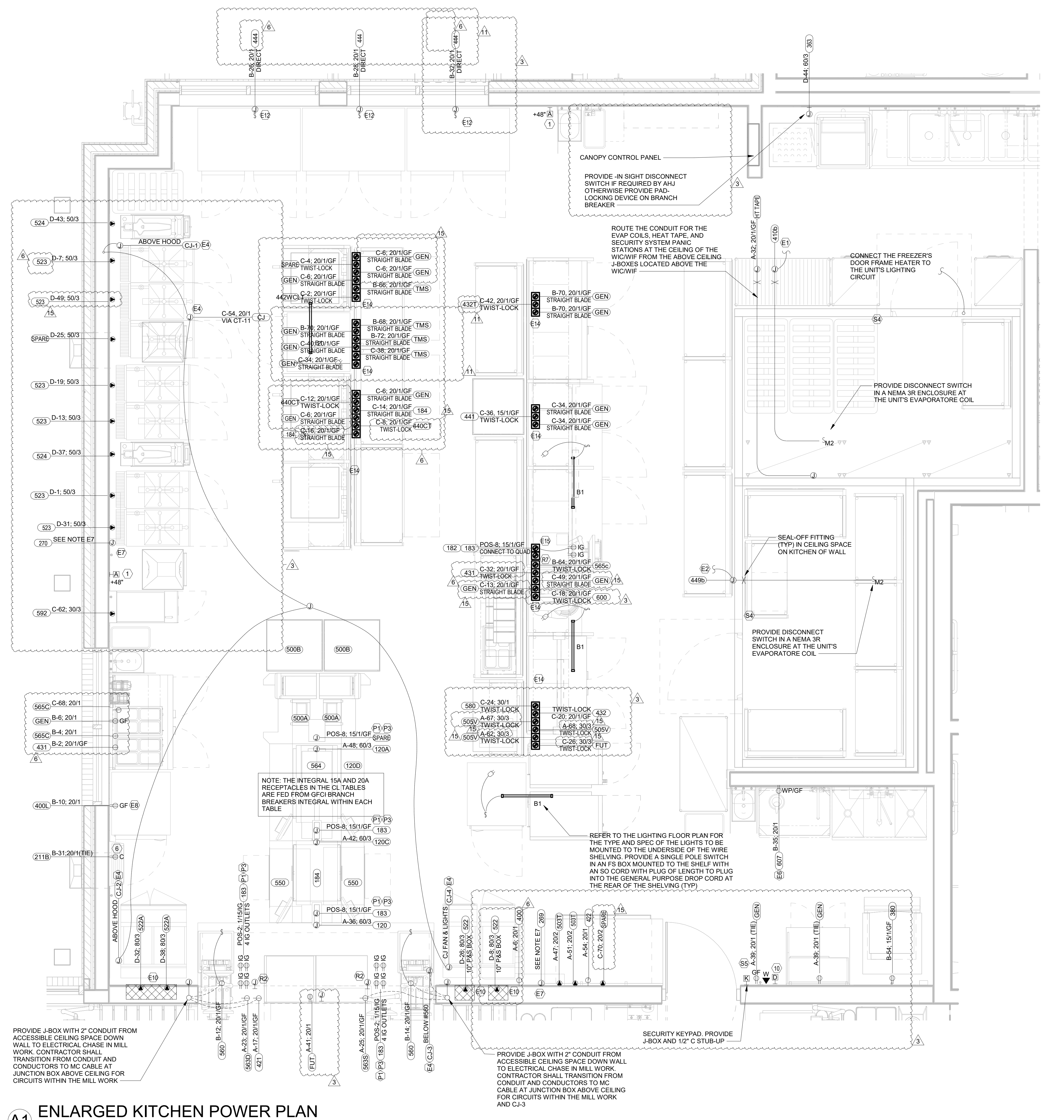
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SHEET ELECTRICAL SPECIFICATIONS

SHEET NUMBER

E-902

**A4** KITCHEN EQUIP NOMENCLATURE  
 NO SCALE



**Chick-fil-A**

**Chick-fil-A**  
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 30349-2998

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**CHICK-FIL-A**  
**INTERNATIONAL SPEEDWAY FSR**  
 100 N. Williamson Boulevard  
 Daytona Beach, FL 32114

**FSR#00866**  
 BUILDING TYPE / SIZE: P12 SE ALL  
 RELEASE: v2\_19.05

**REVISION SCHEDULE**

NO.	DATE	DESCRIPTION
3	12.04.20	OWNER REVISIONS
6	11.12.21	OWNER REVISIONS
11	11.04.22	OWNER REVISIONS
13	01.03.23	CHANGE OF ARCHITECT
15	04.17.23	FIELD REVISION

**FOR CONSTRUCTION**

CONSULTANT PROJECT #	2018.0632
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**ENLARGED KITCHEN POWER PLAN**

SHEET NUMBER

**E-301**

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 INTERNATIONAL SPEEDWAY FSR

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 Daytona Beach, FL 32114

**FSR#00866**  
 BUILDING TYPE / SIZE: P12 SE ALL  
 RELEASE: v2.19.05

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
13	01.03.23	CHANGE OF ARCHITECT

**CONSTRUCTION**

CONSULTANT PROJECT # 2018.0632  
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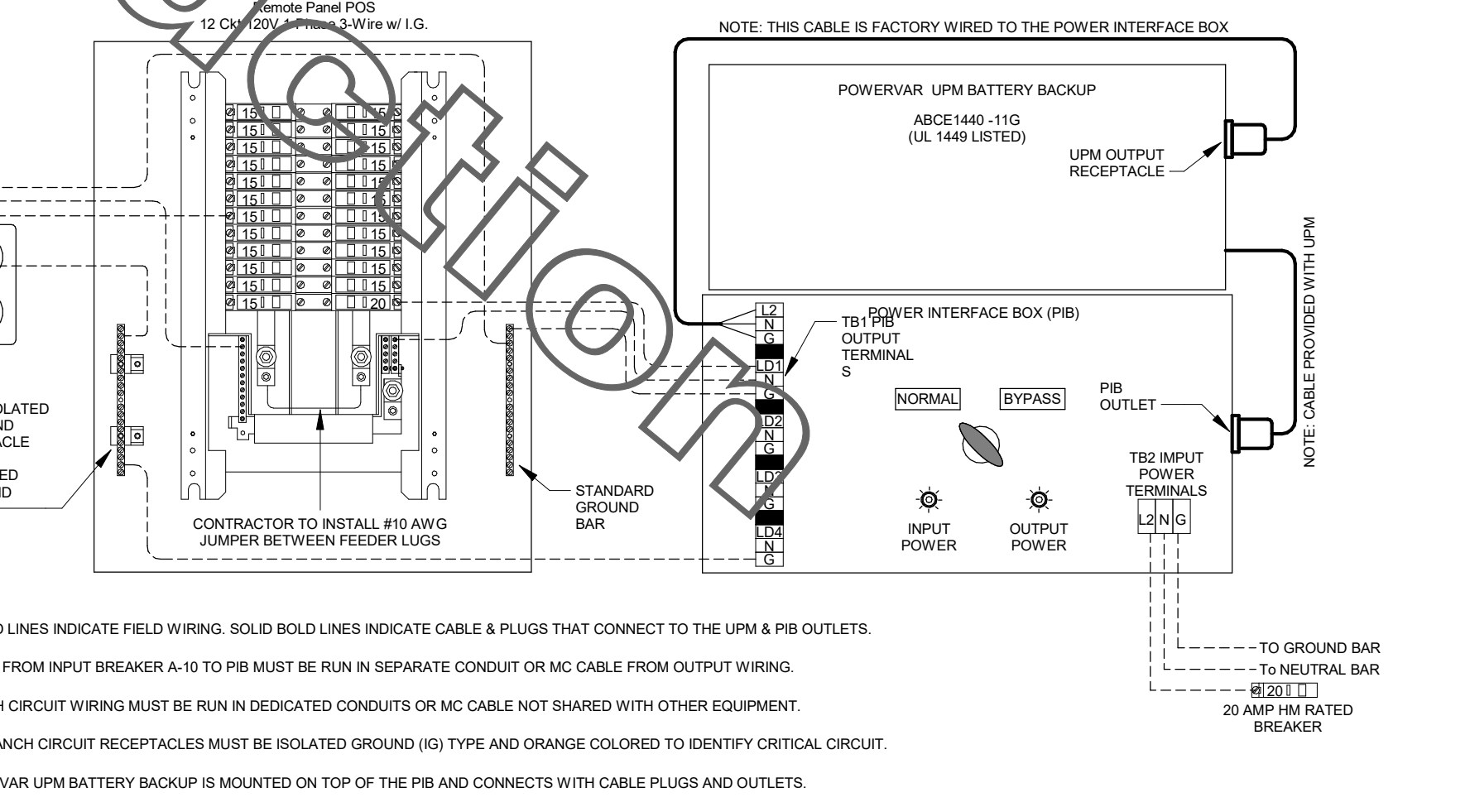
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SHEET SINGLE LINE DIAGRAM AND NOTES  
 SHEET NUMBER

**(B1) CONDUIT AND CONDUCTORS SCHEDULE**

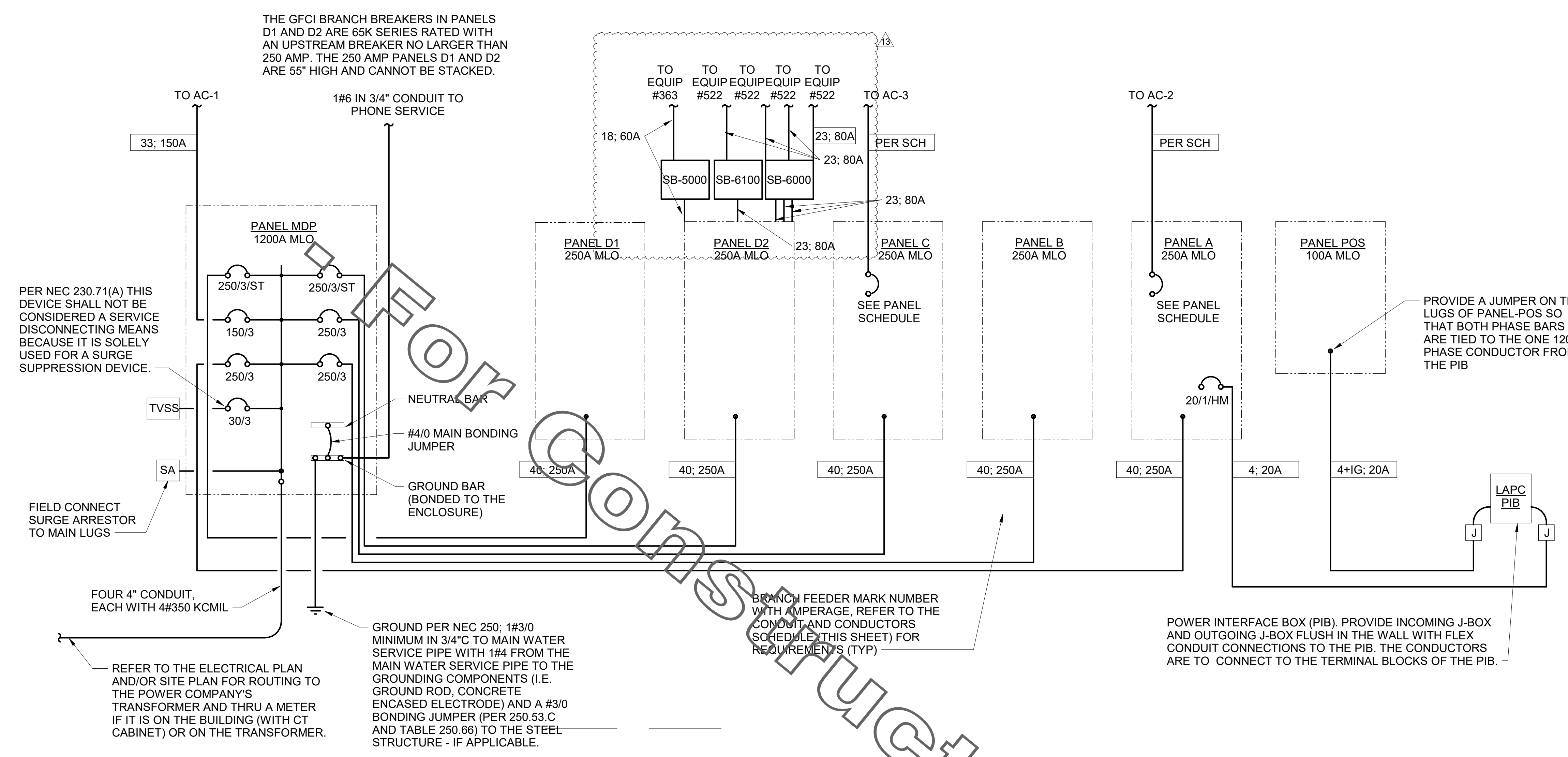
Mark No.	OCP Device (Amp/Poles)	Conductors Total Amps	Conductors				Raceway Size (Nominal Inches)			
			Phase & Neutral Qty/Size	Eq Grid Qty/Size	No. Sets	Phase, Neutral & Equip Grid EMT	Neutral IMC	Equip Grid PVC	With IG	
1	20/1	20	2 12 THHN	1 12	One	0.75	0.75	0.75	0.75	
2	20/2	20	3 12 THHN	1 12	One	0.75	0.75	0.75	0.75	
3	20/3	20	4 12 THHN	1 12	One	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	
5	25/2	30	3 10 THHN	1 10	One	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	
7	30/1	30	2 10 THHN	1 10	One	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	
9	30/3	30	4 10 THHN	1 10	One	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	
11	40/2	40	3 8 THHN	1 10	One	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	
13	50/1	55	2 6 THHN	1 10	One	0.75	0.75	0.75	0.75	
14	50/2	55	3 6 THHN	1 10	One	0.75	0.75	0.75	0.75	
15	50/3	55	4 6 THHN	1 10	One	1.00	1.00	1.00	1.00	
16	60/1	70	2 4 THW	1 8	One	1.00	1.00	1.00	1.25	
17	60/2	70	3 4 THW	1 8	One	1.25	1.00	1.25	1.25	
18	60/3	70	4 4 THW	1 8	One	1.25	1.25	1.25	1.25	
19	70/1	70	2 4 THW	1 8	One	1.00	1.00	1.00	1.25	
20	70/2	70	3 4 THW	1 8	One	1.25	1.00	1.25	1.25	
21	70/3	70	4 4 THW	1 8	One	1.25	1.25	1.25	1.25	
22	80/2	85	3 3 THW	1 8	One	1.25	1.25	1.25	1.25	
23	80/3	85	4 3 THW	1 8	One	1.25	1.25	1.25	1.50	
24	90/2	95	3 2 THW	1 8	One	1.25	1.25	1.25	1.50	
25	90/3	95	4 2 THW	1 8	One	1.50	1.25	1.50	1.50	
26	100/2	110	3 1 THW	1 6	One	1.50	1.50	1.50	2.00	
27	100/3	110	4 1 THW	1 6	One	2.00	2.00	2.00	2.00	
28	110/2	115	3 2 THW	1 6	One	1.25	1.25	1.25	1.50	
29	110/3	115	4 2 THW	1 6	One	1.50	1.25	1.50	1.50	
30	125/2	130	3 1 THW	1 6	One	1.50	1.50	1.50	2.00	
31	125/3	130	4 1 THW	1 6	One	2.00	2.00	2.00	2.00	
32	150/2	150	3 1/0 THW	1 6	One	2.00	1.50	2.00	2.00	
33	150/3	150	4 1/0 THW	1 6	One	2.00	2.00	2.00	2.00	
34	175/2	175	3 2/0 THW	1 6	One	2.00	2.00	2.00	2.00	
35	175/3	175	4 2/0 THW	1 6	One	2.00	2.00	2.00	2.50	
36	200/2	200	3 3/0 THW	1 6	One	2.00	2.00	2.00	2.50	
37	200/3	200	4 3/0 THW	1 6	One	2.50	2.50	2.50	2.50	
38	225/2	230	3 4/0 THW	1 4	One	2.50	2.00	2.50	2.50	
39	225/3	230	4 4/0 THW	1 4	One	2.50	2.50	2.50	3.00	
40	250/3	255	4 250 THW	1 4	One	2.50	3.00	3.00	3.00	
41A	300/3	285	4 300 THW	1 4	One	3.00	3.00	3.00	3.00	
41B	300/3	310	4 350 THW	1 4	One	3.00	3.00	3.00	3.00	
42A	350/3	335	4 400 THW	1 4	One	3.00	3.50	3.50	3.50	
42B	350/3	380	4 500 THW	1 4	One	3.50	3.50	3.50	3.50	
43A	400/3	380	4 500 THW	1 3	One	3.50	3.50	3.50	3.50	
43B	400/3	400	4 3/0 THW	1 3	Two	2.50	2.50	2.50	2.50	
44A	600/3	570	4 300 THW	1 1	Two	3.00	3.00	3.00	3.00	
44B	600/3	620	4 350 THW	1 1	Two	3.00	3.00	3.00	3.00	
45A	800/3	760	4 500 THW	1 1/0	Two	3.50	3.50	3.50	3.50	
45B	800/3	820	4 600 THW	1 1/0	Two	4.00	4.00	4.00	4.00	
46	1000/3	1005	4 400 THW	1 2/0	Three	3.50	3.50	3.50	3.50	
47	1200/3	1240	4 350 THW	1 3/0	Four	3.50	3.50	3.50	3.50	
48	1600/3	1675	4 400 THW	1 4/0	Five	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 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 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.



**(A1) PANEL-POS AND LAPC/PIB WIRING DIAGRAM**  
 NO SCALE

USE THIS ALTERNATE SHEET ONLY FOR STORES THAT HAVE ADOPTED THE 2017 NEC AND ARE SQUARE-D GEAR



**(C2) SINGLE LINE DIAGRAM**  
 NO SCALE

**SINGLE-LINE DIAGRAM NOTES**

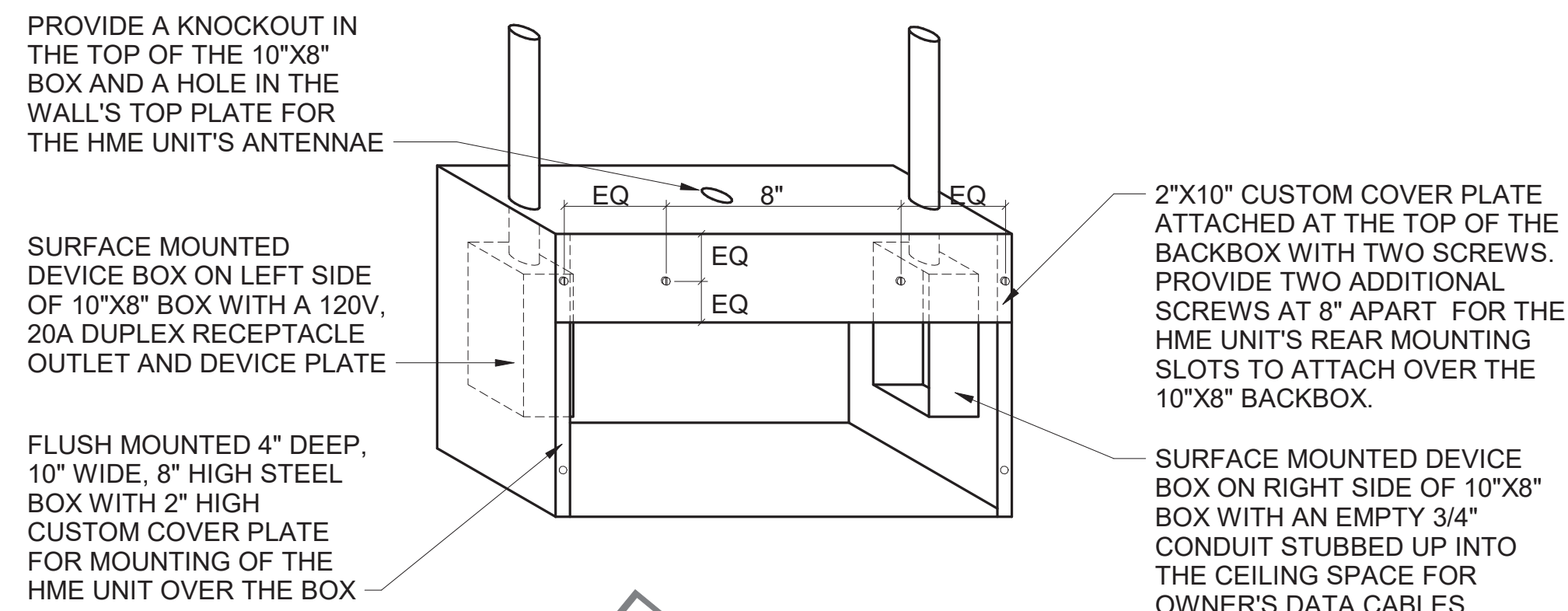
- VERIFY SERVICE LOCATIONS AND CONFORM TO THE REQUIREMENTS OF THE POWER COMPANY AND/OR DEVELOPER. POWER COMPANY AND/OR DEVELOPER SHALL BE CONTACTED PRIOR TO BEGINNING CONSTRUCTION TO ARRANGE AND VERIFY FOR THE INSTALLATION OF THE POWER COMPANY SERVICE, METER, AND OTHER ITEMS.
- GROUND ALL EQUIPMENT AND SERVICES IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, LOCAL APPLICABLE CODES, AND ALSO AS INDICATED ON DRAWINGS.
- 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.
- 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.
- 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.
- 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.
- ALL DEVICES SHALL HAVE AN INTERRUPTING CAPACITY NOT LESS THAN THE POWER COMPANY AVAILABLE FAULT CURRENT, OR AS INDICATED ON THE DRAWINGS.
- 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.
- AVAILABLE SPACE FOR MAIN PANELBOARD IS LIMITED. PANELBOARD MUST FIN IN ALL LOCATED SPACE. COORDINATE WITH CONSTRUCTION AS REQUIRED.
- 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.

**SWITCHGEAR AND CONTROL EQUIPMENT NOTES**

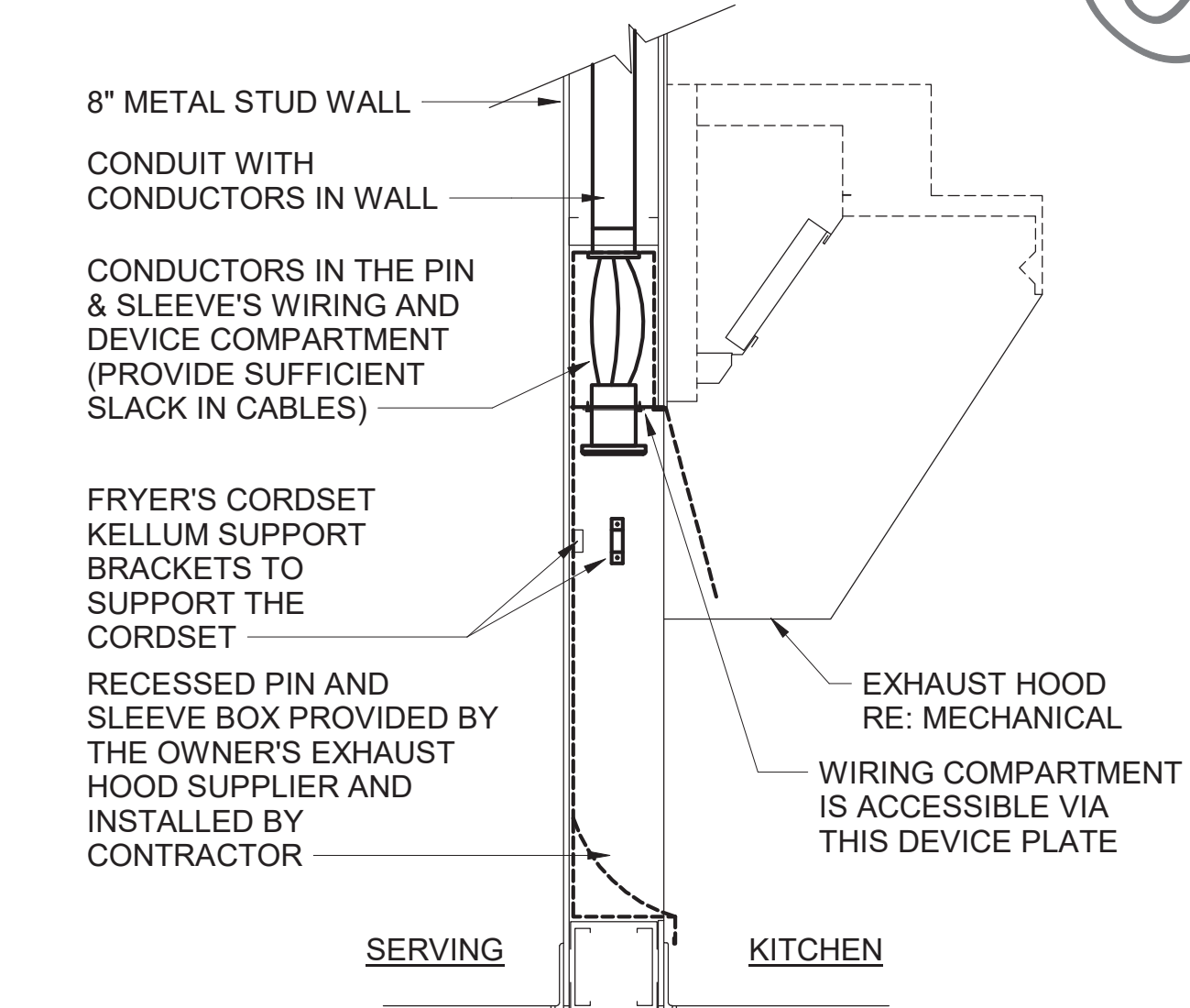
- PURCHASE PANELBOARDS, SURGE ARRESTOR, AND TVSS FROM ONE OF THE TWO NATIONAL ACCOUNTS VENDORS (SEE SHEET E4.2 SECTION C16440 - PANELBOARDS) PROVIDING SIEMENS OR SQUARE-D EQUIPMENT. NO SUBSTITUTIONS ALLOWED.
- PURCHASE CONTROL PANEL 'CFA-T500' FROM SUNCOAST ENVIRONMENTAL, INC. (NO SUBSTITUTIONS ALLOWED). 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.
- CONTRACTOR SHALL PROVIDE PANEL FEEDERS A, B, C, D, AND POS, BRANCH CIRCUIT CONDUIT AND WIRE, AND INSTALL ALL EQUIPMENT AS REQUIRED.
- ALL BREAKERS AND PANELS SHALL BE SIEMENS OR SQUARE-D, DEPENDING ON THE CHICK-FIL-A REGION THE STORE IS LOCATED.
- 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.

Autodesk Docs://FL\_00866\_International Speedway\_Daytona Beach\_FSR\_P12\_SE\_LRG/00866\_IntSpdway\_COM\_ELE\_DET.rvt  
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 50-SE-00866-E-502-SQD-ALT-SINGLE LINE DIAGRAM AND NOTES

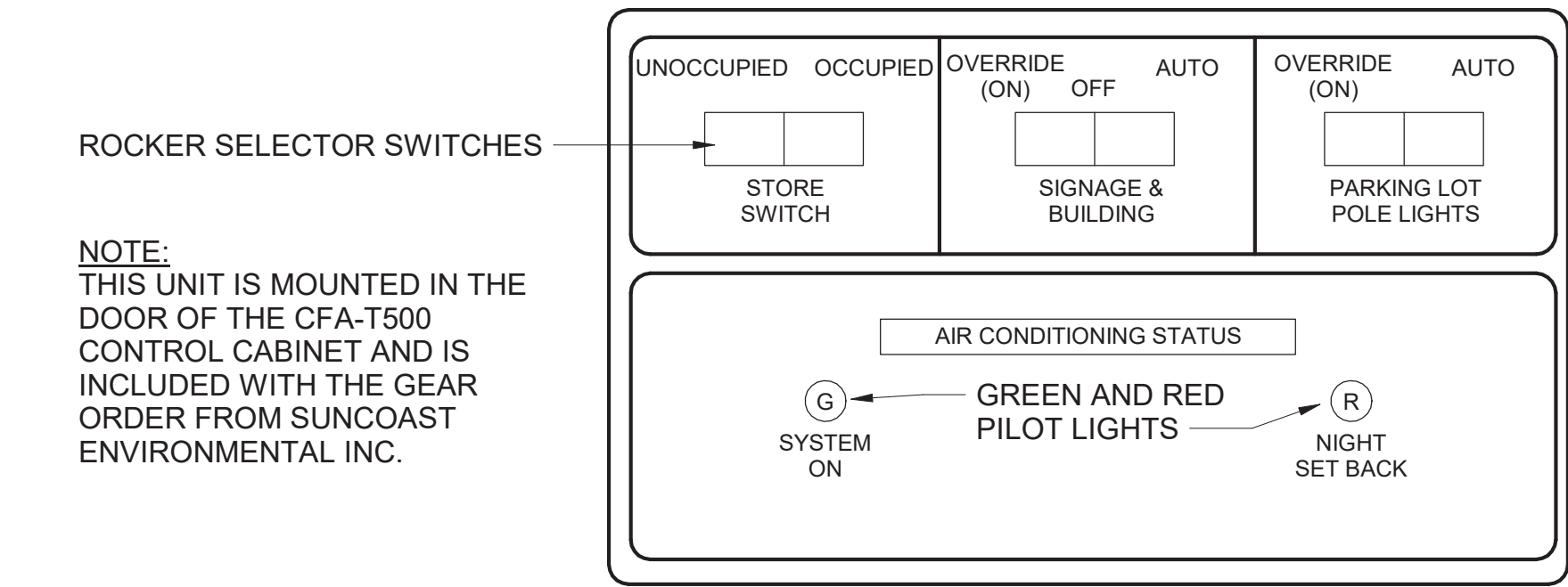
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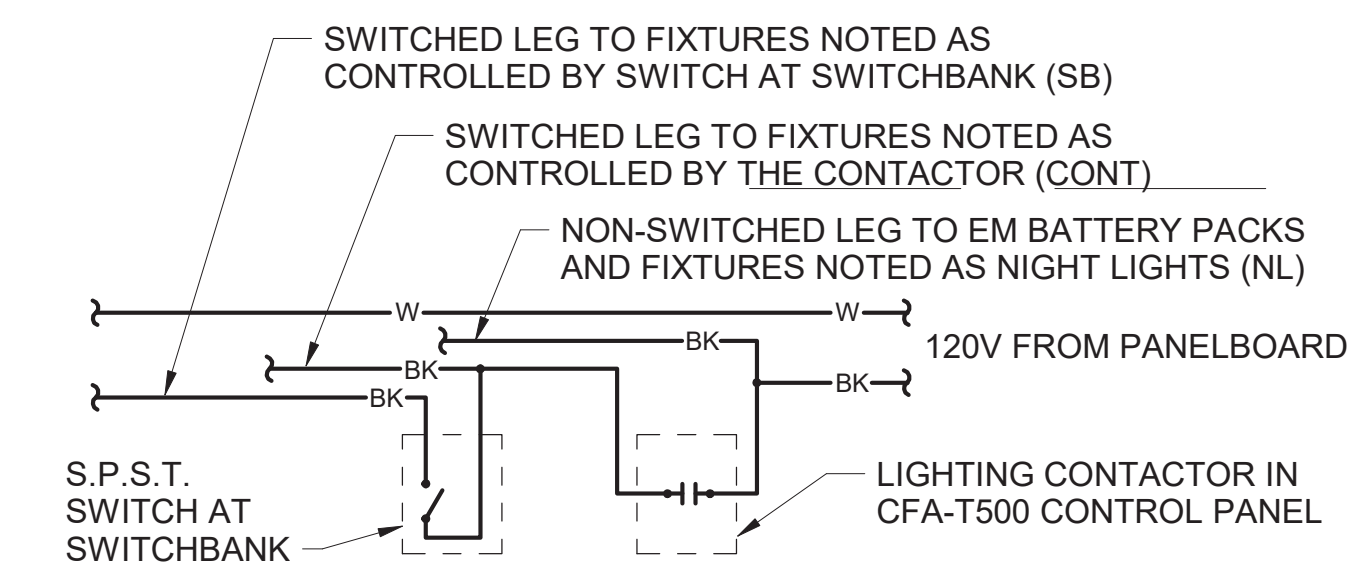
**E3 HME UNIT POWER AND DATA BOX**  
NO SCALE



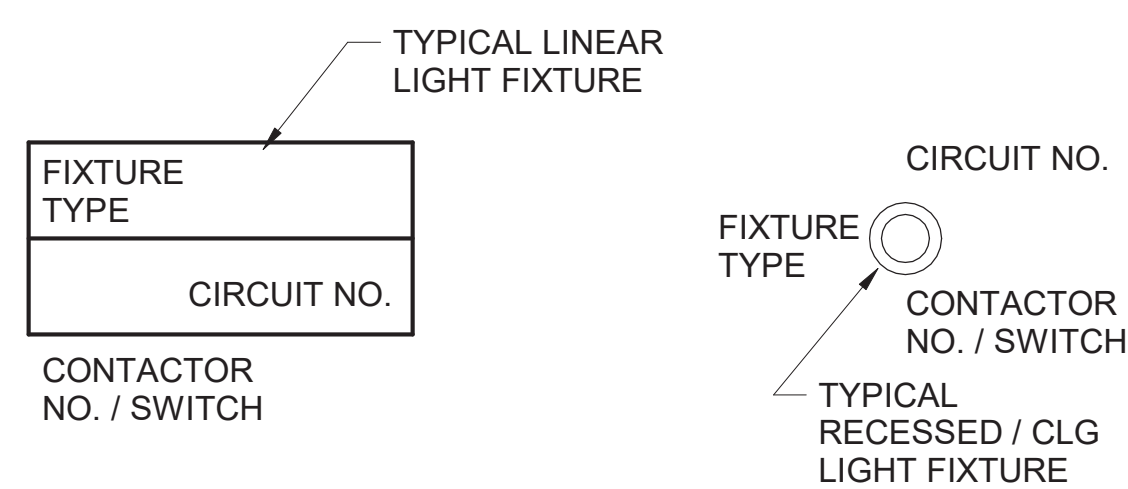
**C4 PIN AND SLEEVE DETAIL**  
NO SCALE



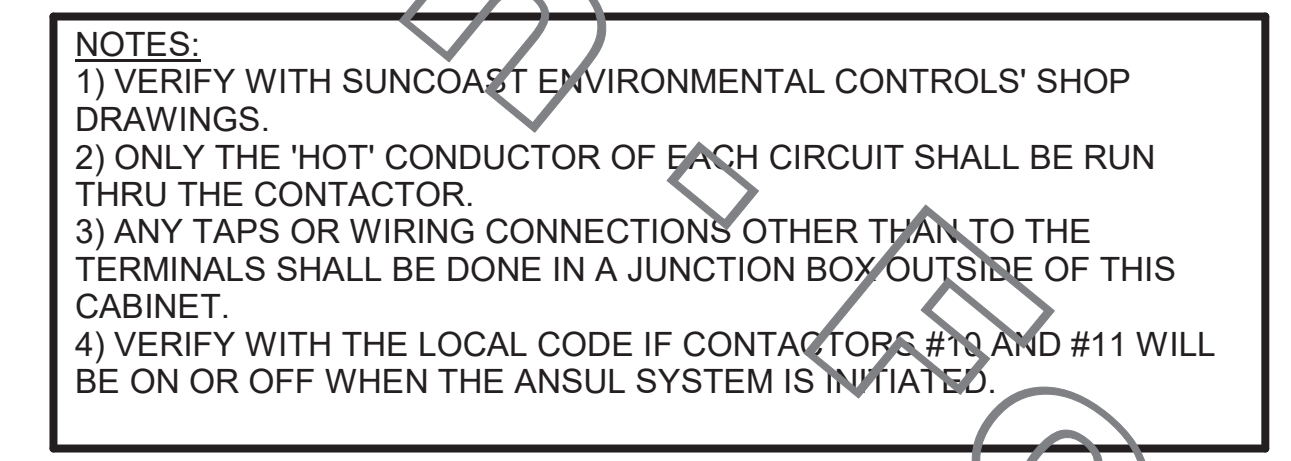
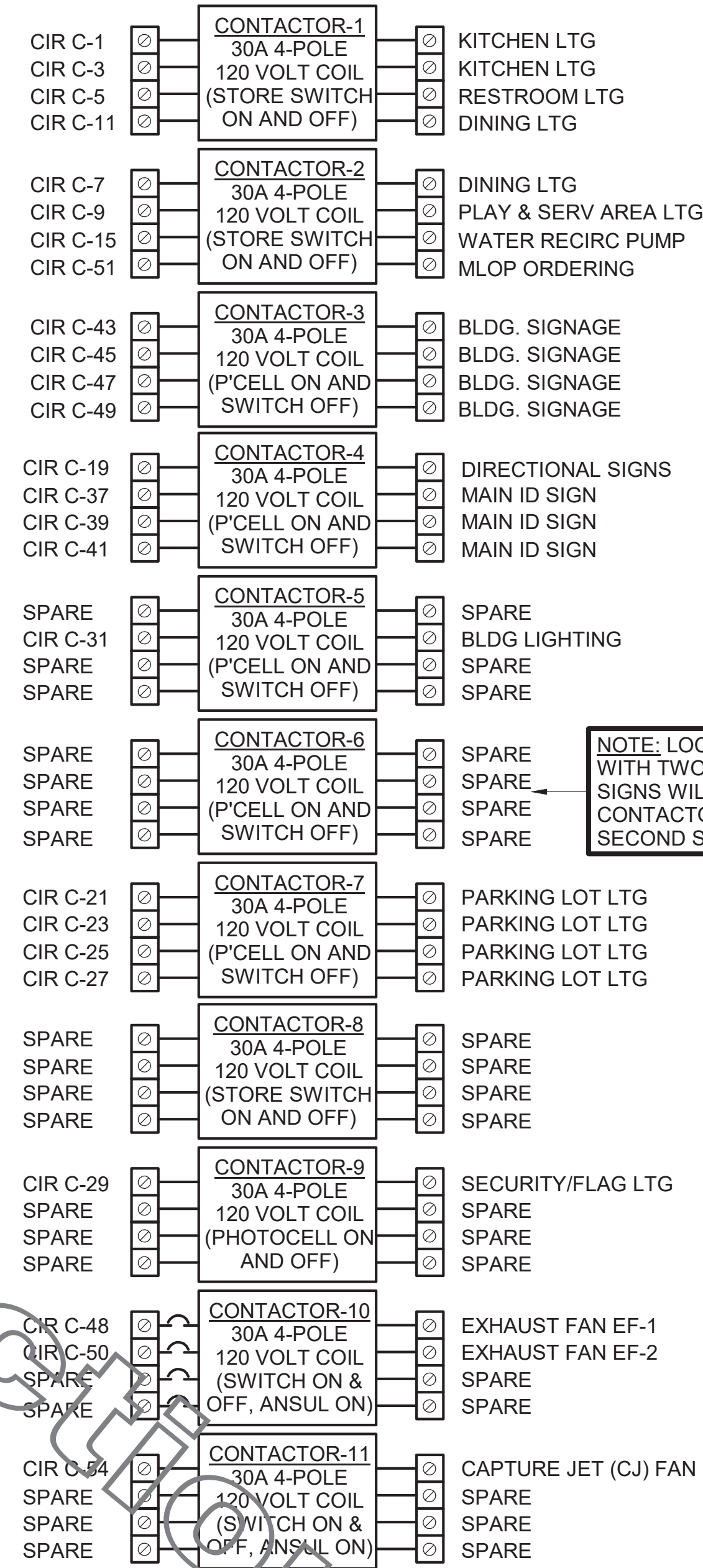
**B3 STORE OPEN-CLOSED STORE SWITCH CONTROL UNIT**  
NO SCALE



**B4 LIGHTING CONTROL DIAGRAM**  
NO SCALE



**A4 LIGHT FIXTURE NOMENCLATURE DETAIL**  
NO SCALE



**C2 CFA-T500 CONTROL PANEL DIAGRAM**  
NO SCALE

**(A1) LIGHTING FIXTURE (LUMINAIRE) SCHEDULE - CHICK-FIL-A P12 EDITION**

MARK	MANUFACTURER	CATALOG NUMBER	NO LAMPS/TYPE	WATTS	VOLTS	MOUNTING	REMARKS
A	LITHONIA	2GTL-472L-A12125V-EZ1-LP840	INTEGRAL WITH FIXTURE	53.2	120	RECESSED	2'x4' STATIC LED TROFFER RATED 7200 LUMENS, 4000K COLOR TEMP
AE	LITHONIA	2GTL-472L-A12125V-EZ1-LP840-EL14L	INTEGRAL WITH FIXTURE	53.2	120	RECESSED	SAME AS 'A' WITH EMERGENCY BATTERY PACK. SEE PLAN NOTES ABOUT LAMP SWITCHING
B1	ILLUMITEX	CS1-24-DW-6-35-U-WH-W	INTEGRAL WITH FIXTURE	35	120	SURFACE	MOUNT LIGHT TO BTM OF OVERHEAD WIRE SHELVING WITH CORD & PLUG
D3	COOPER/ HALO	HC620D010-HM12830-6INDOC	INTEGRAL WITH FIXTURE	29	120	RECESSED	LED DOWNLIGHT WITH CLEAR REFLECTOR & TRIM RATED 2000 LUMENS, 3000K COLOR TEMP
D3E	COOPER/ HALO	HC620D010EM14-HM612830-6INDOCIE	INTEGRAL WITH FIXTURE	29	120	RECESSED	SAME AS D3 EXCEPT WITH EMERGENCY BATTERY PACK/INTEGRAL TEST SWITCH
DA	LITHONIA	LDN6-3020-LW6AR-120	INTEGRAL WITH FIXTURE	22.6	120	RECESSED	SAME AS D3 EXCEPT WITH WALLWASH REFLECTOR TRIM
F	MEYDA	30894-8 (144638)	1-SATS9238	12	120	CEILING	EGG LIGHT FURNISHED WITH A 12 WATT A19-GU24 LED LAMP
G1	LITHONIA	C-232-AL-MVOLT-GE810S-WGCUN	2-(GE)F2818XLSP35ECCO	50	120	WALL	STRIP FLUORESCENT WITH LOW TEMP BALLAST AND WIREGUARD, MTD ABOVE DOOR FRAME
J	LITHONIA	CA-132-MVOLT-GE810S	1-(GE)F2818XLSP35ECCO	25	120	WALL	MOUNT ABOVE DOOR FRAME
L	LITHONIA	VSL-232-MVOLT-DL-GE810S	2-(GE)F2818XLSP35ECCO	50	120	SURFACE	LOW PROFILE DAMP LOCATION FLUORESCENT.
MS	LEVITON	PS110-10W	NA	4	120	WALL	MOTION SENSOR ON FLUSH BACKBOX, PROVIDE COVERPLATE W/ CENTER THREADED KNOCKOUT
N	MINKA	4531-267B	1-LED11A19827/D	11	120	WALL	LAVATORY WALL SCONCE SHADE POINTED DOWN W/ LED LAMP & CL ON LAVATORY
P1	MEYDA	142776	2-LED11A19827/D	22	120	PENDANT	24" DIA EACH BASKET PENDANT WITH BTM AT 6'-3" AFF ABV TABLE, 7'-6" OTHERWISE
P2	MEYDA	142777	1-LED11A19827/D	11	120	PENDANT	20" DIA PEACH BASKET PENDANT WITH BTM AT 6'-3" AFF ABV TABLE, 7'-6" OTHERWISE
Q	NOT USED	COKE PENDANT IS NOW A DECOR ITEM PROVIDED AND INSTALLED BY THE SEATING/DECOR VENDOR.					
U	BESA LIGHTING	BES00298-060	FURNISHED	7.5	120	PENDANT	RED FRIT GLASS, BRONZE CABLE & CANOPY, 6'-6" AFF
V	VISUAL COMFORT	SL29238Z	1-BULLLED11A19827/D	11	120	WALL	BOSTON LIBRARY LIGHT, MOUNT BACKBOX AT 7'-2" AFF W/ 11 WATT A19 LED LAMP
XA	LITHONIA	LH0M-LED-R	INTEGRAL WITH FIXTURE	4.3	120	WALL	EXIT SIGN WITH BATTERY PACK AND TWO INTEGRAL ADJUSTABLE LAMPHEADS
XC	LITHONIA	AFN-BN-EXT (TWO LAMP UNIT)	INTEGRAL WITH FIXTURE	21	120	WALL	EXTERIOR WALL MOUNTED EMERGENCY LIGHTING WITH LOCATE NEAR EGRESS DOOR
XD	DUAL-LITE	LG250S	NONE	250	120	WALL	INVERTER UNIT FOR EXTERIOR EGRESS LIGHTING ON BUS OFF AT DAWN, ON DURING PWR OUTAGE
QA	PROGRESS LIGHTING	P5675-31 WITH P8799 TOP COVER LENS	2-(GE)LED12P30RW8302S	24	120	WALL	5" DIAMETER, 14" HEIGHT, WET LOCATION UP/DOWN UNDER W/ 12 WATT PAR30 3K/NFL LED LAMPS
OC	HUBBELL	FL1-42L-95-4K7-N-U-K-D8 (SEE NOTE 4)	INTEGRAL WITH FIXTURE	96	120	PIPE	FLOODLIGHT MTD ON GROUND ON 2" PIPE SUPPORT (BY OTHERS) AND AIMED AT FLAG AFTER DARK
OD	LITHONIA	DSXO-LED-40C-1000-40K SERIES	FURNISHED			POLE	(DISTRIBUTION TYPES TO BE DETERMINED BY THE REGIONAL TEAM SPECIFIC TO THE SITE.)
*OG	REFER TO SHEET E-102 (PHOTOMETRIC PLAN) FOR THE SITE SPECIFIC LIGHTING FIXTURE USED IN LIEU OF TYPE OD WHEN REQUIRED.						
OH	LITHONIA	13L-ED-T24/40PA-TRMW-30K-90CRI	FURNISHED	11.2	120	RECESSED	4" DIAMETER LED DOWNLIGHT (DAMP LABEL) WITH CLEAR REFLECTOR
OJ	SECURITY LTG	RWSC-72L-3K-JD-U-DB	FURNISHED	25	120	WALL	UPDOWN LED EXTERIOR WALL SCONCE, SEE ELEVATIONS FOR MOUNTING HEIGHT
OK	HUBBELL	LNC-SLU-3K-3-1	FURNISHED	12.9	120	WALL	LED WALLPACK W/ CENTERLINE OF FIXTURE AT 8'-0" AFF 0'-0" (FINISH FLOOR LINE)

- NOTES:
- LUMINAIRES UTILIZING DOUBLE-ENDED LAMPS AND CONTAIN BALLASTS THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS EITHER INTERNAL OR EXTERNAL TO EACH LUMINAIRE PER NEC 410.130(G).
  - THE LIGHTING FIXTURE IS AVAILABLE THROUGH A NATIONAL ACCOUNT PROGRAM. REFER TO THE ELECTRICAL SPECIFICATIONS SHEET, SECTION P12500 FOR VENDOR INFORMATION.
  - THE ASTERISK (\*) BESIDE THE MARK IN THE ABOVE SCHEDULE INDICATES THE FIXTURE IS A NON-TYPICAL LIGHT FIXTURE PER THE CFA NATIONAL P12 PROTOTYPE.
  - IF TYPE OC IS GROUND MOUNTED IN LIEU OF ROOF MOUNTED, PROVIDE EITHER THE FLL-VISOR-DB (VISOR) OR THE FLL-OVER-LLB (LOUVER) FOR GLARE CONTROL.

**(C1) ELECTRICAL LEGEND**

SYMBOL	DESCRIPTION	MTG HT AFF TO CL	SYMBOL	DESCRIPTION	MTG HT AFF TO CL
LIGHTING FIXTURES			MISCELLANEOUS SYMBOLS		
☐	SURFACE MOUNTED LIGHTING FIXTURE		⊕	GROUND	
☐	RECESSED LED TROFFER LIGHTING FIXTURE		(M)	MOTOR	
○	SURFACE MOUNTED LED LIGHTING FIXTURE		(EF)	EXHAUST FAN MOTOR	
☐	RECESSED LED LIGHTING FIXTURE		(J)	JUNCTION BOX	
☐	WALL MOUNTED LIGHTING FIXTURE, SEE LIGHTING FIXTURE SCHEDULE	AS NOTED, 6" FROM CEILING TO TOP	(1)	CONDUIT AND WIRE 'MARK' NUMBER, REFER TO CONDUCTORS AND CONDUIT SCHEDULE FOR SIZE	
☐	WALL MOUNTED EXIT SIGN, SHADE INDICATES FACES, PROVIDE CHEVRON DIRECTIONALS WHEN NEEDED		(101)	KITCHEN EQUIPMENT 'MARK' NUMBER, REFER TO KITCHEN EQUIPMENT SCHEDULE FOR REQUIREMENTS	
☐	CEILING MTD EXIT SIGN, SHADING INDICATES FACES, PROVIDE W/ CHEVRON DIRECTIONALS WHEN NEEDED		(1)	NOTE NUMBER	
☐	COMBO EXIT WITH TWO LAMPHEADS		(A)	HOOD EXTINGUISHING ANSUL PULL STATION	
☐	WALL MTD EMERGENCY BATTERY PACK LIGHTING FIXTURE	AS NOTED	(D)	SMOKE DETECTORS REMOTE STATUS INDICATOR W/ 1/2" C STUB-UP	
☐	CEILING MTD EMERGENCY BATTERY PACK LIGHTING FIXTURE	AS NOTED	(PB)	PUSHBUTTON	
☐	FLUORESCENT STRIP LIGHTING FIXTURE		(B)	BELL, TYPE AS NOTED ON PLANS	
☐	WALLWASHER TYPE RECESSED DOWNLIGHT, AIM LIGHT TOWARD WALL		(PE)	PHOTO-ELECTRIC CELL	
☐	RECESSED LIGHTING FIXTURE W/ EMERGENCY BATTERY PACK		(T)	TRANSFORMER / DRIVER	
☐	PENDANT LIGHTING FIXTURE	AS NOTED	(S)	LOCKABLE SINGLE POLE SWITCH	
☐	LIGHTING TRACK WITH TRACK HEADS		ABBREVIATIONS		
WIRING DEVICES			AFB	ABOVE FINISHED FLOOR	
☐	120 VOLT DUPLEX RECEPTACLE, 20 AMPS U.O.N.	14" UON	AFG	ABOVE FINISHED GRADE	
☐	120 VOLT DUPLEX AT SPECIAL MTD HEIGHT, 20 AMPS U.O.N.	44" UON	AHU	AIR HANDLING UNIT	
☐	120 VOLT QUADRAPLEX RECEPTACLE, 20 AMPS U.O.N.	14" UON	C	CONDUIT	
☐	120 VOLT QUAD. AT SPECIAL MTD HEIGHT, 20 AMPS U.O.N.	44"	CL	CENTER-LINE	
☐	120 VOLT SIMPLEX RECEPTACLE, 20 AMPS U.O.N.	14" UON	EF	EXHAUST FAN	
☐	SINGLE SPECIAL PURPOSE RECEPT W/ VOLTS, AMPS, & PHASE AS NOTED, NEMA CONFIGURATION AS REQUIRED BY EQUIP.	14" UON	FLA	FULL LOAD AMPS	
☐	RECEPTACLE MOUNTED ON DROP CORD, 120 VOLT, 20 AMP, UON, OUTLET BOX FLUSH WITH CEILING		GF/GFI	GROUND FAULT CIRCUIT INTERRUPTER	
S	SINGLE POLE TOGGLE SWITCH	48"	GND/GRD	GROUND	
S2	DOUBLE POLE TOGGLE SWITCH	48"	HT	HEIGHT	
S3	THREE WAY TOGGLE SWITCH	48"	IG	ISOLATED GRD, PROVIDE ORANGE DEVICE WHEN ADJACENT TO WIRING DEVICE	
SM	MANUAL MOTOR STARTER SWITCH (WP=NEMA 3R)	48"	MOCP	MAXIMUM OVER-CURRENT PROTECTION	
Sp	SWITCH WITH PILOT LIGHT (ON WHEN SWITCH IS ON)	48"	MUA	MAKE UP AIR UNIT	
Sk	KEY OPERATED SWITCH	48"	NEC	LOCALLY ADAPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70)	
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.			OC	ON CENTER	
CONDUIT/RACEWAYS			POS	POINT OF SALE EQUIPMENT	
☐	CONDUIT CONCEALED ABOVE CEILING OR IN WALL		RTU	ROOF TOP UNIT	
☐	CIRCUIT HOMERUN TO PANELBOARD W/ MIN 2#12, 1#12G, 3/4" C		TL	TWIST-LOCK TYPE DEVICE	
☐	CONDUIT TURNING UP		TR	TAMPER-RESISTANT	
☐	CONDUIT TURNING DOWN		UON	UNLESS OTHERWISE NOTED	
☐	CONDUIT CONCEALED IN OR BELOW SLAB (OR UNDERGROUND)		WP	WEATHERPROOF (NEMA 3R)	
☐	FLEXIBLE LIGHT FIXTURE WHIP; SIX FOOT MAXIMUM LENGTH		TELEPHONE		
MC	METAL CLAD CABLE ASSEMBLY - ONLY WHERE INDICATED ON DWGS OR SPECS		☐	TELEPHONE OUTLET	18" UON
DISTRIBUTION EQUIPMENT			☐	TELEPHONE OUTLET AT SPECIAL MOUNTING HEIGHT	60" UON
☐	NON-FUSIBLE SAFETY SWITCH, SIZE AND TYPE AS NOTED ON PLANS (AMP/POLES/FUSE AMPS/ENCLOSURE) OR ON SCHEDULE, NEMA 1 ENCLOSURE UNLESS NOTED WP FOR NEMA 3R ENCLOSURE.	6'-6" *	CCTV / SECURITY SYSTEM		
☐	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" *	(K)	SECURITY ALARM KEYPAD	
☐	FLUSH MOUNTED LIGHTING PANELBOARD	6'-6" *	(S)	SECURITY SYSTEM KEY NOTE	
☐	SURFACE MOUNTED LIGHTING PANELBOARD	6'-6" *	NOTE: EACH TELEPHONE OUTLET (FLOOR OR WALL MOUNTED SHALL BE PROVIDED WITH A 3/4" EMPTY CONDUIT, WITH PULL WIRE, TO ACCESSIBLE CEILING SPACE.		

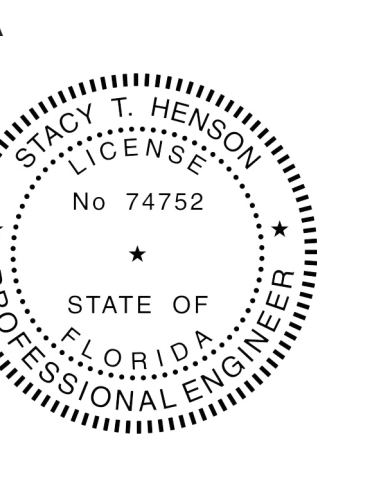
\* 6'-6" DISTANCE IS TO TOP-MOST DISCONNECTING DEVICE OR HIGHEST POSITION OF OPERATING HANDLE OF DISCONNECTING DEVICE



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

**INTERPLAN**

ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN  
PROJECT MANAGEMENT  
LOUISE CRAVER, #A00012641  
AR00011595  
CA 8660  
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**CHICK-FIL-A**  
INTERNATIONAL  
SPEEDWAY FSR  
100 N. Williamson Boulevard  
Daytona Beach, FL 32114

**FSR#00866**  
BUILDING TYPE / SIZE: P12 SE ALL  
RELEASE: v2.19.05

**REVISION SCHEDULE**

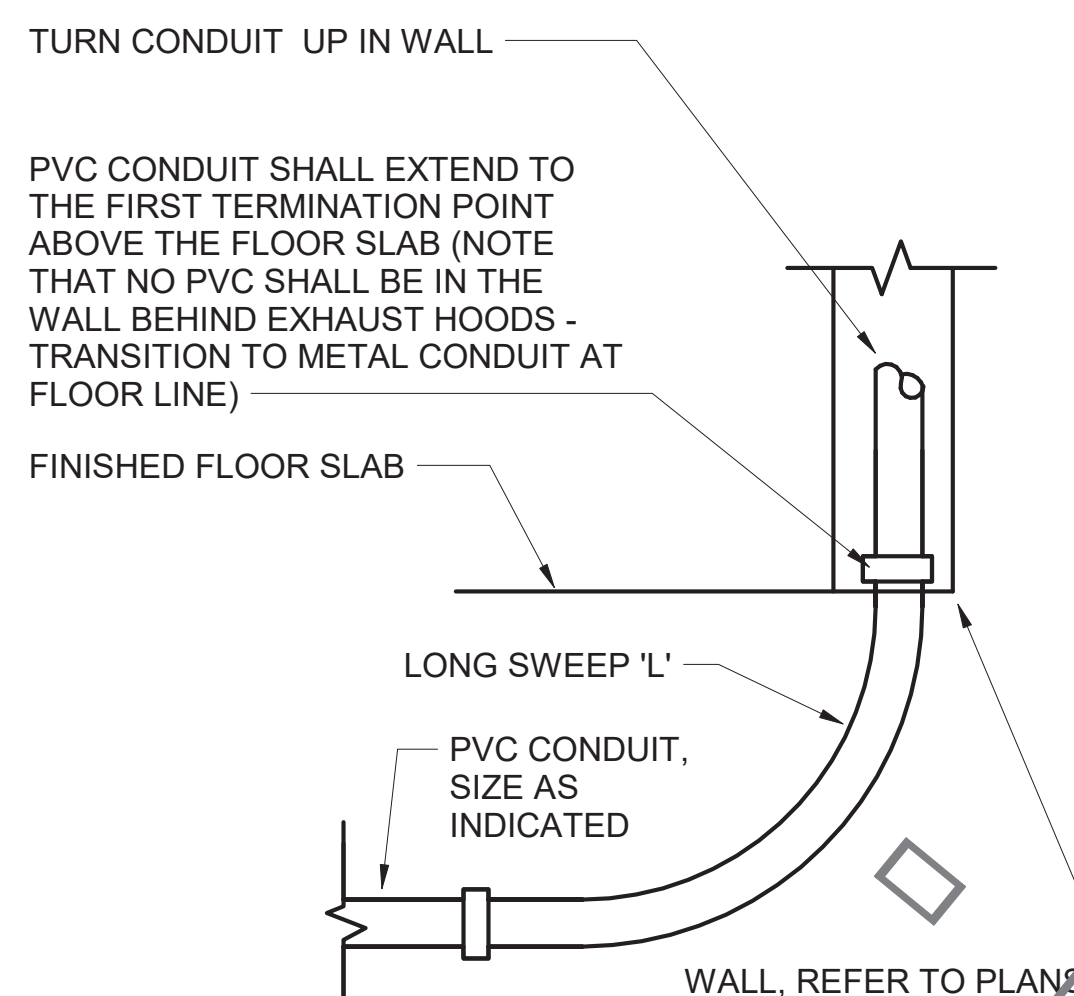
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 2018.0632  
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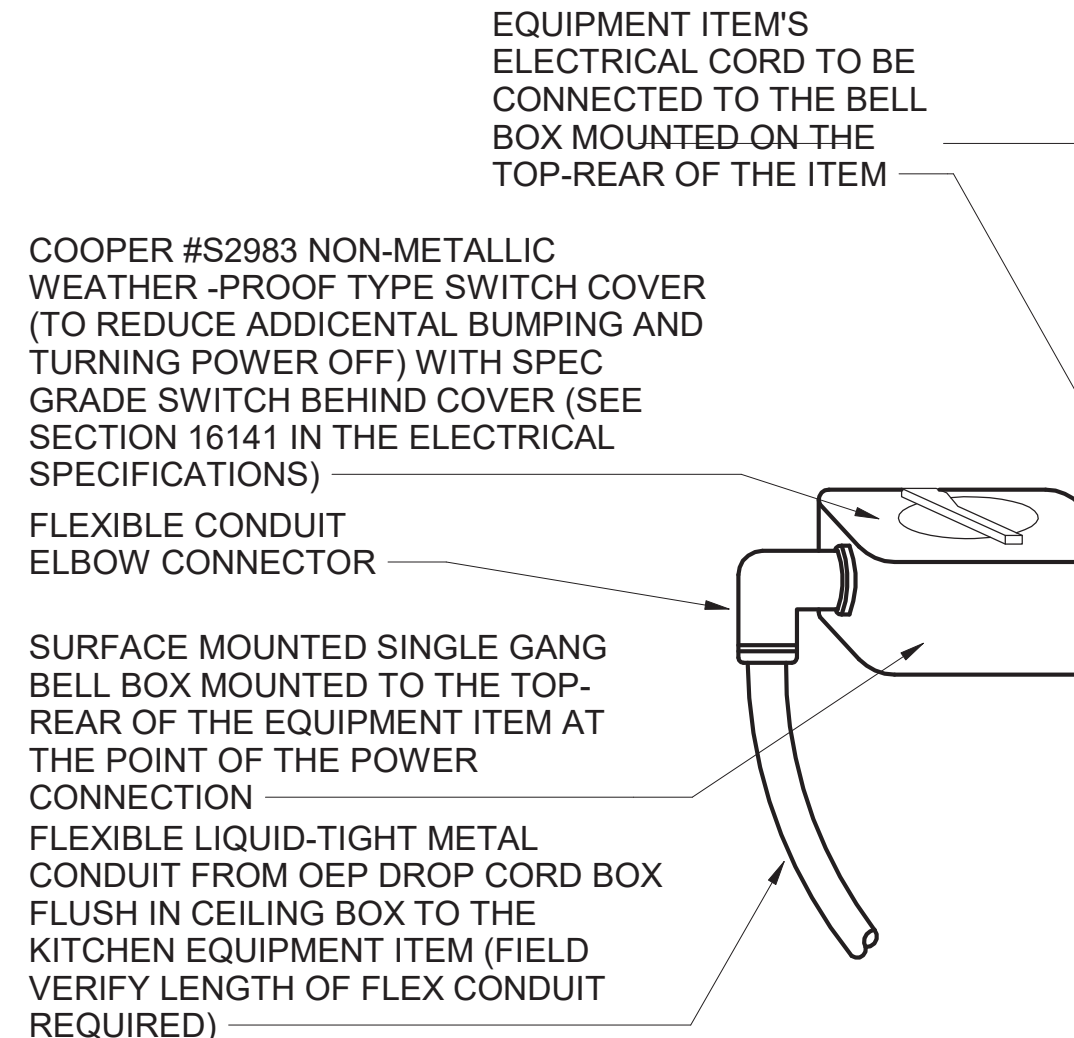
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SHEET ELECTRICAL SCHEDULES AND DETAILS

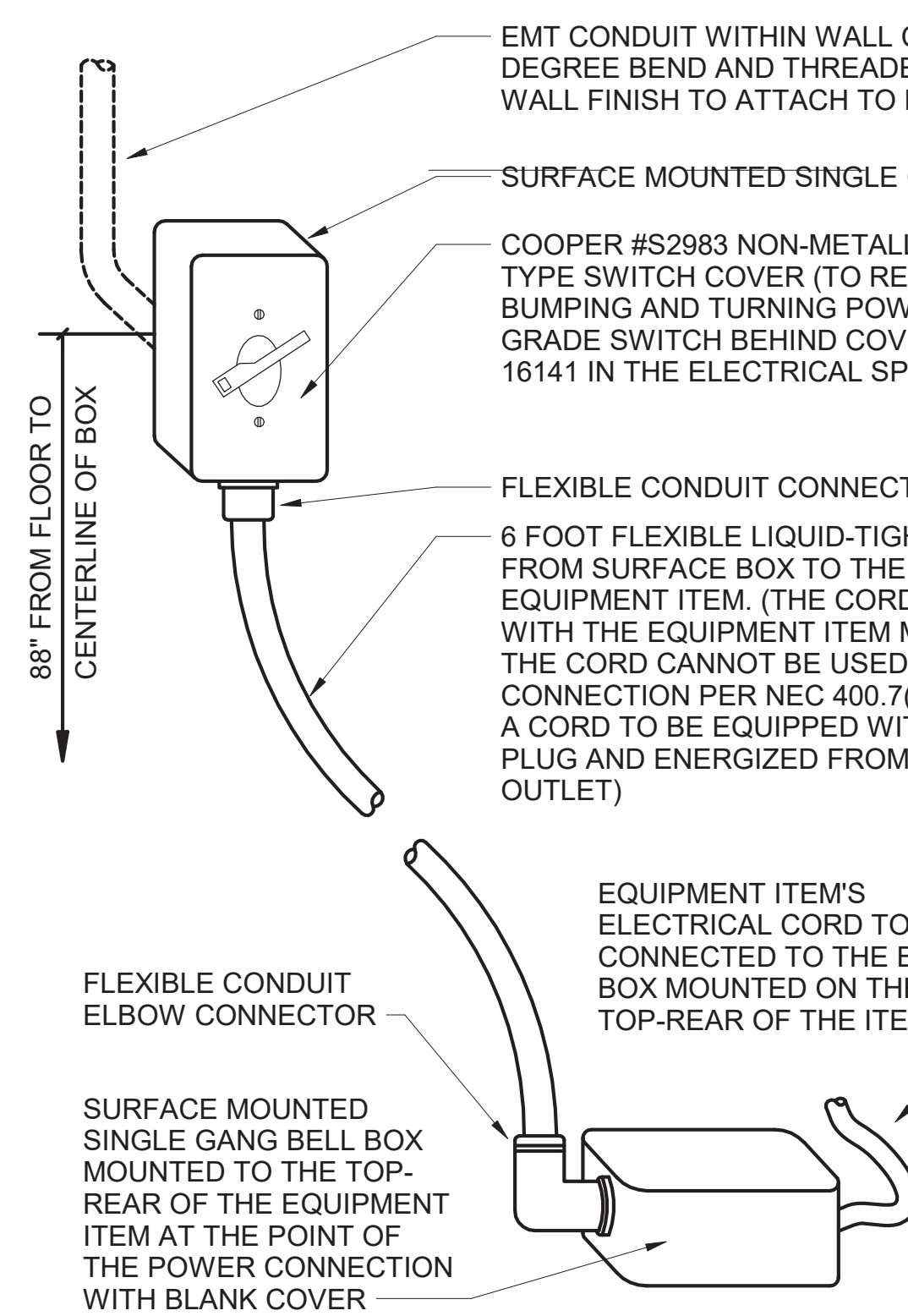
SHEET NUMBER **E-001**



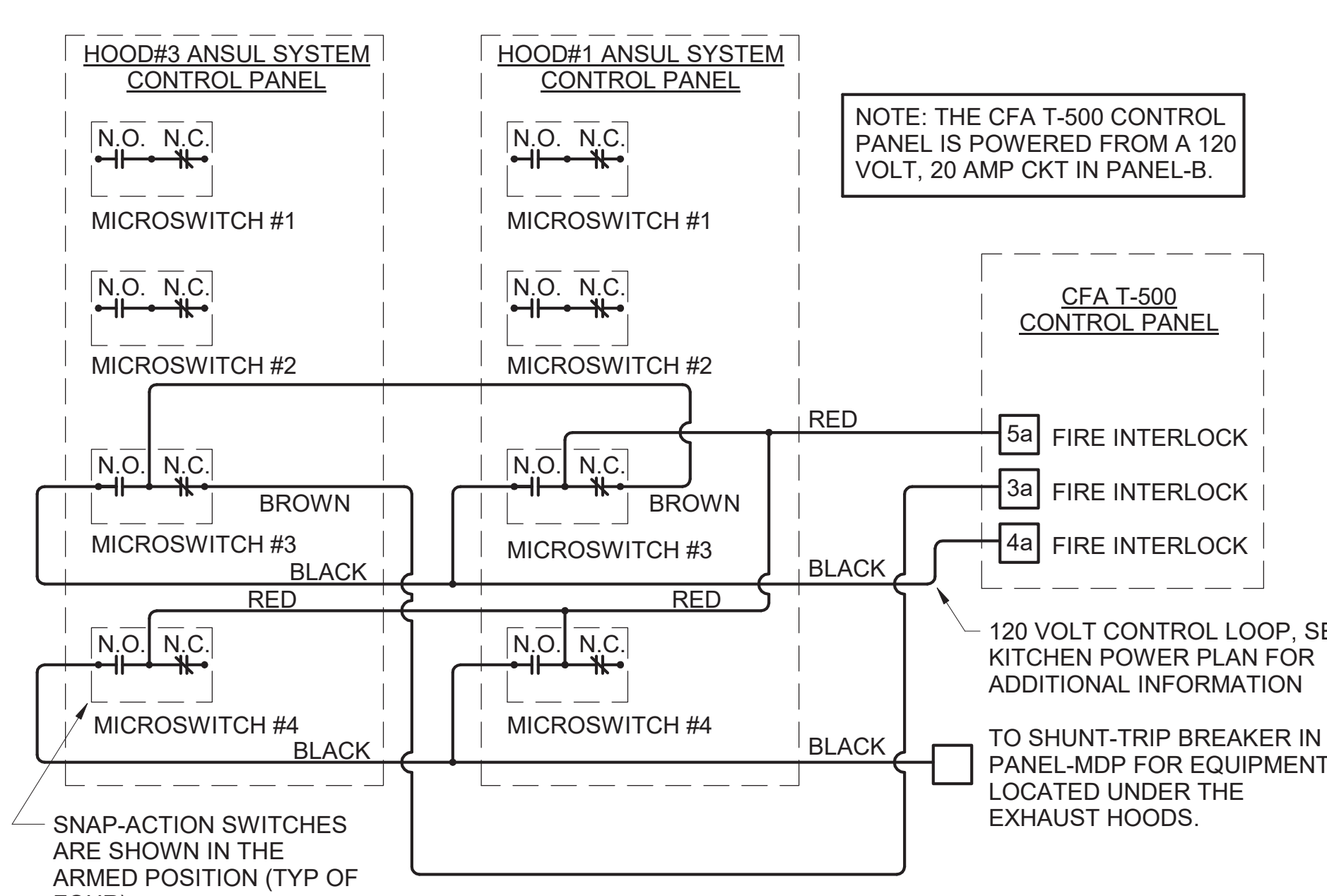
**D4 INTERIOR PVC CONDUIT DETAIL**  
NO SCALE



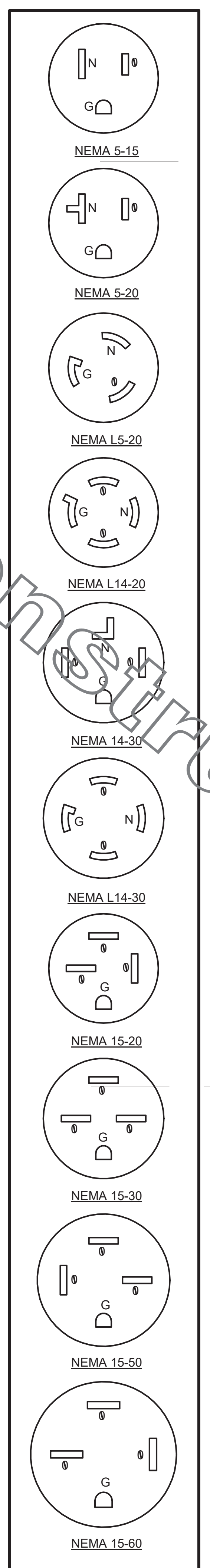
**C4 DIRECT CONNECTION - ISLAND LOCATION**  
NO SCALE



**B4 DIRECT CONNECTION - WALL LOCATION**  
NO SCALE



**A3 ANSUL SYSTEM PANEL WIRING DIAGRAM**  
NO SCALE



**KITCHEN EQUIPMENT SCHEDULE - CHICK-FIL-A P12 EDITION**

VERIFY THE QUANTITY AND ROUGH-IN OF EACH EQUIPMENT ITEM WITH THE KITCHEN EQUIPMENT SCHEDULE ON THE "K" SHEETS

SCHEDULE NOTES	EQUIP. NO.	BLDG TYPE					ELECTRICAL LOAD					NEMA CONFIG		COOPER/ARROW HART (UON) RECEPTACATOG NO.	Wire/Conduit MARK NO.	COMMENTS AND REMARKS
		LS	LE	LC	SE	VOLTS	PH	WIRES	KW	AMPS	WALL	DROP-CORD				
	120	X	X	X	X	208	3	4	5.040	22/12.5/7.5			DIRECT		18	LISTED LOAD INCLUDES PLUG-IN ITEMS
	120a	X	X	X	X	208	3	4	3.280	6.5/13.3/7.83			DIRECT		18	LISTED LOAD INCLUDES PLUG-IN ITEMS
	120c	X	X	X	X	208	3	4	18.600	56.6/41.6/56.6			DIRECT		18	LISTED LOAD INCLUDES PLUG-IN ITEMS
	120d	X	X	X	X	120	1	2	0.580	5.0			N/A	FURNISHED IN #120a	-	
	500A	X	X	X	X	120	1	2	1.800	15.0			N/A	FURNISHED IN #120c	-	
	500B	X	X	X	X	208	1	3	5.000	24.0			N/A	FURNISHED IN #120c	-	
	550	X	X	X	X	120	1	2	0.900	7.83			N/A	FURNISHED IN #120	-	
	564	X	X	X	X	120	1	2	1.600	13.3			N/A	FURNISHED IN #120a	-	
	180	X	X	X	X	120	1	2		0.7			5-20R	N/A	IG5362RN (ORANGE)	1-I-G
	182	X	X	X	X	120	1	2		0.18			5-20R	N/A	IG5362RN (ORANGE)	1-I-G
	183	X	X	X	X	120	1	2		0.125			5-20R	5-20R	IG5362RN (ORANGE)	1-I-G
	NOTE 5	184	X	X	X	120	1	2	0.120	1.0			5-20R	5-20R	VG20	1
	NOTE 2	190	X	X	X	120	1	2		0.8			5-20R	N/A	CR20	1
	NOTE 5	211b	X	X	X	120	1	2	0.078	0.650			5-15R	N/A	TR780W (DUPEX)	1
		211c	X	X	X	120	1	2	0.030	0.25			5-15R	N/A	TR780W (DUPEX)	1
		269	X	X	X	120	1	2		VERIFY			DIRECT	N/A	-	1
		270	X	X	X	120	1	2		VERIFY			DIRECT	N/A	-	1
	NOTE 2	300a	X	X	X	120	1	2		4.0			5-20R	N/A	1877 (SIMPLEX)	1
		300X	X	X	X	208	3	3	15.0	15.0			15-20R	N/A	HUBBELL HBL8420	2
						208	3	3	19.0	19.0			15-30R	N/A	HUBBELL HBL8430A	8
	NOTE 2	305	X	X	X	120	1	2	1.650	13.8			5-20R	N/A	VG20	1
		308	X	X	X	208	1	3	4.000	19.2			L14-30R	N/A	AHL1430R	8
		308d	X	X	X	120	1	2		1.0			5-20R	N/A	CR20	1
	NOTE 2	310	X	X	X	120	1	2		8.2			5-20R	N/A	1877 (SIMPLEX)	1
		315W	X	X	X	120	1	2		10.0			5-20R	N/A	CR20	1
	NOTE 2	320	X	X	X	120	1	2		6.2			5-20R	N/A	CR20	1
		363	X	X	X	208	3	3	49.0	49.0			15-60R	N/A	AH8560N	17
		363H	X	X	X	208	3	3	45.4	45.4			15-60R	N/A	AH8560N	17
		380A	X	X	X	120	1	2	0.010				5-15R	N/A	-	-
		380Z	X	X	X	120	1	2		6.0			5-15R	N/A	817 (SIMPLEX) CR15 (DUPEX)	1
	NOTE 2	380ZC	X	X	X	208	3	4	21.2	21.2			DIRECT	N/A	-	12
	NOTE 5	400	X	X	X	120	1	2		9.4			5-20R	N/A	VG20	1
		401	-	-	-	120	1	2		8.7			L5-20R	L5-20R	AHL520R / AHL520C	1
		402	X	-	-	120	1	2		8.7			L5-20R	L5-20R	AHL520R / AHL520C	1
		416	X	X	X	120	1	2		3.3			DIRECT	-	-	1
		416	X	X	X	208	3	3		16.3			DIRECT	-	-	8
		416	X	X	X	208	1	2		1.5			DIRECT	-	-	1
		416	X	X	X	120	1	2		3.3			DIRECT	-	-	1
		416N	-	-	-	208	3	3		24.00			DIRECT	-	-	8
		416N	-	-	-	208	1	2					DIRECT	-	-	1
	NOTE 5	420	X	X	X	120	1	2		4.7			5-20R	L5-20R	1877 (SIMPLEX) / AHL520R	1
	NOTE 2	421	X	X	X	120	1	2		6.3			5-20R	L5-20R	1877 (SIMPLEX) / AHL520R	1
	NOTE 2	431	X	X	X	120	1	2		6.3			5-20R	L5-20R	1877 (SIMPLEX) / AHL520R	1
	NOTE 5	432	X	X	X	120	1	2		6.3			5-20R	L5-20R	1877 (SIMPLEX) / AHL520R	1
	NOTE 2	440	X	X	X	120	1	2		12.0			5-20R	L5-20R	VG20 / AHL520R	1
	NOTE 5	441	X	X	X	120	1	2		9.0			L5-15R	L5-15R	CWL515R / CWL515C	1
		444	X	X	X	120	1	2		16.0			DIRECT	DIRECT	-	1
		444S	-	-	-	120	1	2		16.0			DIRECT	DIRECT	-	1
		449	X	X	X	120	1	2		2.4			DIRECT	-	-	1
		449	X	X	X	208	3	3		9.5			DIRECT	-	-	2
		449	X	X	X	208	1	2		1.0			DIRECT	-	-	1
		449	-	-	-	120	1	2		2.4			DIRECT	-	-	1
		449N	-	-	-	208	3	3		15.00			DIRECT	-	-	2
		449N	-	-	-	208	1	2					DIRECT	-	-	1
		505	X	X	X	208	3	3	5.600	24/12/15			15-30R	N/A	AH8430N	9
		505G	X	X	X	208	3	3	19.800	57.6			15-60R	N/A	AH8460N	17
		521	X	X	X	208	1	3	3.400	18.8			6-30R	N/A	5700N	8
	NOTE 3	522	X	X	X	208	3	3	21.000	61.0			NOTE 3	N/A	-	22
	NOTE 3	522A	X	X	X	208	3	3					NOTE 3	N/A	-	22
		523	X	X	X	208	3	3	13.500	39.0			15-50R	N/A	HUBBELL HBL8450A	14
		524	X	X	X	208	3	3	9.000	24/128/2/23.1			15-50R	N/A	HUBBELL HBL8450A	14
	NOTE 2	560	X	X	X	120	1	2	1.840	15.4			5-20R	N/A	1877 (SIMPLEX)	1
	NOTE 5	563D	X	X	X	120	1	2	1.090	9.13			5-20R	N/A	1877 (SIMPLEX)	1
	NOTE 5	563S	X	X	X	120	1	2	0.548	4.56			5-20R	N/A	1877 (SIMPLEX)	1
	NOTE 2	565C	X	X	X	120	1	2	1.500	12.50			5-20R	L5-20R	VG20 / AHL520R	1
		580	X	X	X	120	1	2	2.880	24.0			L5-30R	L5-30R	AHL530R / AHL530C	7
	NOTE 5	600	X	X	X	120	1	2		8.0			L5-20R	L5-20R	AHL520R / AHL520C	1
	NOTE 5	601	-	-	-											
	NOTE 2	607	X	X	X	120	1	2					5-20R	N/A	VG20	1
		669	X	X	X	120	1	2					5-20R	N/A	CR20	1
	NOTE 2	671	X	X	X	120	1	2		12.50			5-20R	N/A	CR20	1
		422	X	X	X	115	1	2		6.7			5-15P	N/A	CR20	1
		503	X	X	X	208	1	2		12			L6-20P	N/A	-	1
		505V	X	X	X	208	3	2		22			15-30P	N/A	-	1
		592	X	X	X	208	3	2		22			15-50P	N/A	-	1

WIRING DEVICE PACKAGE, INCLUDING SWITCHES (EXCEPT HUBBELL BRAND DEVICES) SHALL BE PURCHASED AS A PART OF A NATIONAL ACCOUNTS PROGRAM THROUGH GEXPRO (FORMERLY GE SUPPLY, CONTACT BRIAN REECE AT 770-840-4162 (EMAIL: BRIAN.REECE@GEXPRO.COM))

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

NOTE 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.

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.

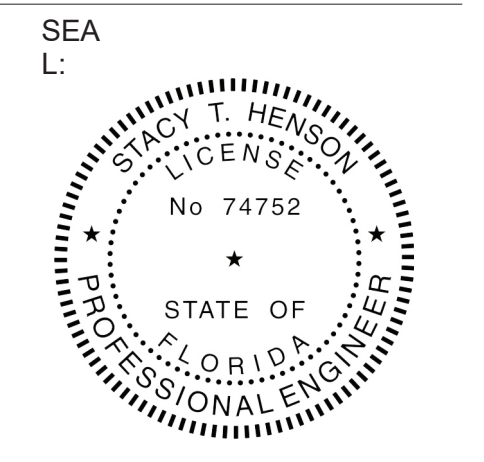
NOTE 6: REFER TO THE CONDUIT AND CONDUCTOR SCHEDULE FOR THE WIRE/CONDUIT MARK NUMBER AND THE MINIMUM WIRE AND CONDUIT SIZE FOR EACH EQUIPMENT ITEM.



**Chick-fil-A**  
5200 Buffington Road  
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**CHICK-FIL-A**  
INTERNATIONAL  
SPEEDWAY FSR  
100 N. Williamson Boulevard  
Daytona Beach, FL 32114

**FSR#00866**  
BUILDING TYPE / SIZE: P12 SE ALL  
RELEASE: v2.19.05

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
3	12.04.20	OWNER REVISION

CONSULTANT PROJECT #		2018.0632
PRINTED FOR	CONSTRUCTION	
DATE	DATE	
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## LIGHTING PLAN KEYNOTES

- L1 ROUTE THROUGH CONTROL PANEL CFA-T500 AND CONTROLLED BY STORE OCCUPIED SWITCH.
- L2 APPROXIMATE LOCATION OF SWITCH BANK 'SB'. SEE DETAIL ON THE LIGHTING PLAN FOR MORE INFORMATION.
- 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.
- 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.
- L8 NOT USED.
- L9 TO THE TOILET EXHAUST FAN ON ROOF. SEE SHEET E-250, ROOF ELECTRICAL PLAN.
- L10 NOT USED.
- L11 THIS FIXTURE SHALL NOT BE SWITCHED. CONNECT TO CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS.
- L12 INSTALL ALL JUNCTION BOXES IN THE PLAY AREA SO THEY WILL BE READILY ACCESSIBLE AFTER THE PLAYGROUND EQUIPMENT IS INSTALLED.
- L13 SEE THE GROUND 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). 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.
- L17 NOT USED.
- L18 CONNECT LIGHTING FIXTURE SO THAT LAMP BALLAST OR DRIVER AND EMERGENCY BATTERY PACK ARE NOT SWITCHED. ML ADJACENT TO FIXTURE INDICATES THAT FIXTURE SHALL BE ON 24 HOURS.
- L19 NOT USED.
- L20 NOT USED.
- L21 LOCATE RECEPTACLE FLUSH IN CEILING FOR FUTURE OWNER FURNISHED INTERIOR SIGNAGE.
- 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.
- L25 NOT USED.
- L26 NOT USED.
- 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-OUT FOR THE FAN'S PLUG AND CORD CONNECTION.
- A3 INFARED GAS HEATER WITH INTEGRAL ON-OFF SWITCH PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.
- 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.

## POWER PLAN KEYNOTES

- 1 PROVIDE TWO-GANG DEEP BOX (2" MIN.) FOR ANSUL PULL STATION. EXTEND 1/2" CONDUIT FROM BOX, STUBBED ABOVE CEILING.
- 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 #V5286-P25 CLEAR ANODIZED ALUMINUM PUSHBUTTON WITH SINGLE GANG SWITCHPLATE.
- 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.
- 5 SEE FURNITURE ELEVATIONS FOR EXACT MOUNTING LOCATION.
- 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.
- 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.
- 8 NOT USED.
- 9 ONE 3" ISP SERVICE CONDUIT. EXTEND WITH PULL STRING FROM J-BOX TO SUPPLIER'S SOURCE. REFER TO ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION.
- 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 ELECTRICAL WITH THE SUNCOAST ELECTRONICS PACKAGE OF GEAR AND CONTROLS. EXTEND 1/2" CONDUIT FROM EACH BOX AND STUB ABOVE CEILING.
- 11 PROVIDE TWO 6" X 6" X 4" D J-BOXES (ONE FOR TELEPHONE AND ONE FOR ISP) AT 6" AFF AND EXTEND A 2" CONDUIT WITH PULL STRING IN THE WALL FROM EACH J-BOX INTO THE ACCESSIBLE CEILING SPACE. PROVIDE 2 3/8" X 3/8" 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 AT THE BOTTOM OF THE BACKBOARD WITH A #6 AWG INSULATED CABLE BUNDLING CONDUCTOR IN A 3/4" FROM THE GROUND BAR TO THE BUILDING ELECTRICAL SERVICE GROUNDING ELECTRODE SYSTEM (GES). 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. CONNECT TO CIRCUIT POS-12 (15A/1P BRANCH BREAKER), AND LABEL THE RECEPTACLE "FOR FIBER TO CABLE MODEM USE ONLY".
- 12 PROVIDE JUNCTION BOX AT 8'-0" AFF WITH CONDUIT AND CONDUCTORS TO PANELBOARD FOR FUTURE CONNECTION TO BOOSTER PUMP. REFER TO THE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- 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 SEE SHEET E-303 AND THE ELECTRICAL SITE PLAN FOR THE DRIVE THRU ORDER AREA REQUIREMENTS AND FOR THE LOCATION OF THE LIGHTING POLE(S) THAT WILL SERVE AS A LOCATION FOR CAMERAS.

## 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" 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 4"W X 4" X 3" D JUNCTION BOX WITHOUT COVERPLATE AND EXTEND A 2" CONDUIT DOWN THROUGH SLAB AND BELOW GRADE TO EACH OF THE SITE'S POLE MOUNTED CAMERA LOCATIONS (SEE ELECTRICAL SITE PLAN FOR CONTINUATION) AND A 2" CONDUIT UP INTO THE ACCESSIBLE CEILING SPACE WITH A BUSHING ON THE CONDUIT END. PROVIDE A SINGLE-GANG JUNCTION BOX ADJACENT TO THE DOUBLE-GANG BOX WITH A 1.5" CONDUIT DOWN TO A SECOND SINGLE-GANG JUNCTION BOX AT THE CCTV MONITOR LOCATION.
- 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/WF CEILING.
- S5 PROVIDE SINGLE GANG BOX WITHOUT COVER PLATE. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.
- 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 SYSTEMS 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.
- S9 PROVIDE SINGLE GANG JUNCTION BOX WITHOUT COVERPLATE. 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.
- 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.

## COMMUNICATIONS KEYNOTES

- C1 PROVIDE DOUBLE-GANG RING (CARLON #SC200RR) WITH STAINLESS STEEL COVER PLATE AND HOLE IN PLATE FOR AUDIO WITH 2" CONDUIT UNDERGROUND TO THE DT DUAL-LANE (MLOP) ORDERING AREA AND A 2" CONDUIT STUBBED UP INTO THE CEILING SPACE.
- C2 PROVIDE JUNCTION BOX, LESS COVER PLATE, AND EXTEND 3/4" CONDUIT UP IN WALL TO ABOVE CEILING FOR INSTALLATION OF WIRELESS COMMUNICATION CONTROL UNIT.
- C3 PROVIDE TWO DOUBLE-GANG RINGS (CARLON #SC200RR) WITH STAINLESS STEEL COVER PLATE AND HOLE IN PLATE FOR AUDIO WITH 2" CONDUIT STUBBED UP INTO THE CEILING SPACE. ONE RING SHALL BE ABOVE THE COUNTER AND ONE BELOW WITH A 2" CONDUIT BETWEEN THE RINGS.
- 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.

## 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.
- M2 NOT USED.
- 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' DOUBLE-GANG RING (CARLON #SC200RR) FOR OWNER'S DEVICE PLATE WITH A 3" 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 CEILING SPACE ABOVE SERVING AREA. CONDUIT SHALL TERMINATE FLUSH WITH FACE OF WALL BELOW COUNTER. CUSTOM STAINLESS STEEL 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 2" 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.
- 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.

## 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.

## 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

## KEYNOTE NOTE

THIS IS A GENERAL LISTING OF ALL KEYNOTES FOR THE LIGHTING PLAN AND THE POWER PLANS. NOT ALL KEYNOTES ARE USED ON THE PLANS.

## 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 WIG AND WIF CONDENSERS ON UNBUILT WITH CONDUIT DOWN INTO CEILING SPACE BELOW THRU ROOF PENETRATION DEVICE (NOT THRU ROOF). SEE THE ARCHITECTURAL ROOF PENETRATION DETAILS(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 1/4" DIAMETER LOOP IN THE FLEXIBLE CONDUIT BETWEEN THE ROOF AND THE FAN ELECTRICAL CONNECTION.
- 5 NOT USED.
- 6 NOT USED.
- 7 NOT USED.
- 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 SEALED TIGHT FITTINGS AS THE CONDUIT ENTERS AND LEAVES THE DUCTWORK. INTERLOCK WITH LIGHTING CIRCUIT IN RESTROOM. REFER TO THE LIGHTING PLAN FOR CONTINUATION.
- 9 MOUNT TYPE 'OC' LIGHTING FIXTURE, WITH INTEGRAL SLIPFITTER, ON PIPE. PIPE WILL BE PROVIDED BY OTHER TRADES. AIM LIGHTING FIXTURE AT NIGHT FOR BEST ILLUMINATION OF FLAG.
- 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 ROOF TOP 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.

## 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.
- E3 NOT USED.
- E4 CONNECT AS REQUIRED TO CJ FAN VIA THE HOOD SUPPLIED SPEED CONTROLLER. CONNECT HOMERUN VIA A RELAY IN THE CFA-T500 CONTROL SECTION.
- E5 ROUTE THROUGH LIGHTING CONTROL SWITCHBANK 'SB' FOR THE MENUBOARD POWER. CONTROLLED BY SWITCHED 'F'. SEE THE LIGHTING FLOOR PLAN.
- E6 SEE THE ROOF ELECTRICAL PLAN FOR THE LOCATION OF THE ICE MAKER CONDENSERS AND ANY ADDITIONAL REQUIREMENTS.
- E7 PROVIDE 3/4" 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.
- E9 NOT USED.
- E10 THE OUTLETS FOR THE OPEN FRYERS (ITEM #522) ARE FURNISHED BY THE EXHAUST HOOD SUPPLIER AND INSTALLED BY THE CONTRACTOR.
- E11 NOT USED.
- 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.
- E13 TWIST-LOCK 208V, 3 PHASE, 30 AMP RECEPTACLE ABOVE AD-1 AT THE DRIVE-THRU WINDOW. PROVIDE AND INSTALLED A 30 AMP CORDSET WITH NEMA L14-30 PLUG INTO THE KNOCKOUT ON THE TOP OF AD-1 AND TERMINATE ON THE LUGS IN THE UNIT'S WIRING COMPARTMENT.
- 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 BRIGID BRIDGESHI EMAIL: BRIGID1985@GMAIL.COM (800-439-7584) 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.

## POS POWER KEYNOTES

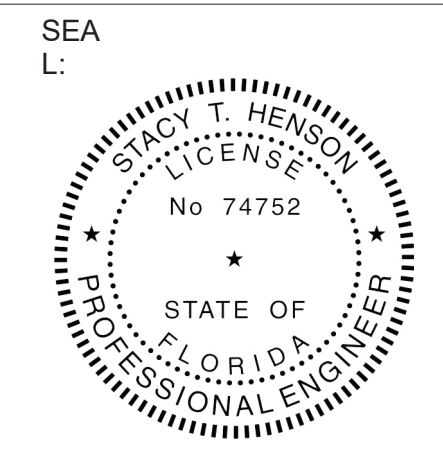
- P1 PROVIDE ORANGE ISOLATED GROUND (IG) DUPLEX RECEPTACLE.
- P2 PROVIDE GROUND FAULT PROTECTION FOR THESE DEVICES VIA A GROUND FAULT CIRCUIT BREAKER IF LOCAL CODE DEFINES THIS A FOOD PREPARATION AREA.
- P3 USE TYPE MC CABLE FOR THE ISOLATED GROUND CIRCUIT. #12 HOT, NEUTRAL, GREEN GROUND, STRIPED ISOLATED 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.



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**CHICK-FIL-A**  
**INTERNATIONAL**  
**SPEEDWAY FSR**  
100 N. Williamson Boulevard  
Daytona Beach, FL 32114

**FSR#00866**  
BUILDING TYPE / SIZE: P12 SEE ALL  
RELEASE: v2:19:05

**REVISION SCHEDULE**

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 2018.0632  
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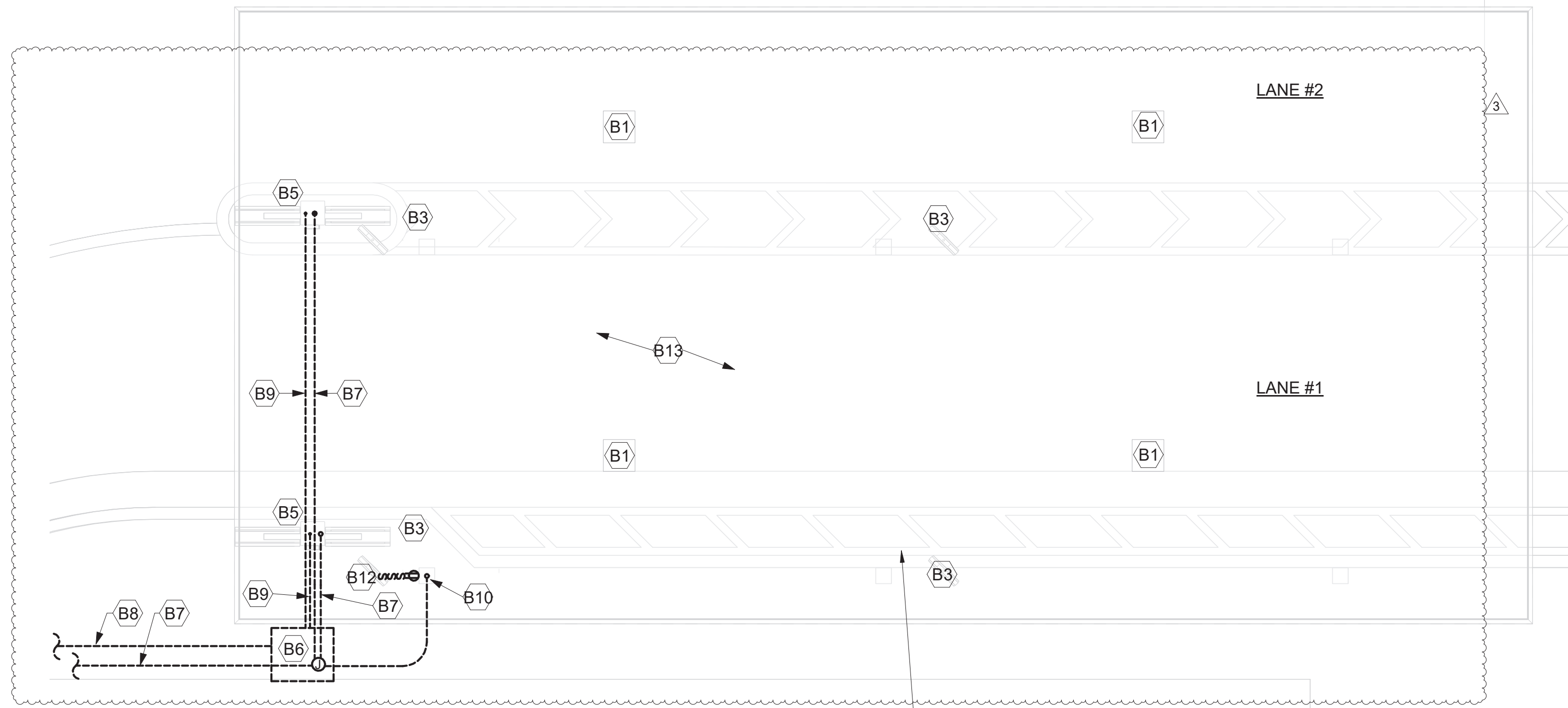
SHEET LIGHTING AND POWER PLAN KEYNOTES  
SHEET NUMBER

**E-003**

**ORDER CANOPY ELECTRICAL KEYNOTES:**

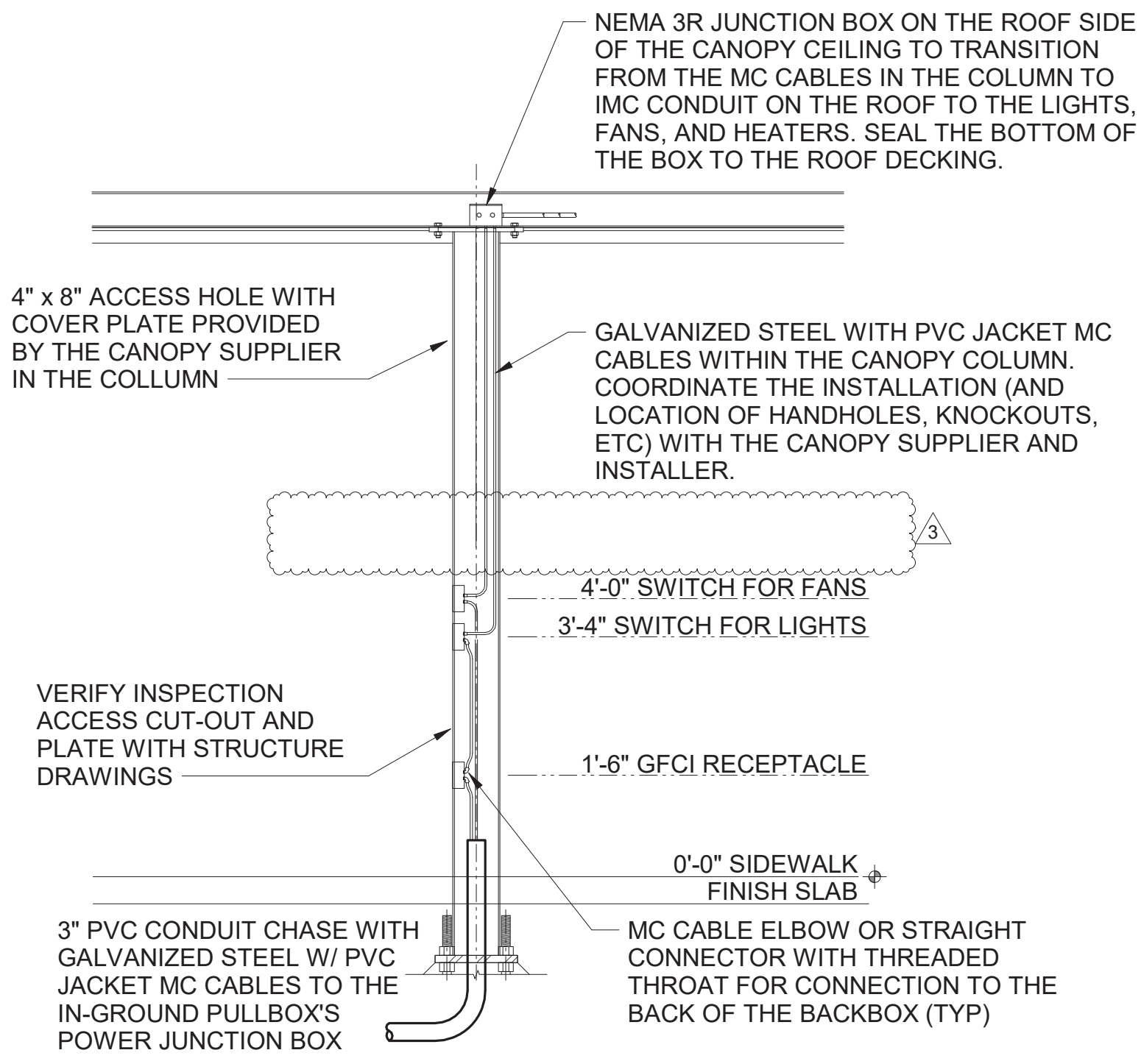
- B1 CEILING LIGHT PROVIDED BY CANOPY SUPPLIER AND INSTALLED BY E.C.
- B2 NOT USED.
- B3 AIR CIRCULATING FAN (WITH INTEGRAL ON-OFF SWITCH) PROVIDED BY OTHERS. PROVIDE A DUPLEX OUTLET (WITH IN-USE COVER PLATE) FLUSH MOUNTED IN CUT-OUT AT TOP OF COLUMN FOR FAN'S PLUG AND CORD. OUTLET TO BE ON DOWNSTREAM SIDE OF COLUMN AND AWAY FROM ONCOMING VEHICLES'-VIEW.
- B4 NOT USED
- 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 CONDUCTORS, SEE WIRING SCHEMATIC.
- B8 2" EMPTY UNDERGROUND SCH40 PVC CONDUIT FOR OWNER'S AUDIO SYSTEM/DETECTOR LOOP CABLES.
- 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 NOT USED.
- 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, TWO-STAGE HEATERS, 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.

**DESIGNER NOTE:  
ORDER CANOPY PLAN FOR REFERENCE ONLY. VERIFY WITH THE ARCHITECTURAL MODEL FOR THE CORRECT ORDER CANOPY CONFIGURATION**

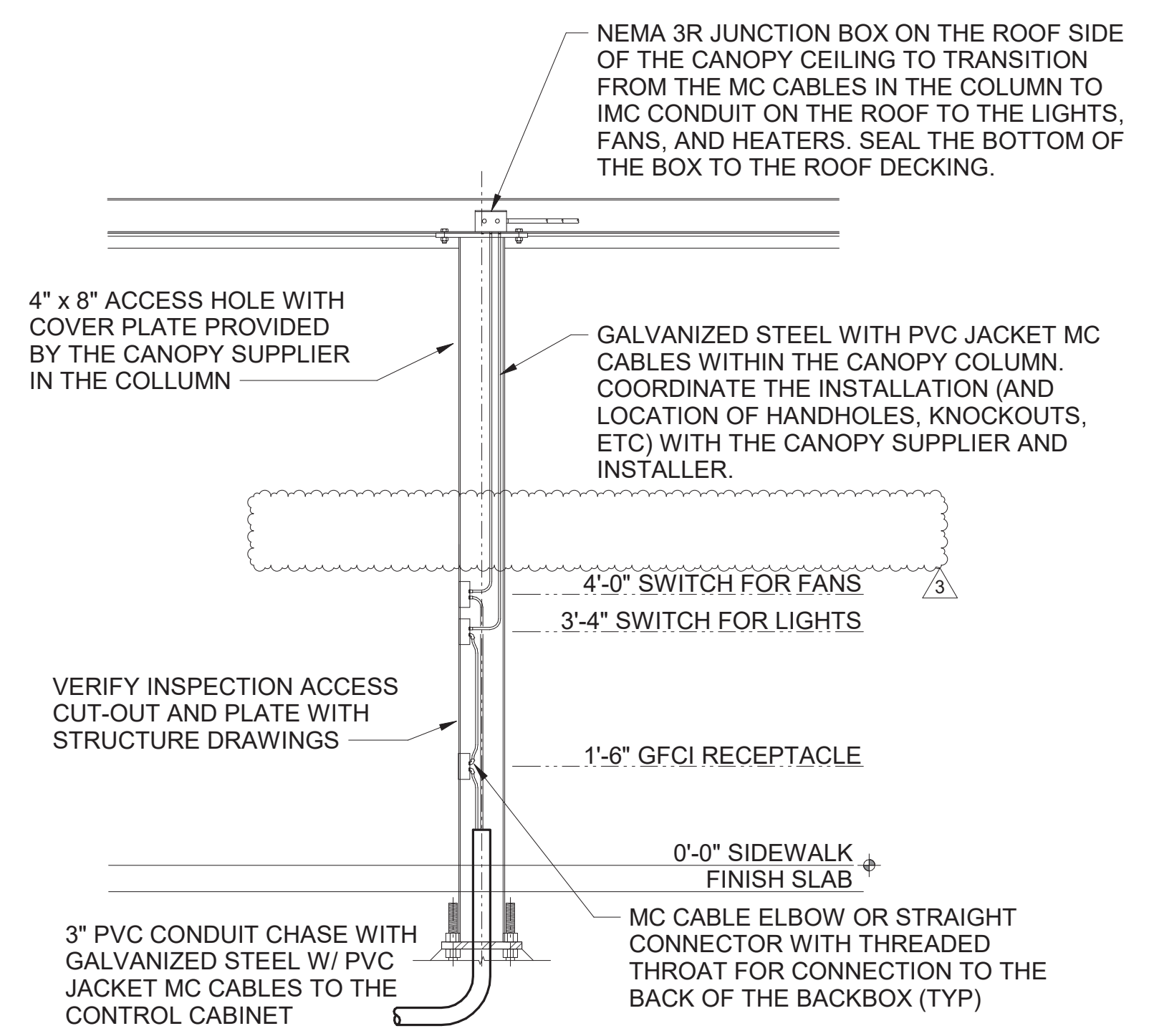


**B4 MLOP ORDER CANOPY POWER PLAN**  
1/4" = 1'-0"

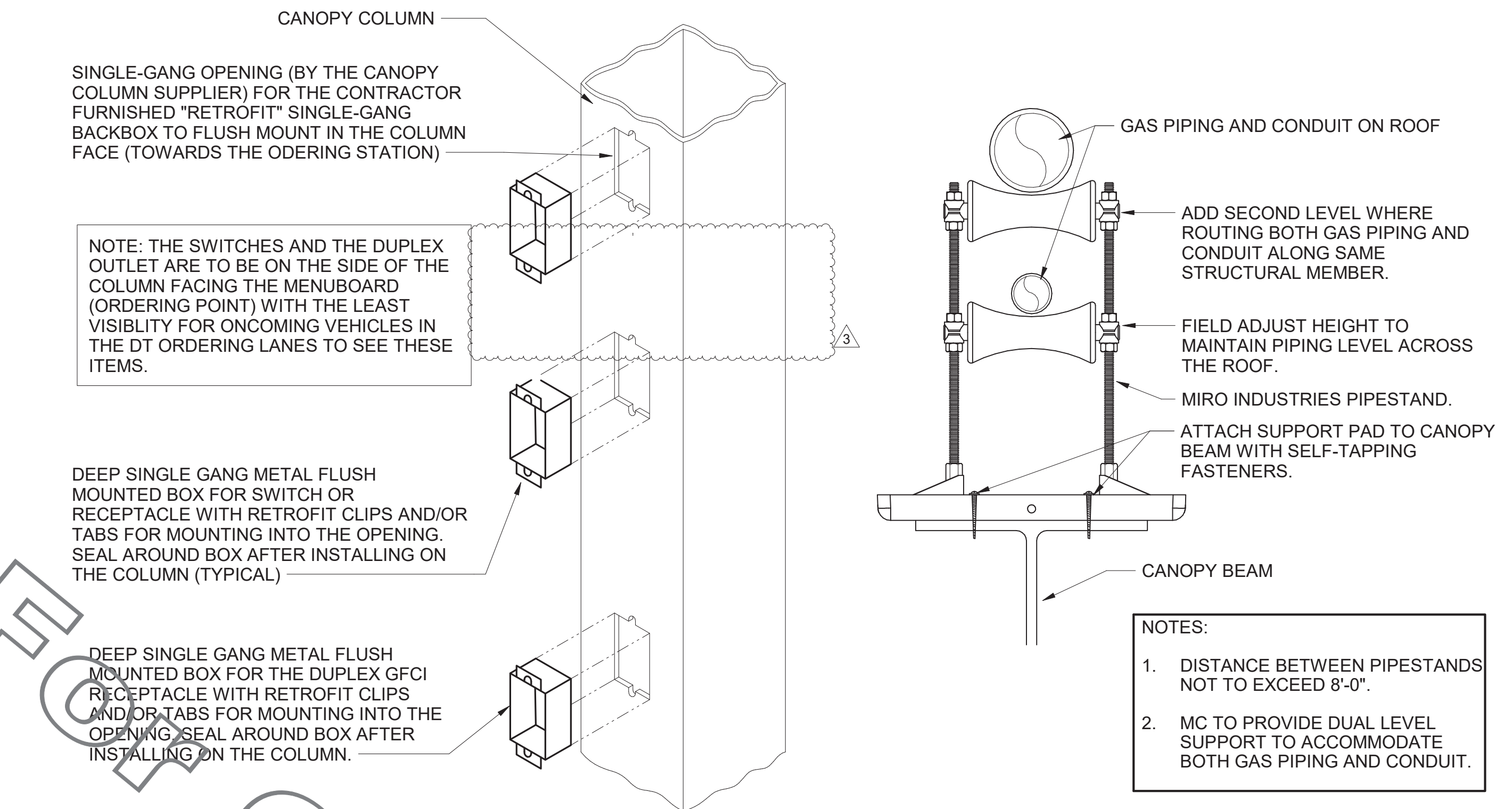
**DESIGNER NOTE:  
IN LOCATIONS WITH STRICT SITE MAXIMUM LIGHT LEVEL REQUIREMENTS, REFER TO DESIGNOTE #2018-021 FOR AN OPTION (DIMMER SWITCH) WHICH MAY HELP WITH COMPLIANCE**



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

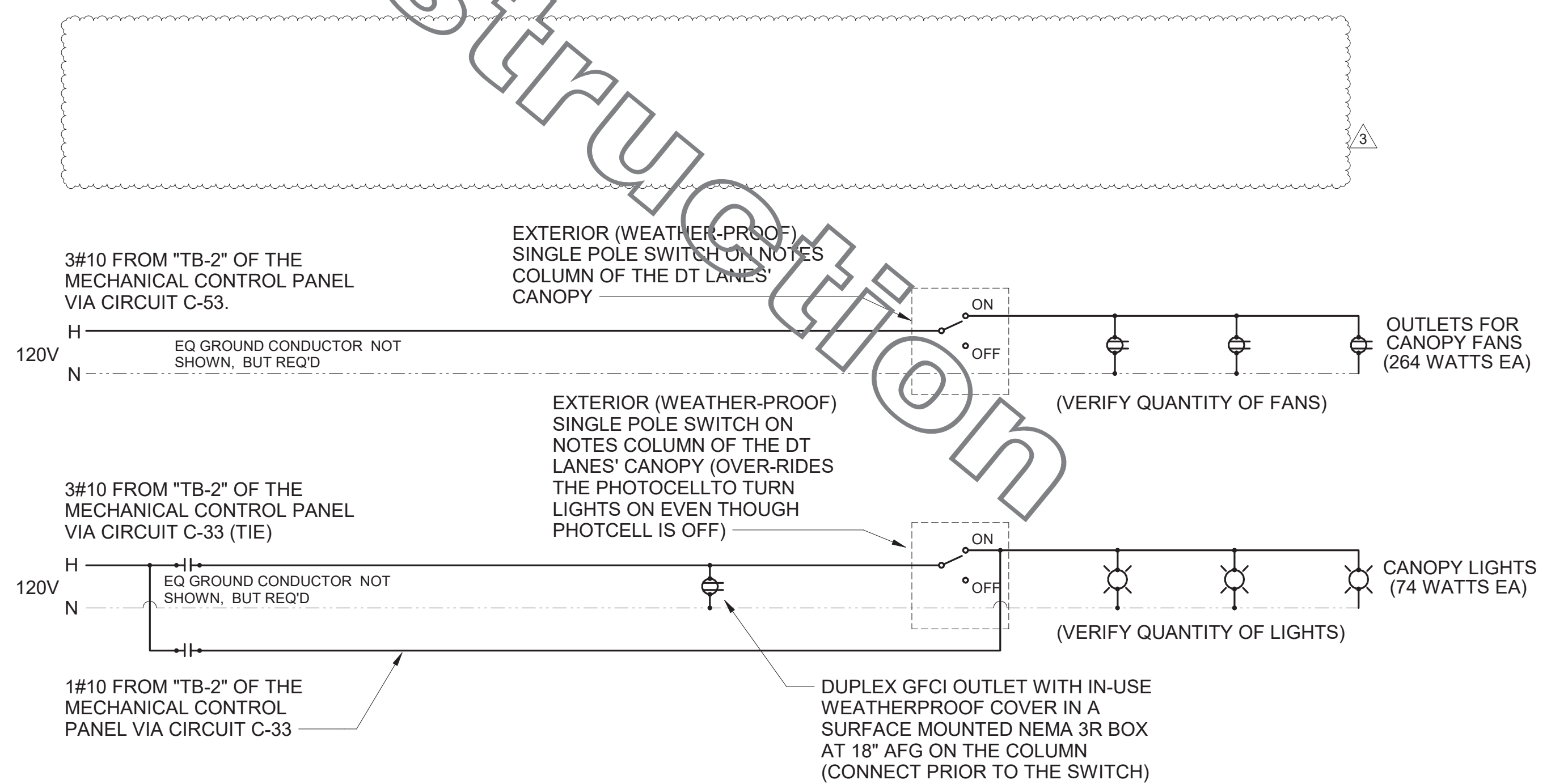


**D1 MEAL DELIVERY CANOPY COLUMN SECTION**  
N.T.S.



**C3 CANOPY COLUMN ISOMETRIC**  
N.T.S.

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



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



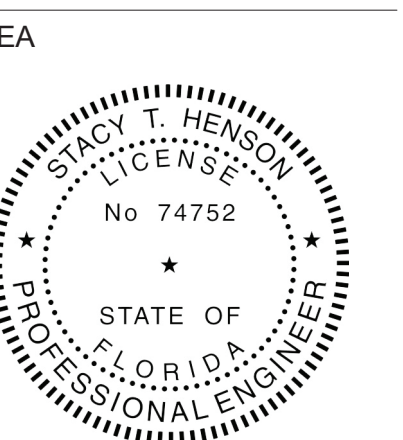
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**INTERPLAN**

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PROJECT MANAGEMENT

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**FSR#00866**  
BUILDING TYPE / SIZE: P12 SE ALL  
RELEASE: v2.19.05

NO.	DATE	DESCRIPTION
3	12.04.20	OWNER REVISION

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ORDER CANOPY PLAN AND DETAILS

SHEET NUMBER

**E-304**



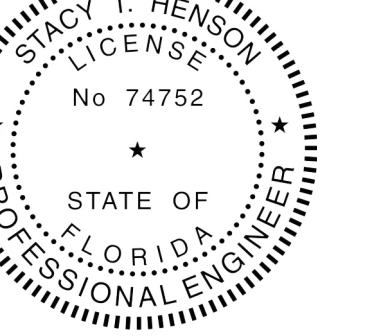
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SEA  
 L:



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**FSR#00866**

BUILDING TYPE / SIZE: P12 SE LRG  
 RELEASE: v2\_19.05

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
3	12.04.20	OWNER REVISIONS
9	07.28.22	OWNER REVISIONS

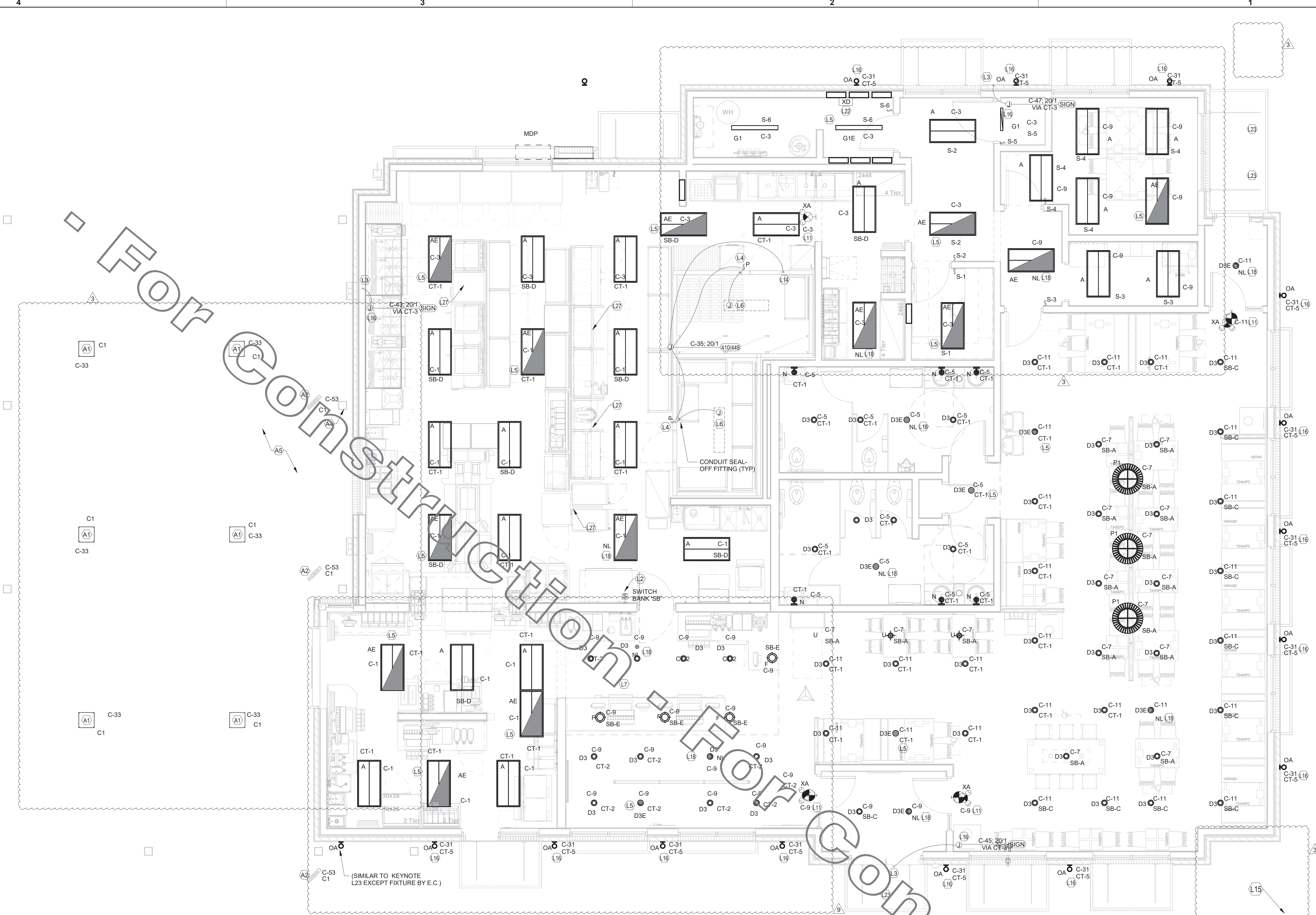
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SHEET LIGHTING PLAN-LRG

SHEET NUMBER

**E-211L**



**B1** LIGHTING PLAN - LRG (24)  
 1/4" = 1'-0"

**A1** SWITCH BANK "SB" DETAIL  
 NO SCALE

For Construction



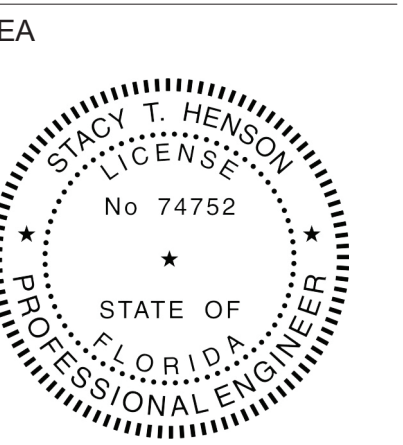
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**FSR#00866**

BUILDING TYPE / SIZE: P12 SE LRG  
 RELEASE: v2\_19.05

NO.	DATE	DESCRIPTION
3	12.04.20	OWNER REVISIONS
7	12.01.21	ARCH-CIVIL COORDINATION
9	07.28.22	OWNER REVISIONS
11	11.04.22	OWNER REVISIONS

NO.	DATE	DESCRIPTION
3	12.04.20	OWNER REVISIONS
7	12.01.21	ARCH-CIVIL COORDINATION
9	07.28.22	OWNER REVISIONS
11	11.04.22	OWNER REVISIONS

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 SHEET POWER AND SYSTEMS PLAN-LRG  
 SHEET NUMBER **E-221L**

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

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

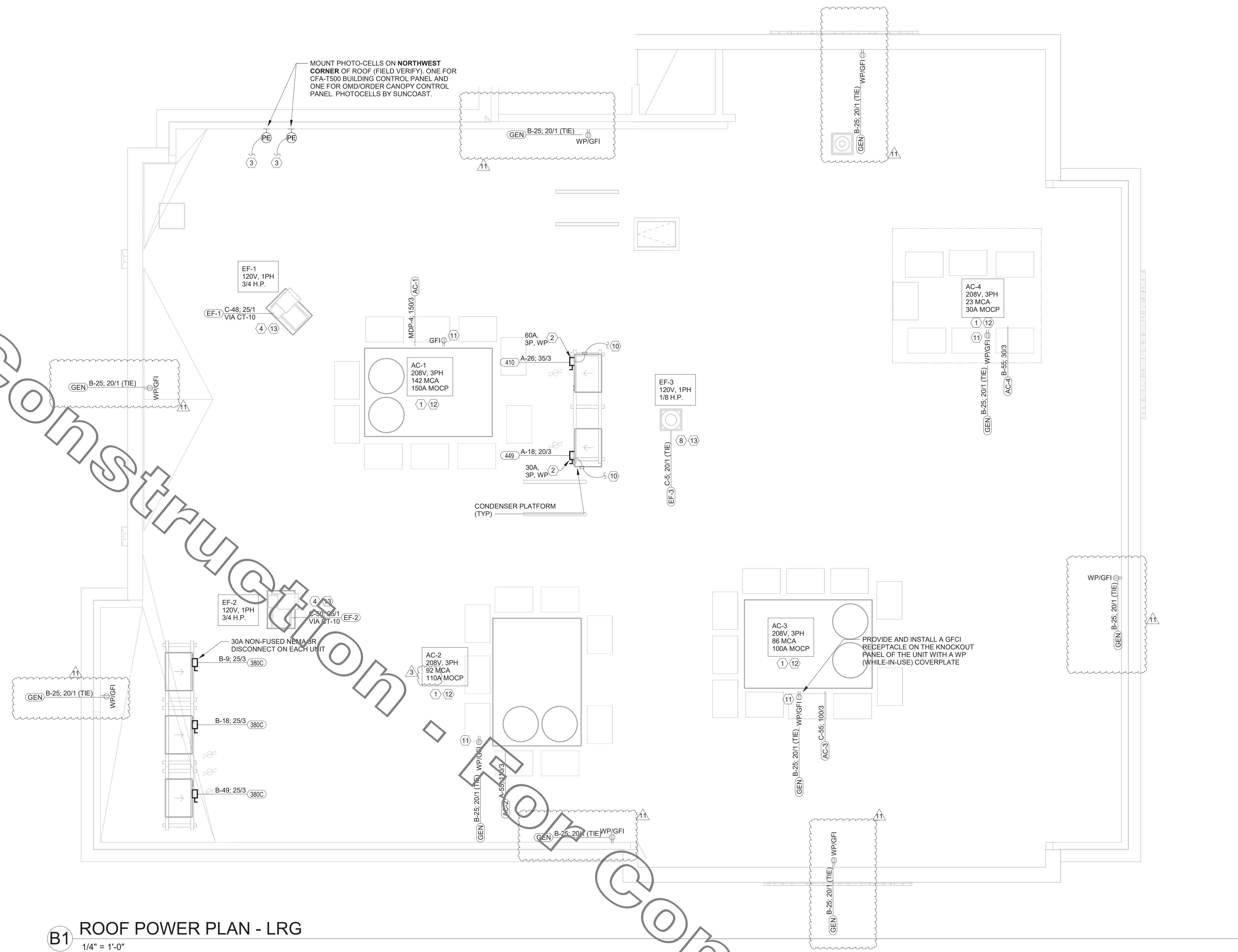
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**CONSTRUCTION**

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For Construction

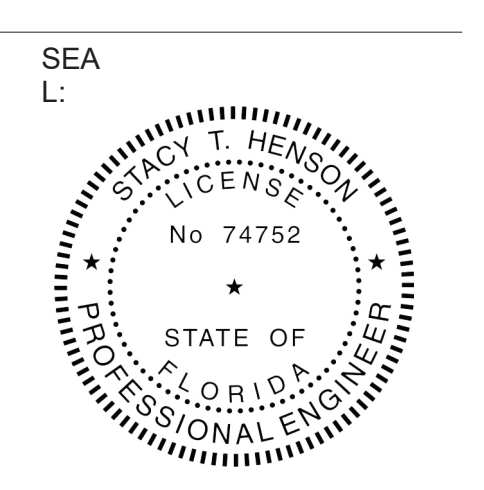


**B1** ROOF POWER PLAN - LRG  
 1/4" = 1'-0"



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 BUILDING TYPE / SIZE: P12 SE LRG  
 RELEASE: v2\_19.05

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
3	12.04.20	OWNER REVISIONS
11	11.04.22	OWNER REVISIONS

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SHEET ROOF POWER PLAN-LRG	
SHEET NUMBER	

**E-250L**





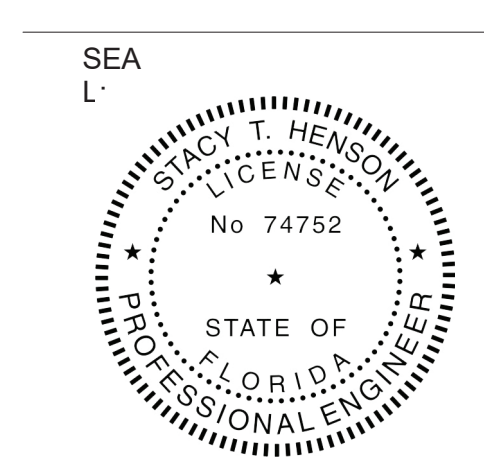


Chick-fil-A

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Atlanta, Georgia  
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REVISION SCHEDULE

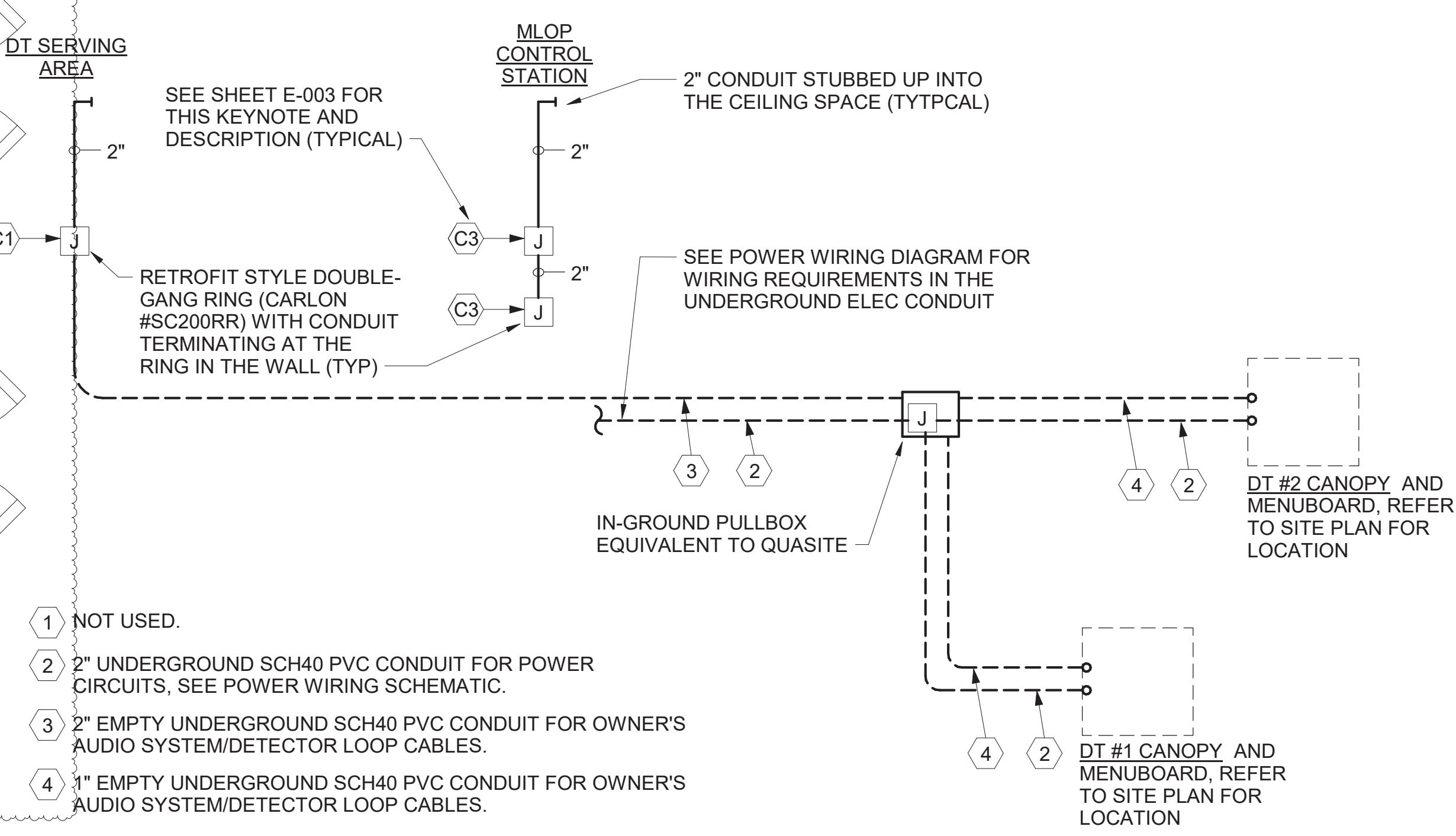
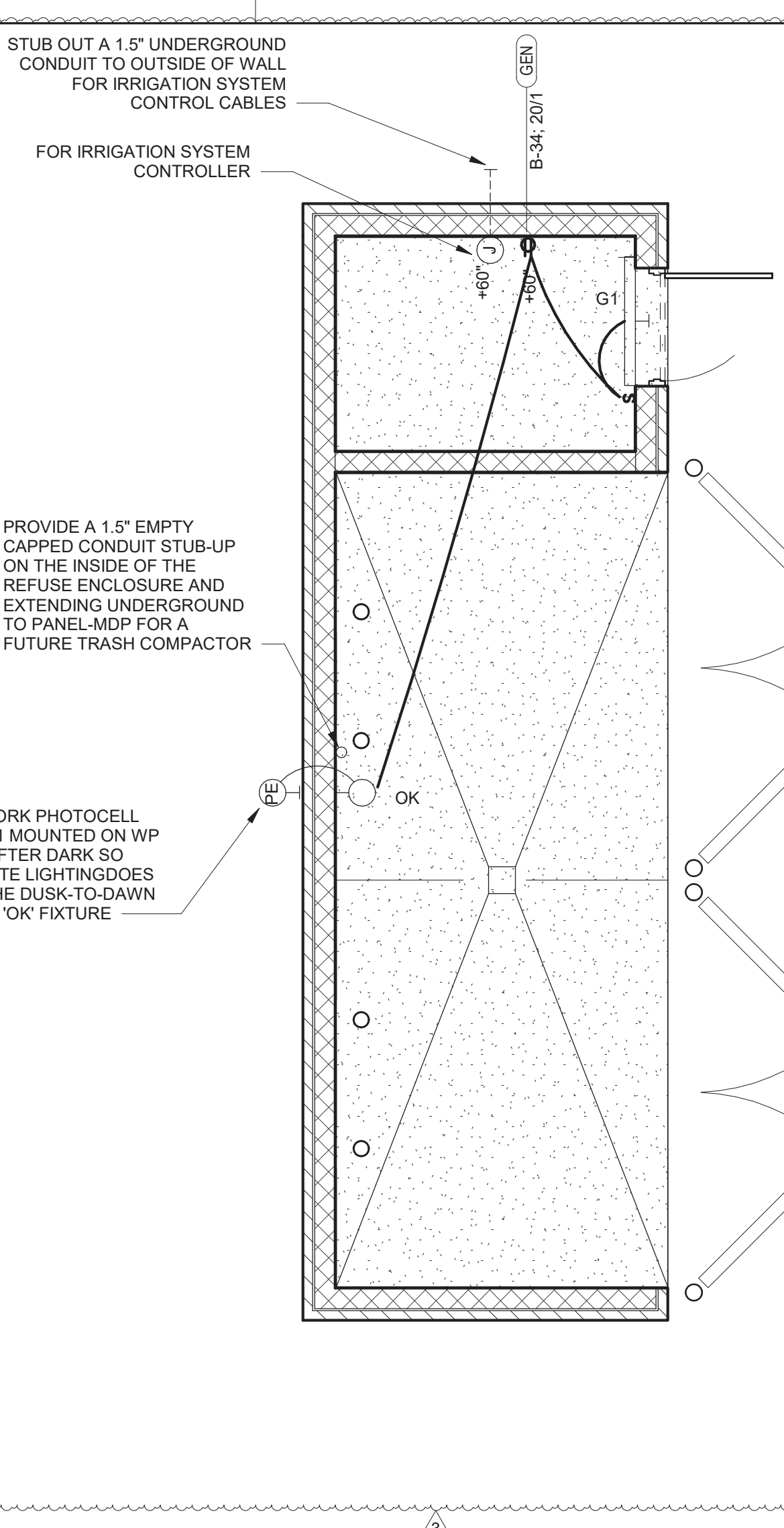
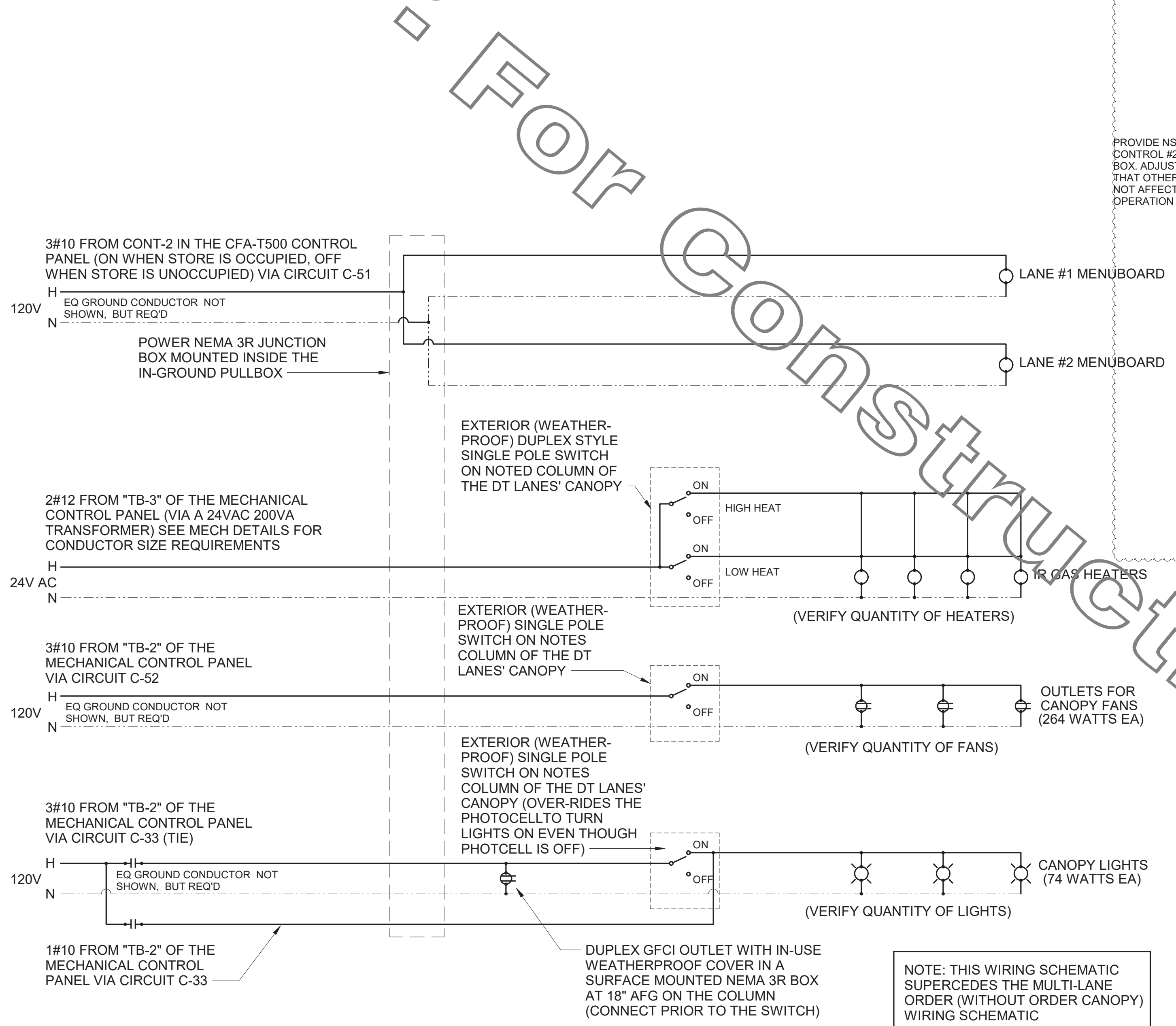
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SHEET DT ORDERING AREA  
DETAILS & REFUSE  
ENCLOSURE PLAN  
SHEET NUMBER

E-303

### D1 REFUSE ENCLOSURE ELECTRICAL PLAN

1/4" = 1'-0"

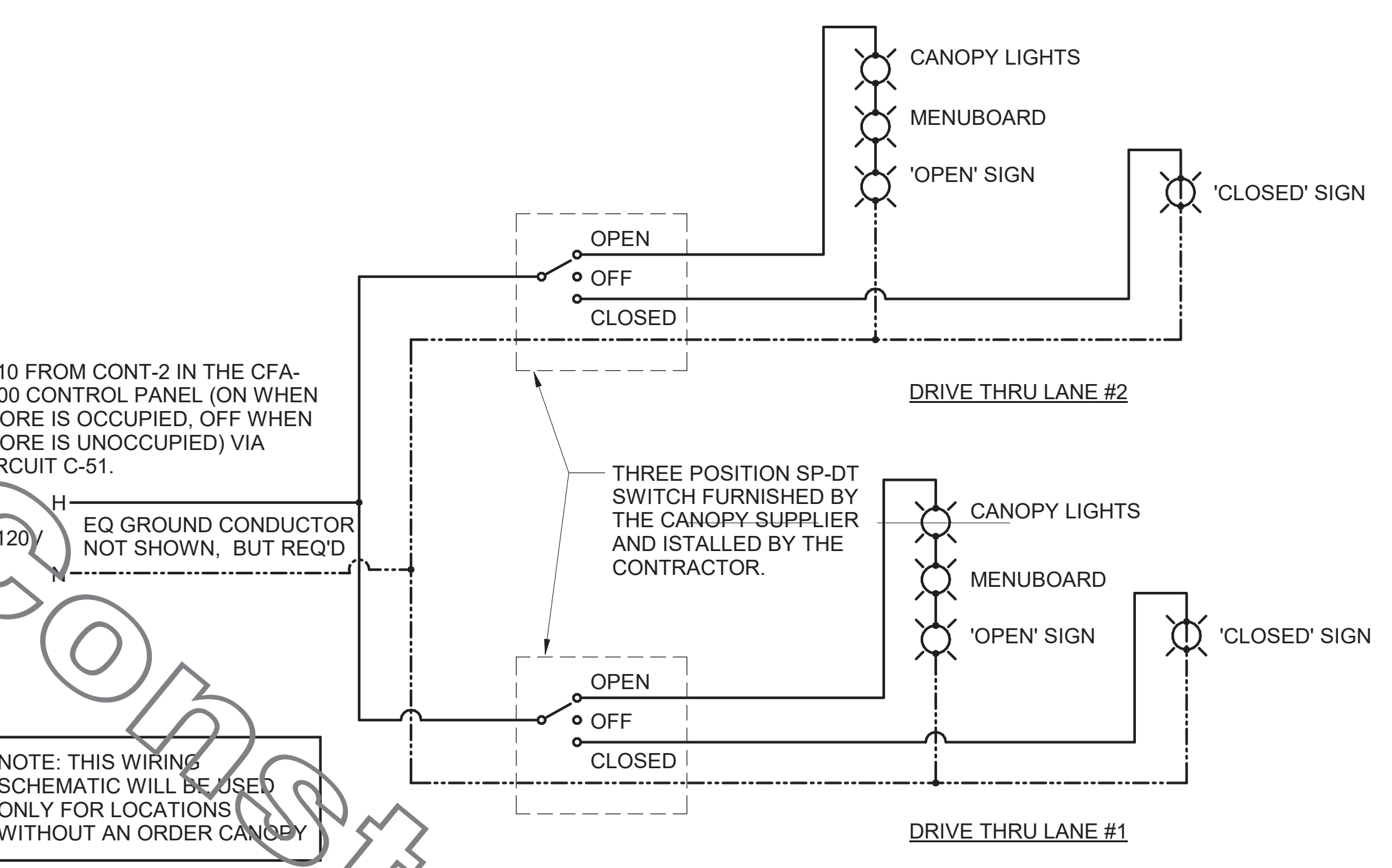
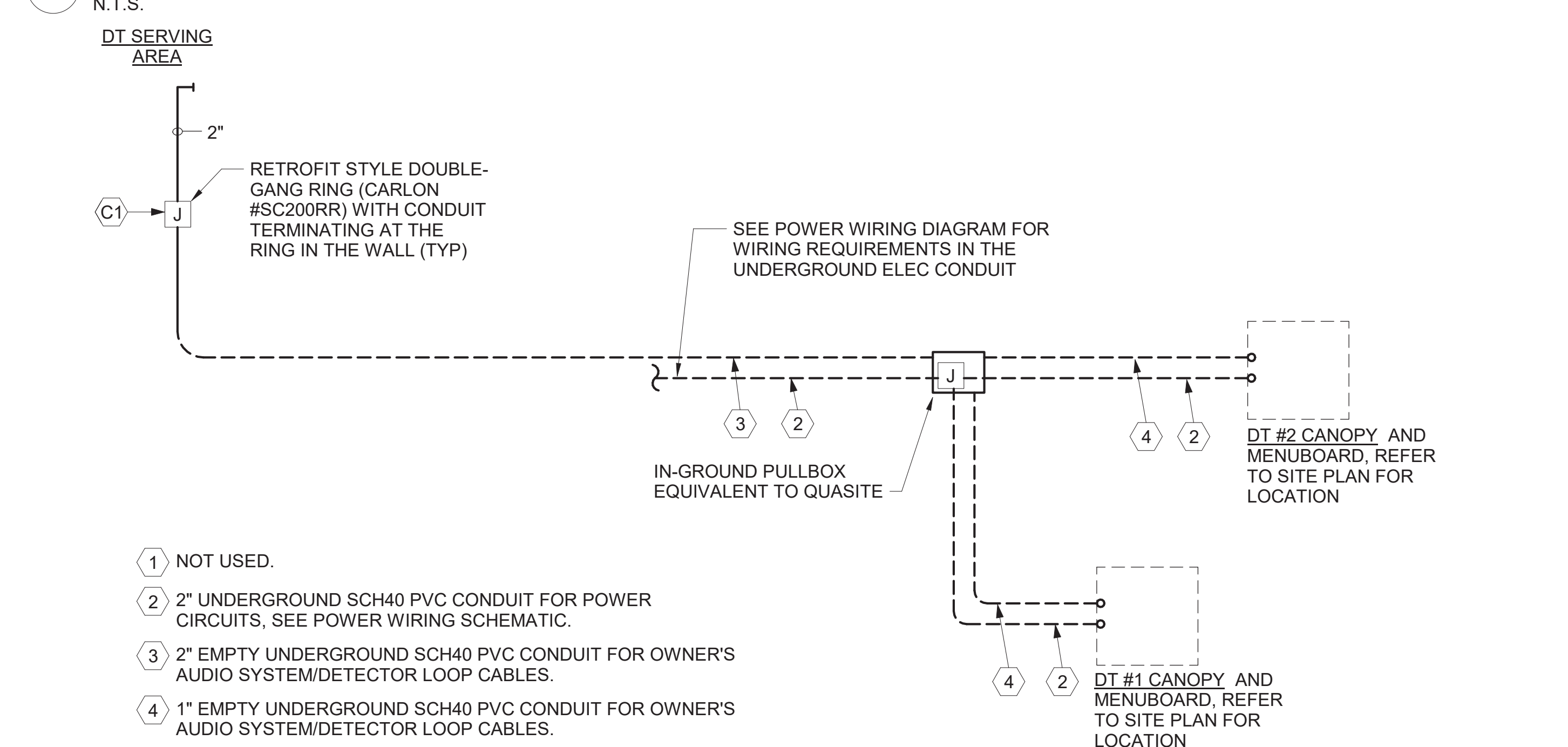


### MULTI-LANE DRIVE-THRU ORDER AREA CONDUIT REQUIREMENTS

- 1 NOT USED.
- 2 2" UNDERGROUND SCH40 PVC CONDUIT FOR POWER CIRCUITS, SEE POWER WIRING SCHEMATIC.
- 3 2" EMPTY UNDERGROUND SCH40 PVC CONDUIT FOR OWNER'S AUDIO SYSTEM/DETECTOR LOOP CABLES.
- 4 1" EMPTY UNDERGROUND SCH40 PVC CONDUIT FOR OWNER'S AUDIO SYSTEM/DETECTOR LOOP CABLES.

### B3 MULTI-LANE ORDER CANOPY POWER WIRING SCHEMATIC

N.T.S.

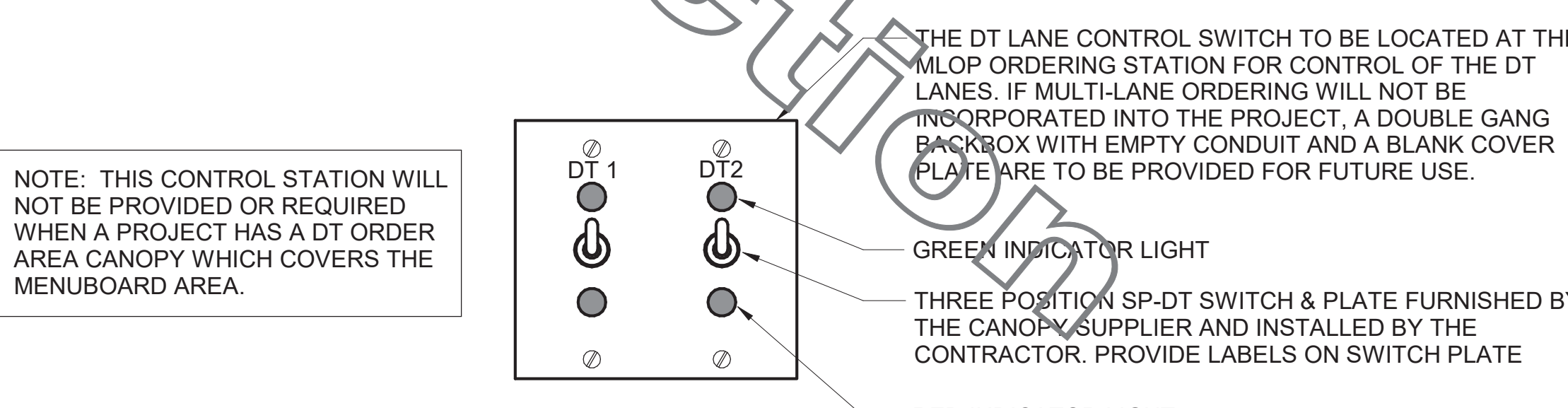
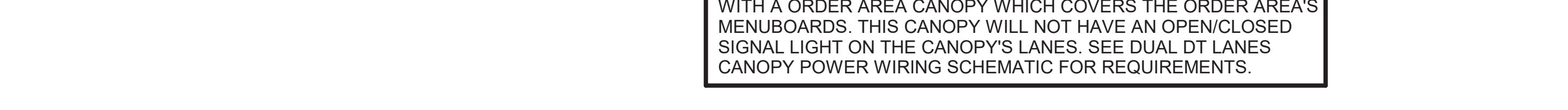


### MULTI-LANE DRIVE-THRU ORDER AREA POWER WIRING SCHEMATIC

- 1 NOT USED.
- 2 2" UNDERGROUND SCH40 PVC CONDUIT FOR POWER CIRCUITS, SEE POWER WIRING SCHEMATIC.
- 3 2" EMPTY UNDERGROUND SCH40 PVC CONDUIT FOR OWNER'S AUDIO SYSTEM/DETECTOR LOOP CABLES.
- 4 1" EMPTY UNDERGROUND SCH40 PVC CONDUIT FOR OWNER'S AUDIO SYSTEM/DETECTOR LOOP CABLES.

### A3 MLOP DT REQUIREMENTS - WITH ORDER AREA F2F CANOPY

NO SCALE



### A1 MLOP DT REQUIREMENTS - NO ORDER AREA F2F CANOPY

NO SCALE



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.

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12/12/2022 1:45:35 PM  
50-SE-00866-E-303-DT ORDERING AREA DETAILS & REFUSE ENCLOSURE PLAN

CONSTRUCTION - CHANGES OR ASSIGNMENTS ARE PROHIBITED.