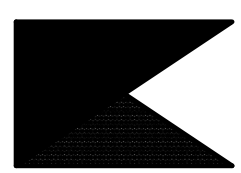






**Chick-fil-A**  
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8-8-22

**CHICK-FIL-A**  
South Hills FSU  
1620 Washington Road  
Pittsburgh, PA 15241-1210

**FSR#01765**

BUILDING TYPE / SIZE: S03C  
RELEASE: v12.20

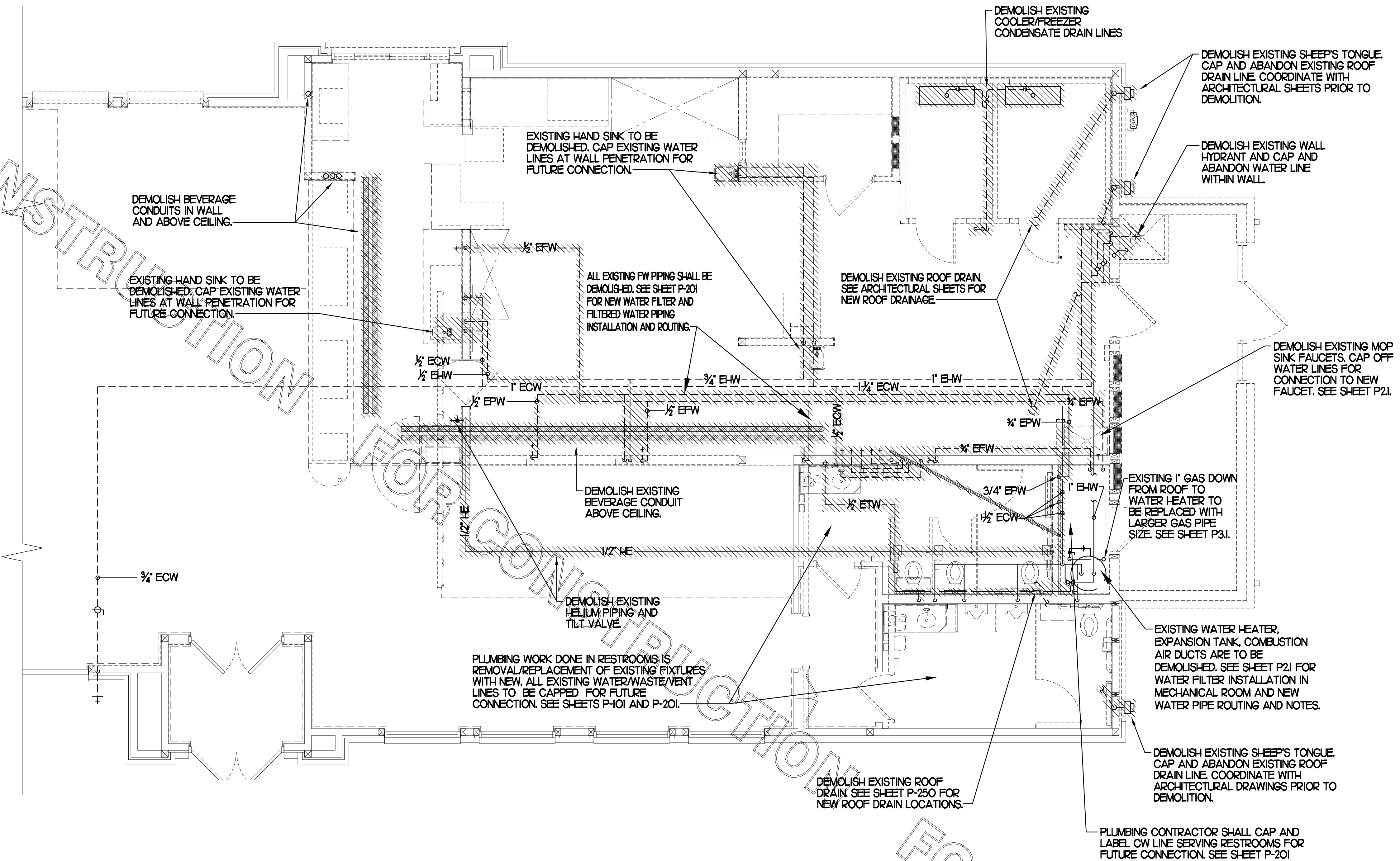
REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
1	02/04/22	Owner Revisions

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SHEET ABOVE SLAB PLB DEMO PLAN  
SHEET NUMBER

**PO.2**



**1 ABOVE SLAB PLUMBING DEMOLITION PLAN**  
SCALE: 1/4"=1'-0"

PIPING LEGEND	
EXISTING GREASE WASTE (EGW)	--- EGW ---
EXISTING SANITARY SEWER (ESS)	--- ESS ---
EXISTING PRE-FILTERED WATER UNDER GROUND (EPW)	--- EPW ---
EXISTING FILTERED WATER UNDER GROUND (EFW)	--- EFW ---
EXISTING FW TO COFFEE/TEA UNDER GROUND (EPW2)	--- EPW2 ---
EXISTING COLD WATER UNDER GROUND (ECW)	--- ECW ---
EXISTING TEMPERED WATER UNDER GROUND (ETW)	--- ETW ---
EXISTING HOT WATER UNDER GROUND (EHW)	--- EHW ---
EXISTING LINE/FIXTURE TO BE DEMOLISHED	//////
EXISTING WATER LINE(S) IN WALL TO BE DEMO	oo

- SITE PIPING DEMO NOTES**
- CAREFULLY EXAMINE & VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING ANY DEMOLITION WORK. FIELD VERIFY ALL SERVICE LINES LOCATIONS, DIAMETERS, ROUTING, INVERTS ETC.
  - REFER TO SITE PLAN FOR EXACT LOCATION OF EXISTING GREASE INTERCEPTOR AND ALL SITE PIPING.

- KEY NOTES**
- 1 CAP EXISTING WATER LINE(S) WITHIN WALL FOR FUTURE CONNECTION. SEE SHEET P-201 FOR NEW WATER LINE CONNECTION(S) TO MAIN.

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**PIPING LEGEND (This Sheet)**

EXISTING FLOOR DRAIN	FD
EXISTING FLOOR SINK	FS
EXISTING GREASE WASTE (EGW)	EGW
NEW GREASE WASTE (EGW)	GW
EXISTING SANITARY SEWER (ESS)	ESS
EXISTING COLD WATER UNDER GROUND (ECW)	ECW
EXISTING HOT WATER UNDER GROUND (EHW)	EHW
EXISTING TEMPERED WATER UNDER GROUND (ETW)	ETW
NEW WATER UNDER GROUND (CW, HW, TW OR FW/WW)	CW
POINT OF CONNECTION	
FLOOR DRAIN	
FLOOR SINK	
FLOOR/EXTERIOR CLEANOUT	

**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-35	MOP SINK DRAIN	7" BFF
P-36	INDIRECT WASTE RECEIVER	1/2" BFF
P-37	FLOOR DRAIN	1/2" BFF

NOTE: THE RIM ELEVATIONS SHOWN HERE SHOULD MATCH THE DEPRESSED SLAB. CONFIRM WITH ARCHITECTURAL PLANS. 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 DRAWINGS.

NOTE: PLUMBING CONTRACTOR SHALL CLEAN OUT (C/O) THE EXISTING SANITARY SEWER LINE TO MAIN BUILDING SEWER LINE TO CONNECTION AT THE STREET OR IN THE CENTER PARKING LOT AT CONNECTION TO MAIN LINE. AND ALSO VERIFY NEW SEWER LINE IS CLEAR. THIS LINE SHALL BE C/O OF ALL EXISTING DEBRIS AND SHALL BE GUARANTEED THAT A CLEAR FLOW SHALL EXIST WHEN THE TENANT TAKES POSSESSION.

**SITE PIPING NOTES**

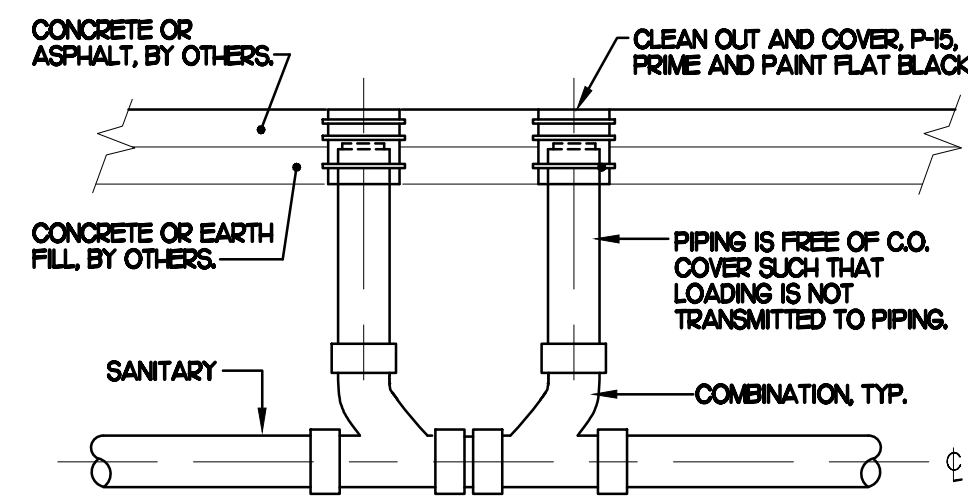
- CAREFULLY EXAMINE & VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
- REFER TO SITE PLAN FOR EXACT LOCATION OF EXISTING 2" OR NEW GREASE INTERCEPTOR AND ALL SITE PIPING.
- CLOSELY COORDINATE INSTALLATION W/ EARTH WORK.
- PROVIDE PVC SLEEVES ON ALL PIPING PENETRATING EXISTING OR NEW FOUNDATIONS.

**1 BELOW SLAB PLUMBING PLAN**

SCALE: 1/4"=1'-0"

**KEY NOTES**

- CONNECT NEW WASTE LINE TO EXISTING AS SHOWN. VERIFY FALL, FLOW DIRECTION AND CONNECTING INVERTS. PROVIDE VENT CONNECTION TO EXISTING SYSTEM WHERE APPLICABLE.
- ROUTE NEW VENT LINE UP IN WALL TO ABOVE CEILING. MAKE CONNECTION TO EXISTING VENT HEADER OF SAME SIZE OR LARGER. WHERE DRAIN IS LOCATED IN NEW ADDITION, ROUTE VENT LINE UP IN WALL AND ABOVE CEILING INTO EXISTING BUILDING AND MAKE NECESSARY CONNECTION.
- MAKE CONNECTION TO EXISTING WASTE/VENT LINE LOCATED WITHIN WALL WHERE SHOWN. SEE SHEET P22 FOR FIXTURE CONNECTION SIZES.
- NEW 3" DIAM. VENT PIPING UNDER GROUND AND RISER IN WALL. INSTALL WALL CLEANOUT W/ CLEANOUT PLUG CHARLOTTE PIPE NO. 445-X ON RISER AT 3'-0" ABOVE FINISH FLOOR. INSTALL J.R. SMITH 4760-12X1/2" ACCESS DOOR.
- PROVIDE AND INSTALL NEW GREASE INTERCEPTOR. REFER TO DETAIL FOR REQUIREMENTS. REFER TO SITE PLAN FOR LOCATION AND ALL CONNECTIONS. VERIFY IN FIELD W/ SITE & NEW CONSTRUCTION WORK. SEE POI FOR DEMOLITION REQUIREMENTS.
- PROVIDE AND INSTALL NEW WASTE PIPING BELOW KITCHEN SINK. PROVIDE 2" SHED 40 PVC INDIRECT WASTE MANIFOLD (1-1/2" DRAIN FROM EACH SINK BASIN) TO FLOOR SINK. NO P-TRAPS REQUIRED. PROVIDE CLEANOUT AT EACH END.
- INSTALL FLOOR DRAIN P-35 AT MOP SINK DEPRESSION WITH TOP OF STRAINER 0'-7" BFF.
- PLUMBING CONTRACTOR SHALL COORDINATE LOCATION OF EXISTING WATER LINE SERVING REFUSE PAD PRIOR TO CONSTRUCTION. IF NECESSARY DUE TO CONFLICTS, PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A NEW 3/4" CW LINE BELOW GRADE/SLAB TO EXISTING HYDRANT LOCATED AT REFUSE PAD.
- OWNER PROVIDED, PLUMBER INSTALLED STOP/BFF PANEL. SEE K-SHEET ELEVATIONS FOR EXACT LOCATION. ROUTE 1" DIA SCHED 40 PVC BFF DRAIN TIGHT TO WALL TO TERMINATE INTO MOP SINK. TERMINATE DRAIN LINE 12" ABOVE GRATE WITH 90 DEG ELBOW.
- ROUTE DRAIN LINE FULL SIZE TO FLOOR SINK LOCATED BELOW POT SINK AND TERMINATE WITH CODE APPROVED AIR GAP.
- PROVIDE WITH TRAP SEAL PROTECTOR, P-26A.
- OFFSET VENT FROM BELOW SO AS TO AVOID NEW PIN/SLEEVE BOX. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.

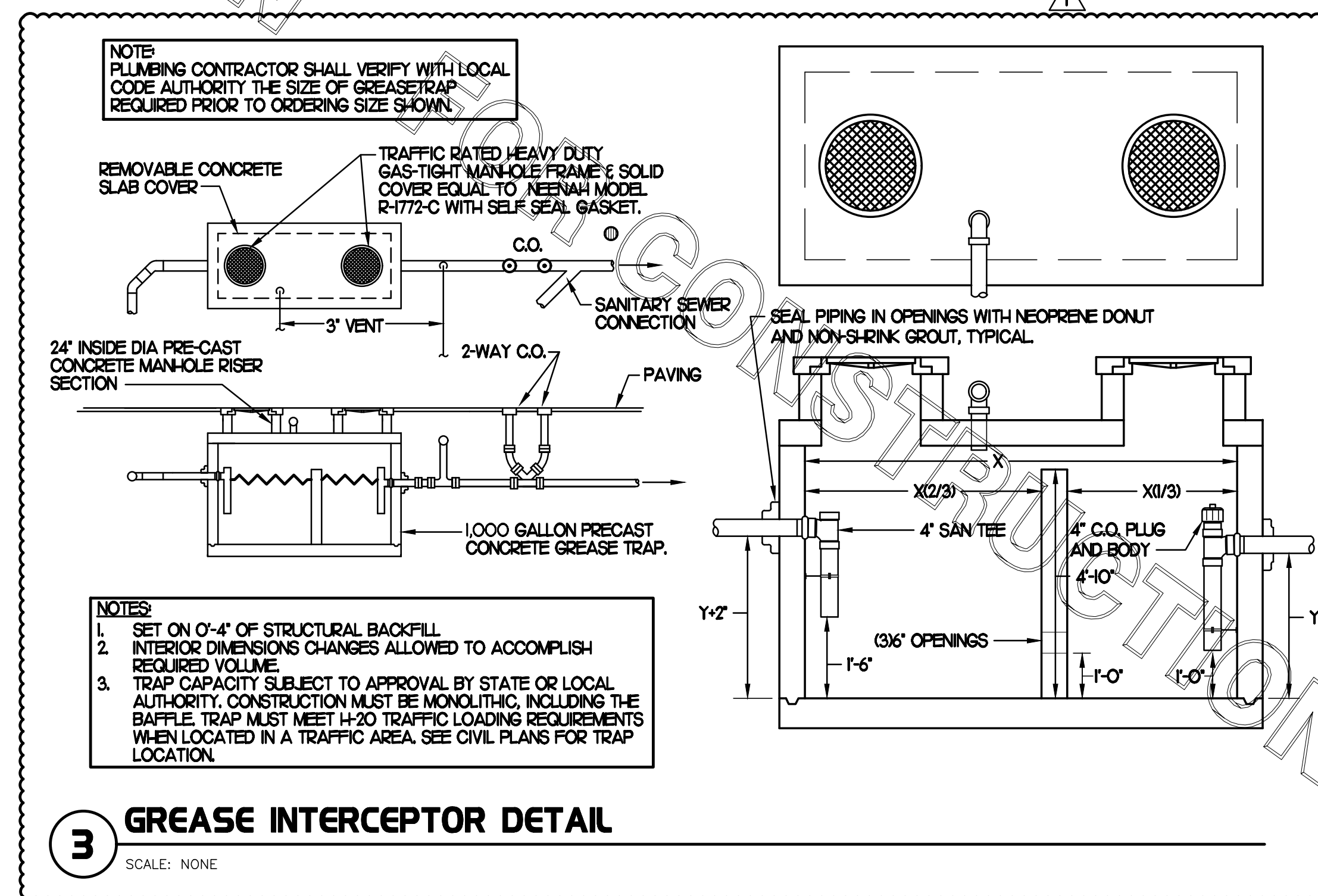


**2 SAN. C.O. OUTSIDE BUILDING**

SCALE: NONE

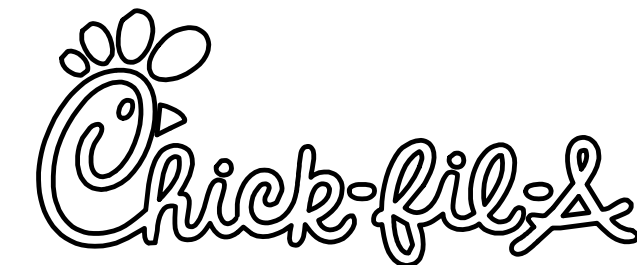
**SHEET NOTES**

- COORDINATE INSTALLATION OF SANITARY PIPING WITH FOOTINGS IN THE FIELD. SLEEVE ALL NEW AND EXISTING PIPING PENETRATIONS IN FOOTINGS WITH PVC. WHERE REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION, PROVIDE SAFE-WASTE SYSTEM AS OUTLINED IN STATE AND LOCAL CODE AMENDMENTS. ALL WATER PIPING INSTALLED WITHIN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF THE INSULATION.
- ALL VENT PIPING TO BE 1/2" DIAMETER UNO. PLUMBING CONTRACTOR SHALL VERIFY LOCATION, INVERT ELEVATION AND FLOW DIRECTION OF EXISTING LINE PRIOR TO ANY WORK. COORDINATE WITH ALL OTHER UTILITIES LOCATED BELOW GROUND PRIOR TO ANY EARTHWORK.
- PLUMBING CONTRACTOR SHALL ROUTE ALL NEW VENT LINES SHOWN AND NOTED UP IN WALL AND TO ABOVE CEILING AND MAKE CONNECTION TO NEAREST VENT HEADER THE SAME SIZE OR LARGER.
- PLUMBING CONTRACTOR SHALL VERIFY LOCATION, INVERT ELEVATION AND FLOW DIRECTION OF EXISTING LINE PRIOR TO ANY WORK. COORDINATE WITH ALL OTHER UTILITIES LOCATED BELOW GROUND PRIOR TO ANY EARTHWORK.



**3 GREASE INTERCEPTOR DETAIL**

SCALE: NONE



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**CHICK-FIL-A**  
South Hills FSU  
1620 Washington Road  
Pittsburgh, PA 15241-1210

**FSR#01765**

BUILDING TYPE / SIZE: S03C  
RELEASE: v12.20

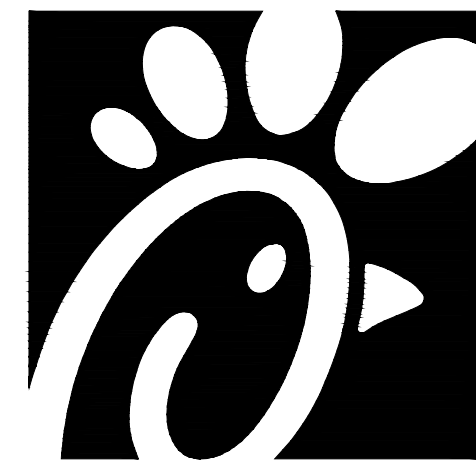
NO.	DATE	DESCRIPTION
1	02/04/22	Owner Revisions
3	06/09/22	CD Coordination

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SHEET  
BELOW SLAB PLUMBING PLAN  
SHEET NUMBER

PLI



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8-8-22

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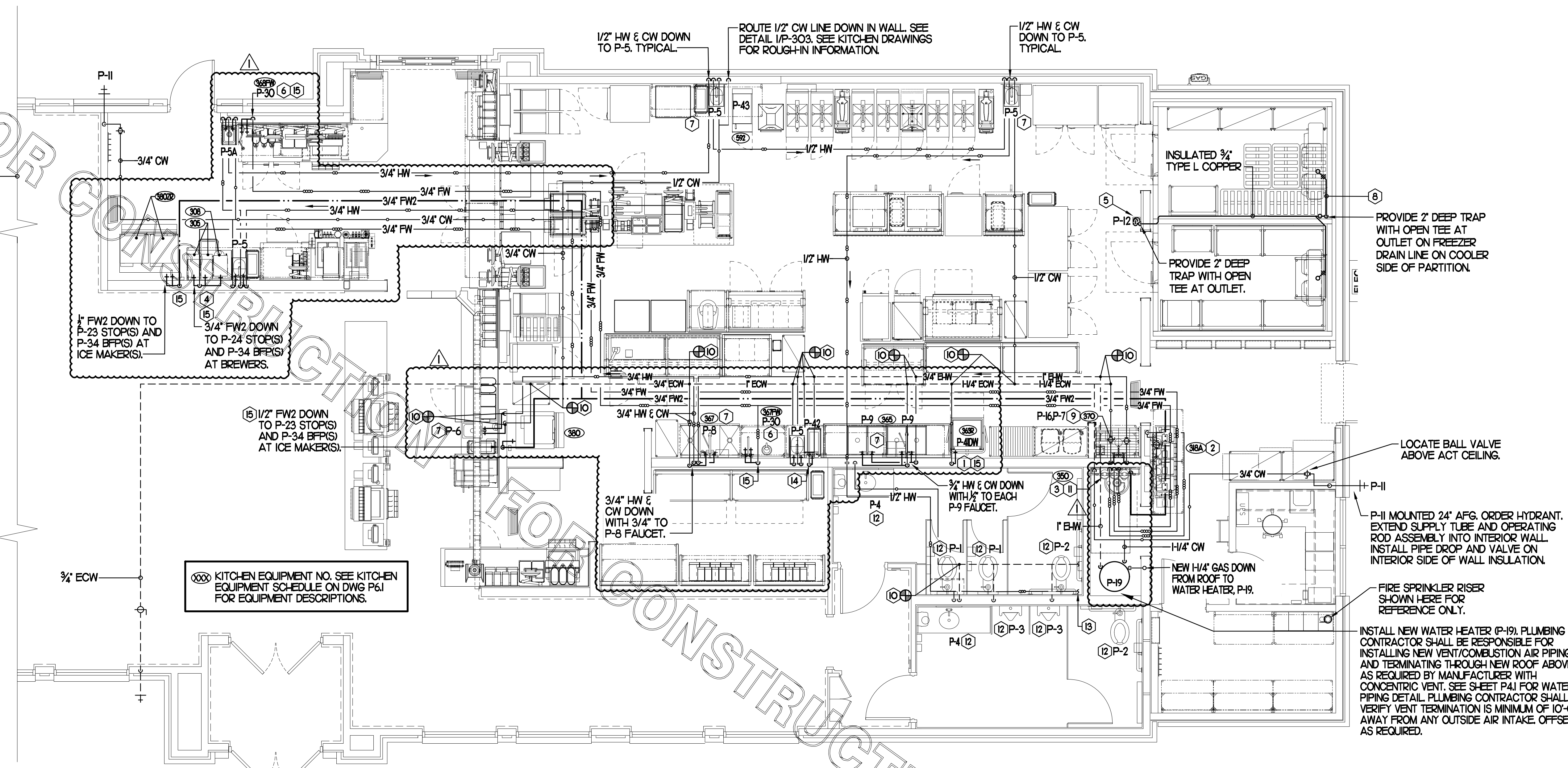
NO.	DATE	DESCRIPTION
1	02/04/22	Owner Revisions

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ABOVE SLAB  
PLUMBING PLAN  
SHEET NUMBER

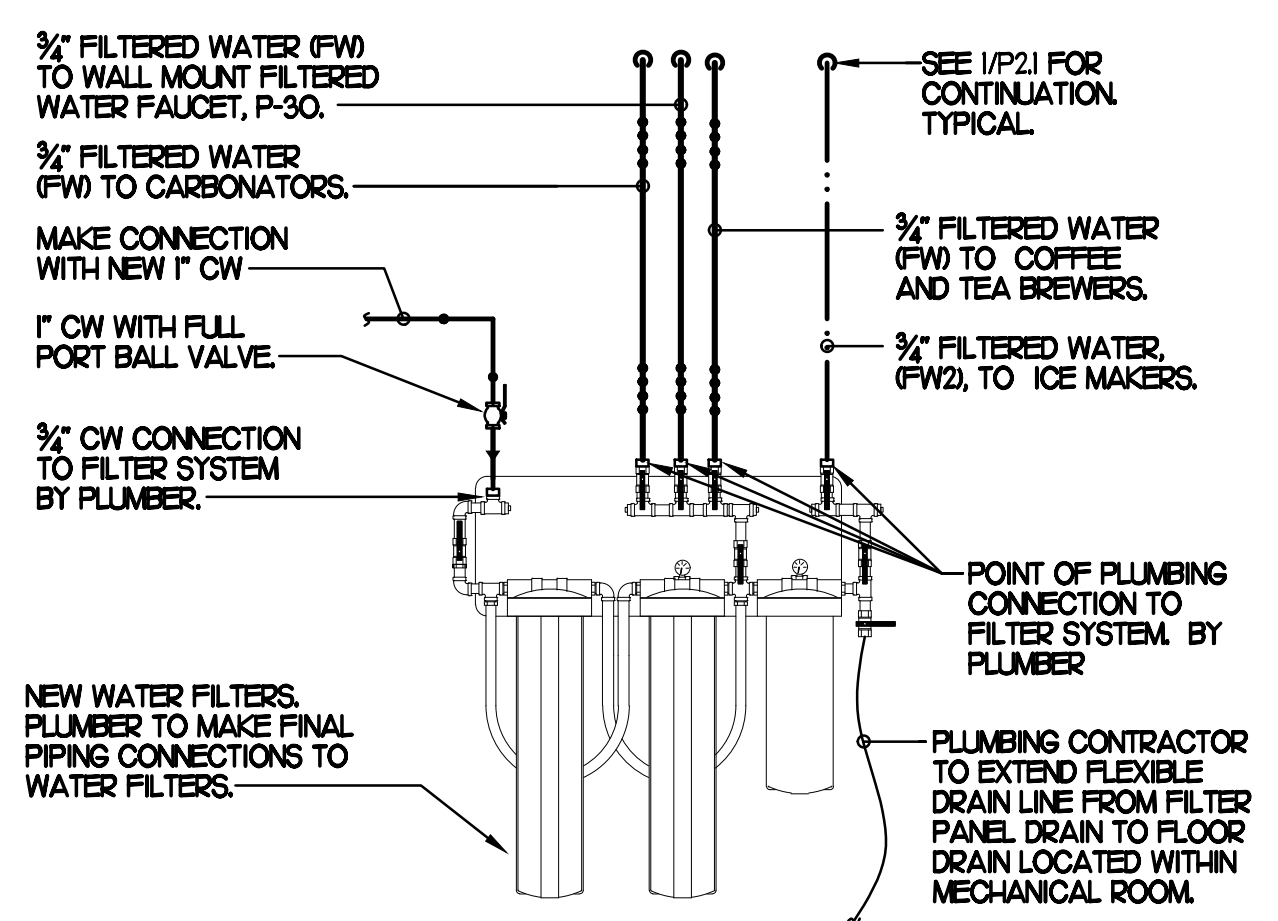
**P2.I**



NO INTERIOR OR ABOVE SLAB PLUMBING FORWARD OF THIS BREAK LINE. SEE A-11 FOR FLOOR PLAN IN THIS AREA.

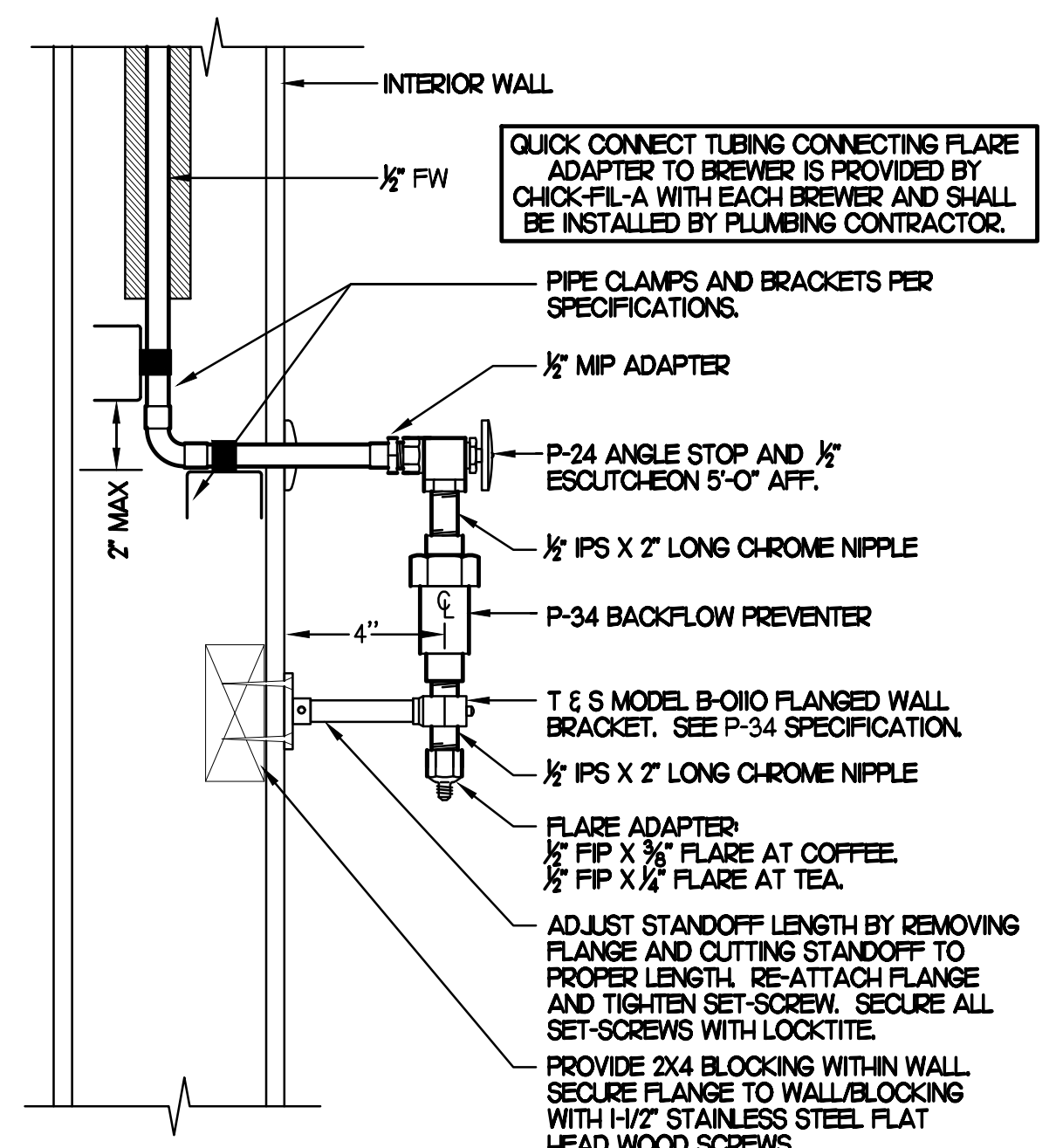
**1 ABOVE SLAB PLUMBING PLAN**

1/4" = 1'-0"



**9 WATER FILTER RISER PIPING**

SCALE: NONE



**6 COFFEE & TEA BREWER STOP & BFP**

NO SCALE

**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 M1 FOR DUCT LAYOUT, COORDINATE CONFLICTS WITH GC.
- SEE K-SHEET ELEVATIONS FOR KITCHEN EQUIPMENT WATER PIPING ROUGH-IN LOCATIONS.
- VERIFY WALL TYPE AND WALL THICKNESS AT EXTERIOR HOSE BIBBS PRIOR TO ORDERING EQUIPMENT.
- 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.
- UNLESS NOTED OTHERWISE, WATER PIPING SHALL BE COPPER OR CPVC AS LISTED IN SPECIFICATIONS. SEE SPECIFICATIONS.

**KEY NOTES**

- 3/2" CW DOWN TO DISHWASHER. SEE K-SHEETS FOR ELEVATION AND ROUGH-IN HEIGHT. SEE SHEET P41 FOR WATER PIPE INSTALLATION.
- OWNER PROVIDED, PLUMBER INSTALLED STOP/BFP PANEL. SEE K-SHEET ELEVATIONS FOR EXACT LOCATION. PROVIDE EXPOSED 3/2" BALL VALVE (P-28) AT CONNECTION TO PANEL. ROUTE 1" PVC FROM FACTORY PANEL DRAIN CONNECTION TO P-12 FUNNEL DRAIN LOCATED BELOW BEVERAGE RACK.
- FW & FW2 LINES FROM WATER FILTRATION SYSTEM, REFER TO DETAIL ON P22:
  - 3/4" FW TO CARBONATOR
  - 3/4" FW TO JUICE STATION
  - 3/4" FW TO COFFEE & TEA MAKERS
  - 3/4" FW2 TO ICE MACHINES
- 1/2" FW TO P-24 & P-34 AT TWO (2) TEA BREWERS AND ONE COFFEE MAKER. SEE DETAIL THIS SHEET.
- TURN 3/4" CONDENSATE PIPING OUT OF COOLER/FREEZER AND EXTEND OUTLET TO SUPCO 30-05 CAST CONDENSATE REMOVER. REMOVER SHALL BE 32 OZ CAPACITY, 120 VAC, 160 WATTS, 1.93 AMPS, DISSIPATION RATE = 8 OZ/HR. CONTRACTOR SHALL SECURE CONDENSATE PIPING TO COOLER 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.
- 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.
- PROVIDE 1/2" HW & CW CONNECTIONS TO FIXTURE.
- APPLY RAYCHEM XL-TRACE, MODEL 5XL2, SELF-REGULATING HEATING CABLE. USE END SEAL KIT FROM MANUFACTURER. CONTRACTOR SHALL HEAT TRACE ENTIRE LENGTH OF CONDENSATE PIPING UNTIL TERMINATION POINT.
- INSTALL P-16 3-WAY VALVE WITH BACKFLOW PREVENTER ON P-7 FAUCET SPOUT FOR CONNECTION TO ECO-LAB DETERGENT DISPENSER. SEE DETAIL THIS SHEET. PROVIDE BALL VALVE FOR EACH WATER LINE ABOVE CEILING WITH P-22 BALL CHECK VALVE IN EACH DROP.
- MAKE CONNECTION TO EXISTING WATER LINE ABOVE CEILING/ABOVE WALL.
- NEW WATER FILTERS. SEE DETAIL 9/P21.
- INSTALL NEW FIXTURE IN RESTROOM, RECONNECT TO EXISTING CW & OR TW. VENT & SANITARY SEWER SERVICES, RECONNECT TRAP PRIMER CW LINE WHERE APPLICABLE.
- 1/2" HOT WATER RETURN LINE, MAKE CONNECTION TO CW INLET SIDE OF WATER HEATER. SEE DETAIL THIS SHEET.
- ROUTE 1/2" HW & CW TO P-42 EMERGENCY EYEWASH MIXING VALVE. ROUTE 1/2" TW FROM P-42 VALVE TO EMERGENCY EYEWASH STATION.
- INSTALL SHOCK ABSORBER (P-25) AT TOP OF WATER LINE DROP DOWN TO FIXTURE.

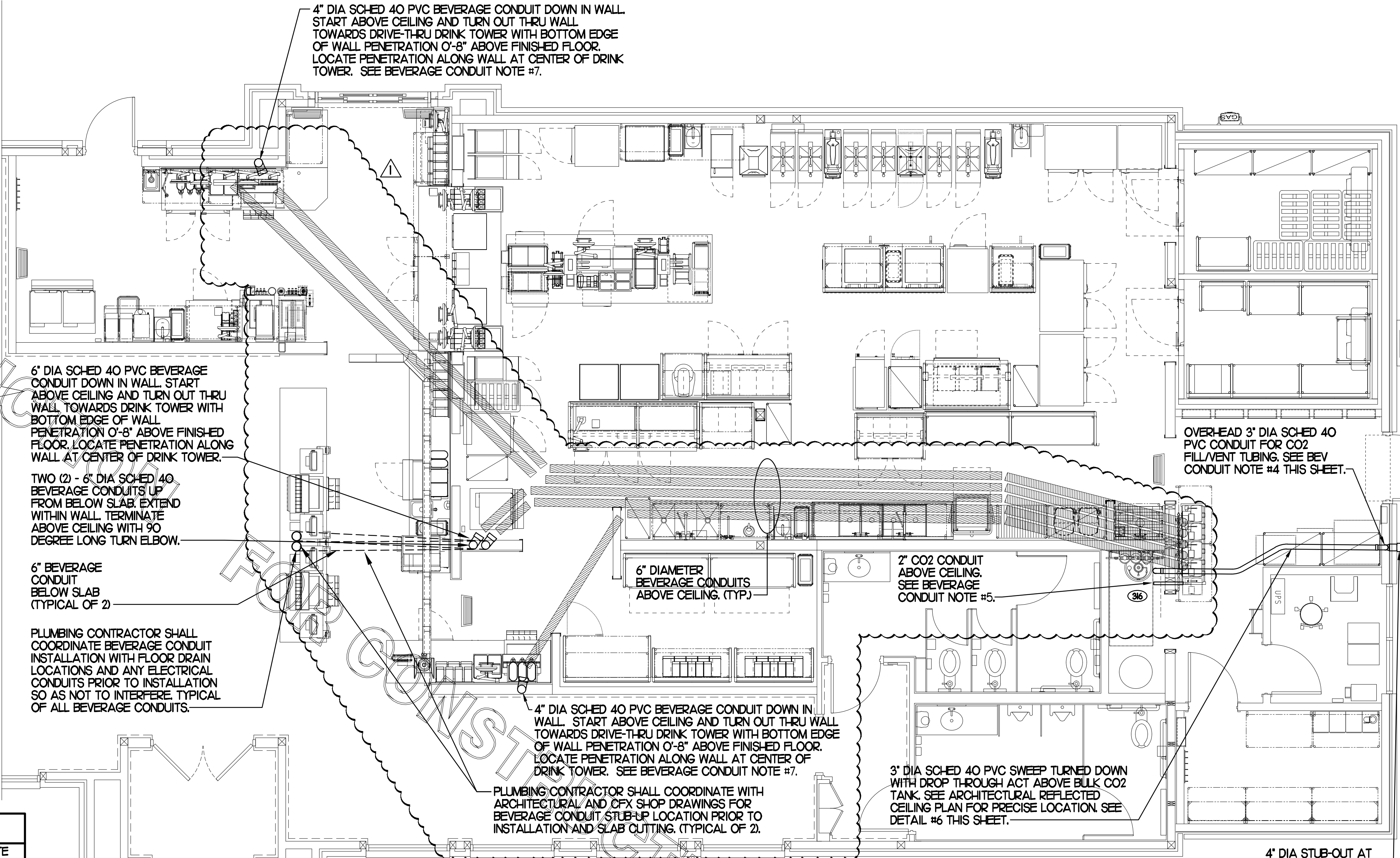
**PIPING LEGEND**

EXISTING COLD WATER (ECW)	---	ECW
EXISTING HOT WATER (EHW)	---	EHW
EXISTING FILTERED WATER (EFW)	---	EFW
EXISTING PREFILTERED WATER (EPW)	---	EPW
POINT OF CONNECTION	⊕	
NEW COLD WATER	—	CW
NEW HOT WATER	—	HW
NEW TEMPERED WATER	—	TW
NEW FILTERED WATER	—	FW
NEW FW2 TO COFFEE/TEA BREWERS	—	FW2
BEVERAGE CONDUIT	---	

PRIOR TO DEMOLITION OF ANY EXISTING CONDUITS, PLUMBING CONTRACTOR SHALL COORDINATE WITH BEVERAGE PROVIDER IF EXISTING CONDUITS ARE ADEQUATE. ALL EXISTING CONDITIONS SHALL BE VERIFIED PRIOR TO BID.

### BEVERAGE CONDUIT NOTES

- REUSE EXISTING BEVERAGE CONDUITS OR THEIR PORTIONS WHERE INDICATED ON DRAWINGS. ROUTE BEVERAGE SYSTEM PIPING OVER-HEAD FROM THE BEVERAGE RACK TO DRINK TOWERS IN 6" SCH 40 PVC CONDUITS. ALL CONDUITS SHALL BE HELD TIGHT TO STRUCTURE AND SUPPORTED WITH THREADED ROD AND CLEVIS HANGERS AT INTERVALS SHOWN IN SPECIFICATIONS FOR HORIZONTAL OVER-HEAD PIPING. COORDINATE ROUTING WITH THE GENERAL CONTRACTOR TO AVOID MECHANICAL AND ELECTRICAL SYSTEMS.
- COORDINATE ROUTING OF ALL CONDUITS WITH HVAC DUCT IN KITCHEN. SEE SHEET M-11 FOR LOCATION OF AC UNITS AND DUCT ROUTING.
- TURN CONDUITS DOWN THROUGH THE CEILING AT THE BEVERAGE RACK AND PROVIDE CHROMED ESCUTCHEONS AT CEILING PENETRATIONS. TERMINATE OPPOSITE END ABOVE CEILING OVER SERVING AREA OR TURN DOWN TO WALLS, AS PER PLANS.
- 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 #6 THIS SHEET.
- ROUTE 2" DIA BULK CO2 CONDUIT ABOVE CEILING. PROVIDE CHROME ESCUTCHEON AT WALL WITH 45 DEGREE ELBOW TIGHT TO ESCUTCHEON AND DIRECTED DOWNWARD. TERMINATE INTERIOR END OF CONDUIT 1'-0" ABOVE KITCHEN CEILING WITH 90 DEGREE ELBOW DIRECTED TOWARD CARBONATORS. EXTEND 2" DIA CONDUIT FROM WITHIN 1'-0" OF ELBOW TOWARD CARBONATORS. TERMINATE OPPOSITE END ABOVE CEILING ABOVE CARBONATORS.
- AT CONDUIT DROP IN DRIVE-THRU, PROVIDE 1/8TH BEND FITTING WITH SHORT PIPE STUB AT BASE OF DROP. CUT STUB AND FITTINGS FLUSH WITH FINISHED WALL.
- FOR BEVERAGE CONDUIT DROPS AT WALL WITH SHEATHING ABOVE THE CEILING, PROVIDE APPROPRIATE FITTING AT UPPER END OF CONDUIT DROP TO EXTEND CONDUIT THROUGH SHEATHING.



### FIXTURE CONNECTION SCHEDULE

MARK	FIXTURE	FW	FW2	CW	HW	WASTE
P-1	WATER CLOSET - FLOOR MOUNT (1.6 GPF)	X	X	1"	X	4"
P-2	WATER CLOSET - ADA FLOOR MOUNT (1.6 GPF)	X	X	1"	X	4"
P-3	URINAL - ADA WALL HUNG (1.0 GPF)	X	X	3/4"	X	2"
P-4	LAVATORY - ADA COUNTER TOP (0.50 GPM)	X	X	1/2"	1/2"	1-1/4"
P-5	KITCHEN HAND SINK - WALL HUNG (1.0 GPM)	X	X	1/2"	1/2"	1-1/2"
P-5A	KITCHEN DUMP SINK - IN-COUNTER (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 (3") 1/2" TOP	X	X	X	X	3"
P-13B	FLOOR SINK (3") 8" TOP	X	X	X	X	3"
P-14	CLEANOUT INSIDE BUILDING	X	X	X	X	SEE PLAN
P-16	3-WAY VALVE/ VACUUM BREAKER	X	X	3/4"	3/4"	X
P-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-29A	ICE MACHINE TRENCH DRAIN (8"x14.5")	X	X	X	X	4"
P-29B	ICE MACHINE TRENCH DRAIN (36"x14.5")	X	X	X	X	4"
P-30	FILTERED WATER FAUCET	(2) 1/2"	X	X	X	X
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	1/2"	X	3"
P-38	HOT WATER CIRCULATING PUMP	X	X	X	1/2"	X
P-41DW	DISHWASHER SUPPLY FAUCET	X	X	3/4"	X	X
P-42	EMERGENCY THERMOSTATIC MIXING VALVE (EMERGENCY EYE WASH)	X	X	1/2"	1/2"	X
P-43	RE-THERMALIZER SUPPLY VALVE	X	X	1/2"	X	X

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

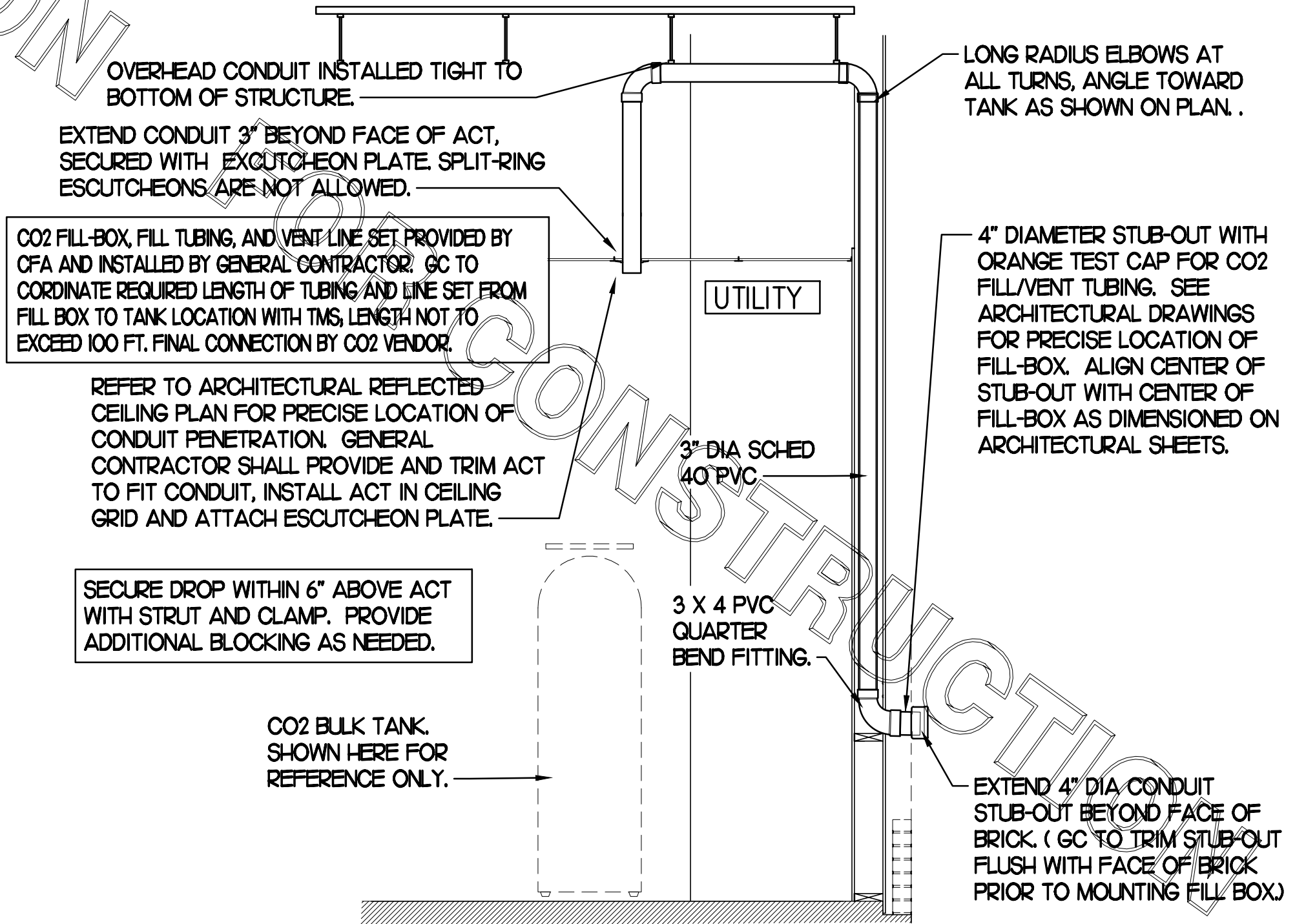
### BEVERAGE CONDUIT PIPING PLAN

1/4" = 1'-0"

### KITCHEN EQUIPMENT SCHEDULE

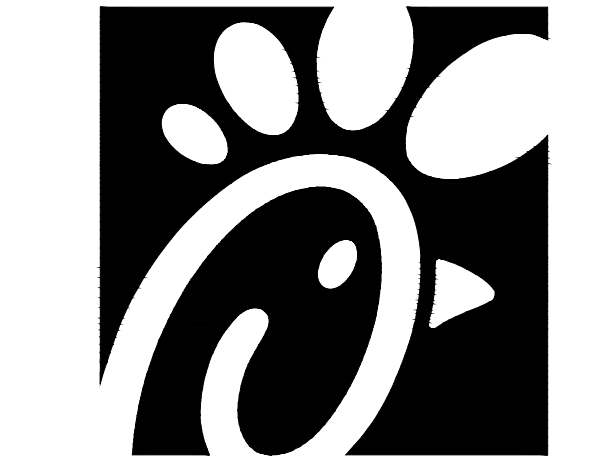
TAG	DESCRIPTION	FW	FW2	CW	HW	WASTE	ROUGH-IN
(305)	TEA BREWER	1/2"	X	X	X	X	P-24
(306)	COFFEE MAKER	1/2"	X	X	X	X	P-24
(30A)	CARBONATOR BFP PANEL	3/4"	X	X	X	X	SEE K-41
(350)	WATER FILTER PANEL	(3) 3/4"	3/4"	3/4"	X	X	SEE DET 9/P21
(308)	DISHWASHER	X	X	3/4"	X	INDIRECT	SEE K-41
(36)	POT SINK	X	X	(2) 1/2"	(2) 1/2"	INDIRECT	TWO #365F FAUCETS, P-9
(367)	VEGETABLE PREP SINK	X	X	1/2"	1/2"	INDIRECT	ONE #367F FAUCET, P-8
(367A)	KITCHEN WALL FAUCET	(2) 1/2"	X	X	X	X	P-30 48" AFF.
(370)	MOP SINK	X	X	1/2"	1/2"	3" P-35	SEE DET 2/P21
(38)	ICE BIN	X	X	X	X	INDIRECT	P-26 DRAIN
(380)	ICE MAKER	X	1/2"	X	X	INDIRECT	P-23, SEE DET3/P41
(38A)	ICE BIN	X	X	X	X	INDIRECT	P-26 DRAIN
(380B)	ICE MAKER	X	(2) 1/2"	X	X	INDIRECT	P-23, SEE DET3/P41
(392)	RE-THERMALIZER	X	X	1/2"	X	INDIRECT	SEE KITCHEN DWGS

NOTES: ① REVIEW PLANS AND KITCHEN EQUIPMENT DRAWINGS IN ORDER TO DETERMINE WHICH EQUIPMENT IS NEW, EXISTING TO BE RELOCATED OR EXISTING TO REMAIN IN PLACE.



### CO2 FILL/VENT CONDUIT AND FILL-BOX INSTALLATION

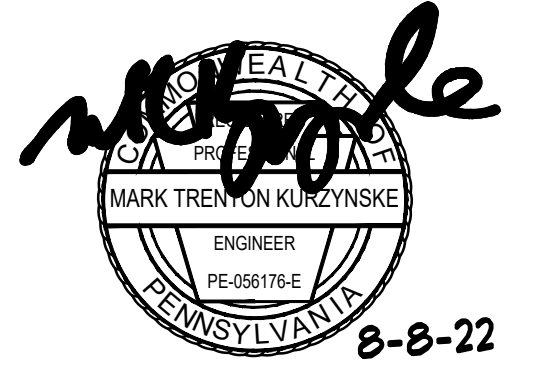
SCALE: NONE



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**FSR#01765**  
BUILDING TYPE / SIZE: S03C  
RELEASE: v12.20

REVISION SCHEDULE

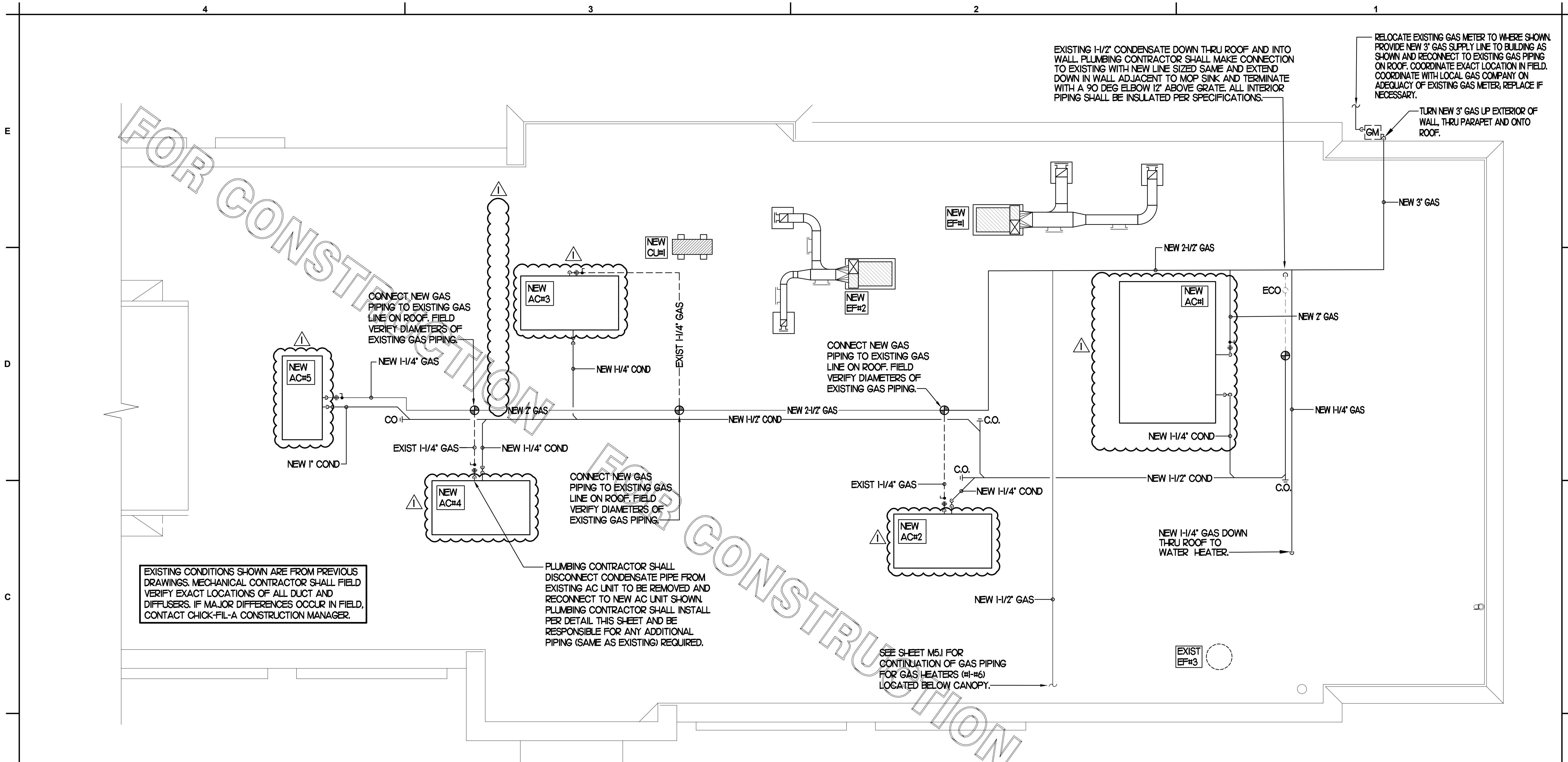
NO.	DATE	DESCRIPTION
1	02/04/22	Owner Revisions

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BEVERAGE CONDUIT PLAN  
SHEET NUMBER

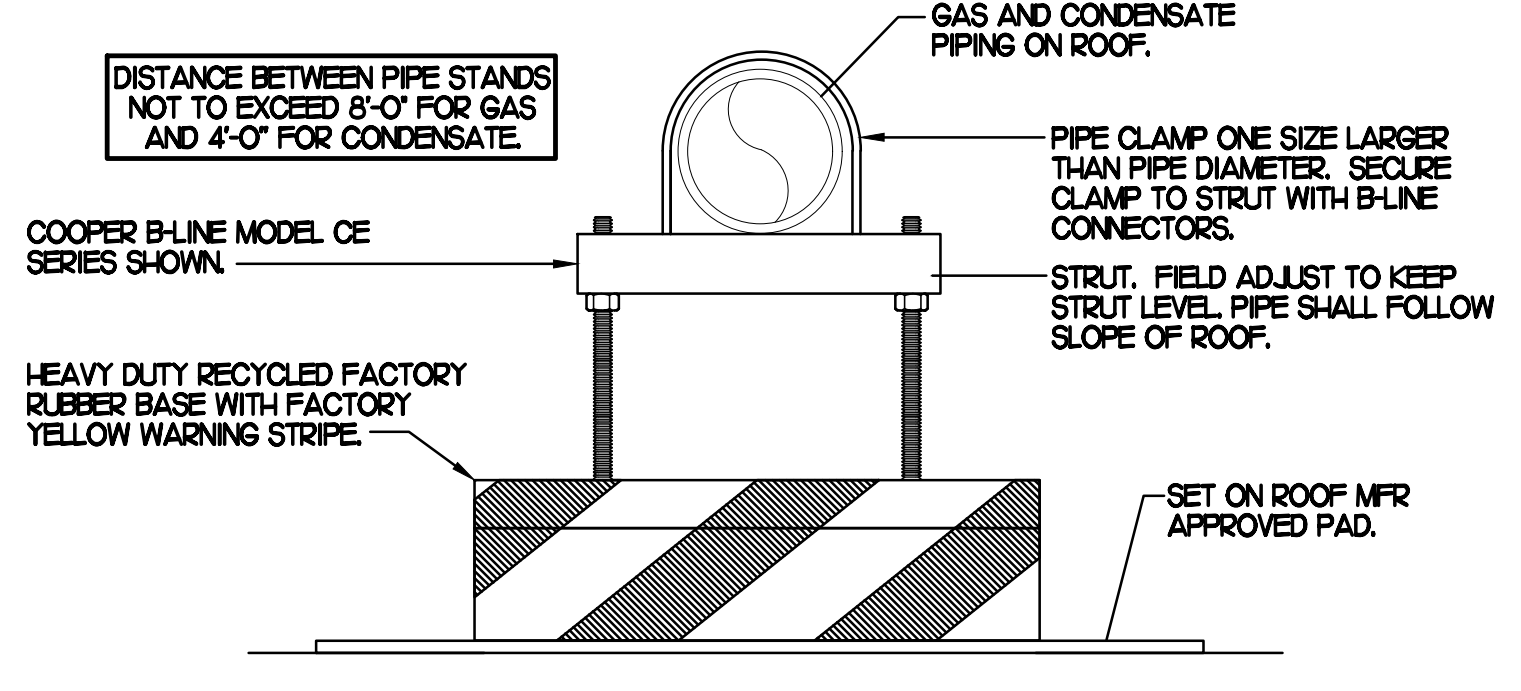
P2.2



**1 PLUMBING ROOF PLAN**

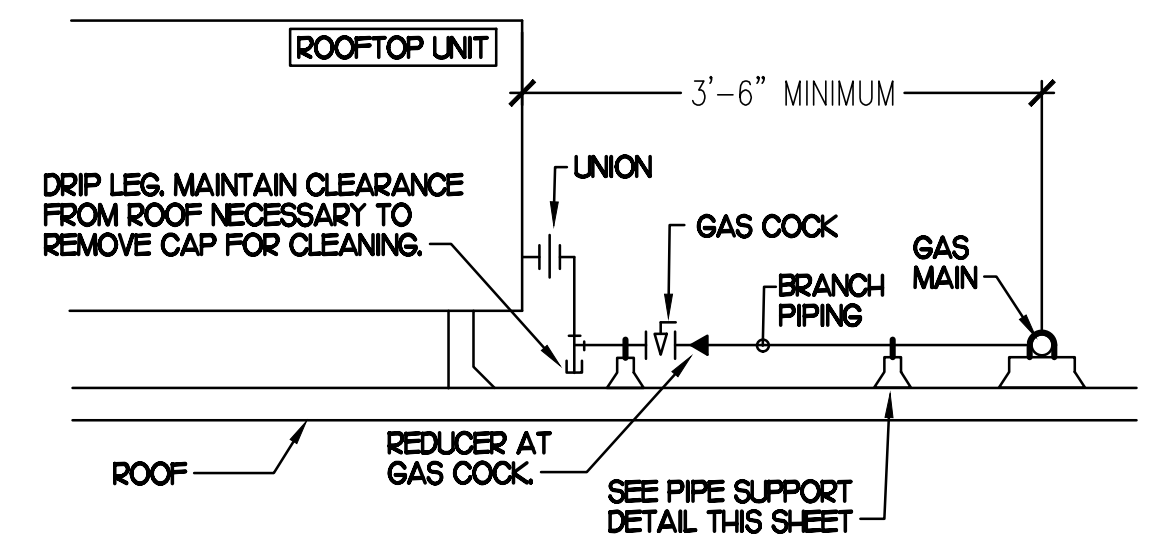
SCALE: 1/4"=1'-0"

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



**4 PIPING SUPPORT**

NO SCALE



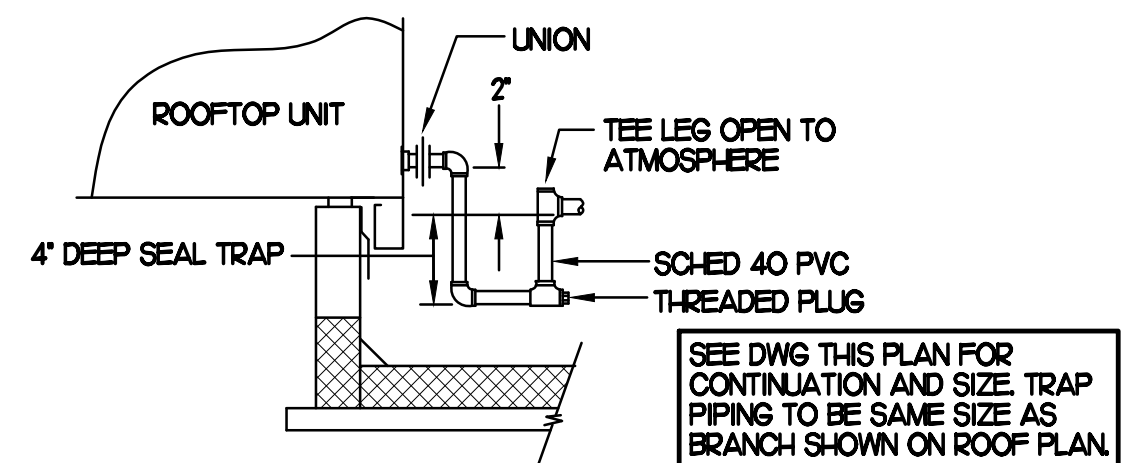
**3 GAS PIPING AT RTU**

NO SCALE

**SHEET NOTES**

- NEW GAS PIPING SHALL BE PAINTED WITH A ZINC BASED PRIMER WITH A COLOR TOP COAT SPECIFIED BY THE GC. WHERE COLOR TOP COAT IS NOT REQUIRED, TWO COATS OF ZINC BASE PRIMER SHALL BE USED. ALL FIELD JOINTS SHALL BE COATED WITH TWO COATS OF A ZINC BASED PRIMER. SLEEVE ALL WALL PENETRATIONS WITH SCHEDULE 40 PVC AND PROVIDE STAINLESS STEEL ESCUTCHEONS ON BOTH SIDES OF WALL PENETRATIONS.
- PIPING ON ROOF SHALL NOT BE INSTALLED NEARER THAN 1'-0" FROM INSIDE EDGE OF PARAPET UNLESS NOTED OTHERWISE.
- CONDENSATE PIPING ON ROOF SHALL BE SCHEDULE 40 PVC.
- ANY EXISTING PENETRATIONS OF ROOF BY EXISTING GAS, CONDENSATE, REFRIGERANT OR OTHER PIPING THAT ARE NOT BEING REUSED FOR NEW PIPING SHALL BE PATCHED AND REPAIRED (WATERTIGHT) TO MATCH SURROUNDING AREA.
- FIELD VERIFY ALL LOCATIONS, DIAMETERS, CLEARANCES AND ROUTING OF EXISTING LINES AND EQUIPMENT.

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



**2 CONDENSATE DRAIN PIPING**

NO SCALE

PRIOR TO GAS LINE ROUTING BELOW SLAB, PLUMBING CONTRACTOR SHALL INSTALL LOCKABLE SHUT-OFF VALVE IN GAS LINE SERVING INFRA-RED HEATERS AT CANOPY.

GAS CONNECTION SCHEDULE	
EQUIPMENT	GAS LOAD
AC#1 (NEW)	400,000 BTUS
AC#2 (NEW)	200,000 BTUS
AC#3 (NEW)	250,000 BTUS
AC#4 (NEW)	200,000 BTUS
AC#5 (NEW)	130,000 BTUS
GH-#6 (50,000) EA	300,000 BTUS
WATER HEATER (NEW)	125,000 BTUS
<b>TOTAL CONNECTED LOAD</b>	<b>1,605,000 BTUS</b>

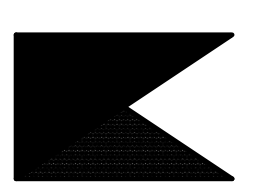
**REMARKS**

- EQUIVALENT TO 1,605.0 CFH
- 7" W.C. DELIVERY PRESSURE
- DEVELOPED LENGTH 200 FT. (METER TO GH)

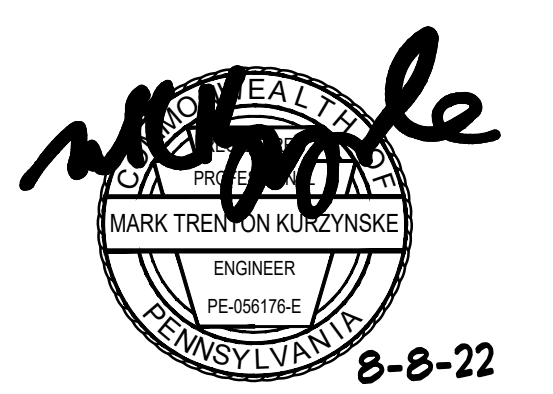


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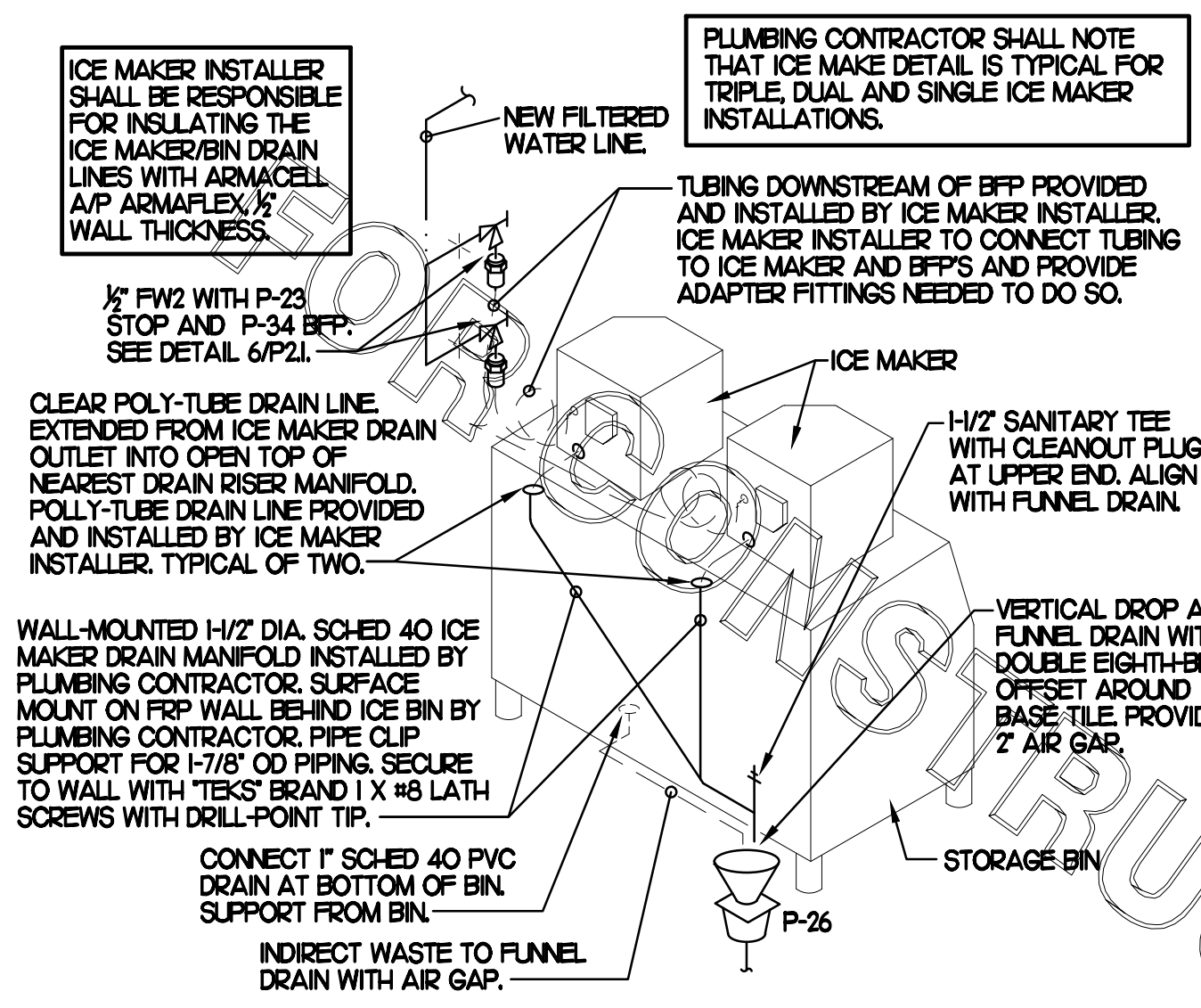
ROOF PLAN AND DETAILS  
SHEET NUMBER

**P3.1**

CONSTRUCTION

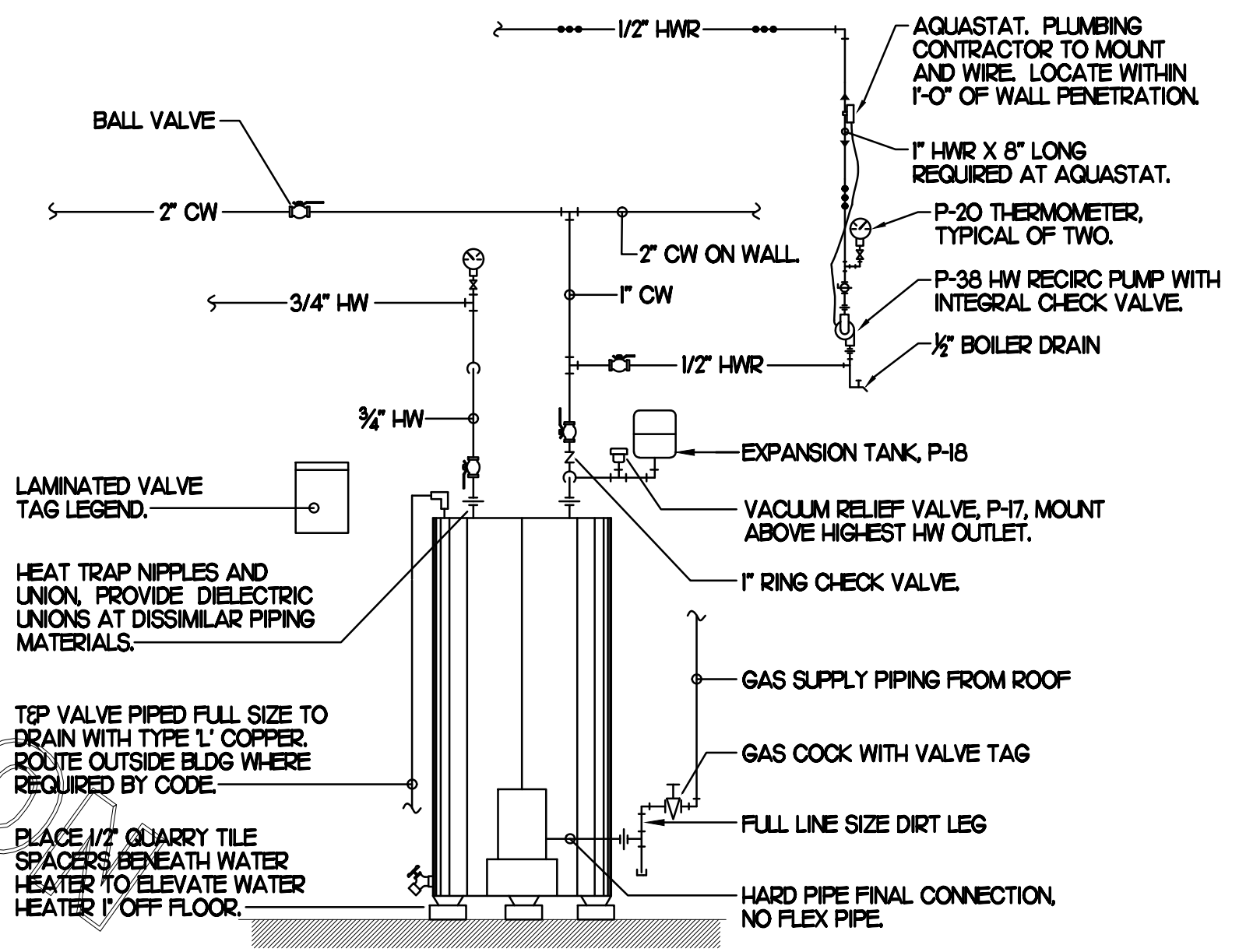
**NOTE TO WATER HEATER INSTALLER:**

- 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 PER MANUFACTURER'S RECOMMENDATIONS.



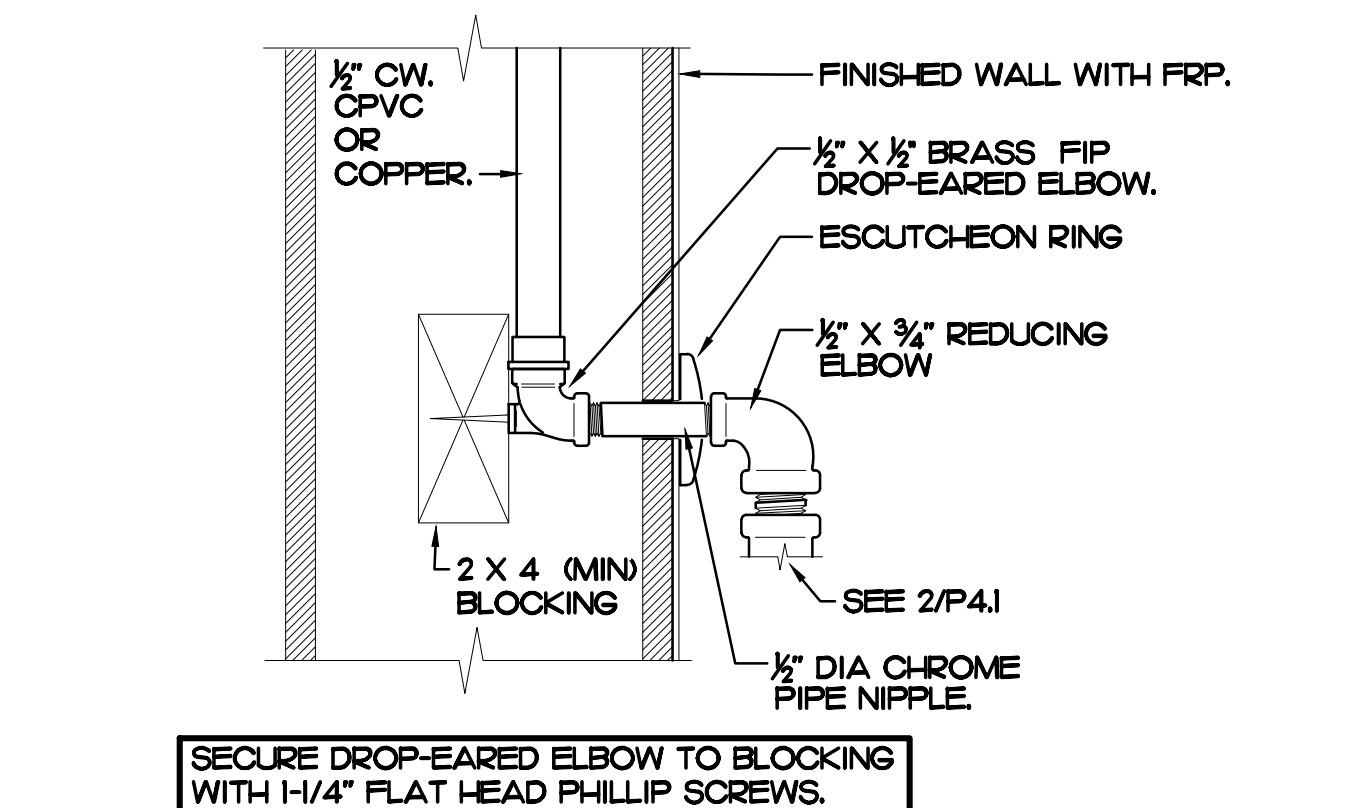
**3 ICE MACHINE PIPING**

SCALE: NONE



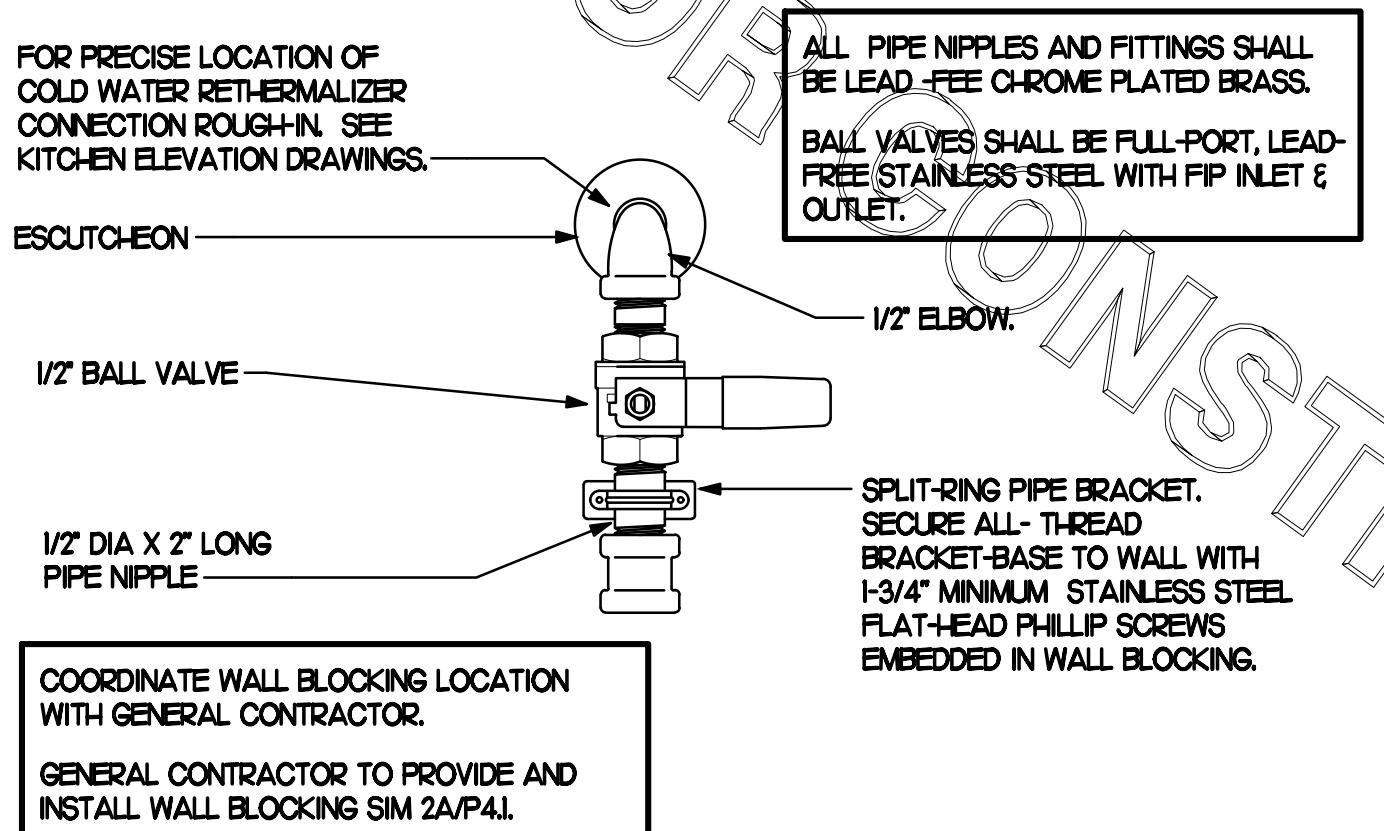
**5 WATER HEATER DETAIL**

NO SCALE



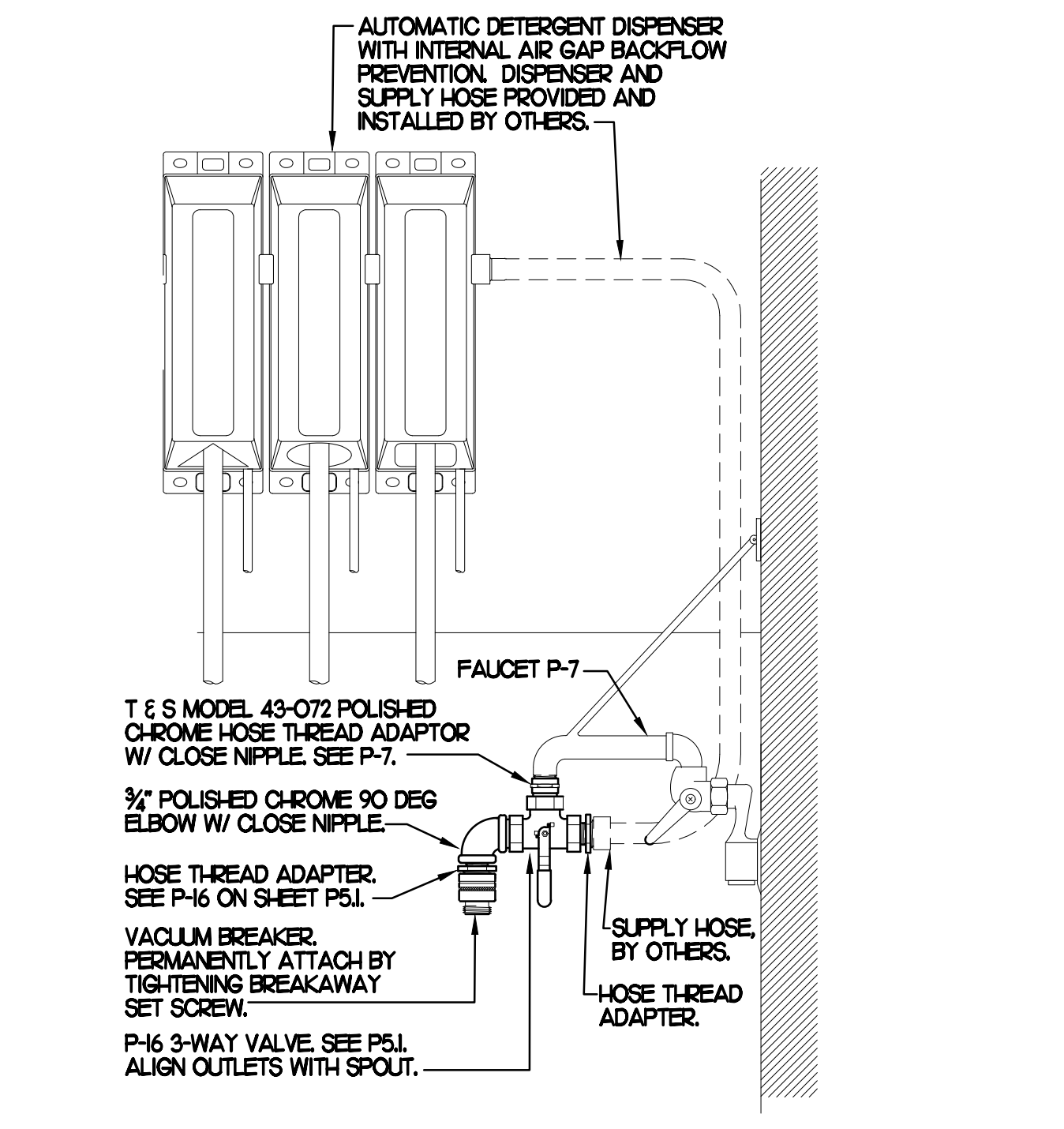
**2A SECTION AT PIPING WITHIN WALL**

SCALE: NONE



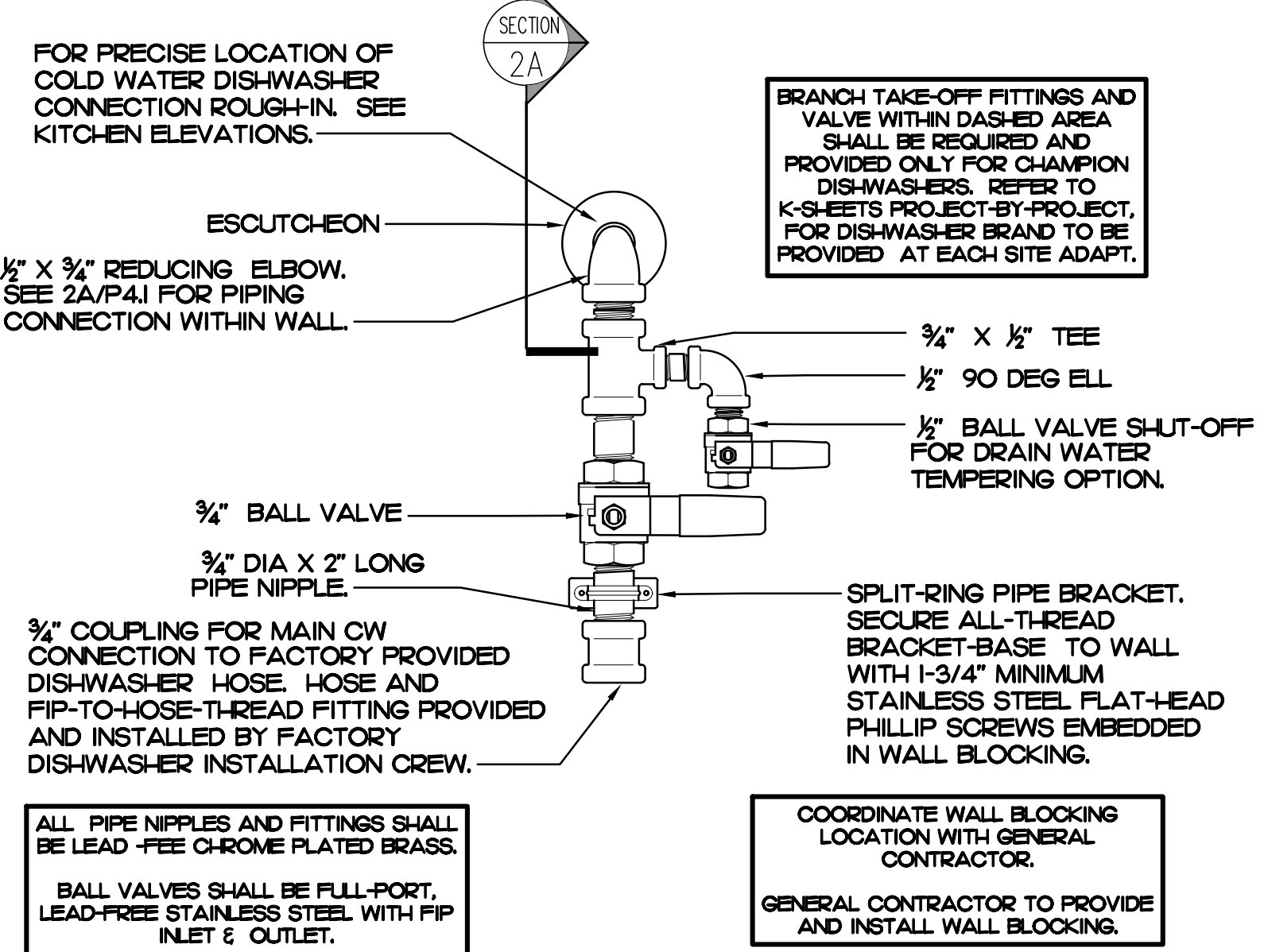
**1 RETHERMALIZER WATER SUPPLY VALVE**

SCALE: NONE



**4 3-WAY VALVE AT MOP SINK**

SCALE: NONE



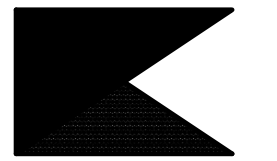
**2 DISHWASHER WATER SUPPLY VALVE ASSEMBLY**

SCALE: NONE

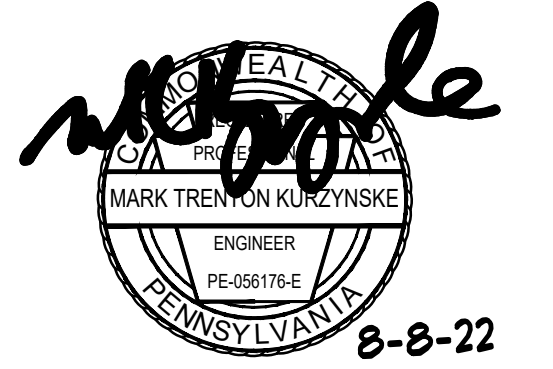


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8-8-22

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PLUMBING  
DETAILS  
SHEET NUMBER

**P4.I**

FOR CONSTRUCTION

# I. SECTION CIS100 - 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 RESTRICTIVE 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 FITTINGS SOLDERED USING 95-5 LEAD-FREE SOLDER MEETING ASTM B-32 OR BRAZED WITH SIL-FOS. SOLDER FLUXES SHALL MEET ASTM B-813 AND SHALL BE LEAD FREE. BRAZING FLUXES SHALL MEET AWS B3.1 OR F68-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-2865.

- 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-2865 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-2864 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. EXTERIOR PIPING JOINTS SHALL BE NEOPRENE PUSH-ON TYPE.

- K. PROVIDE 1" THICK PIPE INSULATION FOR ALL ABOVE SLAB HOT AND TEMPERED WATER PIPING. PROVIDE 1/2" THICK INSULATION FOR ALL ABOVE SLAB COLD WATER, FILTERED WATER, CONDENSATE PIPING, AND HORIZONTAL RAIN WATER CONDUCTORS INSIDE THE BUILDING. PIPING INSULATION SHALL BE KNAUF 1000F 25/50 FIBERGLASS PIPE COVERING, WHITE KRAFT PAPER VAPOR BARRIER (02 PERMS) BONDED TO ALUMINUM FOIL AND REINFORCED WITH GLASS FIBERS. MAXIMUM THERMAL CONDUCTIVITY OF 0.23 AT 75F. LONGITUDINAL LAP SHALL BE SELF-SEALING. INSULATION FOR WALK-IN COOLER/REFRECTOR CONDENSATE PIPING SHALL BE ARMAFLEX AP ARMAFLEX WITH MINIMUM 1/2" 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, 800-875-7788.
- N. ALL 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 JOINTS AS REQUIRED BY THE LOCAL GAS CODE AND/OR APPLICABLE LOCAL ORDINANCES AND AMENDMENTS.

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

- P. 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 SERVING 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 1/2" PER FT (2%) UNLESS NOTED OTHERWISE ON PLANS.

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

- H. HANGERS FOR PIPING GREATER THAN 1" SHALL PASS OVER THE INSULATION. PROVIDE SADDLES FOR INSULATED PIPING.
- I. INSULATION SHALL BE APPLIED WITH JOINTS TIGHTLY BUTTED. OPEN CRACKS, VOIDS AND DEPRESSIONS SHALL BE FILLED WITH HYDRAULIC SETTING CEMENT. TAPPING 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 QIRT 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. APPLY TWO COATS OF ASPHALTUM BASE PAINT TO PIPING BURIED UNDERGROUND.

### 2.03 TESTING (C15100)

- A. POTABLE WATER PIPING SHALL BE PRESSURE TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURER'S 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 MANUFACTURER'S RECOMMENDATIONS.
- E. NATURAL GAS PIPING SHALL BE LEAK TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURER'S 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)

- P-1 WATER CLOSET: TOTO MODEL CT705EN BOWL WITH 128 GPF TET-14-A #32CP ECO-POWER FLUSH VALVE AND SCS34 SEAT, NO SUBSTITUTIONS. WHITE, FLOOR MOUNTED, FLUSH VALVE TYPE. VITREOUS CHINA, 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 CT705EN BOWL WITH 128 GPF TET-14-A #32CP ECO-POWER FLUSH VALVE AND SCS34 SEAT, NO SUBSTITUTIONS. H.C. ACCESSIBLE, WHITE, FLOOR MOUNTED, 1/2" HIGH FLUSH VALVE TYPE, VITREOUS CHINA, 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 UT44SU URINAL WITH TEL 1 UA 12CP Q125 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-4 LAVATORY FAUCET (BUILT-IN COUNTERTOP LAVATORY PROVIDED BY OWNER) TOTO MODEL TEL 105-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 LF75 SUPPLY WITH STOP MCGUIRE 887HC CRD DRAIN WITH OFFSET TAILPIECE, MCGUIRE 887Z POLISHED CHROME P-TRAP. P-TRAP SHALL BE PARALLEL WITH BACK WALL. PROVIDE A TUBERO INC. HANDE LAV-GUARD INSULATION KITS MODELS IOE-2 AND IOE-2-Z. CHICK-FIL-A HAS NATIONAL ACCOUNTS WITH TOTO. PLEASE SEE NATIONAL ACCOUNT INFORMATION ON THIS SHEET FOR PRICING OF TOTO FIXTURES.

## PLUMBING (C15100)

- P-5 KITCHEN HAND SINK ROUGH-IN SINK BY TMS, FAUCET TOTO MODEL #TEL165-C20ECP - PROVIDED BY HJC WITH TP3094 NOZZLE. CONTRACTOR SHALL INSTALL WALL HUNG, STAINLESS STEEL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. MCGUIRE LF75 SUPPLIES WITH STOPS AND A MCGUIRE 892C POLISHED CHROME P-TRAP (PROVIDED BY HJC). ADJUST FAUCET OUTLET TEMPERATURE TO 110 DEGREES F (OR HIGHER AS REQUIRED BY LOCAL JURISDICTION).

- P-5A KITCHEN DUMP SINK ROUGH-IN SINK BY TMS, FAUCET TMS MODEL #H146-CFA-VP05 - PROVIDED BY HJC WITH TP3094 NOZZLE. CONTRACTOR SHALL INSTALL WALL HUNG, STAINLESS STEEL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. MCGUIRE LF75 SUPPLIES WITH STOPS AND A MCGUIRE 892C POLISHED CHROME P-TRAP PROVIDED BY HJC.

- P-6 SERVING COUNTER DROP-IN SINK ROUGH-IN SINK PROVIDED BY CLAYTON FIXTURES, FAUCET-TES CO-3100-7X7MTHG WITH LO GPM AERATOR PROVIDED BY HJC. CONTRACTOR SHALL INSTALL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. MCGUIRE 892C POLISHED CHROME P-TRAP AND MCGUIRE LF75 SUPPLIES WITH STOPS AND 20" CHROME PLATED COPPER RISERS (PROVIDED BY HJC). ADJUST FAUCET OUTLET TEMPERATURE TO 110 DEGREES F (OR HIGHER AS REQUIRED BY LOCAL JURISDICTION).

- P-7 MOP SINK FAUCET (MOP SINK BASIN BUILT BY GENERAL CONTRACTOR) PROVIDE TES BRASS MODEL B-2345 FAUCET WITH CERAMA SPRING CHECK VALVE CARTRIDGES, HOSE THREAD SPOUT OUTLET, TOP BRACE, ADJUSTABLE INLET SPREAD FROM 3" TOP 8". INCLUDE TES BRASS MODEL 43-072 HOSE 3/4" FEMALE NPT CHROME ADAPTOR. NO SUBSTITUTIONS. SEE ALSO P-6.

- P-8 VEGETABLE PREP SINK ROUGH-IN SINK PROVIDED BY TMS, FAUCET TES B-0152-4-CR2CT WITH 0.65 GPM SPRAY HEAD BY HJC. CONTRACTOR SHALL INSTALL SINK AND MAKE FINAL CONNECTIONS. MCGUIRE LF75 SUPPLIES WITH STOPS AND BRASSCRAFT 36" CHROME PLATED #0 COPPER RISERS MODEL 3-36AC (PROVIDED BY HJC). ASSEMBLE AND MOUNT TWO HANDLE FAUCET WITH PRE-RINSE SPRAY ARM. INSTALL ADD-ON FAUCET WITH SPOUT AT BASE OF PRE-RINSE RISER. SEE K-SHEET ELEVATIONS. PROVIDE 1/2" SCHED 80 PVC PIPE AND FITTINGS. INDIRECT WASTE LINES FROM SINK BASINS TO FLOOR SINK P-38. NO P-TRAPS REQUIRED. HJC TO PROVIDE FISHER #2209 DRAINS WITH FLAT STRAINERS.

- P-9 FOUR COMPARTMENT POT SINK ROUGH-IN SINK PROVIDED BY TMS, FAUCETS TES B-0152-4-CR2CT & 2209 OR WITH 0.65 GPM SPRAY HEAD PROVIDED BY HJC. CONTRACTOR SHALL INSTALL SINK ASSEMBLY, MOUNT TWO FAUCETS AND MAKE FINAL CONNECTIONS. MCGUIRE LF75 SUPPLIES WITH STOPS AND BRASSCRAFT 36" CHROME PLATED #0 COPPER RISERS MODEL 3-36AC (PROVIDED BY HJC). ASSEMBLE AND MOUNT ONE TWO-HANDLE FAUCET WITH PRE-RINSE SPRAY, INSTALL ADD-ON FAUCET WITH SPOUT AT BASE OF PRE-RINSE RISER, ASSEMBLE AND MOUNT ONE TWO-HANDLE FAUCET WITH DOUBLE JOINT SPOUT ON OPPOSITE SIDE. SEE K-SHEET ELEVATIONS FOR FAUCET LOCATIONS. PROVIDE 1/2" SCHED 80 PVC PIPE AND FITTINGS. INDIRECT WASTE LINES FROM EACH SINK BASIN TO FLOOR SINK P-38. NO P-TRAPS REQUIRED. HJC TO PROVIDE FISHER #2209 DRAINS WITH FLAT STRAINERS.

- P-10 FLOOR DRAIN (3") JONES STEPHENS CORP D53-144 PVC BODY, BRONZE SPUD WITH 8" DIAMETER NICKEL BRONZE STRAINER. ALT (LRS) 210-FH-NB, (WTS) FDI03-A6-60, (ZRN) FRO6NP35-C.

- P-11 WALL HYDRANT (NON-FREEZE) WOODFORD MODEL 67-C AUTOMATIC DRAINING WALL HYDRANT WITH DUAL CHECK BPP, ASSE 1082 APPROVED, WALL CLAMP, POLISHED BRASS FINISH, "C" STYLE INLET, SEE WALL HYDRANT NOTES ON I/P-21 FOR WALL THICKNESS AT WALL HYDRANTS. ALT (WTS) HY-42.

- P-12 FUNNEL DRAIN (3") ZURN MODEL 2N415-3N-85-F FLOOR DRAIN W/FUNNEL. INDIRECT WASTE RECEIVER WITH NICKEL BRONZE STRAINER AND FUNNEL. PROVIDE 6" SQUARE STRAINER WITH 4" ROUND FUNNEL AT ICE MACHINE & WALK-IN COOLER. ALT (WTS) FDI03P-M6-F4-I, (LRS) 3510L03.

- P-13A FLOOR SINK (POT SINK) ZURN MODEL Z190-KC4-3N-L-23 CAST IRON INDIRECT WASTE RECEIVER WITH 1/2" SQUARE BODY, FLASHING CLAMP, 8" DEEP, ALUMINUM SEDIMENT BUCKET, AND NO GRATE. NO SUBSTITUTIONS.

- P-13B FLOOR SINK (VEGETABLE SINK) ZURN MODEL Z190-KC-3N-L-23 CAST IRON INDIRECT WASTE RECEIVER WITH FLASHING CLAMP, 8" SQ. BODY, ALUMINUM SEDIMENT BUCKET, AND NO GRATE. NO SUBSTITUTIONS.

- P-14 CLEANOUTS INSIDE BUILDING: ZURN 2N400-XN-L-TP CLEANOUT WITH 6" SQUARE NICKEL BRONZE TOP AND TAPER-THREAD BRONZE PLUG. SEE PLAN FOR SIZE. ALT (Ø-PPIPE DIA) (WTS) CO-20XP-S, (LRS) 4053L.

- P-15 CLEANOUTS OUTSIDE BUILDING: ZURN Z1474-X-N EXTRA HEAVY DUTY CAST IRON CLEANOUT, "C", CAST IN COVER, ABS PLUG, NEO-LOCK OUTLET. ALT (Ø-PPIPE DIA) (WTS) CO-X00M-F, CO-38X, (ZRN) Z1474-X-N (LRS) 426L.

- 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) GPM SCHED 80 1/2" MIP X 3/4" MALE GARDEN HOSE THREAD ADAPTERS (PLUMBEST MODEL 620-103 OR EQUAL). PROVIDE WITH ONE ASSE 101 APPROVED CHROME PLATED WALL BREAKER (WOODFORD MODEL 34-H-CH OR EQUAL) (ALL PROVIDED BY HJC). FOR INSTALLATION AT MOP SINK. SEE 2P-21. 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 #LFB36M, 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 BRADFORD-WHITE BF-60T-125E-3N STORAGE TYPE GAS FIRED 60 GALLON WATER HEATER, 125 MHP INPUT, 145 GPH RECOVERY AT 100F RISE, DIRECT VENT, BLOWER POWERED, CONDENSING TYPE WITH THREE YEAR WARRANTY (PROVIDED BY HJC). CONTRACTOR TO PROVIDE DIELECTRIC HEAT TRAP NIPPLES, PROVIDE AND INSTALL CONCENTRIC VENT TERMINATION KIT. STATE INDUSTRIES SLF-100-99A-E, B-EEM GHE50-130, AD BRADFORD-WHITE 60T-199-3N MODELS ARE ACCEPTABLE SUBSTITUTES. (ANY SUBSTITUTIONS PROVIDED ON REQUEST FROM HJC).

- P-20 THERMOMETER: PROVIDE TERICE MODEL BR34-04-04 3" DIAL TYPE THERMOMETER WITH BOTTOM 1/2" NPT. CONNECTION, 4" STEM AND 0 DEG F TO 200 DEG F RANGE. LEAD FREE.

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

DOUBLE CHECK TYPE:  
WATTS NO. LF1007MOT 1/2" DUAL CHECK MODULAR TYPE BACKFLOW PREVENTER MEETING ASSE 1015 AND AWWA C910-92 WHERE REQUIRED BY LOCAL AUTHORITY, USE THE RPZ TYPE BPP SHOWN BELOW. ALT (ZRN) 112-35OXL.

REDUCED PRESSURE ZONE (RPZ) TYPE:  
WATTS NO. LF1009M2 1/2" MODULAR TYPE WITH TEST PORTS AND INTERMEDIATE RELIEF VALVE MEETING ASSE 1015 AND AWWA C910-92. PROVIDE WATTS NO. 909-AG-C AIR GAP DEVICE. ALT (ZRN) 112-975XL2LI.

- P-22 MOP SINK CHECK VALVES: TES BRASS 1/2" MODEL B-CVW1-2 BALL CHECK.

- P-23 UTILITY CONNECTION (ICE MAKER) PROVIDE A MCGUIRE MODEL LFH5T06SB LEAD-FREE CHROME WHEEL ANGLE STOP, 1/2" FIP INLET AND OUTLET. PROVIDE CHROME WALL ESCUTCHEON. INSTALL WITH BPP P-34. SEE DETAIL 3/P-21 FOR PIPING AT ICE MAKERS.

- P-24 UTILITY CONNECTION (COFFEE & TEA BREWERS) PROVIDE A MCGUIRE MODEL LFH5T06SB LEAD-FREE CHROME WHEEL ANGLE STOP, 1/2" FIP INLET AND OUTLET. PROVIDE CHROME WALL ESCUTCHEON. INSTALL WITH BPP P-34.

- P-25 SHOCK ABSORBER: ZURN Z1700-H00 THRU Z1700-300 AS NEEDED, SIZE AS RECOMMENDED BY MANUFACTURER. ALT (WTS) SSA + SSB, (LRS) 5005 THROUGH 5050.

- P-26 FUNNEL DRAIN (3") ZURN 2N415-3N-85-F 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. ALT (WTS) FDI03P-A6-G-I, (LRS) 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 DINING ROOM, AND P-26 FUNNEL DRAINS IN KITCHEN ROOM. TRAP GUARDS TO BE USED ALONG WITH MECHANICAL TRAP PRIMERS. PROVIDE PROSET MODEL TG33-ZURN WHEN USING ZURN FLOOR FIXTURES.

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

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

- P-29A ICE MACHINE TRENCH DRAIN (8") ZURN ZR12-CFA-18 TRENCH DRAIN WITH SEDIMENT CLIP AND SERRATED LADDER GRATES. PROVIDE WITH 4" DRAIN AND TRAP. TRENCH DRAIN SHALL BE RECESSED INTO SLAB SO THE TOP OF THE PERIMETER FRAME IS FLUSH WITH THE FINISHED FACE OF THE ADJACENT TILE FLOOR. TRENCH DRAIN, SEDIMENT CLIP, AND GRATES SHALL BE 304 STAINLESS STEEL.

- P-29B ICE MACHINE TRENCH DRAIN (36") ZURN ZR12-CFA-36 TRENCH DRAIN WITH SEDIMENT CLIP AND SERRATED LADDER GRATES. PROVIDE WITH 4" DRAIN AND TRAP. TRENCH DRAIN SHALL BE RECESSED INTO SLAB SO THE TOP OF THE PERIMETER FRAME IS FLUSH WITH THE FINISHED FACE OF THE ADJACENT TILE FLOOR. TRENCH DRAIN, SEDIMENT CLIP, AND GRATES SHALL BE 304 STAINLESS STEEL.

- P-30 FILTERED WATER FAUCET: FILTERED WATER FAUCETS: TES B-02226-CR-069X (KITCHEN FAUCET) & TES B-0599-CR (DRIVE-THRU FAUCET). 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 1082 APPROVED AND 36" DEPTH OF BURY.

- P-32 DUMPSTER PAD DRAIN: J.B. SMITH FIGURE NO. 2280003 3" FLOOR DRAIN WITH 1/2" HINGED CAST IRON SLOTTED GRATE AND SEDIMENT BUCKET. PROVIDED AND INSTALLED BY SITE CONTRACTOR. ALT (ZRN) 2560-3N-Y.

- P-33 TRAP PRIMER (MECHANICAL TYPE) PRECISION PRODUCTS PR-500. PROVIDE DISTRIBUTION LINE WHERE SERVING MULTIPLE DRAINS. PROVIDE SCREWDRIVER STOP AT PRIMER INLET. ALT (WTS) TP-300A-DR. DO NOT USE UNLESS REQUIRED BY LOCAL AUTHORITY.

- P-34 DISPENSER BACKFLOW PREVENTER: WATTS MODEL #MUF7R122D ASSE 1024 RATED WITH 1/2" FIP INLET AND OUTLET, DUAL CHECK TYPE. PROVIDE 1/2" DIA X 2" LONG CHROME NIPPLE AT BPP INLET AND OUTLET. PROVIDE TES BRASS MODEL B-0110 C-ROME WALL BRACKET.

- P-35 FLOOR DRAIN (3") JONES STEPHENS CORP D50-064 PVC BODY, BRONZE SPUD WITH 6" DIAMETER NICKEL BRONZE STRAINER. SEE DWG PH FOR DRAINS IN RESTROOMS REQUIRING 1/2" TRAP PRIMER CONNECTION. ALT (WTS) FDI03-A6-G0, (ZRN) FRO6NP35-C.

- P-36 BEVERAGE TOWER INDIRECT RECEIVER (3") JONES STEPHENS CORP D53-144 PVC BODY, BRONZE SPUD WITH 8" DIAMETER NICKEL BRONZE STRAINER. ALT (LRS) 210-FH-NB, (WTS) FDI03-A6-G0, (ZRN) FRO6NP35-C.

- P-37 FLOOR DRAIN (3") JONES STEPHENS CORP D50-076 PVC BODY, BRONZE SPUD WITH 6" SQUARE NICKEL BRONZE STRAINER. PROVIDE 1/2" TRAP PRIMER CONNECTION FOR DINING ROOM DRAINS. ALT (WTS) FDI03-M6-T-60, (ZRN) FSO6NP35-C.

- P-38 HOT WATER CIRCULATING PUMP: TACO MODEL 006-SC71FC, 1/2"

KITCHEN EQUIPMENT SCHEDULE - CHICK-FIL-A REMODEL Store #1765											
VERIFY THE QUANTITY AND ROUGH-IN OF EACH EQUIPMENT ITEM WITH THE KITCHEN EQUIPMENT SCHEDULE											
SCHEDULE NOTES	EQUIP. NO.	EQUIPMENT DESCRIPTION	ELECTRICAL LOAD				NEMA CONFIG		COOPER/ARROW HART (UON) RECP CATALOG NO.	Wire/Condu it MARK NO.	COMMENTS AND REMARKS
			VOLTS	PH	WIRES	KW	AMPS	WALL			
	180	ORDER REGISTER (POS)	120	1	2		0.7	5-20R	N/A	IG5362RN (ORANGE)	1-IG
	182	RECEIPT-PRINTER	120	1	2		0.18	5-20R	5-20R	IG5362RN (ORANGE)	1-IG
	182L	LABEL PRINTER	120	1	2		0.18	5-20R	5-20R	IG5362RN (ORANGE)	1-IG
NOTE 5	183	ORDER MONITOR	120	1	2		0.125	5-20R	5-20R	IG5362RN (ORANGE)	1-IG
NOTE 2 OR 5	184	IPAD	120	1	2	0.120	1.0	5-20R	5-20R	VG20	1
NOTE 2	190	DRIVE-THRU VIDEO MONITOR	120	1	2		0.8	5-20R	N/A	CR20	1
NOTE 5	211b	FLY SYSTEM - KITCHEN AREA	120	1	2	0.078	0.650	5-15R	N/A	TR780W (DUPLEX)	1
	269	ANSUL FIRE SYSTEM	120	1	2			VERIFY	DIRECT	N/A	-
	270	ANSUL FIRE SYSTEM	120	1	2			VERIFY	DIRECT	N/A	-
NOTE 2	300a	MILKSHAKE DISPENSER	120	1	2		4.0	5-20R	N/A	1877 (SIMPLEX)	1
	300X	DOUBLE BARREL ICE DREAM	208	3	3		15.0	15-20R	N/A	HUBBELL HBL8420	2
	300X	DOUBLE BARREL ICE DREAM	208	3	3		19.0	15-30R	N/A	HUBBELL HBL8430A	8
NOTE 2	305	TEA BREWER	120	1	2	1.650	13.8	5-20R	N/A	VG20	1
	308	COFFEE BREWER	208	1	3	4.000	19.2	L14-30R	N/A	AHL1430R	8
NOTE 2	310	DOUBLE JUICE DISPENSER	120	1	2		8.5	5-20R	N/A	1877 (SIMPLEX)	1
	315W	DRINK TOWER	120	1	2		10.0	5-20R	N/A	CR20	1
NOTE 2	320	TURBO CARBONATOR	120	1	2		6.2	5-20R	N/A	CR20	1
	363	HIGH-TEMP DISHMACHINE	208	3	3		49.0	DIRECT	N/A	-	17
	380A	ICE BIN SANITATION SYSTEM	120	1	2	0.010		5-15R	N/A	-	-
NOTE 5	380	INTERIOR ICE MAKER	120	1	2	0.600	5.0	5-15R	N/A	817 (SIMPLEX) CR15 (DUPLEX)	1
	380C	ROOF MTD ICE CONDENSER	208	3	4	5.112	14.2	DIRECT	N/A	-	6
	380Z	INTERIOR ICE MAKER	120	1	2		6.0	5-15R	N/A	817 (SIMPLEX) CR15 (DUPLEX)	1
	380ZC	ROOF MTD ICE CONDENSER	208	3	4		21.2	DIRECT	N/A	-	12
NOTE 2	400	REACH-IN FRY FREEZER	120	1	2		9.4	5-20R	L5-20R	VG20 / AHL520R	1
	410	WALK-IN FREEZER DOOR HTR/LTG	120	1	2		3.3	DIRECT	-	-	1
	410	WI FREEZER CONDENSER	208	3	3		16.30	DIRECT	-	-	11
	410	WI FREEZER EVAP COIL	208	1	2		1.5	DIRECT	-	-	1
NOTE 5	420	SINGLE UC REFRIGERATOR	120	1	2		4.7	5-20R	L5-20R	1877 (SIMPLEX) / AHL520R	1
NOTE 2	421	DOUBLE UC REFRIGERATOR	120	1	2		6.3	5-20R	L5-20R	1877 (SIMPLEX) / AHL520R	1
NOTE 5	422	REFRIGERATED EQUIPMENT STAND	120	1	2		6.7	5-15R	L5-15R	1877 (SIMPLEX) / CWL515C	1
NOTE 5	432	REFRIGERATED WORK TABLE	120	1	2		6.3	5-20R	L5-20R	1877 (SIMPLEX) / AHL520R	1
NOTE 2	439	COLD RAIL	120	1	2		7.1	5-20R	N/A	VG20	1
NOTE 2	440CT	BREADING TABLE	120	1	2		1.0	L5-15R	L5-15R	CWL515R / CWL515C	1
NOTE 5	441	REFRIGERATED SALAD PREP	120	1	2		9.0	L5-15R	L5-15R	CWL515R / CWL515C	1
NOTE 2	442WCT	SINGLE UPRIGHT REFRIGERATOR	120	1	2		7.0	L5-15R	L5-15R	CWL515R / CWL515C	1
	444	DOUBLE DOOR THAWING CABINET	120	1	2		16.0	DIRECT	DIRECT	-	1
	444S	SINGLE DOOR THAWING CABINET	120	1	2		16.0	DIRECT	DIRECT	-	1
	449	WALK-IN COOLER LIGHTING	120	1	2		2.4	DIRECT	-	-	1
	449	WI COOLER CONDENSER	208	3	3		9.50	DIRECT	-	-	2
	449	WI COOLER EVAP COIL	208	1	2		1.0	DIRECT	-	-	1
NOTE 2 OR 5	500A	VERTICAL CONTACT TOASTER	120	1	2	1.800	15.0	5-20R	L5-20R	VG20 / AHL520R	1
	500B	RADIANT TOASTER	208	1	3	5.000	24.0	L6-30R	L6-30R	AHL530R / AHL530C	8
NOTE 5	503	EGG STATION	208	1	3	2.500	12.5	6-20R	L6-20R	1876 (SIMPLEX) / AHCL620C	2
	505V	MULTI-COOK OVEN	208	3	3	7.920	22.0	L15-30R	L15-30R	AHLC1530R / AHCL1530C	9
NOTE 3	522	OPEN FRYER - ELECTRIC	208	3	3	22.000	61.0	NOTE 3	N/A	-	22
NOTE 3	522A	DOUBLE OPEN FRYER - REQUIRES TWO ELECTRICAL CONNECTIONS EACH OF THE SAME LOAD AND CHARACTERISTICS AS #522 ABOVE									
	523	PRESSURE FRYER - ELECTRIC	208	3	3	13.500	38.0	15-50R	N/A	HUBBELL HBL8450A	14
	524	DUAL SIDED CHAR-GRILL	208	3	3	9.000	24.1/28.2/23.1	15-50R	N/A	HUBBELL HBL8450A	14
NOTE 2	560	FRY HOLDING STATION	120	1	2	1.840	15.4	5-20R	N/A	1877 (SIMPLEX)	1
NOTE 5	562A	HOT HOLDING TOWER	120	1	2	1.911	15.9	L5-20R	L5-20R	AHL520R / AHL520C	1
NOTE 5	563D	DOUBLE SANDWICH SLIDE	120	1	2	1.090	9.13	5-20R	N/A	1877 (SIMPLEX)	1
NOTE 5	563S	SINGLE SANDWICH SLIDE	120	1	2	0.548	4.56	5-20R	N/A	1877 (SIMPLEX)	1
	564A	PRODUCT HOLDING CABINET	120	1	2	0.660	5.50	5-20R	L5-20R	1877 / AHL520C	1
	564B	PRODUCT HOLDING CABINET	120	1	2	0.660	5.50	5-20R	L5-20R	1877 / AHL520C	1
NOTE 2	565C	FOOD COOKER/WARMER	120	1	2	1.500	12.50	5-20R	L5-20R	VG20 / AHL520R	1
NOTE 5	580H	MULTI-USE HOLDING CABINET	120	1	2	1.920	16.0	5-20R	L5-20R	1877 / AHL520C	1
	592	SOUP RETHERMALIZER	208	3	3	7.920	22.0	15-30R	L15-30R	AH8430N / AHL1530C	9
NOTE 5	600	MIXER	120	1	2		8.0	5-20R	L5-20R	VG20 / AHL520C	1
NOTE 2	607	LEMON JUICER	120	1	2	1/4 HP		5-20R	N/A	VG20	1
	669	OFFICE SAFE (SMART SAFE)	120	1	2			5-20R	N/A	CR20	1
NOTE 2	671	LED MENU BOARD	120	1	2		12.50	5-20R	N/A	CR20	1
	672	FUTURE DIGITAL MENUBOARD	120	1	2	0.085 EA		5-20R	N/A	CR20	1
	672	FUTURE MEDIA PLAYER	120	1	2	0.156		5-20R	N/A	CR20	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.

NOTE 7: THE 'R' SUBSCRIPT ON EQUIPMENT NUMBERS ON THE KITCHEN SERIES DRAWINGS REFERS TO EXISTING EQUIPMENT THAT HAS BEEN RELOCATED. IN SEVERAL CASES THERE MAY BE ONE OR MORE NEW AND ONE OR MORE RELOCATED ITEMS, THEREFORE, IN ORDER TO AVOID CONFUSION, ALL EQUIPMENT IS LISTED AS 'NEW' AND THIS SUBSCRIPT IS NOT USED. FIELD VERIFY ELECTRICAL REQUIREMENTS - WHAT IS INDICATED IN THIS SCHEDULE IS BASED ON 'NEW BUILD' PROTOTYPICAL EQUIPMENT ITEMS.

ELECTRICAL LEGEND					
SYMBOL	DESCRIPTION	MTG HT AFF TO CL	SYMBOL	DESCRIPTION	MTG HT AFF TO CL
<b>LIGHTING FIXTURES</b>					
□	SURFACE MTD FLUORESCENT LIGHTING FIXTURE				
⊞	RECESSED FLUORESCENT LIGHTING FIXTURE				
○	SURFACE MTD FLUORESCENT OR HID LIGHTING FIXTURE				
○	RECESSED FLUORESCENT OR HID LIGHTING FIXTURE				
○	WALL MOUNTED LIGHTING FIXTURE. SEE LIGHTING FIXTURE SCHEDULE (FLUORESCENT OR HID FIXTURE)	AS NOTED			
○	WALL MOUNTED EXIT SIGN. SHADING INDICATES FACES. PROVIDE WITH CHEVRON DIRECTIONAL ARROWS WHERE INDICATED ON PLANS PROVIDED WITH BATTERY PACK	6" BELOW CEILING TO TOP			
○	CEILING MOUNTED EXIT SIGN. SHADING INDICATES FACES. PROVIDE WITH CHEVRON DIRECTIONAL ARROWS WHERE INDICATED ON PLANS PROVIDED WITH BATTERY PACK				
⊞	COMBO EXIT WITH TWO LAMP-HEADS. SEE LIGHTING FIXTURE SCHEDULE				
⊞	WALL MOUNTED EMERGENCY BATTERY PACK LIGHTING FIXTURE	AS NOTED			
⊞	CEILING MOUNTED EMERGENCY BATTERY PACK LIGHTING FIXTURE				
—	FLUORESCENT STRIP LIGHTING FIXTURE				
○	WALLWASHER STYLE RECESSED DOWNLIGHT, AIM LIGHT TOWARD WALL				
⊞	RECESSED LIGHTING FIXTURE WITH EMERGENCY BATTERY PACK				
⊞	PENDANT LIGHTING FIXTURE	AS NOTED			
—	LIGHTING TRACK WITH TRACK HEADS				
<b>CONDUIT/RACEWAYS</b>					
—	CONDUIT CONCEALED ABOVE CEILING OR IN WALL				
—	CIRCUIT HOMERUN TO PANELBOARD WITH MINIMUM 2#12, #12@, 3/4"C				
—	CONDUIT TURNING UP				
—	CONDUIT TURNING DOWN				
—	CONDUIT CONCEALED IN OR BELOW SLAB (OUTSIDE - UNDERGROUND)				
—	FLEXIBLE LIGHT FIXTURE WHIP, SIX FOOT MAXIMUM LENGTH				
—	METAL CLAD CABLE ASSEMBLY - ONLY WHERE INDICATED ON DWGS OR SPECS				
<b>NOTES FOR ALL CONDUITS: REFER TO PLANS FOR OTHER CONDUITS, REFER TO VENDOR DRAWINGS FOR CONDUIT AND WIRING REQUIREMENTS FOR LOW VOLTAGE SYSTEMS AND CONTROL WIRING.</b>					
<b>MULTIPLE IPH CIRCUITS MAY OCCUPY THE SAME CONDUIT IN ACCORDANCE WITH THE NEC, MAXIMUM OF THREE AND OF DIFFERENT PHASES.</b>					
<b>LOW VOLTAGE AND CONTROL WIRING SHALL BE IN SEPARATE CONDUIT FROM POWER WIRING.</b>					
<b>DISTRIBUTION EQUIPMENT</b>					
⊞	NON-FUSIBLE SAFETY SWITCH. SIZE AND TYPE AS NOTED ON PLANS (AMP/POLES/ENCLOSURE) OR ON SCHEDULE. NEMA 1 ENCLOSURE UNLESS NOTED WP FOR NEMA 3R ENCLOSURE.				6'-6"
⊞	FUSIBLE SAFETY SWITCH. SIZE AND TYPE AS NOTED ON PLANS (AMP/POLES/FUSE AMP/ENCLOSURE) OR ON SCHEDULE. NEMA 1 ENCLOSURE UNLESS NOTED WP FOR NEMA 3R.				6'-6"
—	FLUSH MOUNTED LIGHTING PANELBOARD				6'-6"
—	SURFACE MOUNTED LIGHTING PANELBOARD				6'-6"
⊞	TRANSFORMER, PROVIDE SECONDARY GROUNDING PER NEC				6'-6"
⊞	ENCLOSED CIRCUIT BREAKER. SIZE AND TYPE AS NOTED (AMPS/POLES/ENCLOSURE) NEMA 1 ENCLOSURE IF NOT NOTED, WP-NEMA 3R				6'-6"
* 6'-6" DISTANCE IS TO TOP-MOST DISCONNECTING DEVICE OR HIGHEST POSITION OF OPERATING HANDLE OF DISCONNECTING DEVICE					
<b>MISCELLANEOUS SYMBOLS</b>					
⊞	GROUND				
⊞	MOTOR				
⊞	EXHAUST FAN MOTOR				
⊞	JUNCTION BOX				
⊞	CONDUIT AND WIRE MARK NUMBER, REFER TO CONDUCTORS AND CONDUIT SCHEDULE FOR SIZE				
⊞	KITCHEN EQUIPMENT MARK NUMBER, REFER TO KITCHEN EQUIPMENT SCHEDULE FOR REQUIREMENTS				
⊞	NOTE NUMBER				
⊞	KEY OPERATED SWITCH				
<b>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.</b>					
<b>ABBREVIATIONS</b>					
AFF	ABOVE FINISHED FLOOR				
AFG	ABOVE FINISHED GRADE				
AHU	AIR HANDLING UNIT				
C	CONDUIT				
CL	CENTER-LINE				
EF	EXHAUST FAN				
FLA	FULL LOAD AMPS				
GF/GFI	GROUND FAULT CIRCUIT INTERRUPTER				
GRD/GRD	GROUND				
HT	HEIGHT				
IG	ISOLATED GRD, PROVIDE ORANGE DEVICE WHEN ADJACENT TO WIRING DEVICE				
MOCPP	MAXIMUM OVER-CURRENT PROTECTION				
MUA	MAKE UP AIR UNIT				
NEC	LOCALLY ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70)				
NL	NIGHT LIGHT (ON 24 HOURS)				
OC	ON CENTER				
POS	POINT OF SALE EQUIPMENT				
RTU	ROOF TOP UNIT				
TL	TWIST-LOCK TYPE DEVICE				
TR	TAMPER-RESISTANT				
UON	UNLESS OTHERWISE NOTED				
WP	WEATHERPROOF (NEMA 3R)				
<b>TELEPHONE</b>					
⊞	TELEPHONE OUTLET				18" UON
⊞	TELEPHONE OUTLET AT SPECIAL MOUNTING HEIGHT				60" UON
<b>NOTE: EACH TELEPHONE OUTLET (FLOOR OR WALL MOUNTED) SHALL BE PROVIDED WITH A 3/4" EMPTY CONDUIT, WITH PULL WIRE, TO ACCESSIBLE CEILING SPACE.</b>					
<b>CCTV / SECURITY SYSTEM</b>					
⊞	CLOSED CIRCUIT TELEVISION CAMERA				
⊞	SECURITY ALARM KEYPAD				
⊞	SECURITY ALARM HOLD-UP BUTTON				
⊞	SECURITY SYSTEM KEY NOTE				
<b>8" METAL STUD WALL</b>					
<b>CONDUIT WITH CONDUCTORS IN WALL</b>					
<b>CONDUCTORS IN THE PIN &amp; SLEEVE WIRING AND DEVICE COMPARTMENT (PROVIDE SUFFICIENT SLACK IN CABLES)</b>					
<b>FRYER'S CORDSET KELLUM SUPPORT BRACKETS TO SUPPORT THE CORDSET</b>					
<b>RECESSED PIN AND SLEEVE BOX PROVIDED BY THE OWNER'S EXHAUST HOOD SUPPLIER AND INSTALLED BY CONTRACTOR</b>					
<b>EXHAUST HOOD RE-MECHANICAL</b>					
<b>WIRING COMPARTMENT IS ACCESSIBLE VIA THIS DEVICE PLATE</b>					
<b>SERVING</b>					
<b>KITCHEN</b>					
<b>3 PIN &amp; SLEEVE BOX DETAIL</b>					
NO SCALE					



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**FSR#01765**  
 BUILDING TYPE / SIZE: S03C  
 RELEASE: v12.20

**REVISION SCHEDULE**

NO.	DATE	DESCRIPTION
1	02/04/22	Owner Revisions

CONSULTANT PROJECT # 21124.HF.R  
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SHEET SCHEDULES AND DETAILS

SHEET NUMBER

CONSTRUCTION

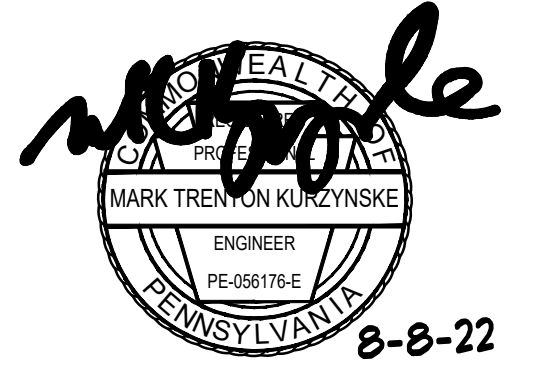




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8-8-22

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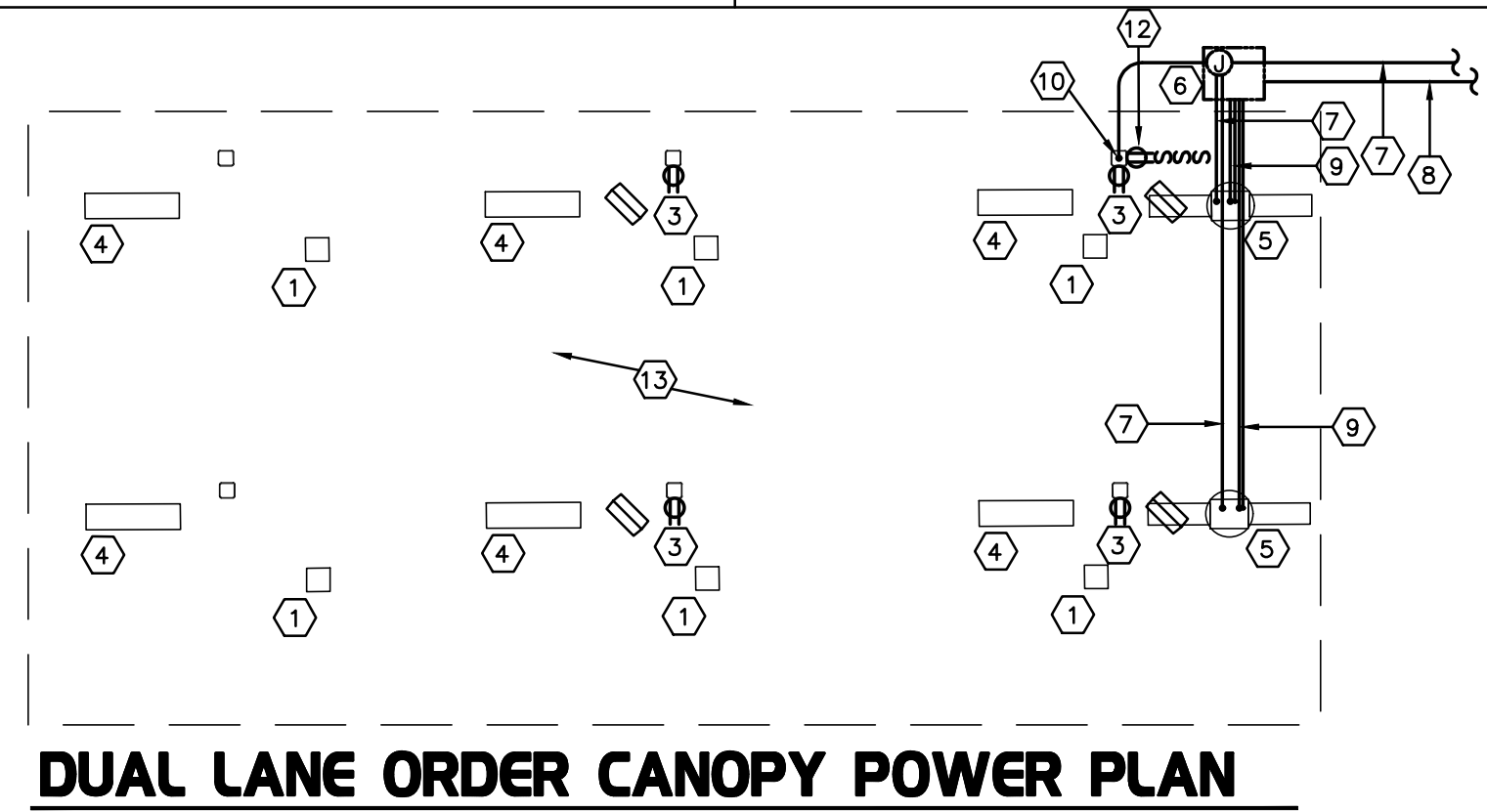
SHEET CANOPY PLANS AND DETAILS

SHEET NUMBER

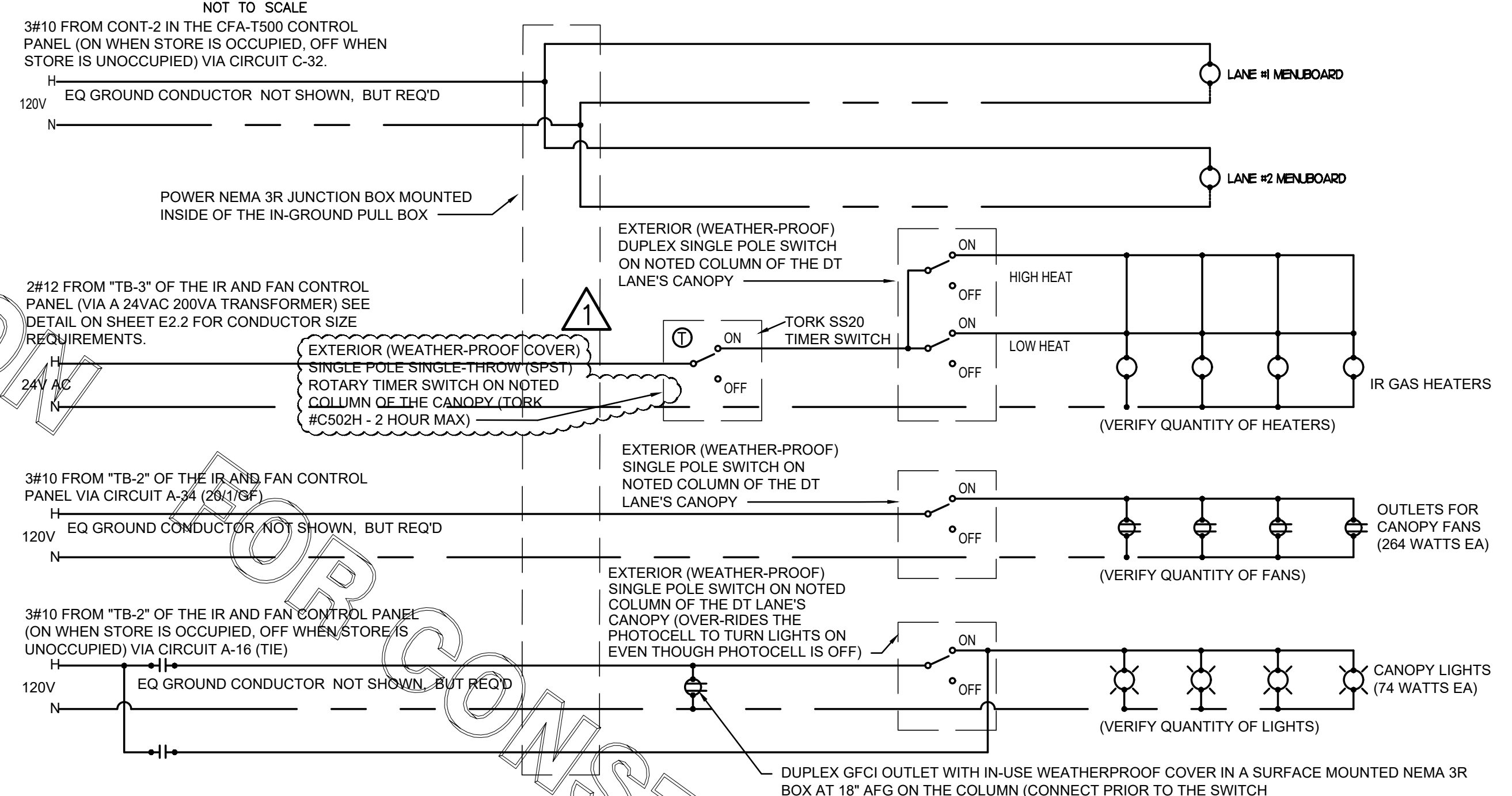
**E1.3**

- ELECTRICAL KEYNOTES (NEW ORDER POINTS):**
- CEILING LIGHT PROVIDED BY CANOPY SUPPLIER AND INSTALLED BY E.C.
  - NOT USED.
  - AIR CIRCULATING FAN (WITH INTEGRAL ON-OFF SWITCH) PROVIDED BY OTHERS. PROVIDE A DUPLEX OUTLET (WITH IN-USE WP COVER PLATE) FLUSH MTD. IN CUT-OUT FOR FAN'S PLUG & CORD. LOCATE CUT-OUT AT TOP OF COLUMN ON DOWNSTREAM SIDE.
  - INFRARED GAS HEATER WITH INTEGRAL ON-OFF SWITCH PROVIDED BY OTHERS.
  - MENUBOARD PROVIDED BY OTHERS.
  - PROVIDE IN-GROUND QUAZITE PULLBOX FOR MLOP DATA CABLES WITH POWER NEMA 3R JUNCTION BOX MOUNTED INSIDE THE PULLBOX.
  - 2" UNDERGROUND SCH40 PVC CONDUIT WITH POWER CONDUCTORS, SEE WIRING SCHEMATIC.
  - TWO 2" EMPTY UNDERGROUND SCH40 PVC CONDUIT, ONE 2" FOR OWNER'S AUDIO SYSTEM DETECTOR LOOP CABLES AND ONE 2" FOR OWNER'S DIGITAL MENUBOARD CABLES.
  - 1" EMPTY UNDERGROUND SCH40 PVC CONDUIT FOR OWNER'S AUDIO SYSTEM DETECTOR LOOP CABLES AND 2" EMPTY UNDERGROUND SCH40 PVC CONDUIT FOR OWNER'S DIGITAL MENUBOARD CABLES.
  - 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, AND 24 VOLT POWER FOR THE INFRARED GAS HEATERS.
  - NOT USED.
  - 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, 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.
  - 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 DETAILS OF MOUNTING CONDUIT ON THE ROOF OF THE CANOPY. ALL EXPOSED ELECTRICAL BOXES TO BE NEMA 3R CAST-METAL.

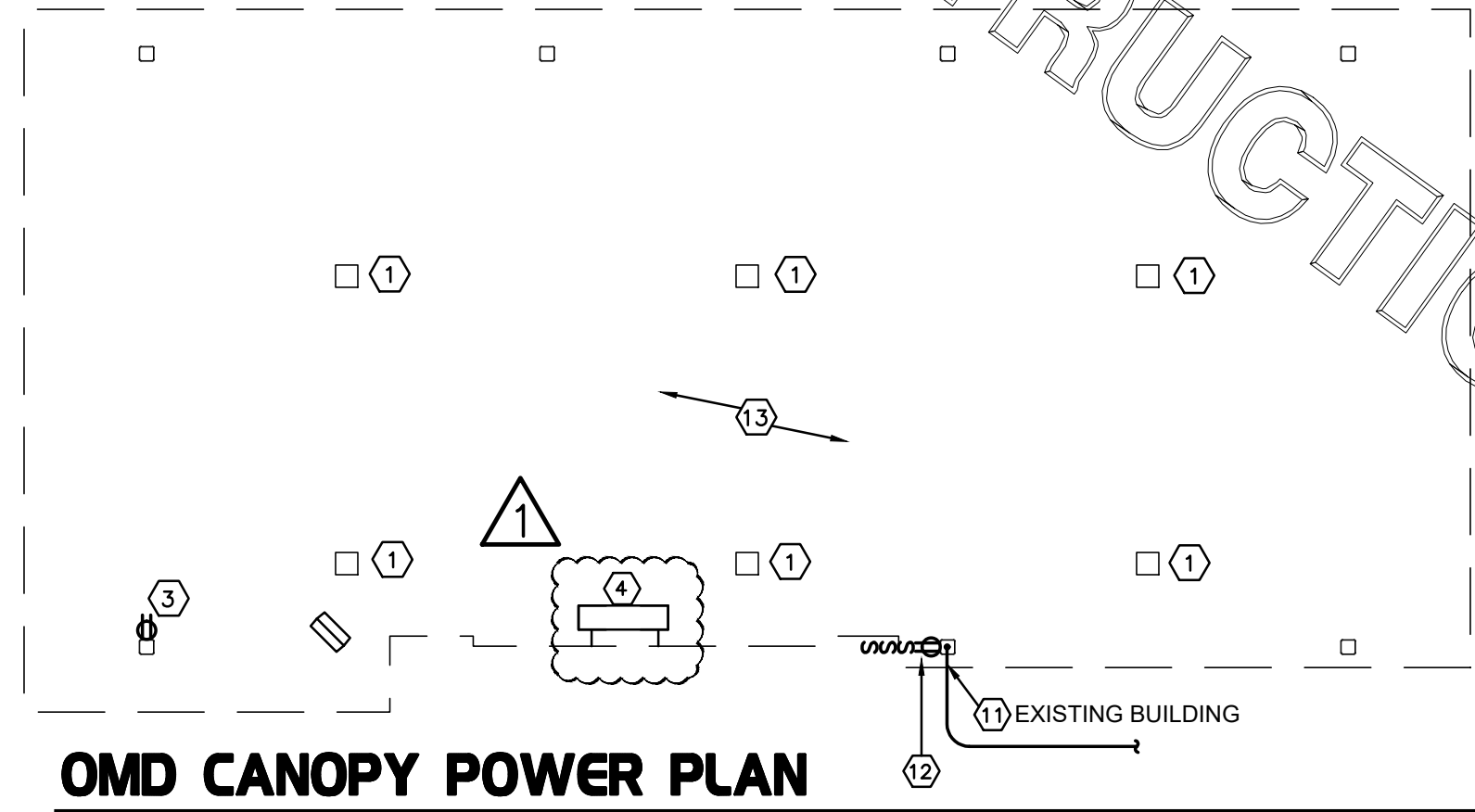
- ELECTRICAL KEYNOTES (OMD CANOPY):**
- CEILING LIGHT PROVIDED BY CANOPY SUPPLIER AND INSTALLED BY E.C.
  - NOT USED.
  - AIR CIRCULATING FAN (WITH INTEGRAL ON-OFF SWITCH) PROVIDED BY OTHERS. PROVIDE A DUPLEX OUTLET (WITH IN-USE WP COVER PLATE) FLUSH MTD. IN CUT-OUT FOR FAN'S PLUG & CORD. LOCATE CUT-OUT AT TOP OF COLUMN ON DOWNSTREAM SIDE.
  - SEE SHEET E-202 FOR INFORMATION RELATED TO WALL MTD ELECTRIC HEATED ABOVE DT DOOR.
  - THRU (9) NOT USED.
  - NOT USED.
  - AT EXISTING BUILDINGS STUB A 3" CHASE THRU THE EXTERIOR WALL FROM THE CEILING SPACE ABOVE THE KITCHEN TO ABOVE THE CANOPY'S COLUMN FOR THE MC CABLE POWER CIRCUITS TO GO THRU THE COLUMN MOUNTED SWITCHES AND OUTLET.
  - 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, 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.
  - 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 DETAILS OF MOUNTING CONDUIT ON THE ROOF OF THE CANOPY. ALL EXPOSED ELECTRICAL BOXES TO BE NEMA 3R CAST-METAL.



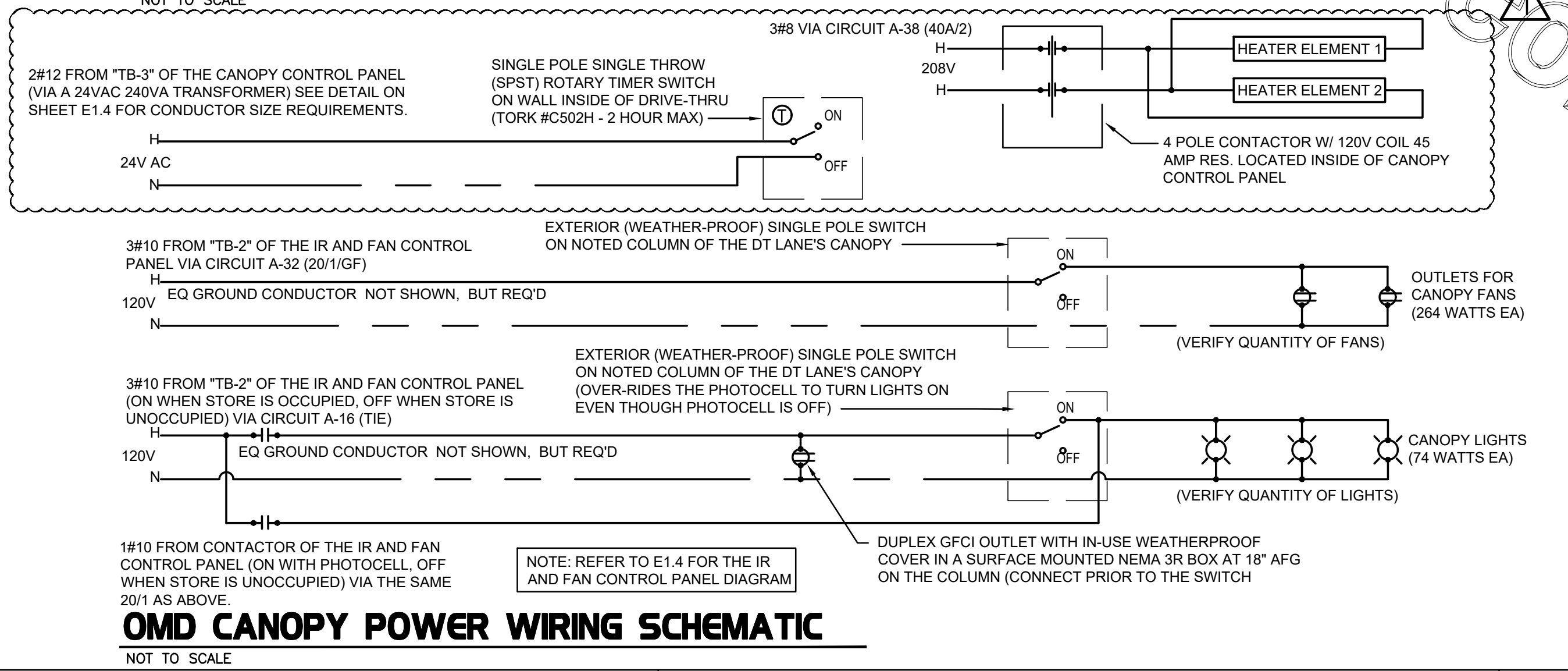
**DUAL LANE ORDER CANOPY POWER PLAN**  
 NOT TO SCALE



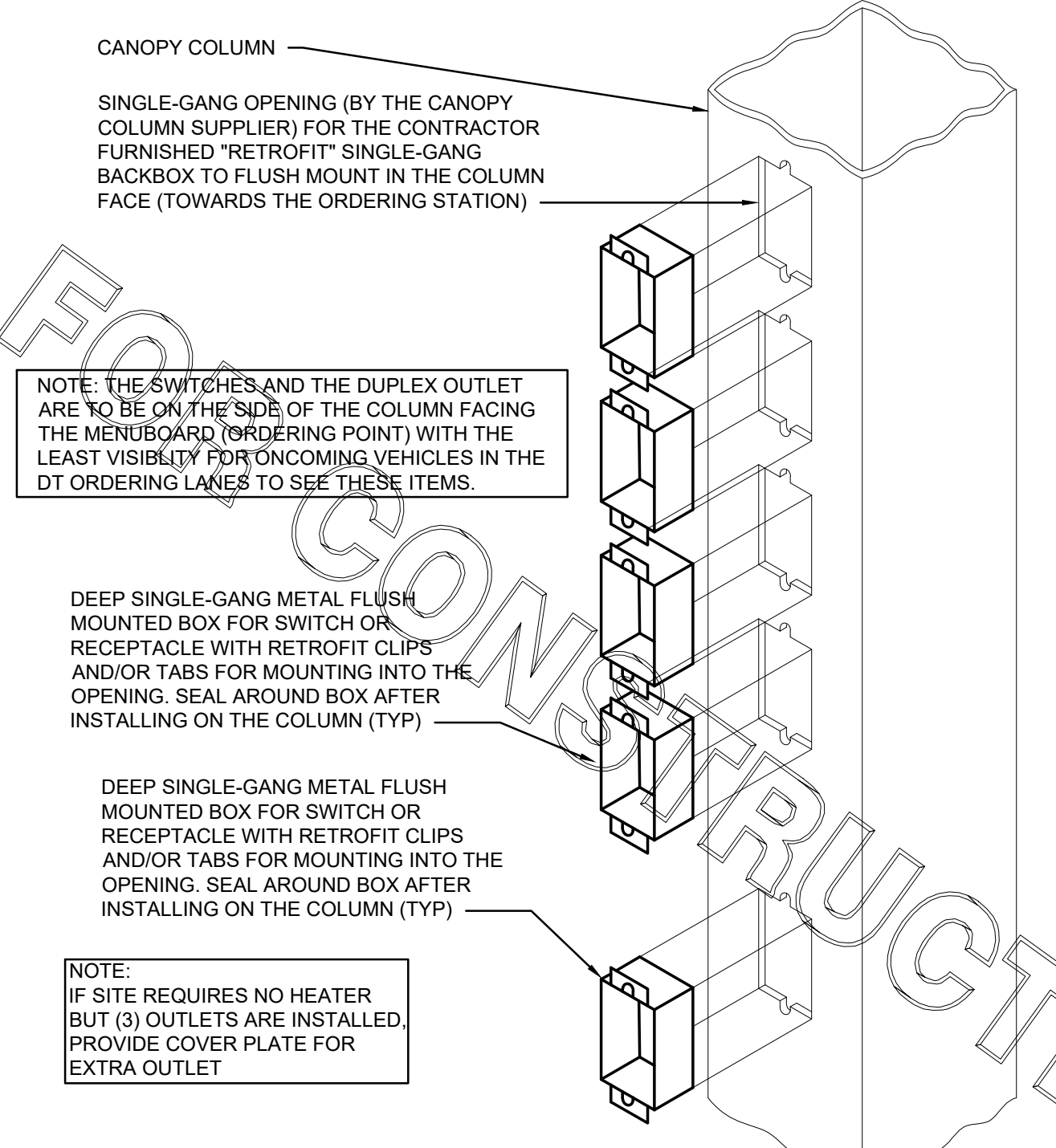
**ORDER CANOPY POWER WIRING SCHEMATIC**  
 NOT TO SCALE



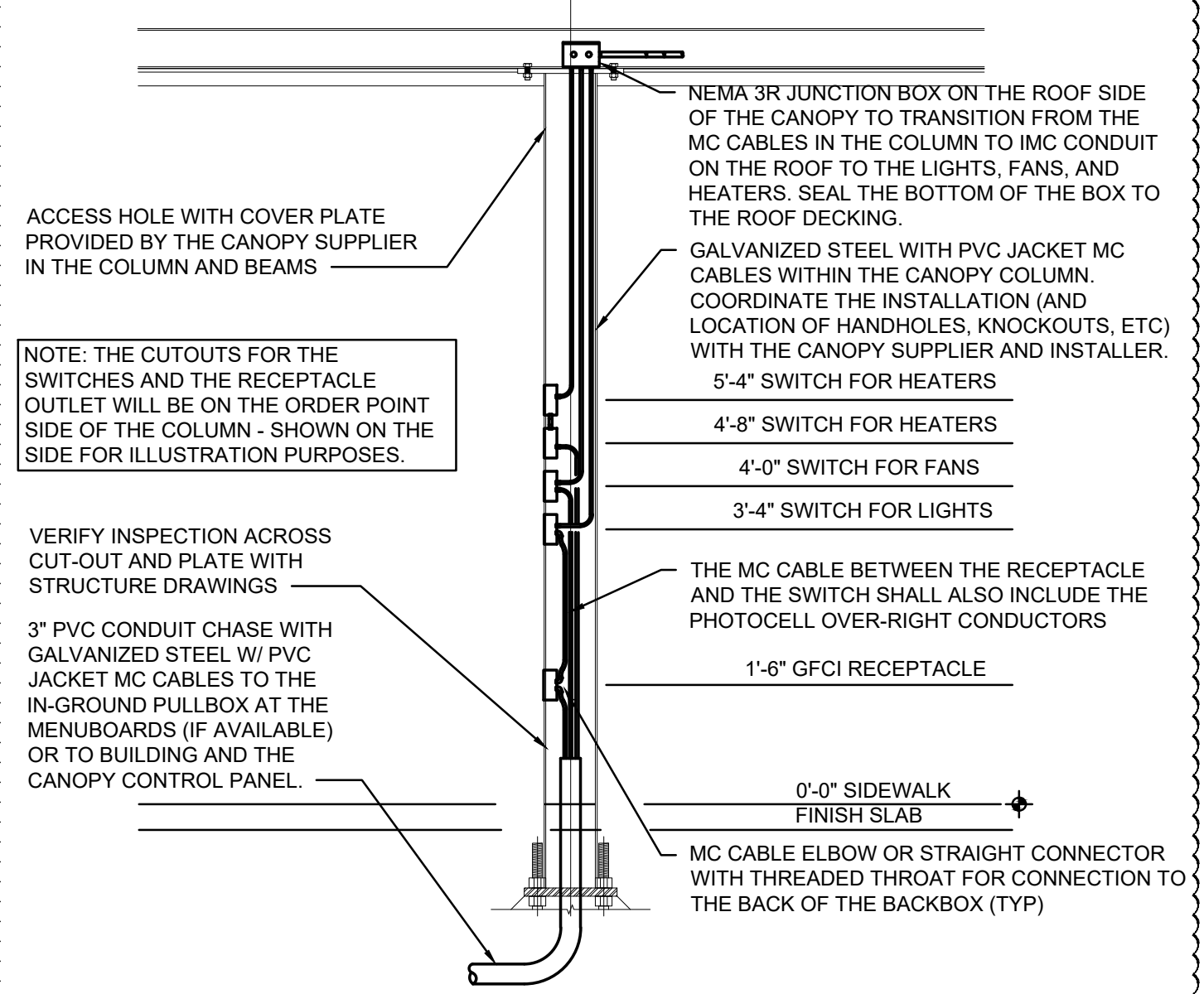
**OMD CANOPY POWER PLAN**  
 NOT TO SCALE



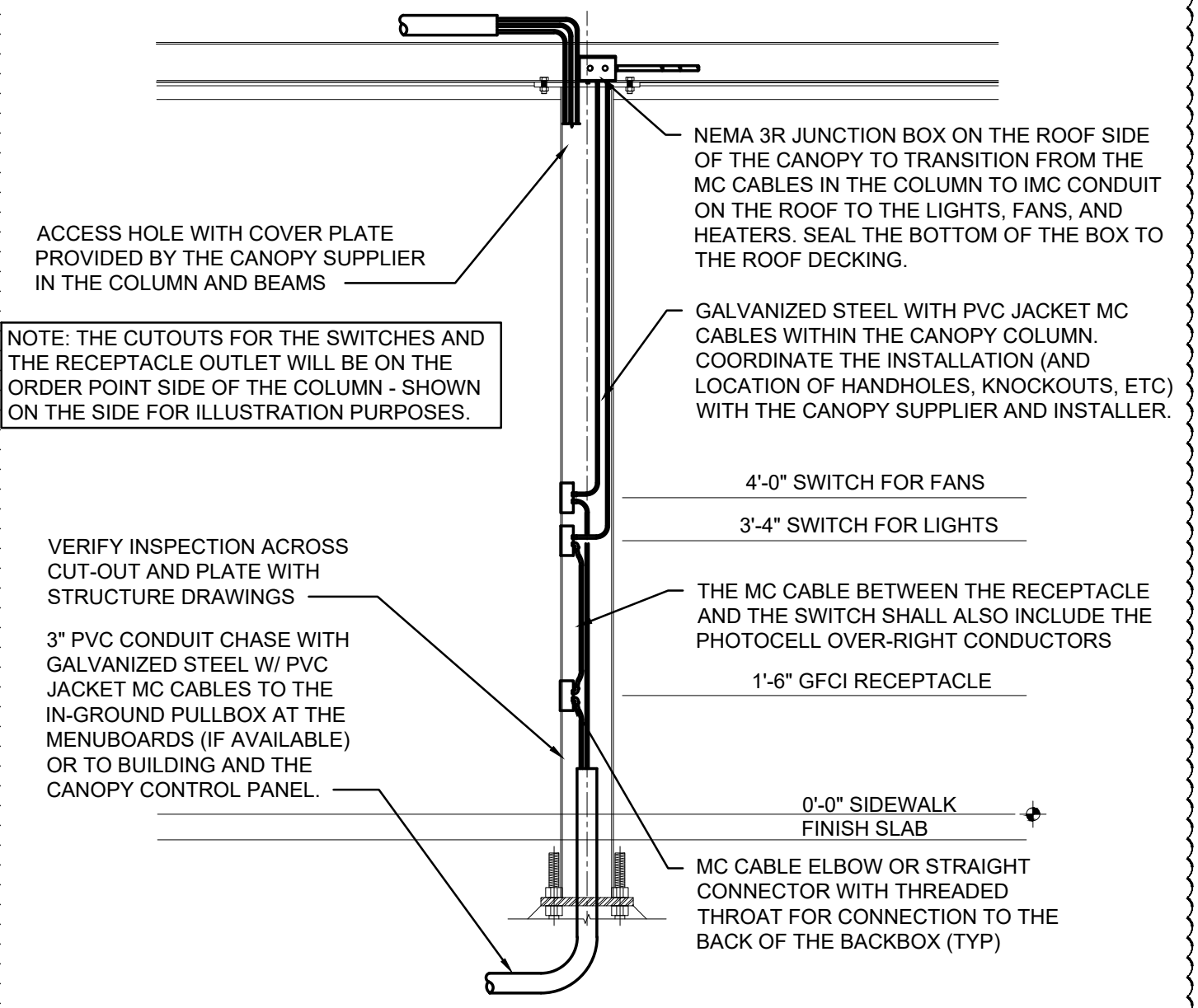
**OMD CANOPY POWER WIRING SCHEMATIC**  
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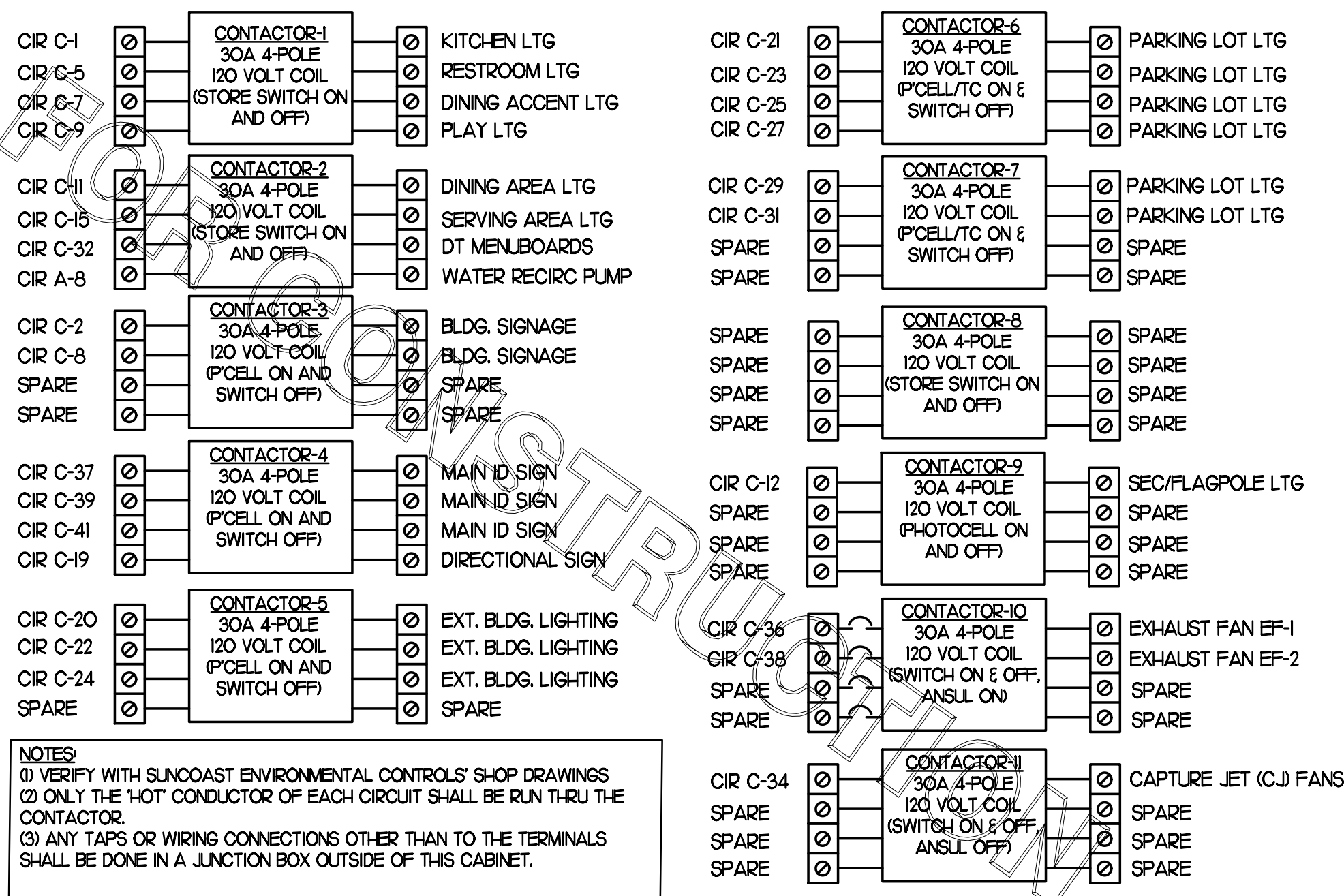
**CANOPY COLUMN ISOMETRIC**  
 NOT TO SCALE



**ORDER CANOPY COLUMN SECTION**  
 NOT TO SCALE

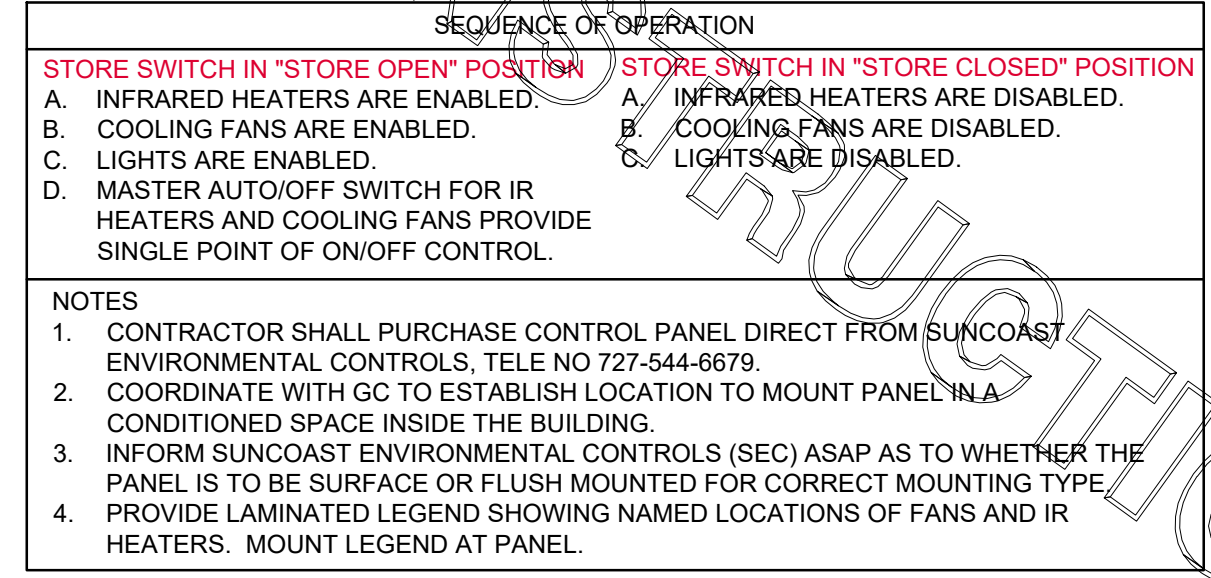
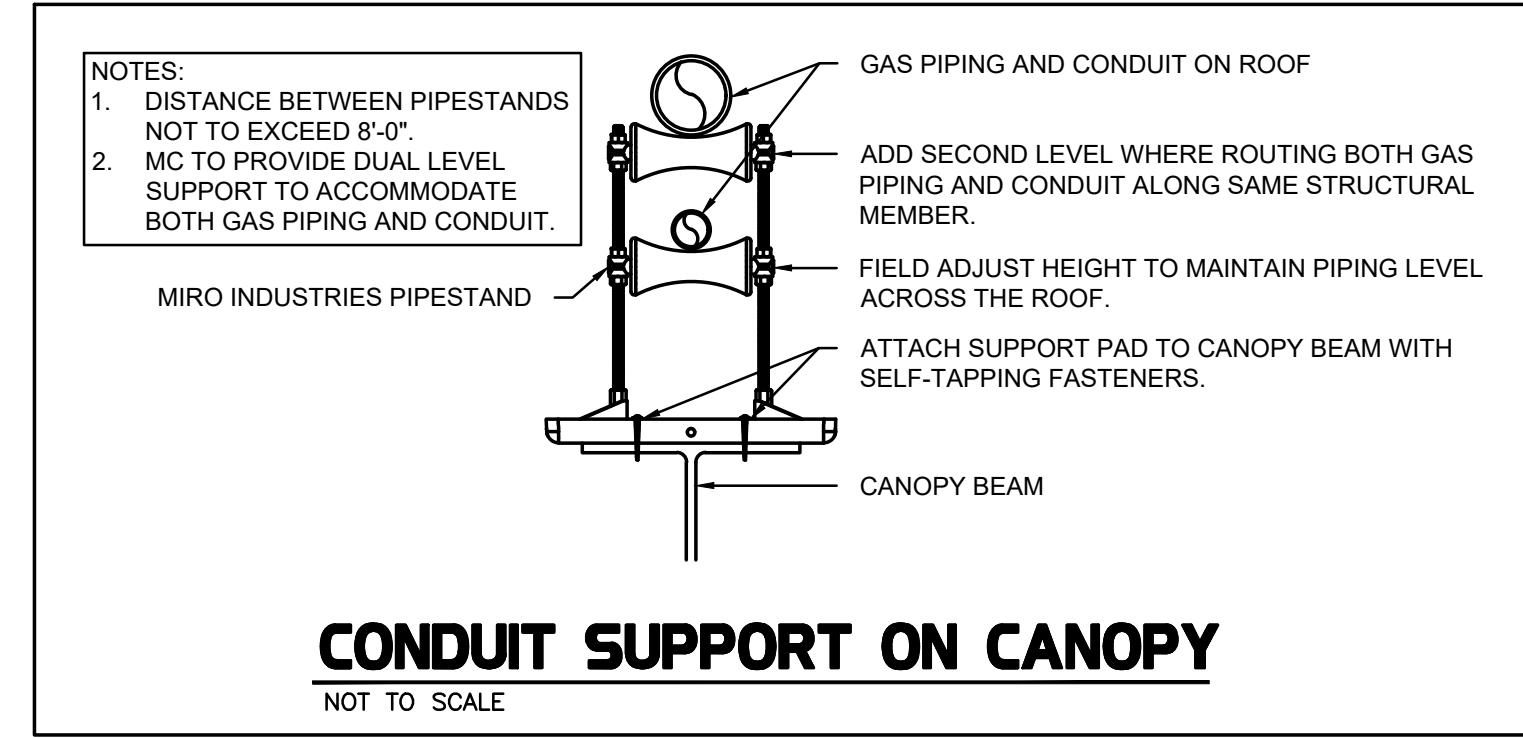
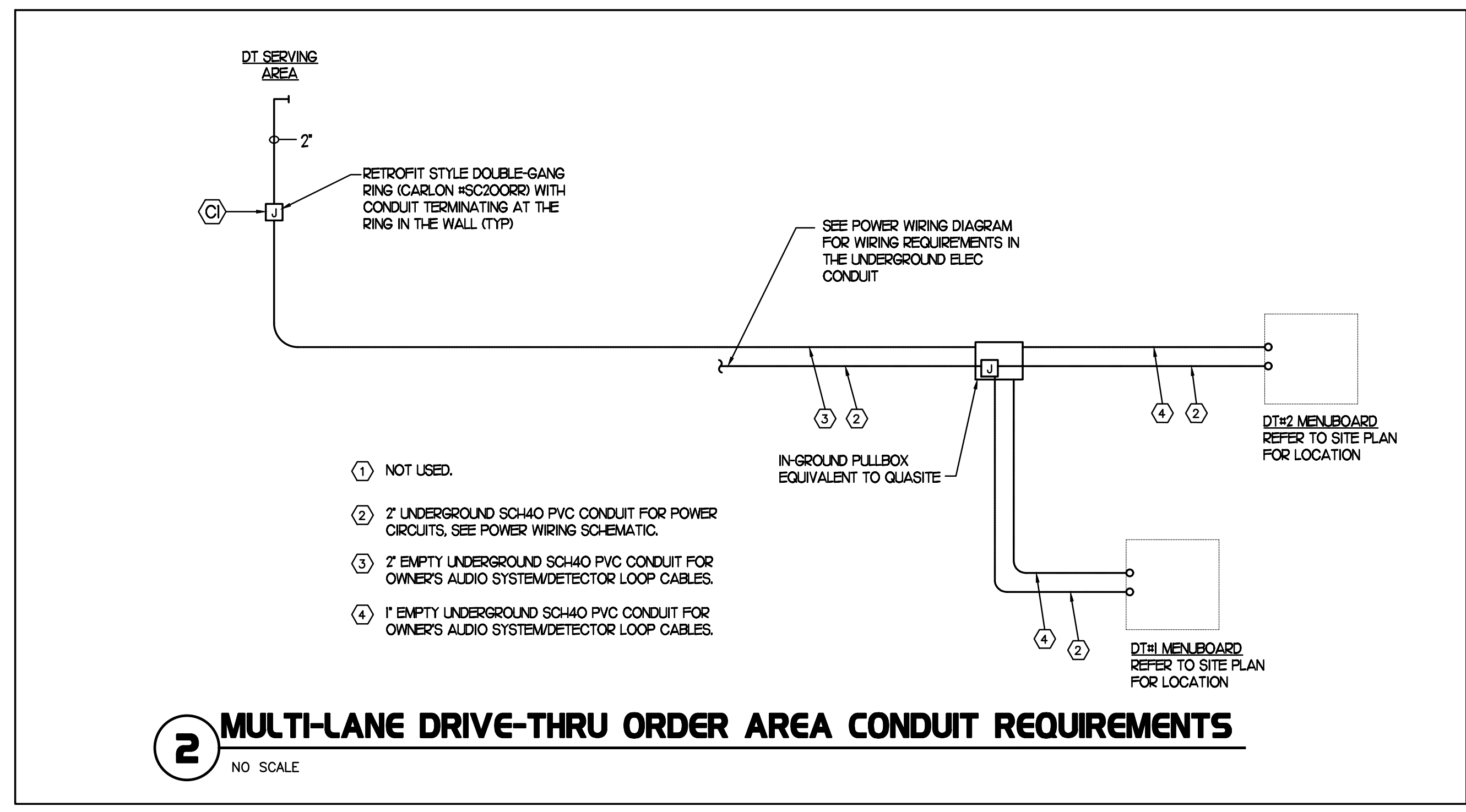


**OMD CANOPY COLUMN SECTION**  
 NOT TO SCALE



**NOTES:**  
 (1) VERIFY WITH SUNCOAST ENVIRONMENTAL CONTROLS SHOP DRAWINGS  
 (2) ONLY THE HOT CONDUCTOR OF EACH CIRCUIT SHALL BE RUN THRU THE CONTACTOR.  
 (3) ANY TAPS OR WIRING CONNECTIONS OTHER THAN TO THE TERMINALS SHALL BE DONE IN A JUNCTION BOX OUTSIDE OF THIS CABINET.

**CFA T-500 CONTROL PANEL CONNECTION DIAGRAM**



**IMPORTANT:**  
 WHEN HEATERS ARE PROVIDED ON THE CANOPIES AND THE 200VA XFMR IS WITHIN THIS CONTROL PANEL, CHANGE OUT 2 AMP CIRCUIT BREAKER IN THE EXISTING CFA-T500 SEC BUILDING CONTROL PANEL LOCATED IN THE OFFICE TO A 6 AMP CIRCUIT BREAKER. THE BREAKER IS LOCATED IN THE UPPER HALF OF THE CFA-T500 PANEL IMMEDIATELY TO THE RIGHT OF THE PHOTOCELL CONTROLLER. FAILURE TO DO SO WILL CAUSE THE CONTROL CIRCUIT BREAKER TO TRIP.

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. FOR LOCATIONS WITH AN EXISTING BUILDING CFA-T500 REFER TO THE WIRING DIAGRAM IN THE EXISTING CFA-T500 SUNCOAST PANEL LOCATED IN OFFICE FOR REFERENCE.

**LEGEND**

S.E.C.	SUNCOAST ENVIRONMENTAL CONTROLS (SUPPLIER OF TEMP/FAN CONTROL PANELS)
MC	MECHANICAL CONTRACTOR
EC	ELECTRICAL CONTRACTOR
---	LOW VOLTAGE BY MECHANICAL CONTRACTOR
---	18 GA. MIN LOW VOLTAGE WIRING BY SUNCOAST
---	120 VOLT BY ELECTRICAL CONTRACTOR
---	120 VOLT BY SUNCOAST

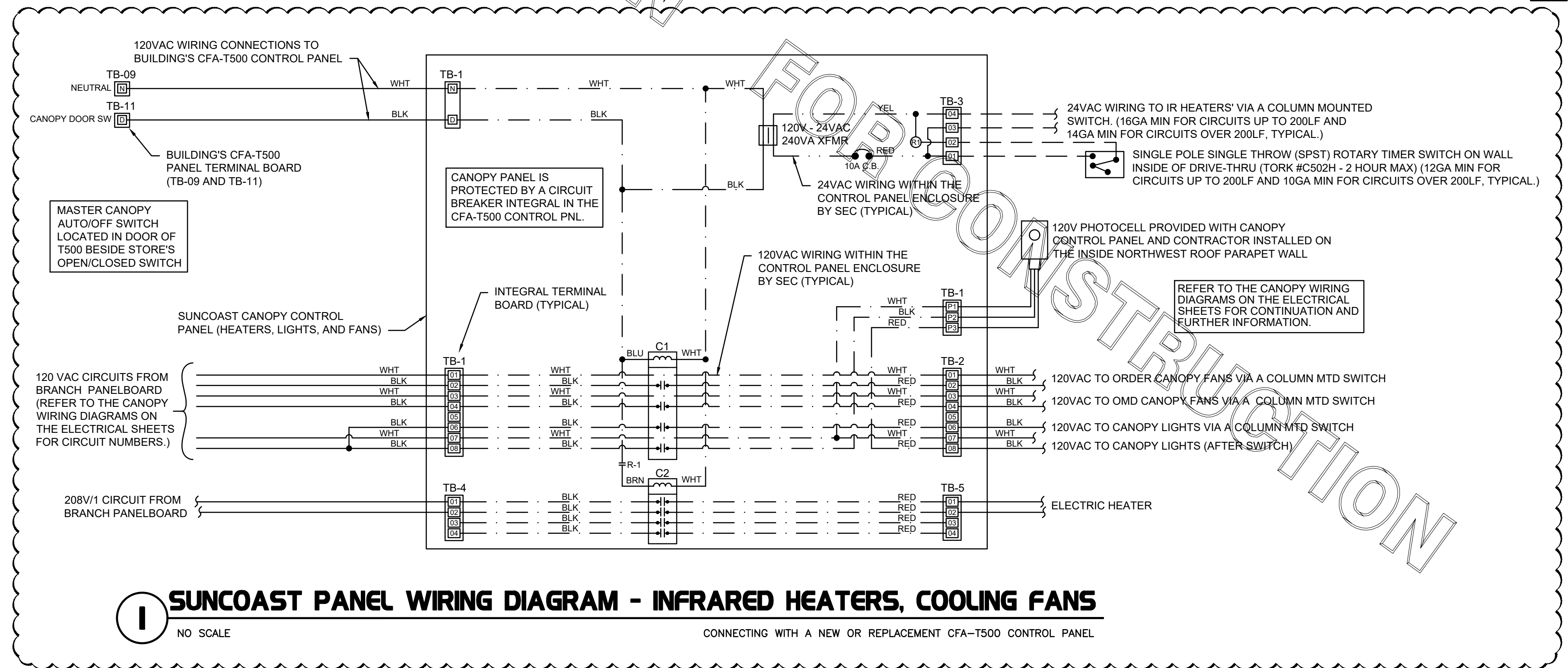
**LABELING:**  
 PROVIDE ENGRAVED LABEL AT SWITCHES WITH 1/2" HIGH WHITE LETTERS ON BLACK BACKGROUND IDENTIFYING UNIT SERVED.

**CIRCULATING FAN SCHEDULE**

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

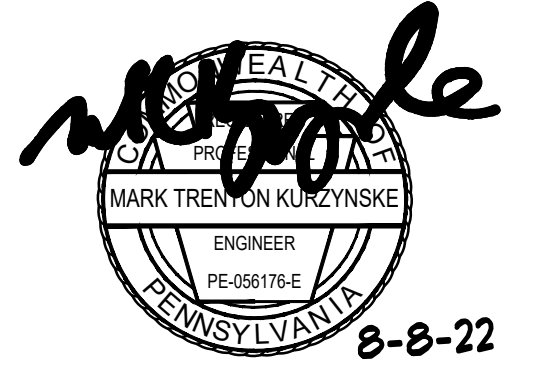
REMARKS:  
 1. ALUMINUM PADDLE WITH STEEL HUB/SPIDER PROPELLER.  
 2. 360° ROTATING HEAD HORIZONTALLY AND VERTICALLY.  
 3. OSHA COMPLIANT DOUBLE LOCKING, COATED STEEL WIRE GUARD  
 4. 3-SPEED, TOTALLY ENCLOSED, PERMANENTLY LUBRICATED BALL BEARING MOTOR.  
 5. FACTORY PRE-WIPED POWER CORD.  
 6. PROVIDE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

**NATIONAL ACCOUNTS**  
 1. TPI FAN PACKAGE - THE MECHANICAL 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.



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**FSR#01765**  
 BUILDING TYPE / SIZE: S03C  
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**REVISION SCHEDULE**

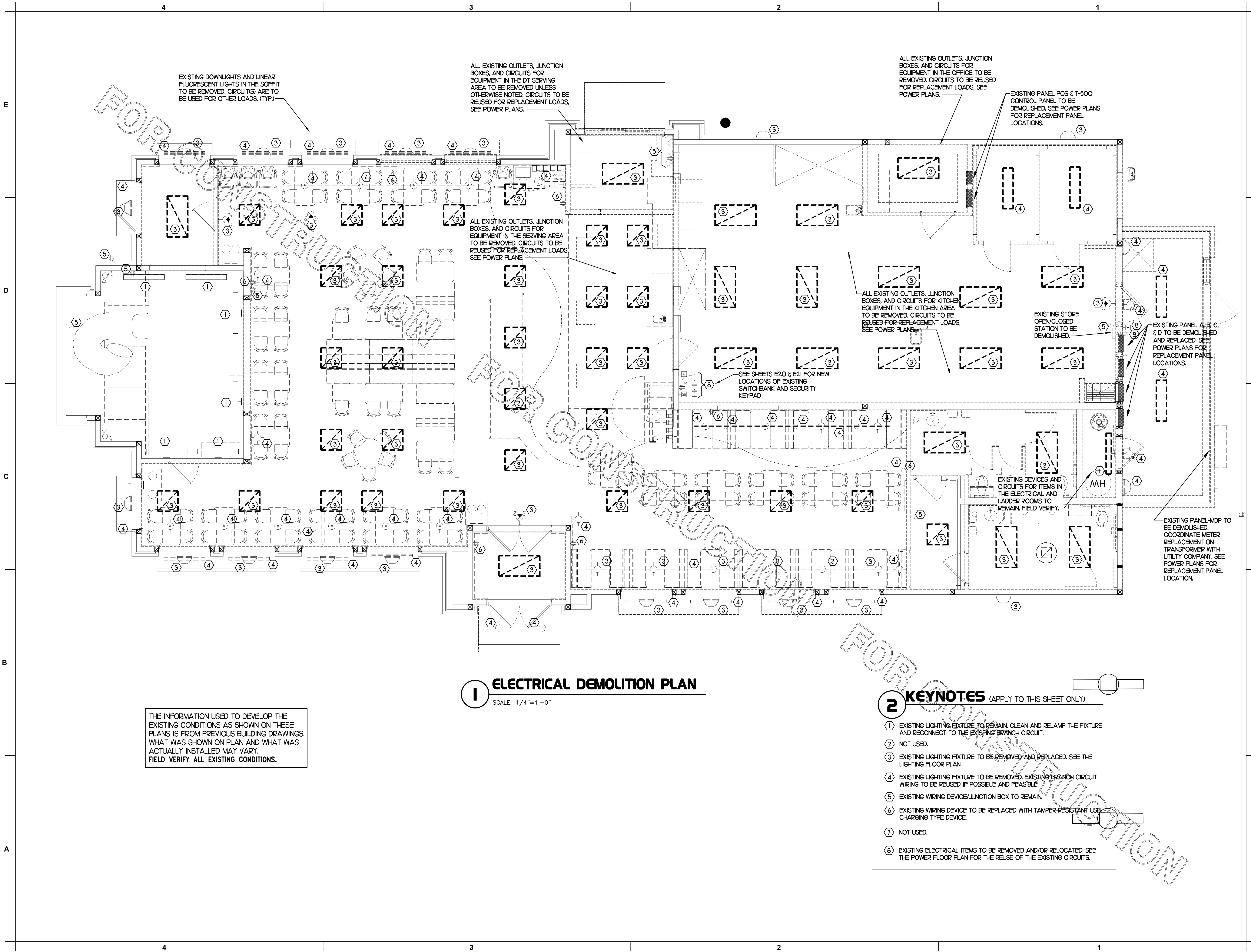
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SHEET ORDER CANOPY CONTROL PANEL

SHEET NUMBER



EXISTING DOWNLIGHTS AND LINEAR FLUORESCENT LIGHTS IN THE SOFFIT TO BE REMOVED. CIRCUITS ARE TO BE USED FOR OTHER LOADS. (TYP)

ALL EXISTING OUTLETS, JUNCTION BOXES, AND CIRCUITS FOR EQUIPMENT IN THE DT SERVING AREA TO BE REMOVED UNLESS OTHERWISE NOTED. CIRCUITS TO BE REUSED FOR REPLACEMENT LOADS. SEE POWER PLANS.

ALL EXISTING OUTLETS, JUNCTION BOXES, AND CIRCUITS FOR EQUIPMENT IN THE OFFICE TO BE REMOVED. CIRCUITS TO BE REUSED FOR REPLACEMENT LOADS. SEE POWER PLANS.

EXISTING PANEL, POS & T-500 CONTROL PANEL TO BE DEMOLISHED. SEE POWER PLANS FOR REPLACEMENT PANEL LOCATIONS.

ALL EXISTING OUTLETS, JUNCTION BOXES, AND CIRCUITS FOR EQUIPMENT IN THE SERVING AREA TO BE REMOVED. CIRCUITS TO BE REUSED FOR REPLACEMENT LOADS. SEE POWER PLANS.

ALL EXISTING OUTLETS, JUNCTION BOXES, AND CIRCUITS FOR KITCHEN EQUIPMENT IN THE KITCHEN AREA TO BE REMOVED. CIRCUITS TO BE REUSED FOR REPLACEMENT LOADS. SEE POWER PLANS.

SEE SHEETS E20 & E21 FOR NEW LOCATIONS OF EXISTING SWITCHBANK AND SECURITY KEYPAD

EXISTING STORE OPEN/CLOSED STATION TO BE DEMOLISHED.

EXISTING PANEL A, B, C, & D TO BE DEMOLISHED AND REPLACED. SEE POWER PLANS FOR REPLACEMENT PANEL LOCATIONS.

EXISTING DEVICES AND CIRCUITS FOR ITEMS IN THE ELECTRICAL AND LADDER ROOMS TO REMAIN. FIELD VERIFY.

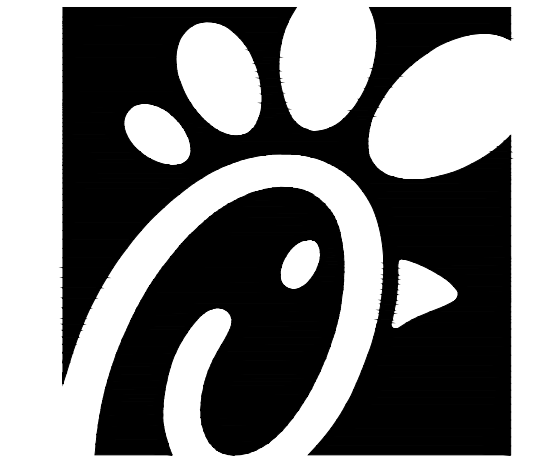
EXISTING PANEL-MDP TO BE DEMOLISHED. COORDINATE METER REPLACEMENT ON TRANSFORMER WITH UTILITY COMPANY. SEE POWER PLANS FOR REPLACEMENT PANEL LOCATION.

**1 ELECTRICAL DEMOLITION PLAN**  
SCALE: 1/4"=1'-0"

THE INFORMATION USED TO DEVELOP THE EXISTING CONDITIONS AS SHOWN ON THESE PLANS IS FROM PREVIOUS BUILDING DRAWINGS. WHAT WAS SHOWN ON PLAN AND WHAT WAS ACTUALLY INSTALLED MAY VARY. FIELD VERIFY ALL EXISTING CONDITIONS.

**2 KEYNOTES (APPLY TO THIS SHEET ONLY)**

- 1 EXISTING LIGHTING FIXTURE TO REMAIN. CLEAN AND RELAMP THE FIXTURE AND RECONNECT TO THE EXISTING BRANCH CIRCUIT.
- 2 NOT USED.
- 3 EXISTING LIGHTING FIXTURE TO BE REMOVED AND REPLACED. SEE THE LIGHTING FLOOR PLAN.
- 4 EXISTING LIGHTING FIXTURE TO BE REMOVED. EXISTING BRANCH CIRCUIT WIRING TO BE REUSED IF POSSIBLE AND FEASIBLE.
- 5 EXISTING WIRING DEVICE/JUNCTION BOX TO REMAIN.
- 6 EXISTING WIRING DEVICE TO BE REPLACED WITH TAMPER-RESISTANT USB CHARGING TYPE DEVICE.
- 7 NOT USED.
- 8 EXISTING ELECTRICAL ITEMS TO BE REMOVED AND/OR RELOCATED. SEE THE POWER FLOOR PLAN FOR THE REUSE OF THE EXISTING CIRCUITS.

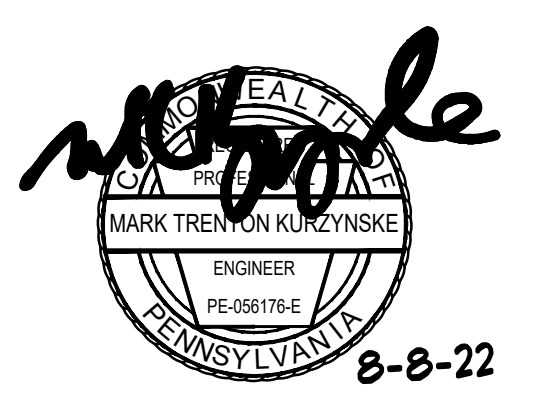


Chick-fil-A

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**FSR#01765**

BUILDING TYPE / SIZE: S03C  
RELEASE: v12.20

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

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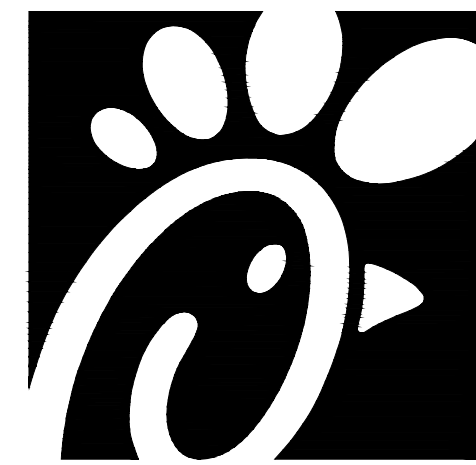
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SHEET ELECTRICAL DEMOLITION PLAN

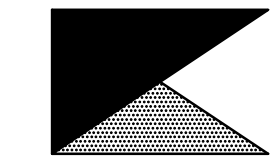
SHEET NUMBER

**E2.0**

CONSTRUCTION



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8-8-22

**CHICK-FIL-A**  
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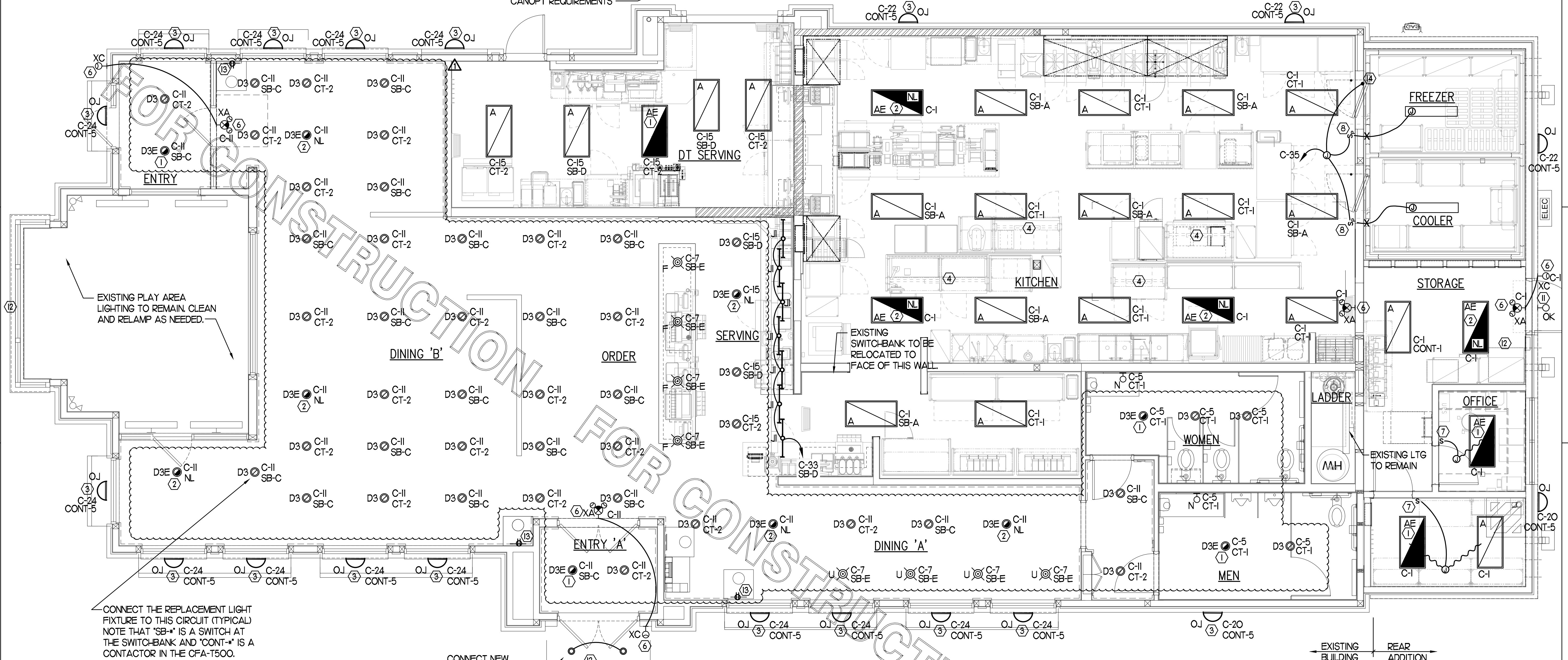
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SHEET LIGHTING PLAN

SHEET NUMBER

**E2.1**

SEE SHEETS EI.3 FOR CANOPY REQUIREMENTS



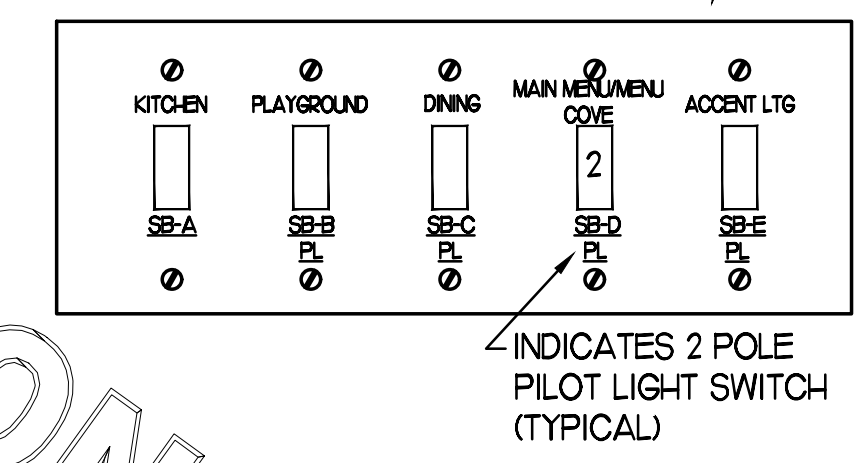
**1 LIGHTING PLAN**  
SCALE: 1/4" = 1'-0"

- 3 KEYNOTES (APPLY TO THIS SHEET ONLY)**
- CONNECT FIXTURE SO THAT BATTERY PACK IS NOT SWITCHED WITH LIGHTS, BUT ALL LAMPS ARE SWITCHED.
  - CONNECT FIXTURE SO THAT LAMP BALLAST AND EMERGENCY BALLAST ARE NOT SWITCHED. 'NL' ADJACENT TO FIXTURE INDICATES THAT FIXTURE SHALL BE ON 24 HOURS.
  - THE EXISTING EXTERIOR WALL-MOUNTED FIXTURE TO BE REPLACED. CONNECT REPLACEMENT TO THE EXISTING CIRCUIT.
  - PROVIDE A TYPE B1 LIGHT FIXTURE. MOUNT TO THE UNDERSIDE OF THE WIRE SHELVING. PROVIDE FLEX CONDUIT AND CONNECT 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.
  - NOT USED.
  - CONNECT FIXTURE TO CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS. THIS FIXTURE SHALL NOT BE SWITCHED.
  - PROVIDE A WALL SWITCH LINE VOLTAGE OCCUPANCY SENSOR EQUIVALENT TO SENSOR SWITCH #WSD-WH
  - PILOT LIGHT SWITCH FOR CONTROL OF THE LIGHT INSIDE THE WIC OR WIF UNIT. PROVIDE CONDUIT SEAL-OFF FITTINGS FOR ALL CONDUIT PENETRATIONS THRU THE FREEZER'S WALL. LED LIGHT FURNISHED WITH THE UNIT BY THE EQUIPMENT SUPPLIER.
  - NOT USED.
  - COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR THE AIMING OF THE TYPE K2 FIXTURES TOWARDS THE ARTWORK ON THE WALL.
  - CONNECT THE 'OK' FIXTURE TO C-12 VIA THE EXISTING DUSK-TO-DAWN CIRCUIT IN THE CFA-T500.
  - COORDINATE CONNECTION OF REPLACEMENT SIGNAGE TO EXISTING CKT.
  - PROVIDE TAMPER-RESISTANT DUPLEX RECEPTACLE AT STANDARD HEIGHT FOR FUTURE COMPACTING TRASH CAN ON A DEDICATED 20 AMP CIRCUIT. USE CIRCUITS C-3, C-10, C-13, & C-43.
  - TO WALK-IN DOOR FRAME HEATER AND AIR RELIEF ASSEMBLY. J-BOX TO BE ABOVE THE UNIT AND EXTEND DOWN ALONG THE FRONT AT 9'-6" AFF TO HEATER, AIR RELIEF VALVE ASSEMBLY, AND LIGHT SWITCHES.
  - PROVIDE DUPLEX RECEPTACLE (SEE ELEVATIONS FOR MTG HT) IN AN ARLINGTON #DVP2W DOUBLE-GANG RECESSED BOX FOR THE FLY SYSTEM ITEM #2IC. CL. OF BOX AT 7'-1" AND CONNECT OUTLET TO CIRCUIT B-3L.

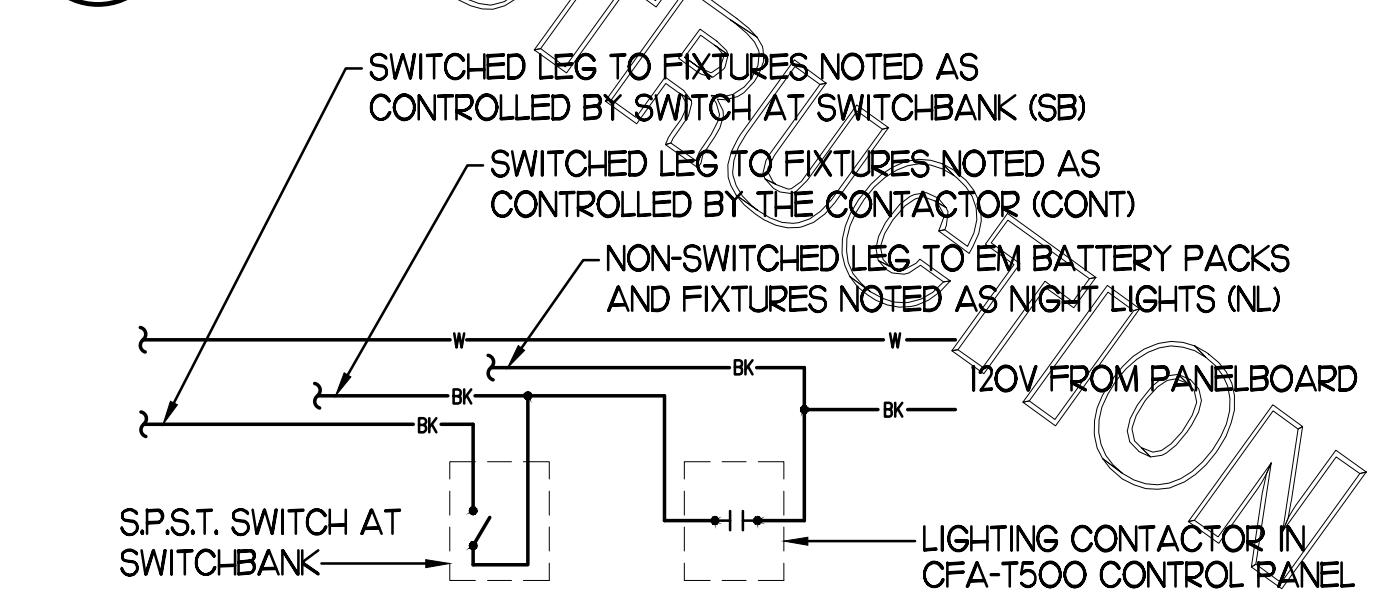
**2 LIGHTING FIXTURE (LUMINAIRE) SCHEDULE - CHICK-FIL-A REMODEL Store #1765**

MARK	MANUFACTURER	CATALOG NUMBER	NO. LAMPS/TYPE	WATTS	VOLTS	MOUNTING	REMARKS
A	COOPER/METALLUX	24FP6440C	INTEGRAL WITH FIXTURE	59.4	120	RECESSED	KITCHEN AREA, 2'x4' LED PANEL TROFFER, 4000K COLOR TEMP
AE	COOPER/METALLUX	24FP6440C-EL14W	INTEGRAL WITH FIXTURE	59.4	120	RECESSED	SAME AS 'A' WITH EMERGENCY BATTERY PACK. SEE PLAN NOTES ABOUT LAMP SWITCHING
B1	METALLUX	2V13-LD5-UNV-L840-CD1-SSL-U	INTEGRAL WITH FIXTURE	32	120	SURFACE	MOUNT LIGHT TO BTM OF OVERHEAD WIRE SHELVING WITH CORD & PLUG
D3	COOPER/HALO	HC6-20-D010-HM6-12-830-61-ND-C	INTEGRAL WITH FIXTURE	21.1	120	RECESSED	PUBLIC AREA, 6" DIAMETER LED DOWNLIGHT
D3E	COOPER/HALO	HC6-20-D010-EMV14-HM6-12-830-61-ND-C	INTEGRAL WITH FIXTURE	21.1	120	RECESSED	SAME AS 'D3' WITH EMERGENCY BATTERY PACK
F	MEYDA	30894-B (144638)	1-SATS9238	12	120	CEILING	EGG LIGHT FURNISHED WITH A 12 WATT A19-GU24 LED LAMP
J1	COOPER/METALLUX	SSF-132-UNV-EB81-U	1-F028/835/XP/SS/ECO	28	120	COVE	MOUNT IN MENUBOARD COVE AND PROVIDE TUBE GUARDS ON LAMPS
N	MINKA	4531-267B	1-LED11A19/827/D	11	120	WALL	LAVATORY WALL SCONCE-SHADE POINTED DOWN W/ LED LAMP & CL ON LAVATORY
U	BESA LIGHTING	BES00298-060	FURNISHED	7.5	120	PENDANT	MONO-POINT PENDANT, RED FRIT GLASS, BRONZE CABLE & CANOPY, 6"-6" AFF
XA	COOPER/SURE-LITES	APCH7R	INTEGRAL WITH FIXTURE	4.11	120	WALL	EXIT SIGN WITH BATTERY PACK AND TWO INTEGRAL ADJUSTABLE LAMPHEADS
XC	MULE LTG	MAKO-LED-ACEM-NK-IH	INTEGRAL WITH FIXTURE	13	120	WALL	EXTERIOR WALL MOUNTED EMERGENCY LIGHTING UNIT, LOCATE NEAR EGRESS DOOR
OJ	SECURITY LTG	RWSC-72L-3K-UD-U-DB	FURNISHED	25	120	WALL	UP/DOWN LED EXTERIOR WALL SCONCE, SEE ELEVATIONS FOR MOUNTING HEIGHT
OK	HUBBELL	LWC-SLU-3K-3-1	FURNISHED	12.9	120	WALL	LED WALLPACK W/ CENTERLINE OF FIXTURE AT 8'-0" ABV 0'-0" (FINISH FLOOR LINE)

NOTES:  
1. LUMINAIRES UTILIZING DOUBLE-ENDED LAMPS AND CONTAIN BALLASTS THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS EITHER INTERNAL OF EXTERNAL TO EACH LUMINAIRE PER NEC 410.130(C).  
2. THE LIGHTING FIXTURE PACKAGE IS AVAILABLE THROUGH A NATIONAL ACCOUNT PROGRAM. REFER TO THE ELECTRICAL SPECIFICATIONS SHEET, SECTION C16500 FOR VENDOR INFORMATION.  
3. THE ASTERISK (\*) BESIDE THE FIXTURE MARK IN THE ABOVE SCHEDULE INDICATES THE FIXTURE IS A NON-PROTOTYPAL LIGHT FIXTURE PER THE CFA NATIONAL P12 PROTOTYPE.



**4 EXISTING SWITCH BANK "SB" DETAIL**  
NO SCALE



**5 TYPICAL LIGHTING CONTROL DETAIL**  
NO SCALE

EXISTING SWITCH-BANK TO BE MODIFIED AS REQUIRED. FIELD VERIFY THE EXISTING SWITCHES AND REMOVE ANY THAT ARE NOT USED AND PROVIDE BLANK INSERT IN THE TOGGLE OPENING

FOR CONSTRUCTION



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8-B-22

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**FSR#01765**

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RELEASE: V12.20

REVISION SCHEDULE		
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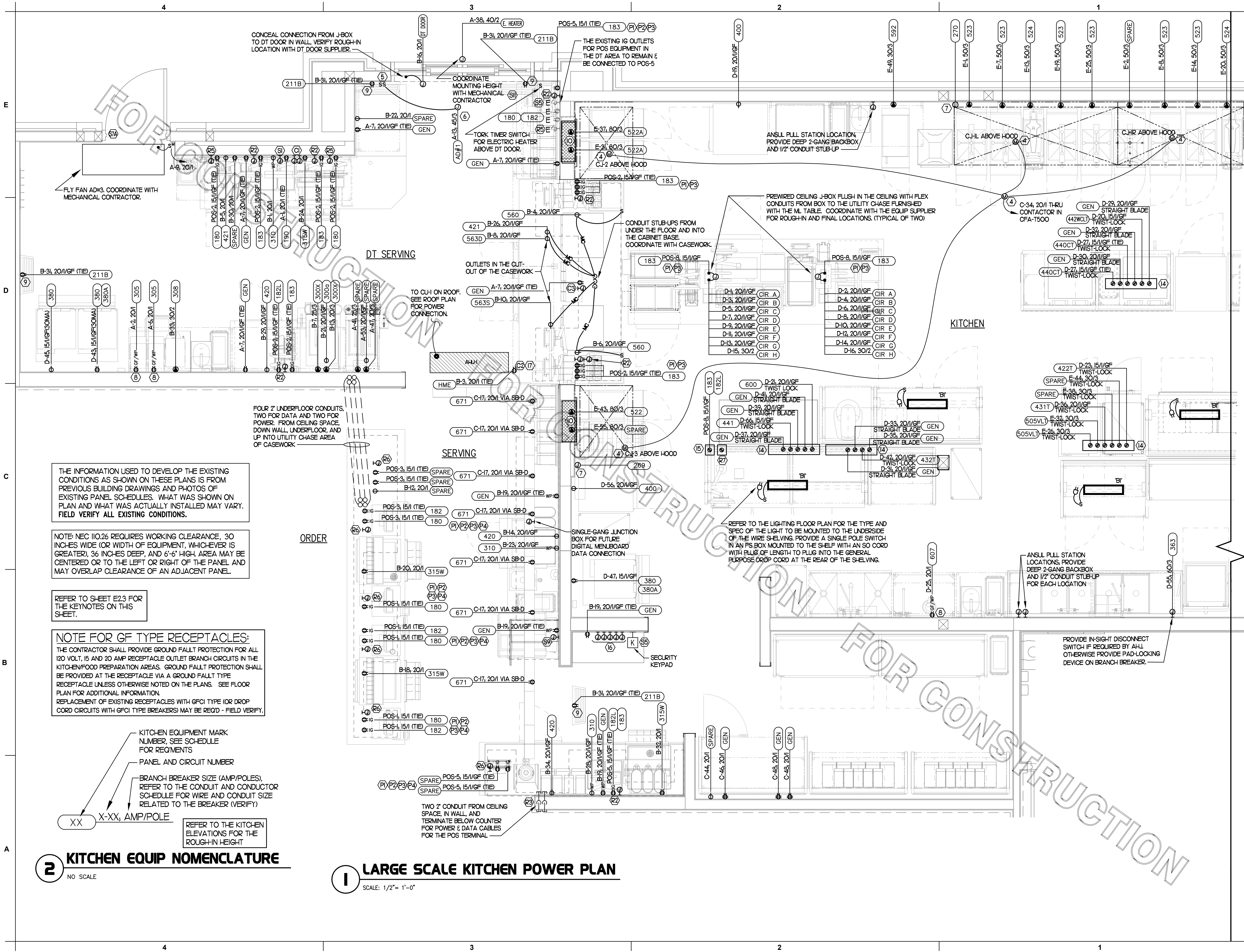
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SHEET  
LARGE SCALE KITCHEN  
POWER

SHEET NUMBER

**E.2.2**



THE INFORMATION USED TO DEVELOP THE EXISTING CONDITIONS AS SHOWN ON THESE PLANS IS FROM PREVIOUS BUILDING DRAWINGS AND PHOTOS OF EXISTING PANEL SCHEDULES. WHAT WAS SHOWN ON PLAN AND WHAT WAS ACTUALLY INSTALLED MAY VARY. FIELD VERIFY ALL EXISTING CONDITIONS.

NOTE: NEC 110.26 REQUIRES WORKING CLEARANCE, 30 INCHES WIDE (OR WIDTH OF EQUIPMENT, WHICHEVER IS GREATER), 36 INCHES DEEP, AND 6'-6" HIGH. AREA MAY BE CENTERED OR TO THE LEFT OR RIGHT OF THE PANEL AND MAY OVERLAP CLEARANCE OF AN ADJACENT PANEL.

REFER TO SHEET E2.3 FOR THE KEYNOTES ON THIS SHEET.

**NOTE FOR GF TYPE RECEPTACLES:**  
THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL 120 VOLT, 15 AND 20 AMP RECEPTACLE OUTLET BRANCH CIRCUITS IN THE KITCHEN/FOOD PREPARATION AREAS. GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE RECEPTACLE VIA A GROUND FAULT TYPE RECEPTACLE UNLESS OTHERWISE NOTED ON THE PLANS. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.  
REPLACEMENT OF EXISTING RECEPTACLES WITH GFCI TYPE (OR DROP CORD CIRCUITS WITH GFCI TYPE BREAKERS) MAY BE REQ'D - FIELD VERIFY.

KITCHEN EQUIPMENT MARK NUMBER, SEE SCHEDULE FOR COMMENTS  
PANEL AND CIRCUIT NUMBER  
BRANCH BREAKER SIZE (AMP/POLES), REFER TO THE CONDUIT AND CONDUCTOR SCHEDULE FOR WIRE AND CONDUIT SIZE RELATED TO THE BREAKER (VERIFY)  
XX X-XX, AMP/POLE  
REFER TO THE KITCHEN ELEVATIONS FOR THE ROUGH-IN HEIGHT

**2 KITCHEN EQUIP NOMENCLATURE**  
NO SCALE

**1 LARGE SCALE KITCHEN POWER PLAN**  
SCALE: 1/2" = 1'-0"

CONSTRUCTION

### 3 KEY NOTES - POWER:

- 1 CONNECT EVAPORATOR UNIT IN FREEZER TO FREEZER CONDENSING UNIT CONTROLS LOCATED ON ROOF. SEE ROOF POWER PLAN.
- 2 CONNECT EVAPORATOR UNIT IN COOLER TO COOLER CONDENSING UNIT CONTROLS LOCATED ON ROOF. SEE ROOF POWER PLAN.
- 3 NOT USED.
- 4 CONNECT AS REQUIRED TO CJ FAN VIA SPEED CONTROLLER. CONNECT HOMERUN VIA RELAY IN T-500 CONTROL SECTION.
- 5 PROVIDE DOUBLE GANG BOX AND DOUBLE GANG DECORA PLATE FOR SWITCHES.
- 6 PROVIDE A JUNCTION BOX ABOVE CEILING FOR THE AIR DOOR ABOVE THE DT SLIDING DOOR. COORDINATE WITH THE MECHANICAL DRAWINGS AND WITH THE UNIT'S SUPPLIER FOR THE ROUGH-IN REQUIREMENTS AND ANY CONTROL WIRING.
- 7 PROVIDE 3#12 IN 1/2" CONDUIT BETWEEN THE T-500 CONTROL PANEL AND THE ANSUL SYSTEM PANEL. SEE ANSUL SYSTEM WIRING DIAGRAM FOR ADDITIONAL INFORMATION.
- 8 PROVIDE GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE RECEPTACLE IN COMPLIANCE WITH THE NEC REQUIREMENT FOR KITCHENS. IF NOT NOTED AS GFCI, THEN THE BREAKER IS TO BE GFCI TYPE.
- 9 PROVIDE DUPLEX RECEPTACLE (SEE ELEVATIONS FOR MTG HT) IN AN ARLINGTON #0VFR2W DOUBLE-GANG RECESSED BOX FOR THE FLY SYSTEM ITEMS. DO NOT CUT THE CORDSET FURNISHED WITH THE UNIT, BUT COIL THE CORD ON THE BACK OF THE UNIT AND TUCK INTO THE BACKBOX.
- 10 THE OUTLETS FOR THE OPEN FRYERS (ITEM #522) ARE FURNISHED BY THE EXHAUST HOOD SUPPLIER AND INSTALLED BY THE CONTRACTOR.
- 11 TWO 2" TELEPHONE SERVICE ENTRANCE CONDUIT(S), AND ONE 3" ISP SERVICE CONDUIT. EXTEND WITH FULL STRING FROM THE J-BOX TO THE UTILITY SOURCE. INSTALL IN THE SAME TRENCH AS THE NEW SECONDARY ELECTRICAL SERVICE CONDUITS.
- 12 LOCKABLE SINGLE POLE SWITCH SHALL SERVE AS THE LOCAL "IN-SIGHT" MEANS OF DISCONNECT FOR EQUIPMENT ITEM AS NOTED. THE SWITCH SHALL BE COOPER #S2983 AND INSTALLED PER THE DETAILS ON SHEET E12.
- 13 PROVIDE TWO 6H X 6W X 4D J-BOXES (ONE FOR TELEPHONE AND ONE FOR ISP) AT 6'-6" AFF AND EXTEND A 2" CONDUIT WITH FULL STRING FROM EACH J-BOX INTO THE ACCESSIBLE CEILING SPACE. PROVIDE A 36" X 36" X 3/4" PLYWOOD BACKBOARD ON THE WALL ABOVE THE J-BOXES (AT THE CEILING) FOR USE BY THE ISP. PROVIDE A COPPER GROUND BAR AT THE BOTTOM OF THE BACKBOARD WITH A #6 AWG INSULATED CU GROUNDING CONDUCTOR IN A 3/4" CONDUIT FROM THE GROUND BAR TO THE BUILDING'S 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 (5A/1P BRANCH BREAKER), AND LABEL THE RECEPTACLE "FOR FIBER TO CABLE MODEM USE ONLY".
- 14 OVER-HEAD EQUIPMENT POWER (OEP) DROP CORD RECEPTACLES FROM A FLUSH MOUNTED CEILING OEP BOX. 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 TWIST-LOCK PLUGS. CONTACT BRIGID DEFRANCOSHI EMAIL: BRIGID1985@GMAIL.COM (800-639-7584) TO PURCHASE OEP BOX AND DROP CORD RECEPTACLES. PROVIDE LIQUID-TIGHT CONDUIT WITH CONDUCTORS FOR DIRECT CONNECTED EQUIPMENT. CONDUIT SHALL NOT TOUCH THE FLOOR WHEN EQUIPMENT IS IN PLACE. USE SUPPORT GRIPS W/ SUPPORT HOOK ATTACHED TO SHELVING ABOVE AS NEEDED. PASS & SEYMOUR MODEL #FS075-U-GH-5 OR EQUIVALENT.
- 15 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 OUTLET BACK BOX) AND CONNECT THE CORD TO AN OUTLET BOX CONTAINING TWO 15 AMP IG (ORANGE) RECEPTACLE OUTLETS. OUTLET BOX TO BE MOUNTED TO THE OVER-HEAD SHELVING AT THE PRINTER AND MONITOR MOUNTING BRACKET.
- 16 PROVIDE FIVE 2-GANG DEEP BOXES (2" MIN) FOR INSTALLATION OF DUCT DETECTOR REMOTE ANNUNCIATORS BY MECHANICAL. THE DUCT SMOKE REMOTE ANNUNCIATORS ARE PROVIDED TO THE ELECTRICIAN WITH THE SUNCOAST ELECTRONICS PACKAGE OF GEAR AND CONTROLS. EXTEND 1/2" CONDUIT FROM EACH BOX AND STUB ABOVE CEILING.
- 17 RELOCATE EXISTING POWER AND CABLE CONNECTIONS FOR THE WIRELESS COMM (HME) SYSTEM TO THIS LOCATION (FIELD VERIFY) SEE HME UNITS DETAIL ON SHEET E24.

### 5 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 BUSHINGS 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.

### 6 KEY NOTES - COMMUNICATIONS:

- 1 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.
- 2 PROVIDE JUNCTION BOX, LESS COVER PLATE, AND EXTEND 3/4" E.C. UP IN WALL TO ABOVE CEILING FOR INSTALLATION OF WIRELESS COMMUNICATION CONTROL UNIT.
- 3 PROVIDE SINGLE-GANG JUNCTION BOX ABOVE THE PASS THRU OPENING WITH A 1" EMPTY CONDUIT STUBBED UP INTO THE ACCESSIBLE CEILING SPACE FOR OWNER'S TV CABLES.
- 4 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.

### 9 KEY NOTES - POS:

- 1 PROVIDE ORANGE ISOLATED GROUND (IG) DUPLEX RECEPTACLE.
- 2 PROVIDE GROUND FAULT PROTECTION FOR THESE DEVICES VIA A GROUND FAULT CIRCUIT BREAKER IF LOCAL CODE DEFINES THIS A FOOD PREPARATION AREA.
- 3 USE TYPE MC CABLE FOR THE ISOLATED GROUND CIRCUIT: #12 HOT, NEUTRAL, GREEN GROUND, STRIPED ISO GRD. EACH ISIA HOMERUN SHALL BE DEDICATED TO A CIRCUIT BREAKER VIA DEDICATED CONDUCTORS WITHIN A CABLE ASSEMBLY. ALL MC CABLES SHALL BE RUN OVER-HEAD ABOVE THE CEILING AND RACKED TOGETHER ON J-HOOKS. NO SPLICES IN ANY HOMERUN CABLES FROM FIRST RECEPTACLE TO BREAKER.
- 4 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.

### 4 KEY NOTES - SECURITY:

- 1 PROVIDE SINGLE GANG JUNCTION BOX AND STAINLESS STEEL COVER PLATE WITH 7/8" HOLE IN CENTER. EXTEND 1" E.C. UP IN WALL TO ABOVE ACCESSIBLE CEILING.
- 2 PROVIDE 4" W X 4" H X 3" D FLUSH JUNCTION BOX WITHOUT COVERPLATE. EXTEND 2" RIGID CONDUIT UP TO ABOVE ACCESSIBLE OFFICE CEILING AREA AND PROVIDE BUSHING ON CONDUIT END.
- 3 PROVIDE A 4" W X 4" H X 3" D JUNCTION BOX WITHOUT COVERPLATE AND EXTEND A 2" CONDUIT DOWN 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 1/2" CONDUIT DOWN TO A SECOND SINGLE-GANG JUNCTION BOX AT THE CCTV MONITOR LOCATION.
- 4 PROVIDE TWO GANG WEATHER-PROOF JUNCTION BOX AND STAINLESS STEEL PLATE WITH 7/8" HOLE IN CENTER FOR PANIC BUTTON. MOUNT AT 48" AFF, EXTEND 1/2" RIGID CONDUIT UP TO ABOVE ACCESSIBLE CEILING WITH CONDUIT SEAL FITTING. SEAL CONDUIT PENETRATION AT WIC/WIF CEILING.
- 5 PROVIDE SINGLE GANG BOX WITHOUT COVER PLATE. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING AND TURN TOWARD SERVING AREA SIDE OF WALL.
- 6 PROVIDE SINGLE GANG JUNCTION BOX ON INSIDE FACE OF PARAPET WALL APPROX. 1/2" BELOW TOP OF PARAPET WALL. EXTEND 1/2" CONDUIT DOWN TO ABOVE ACCESSIBLE OFFICE CEILING.
- 7 EXTEND 1/2" RIGID CONDUIT FROM TOP OF STRIKE-SIDE DOOR FRAME CHANNEL TO ABOVE ACCESSIBLE CEILING.
- 8 EXTEND 3/4" RIGID CONDUIT FROM TOP OF STRIKE-SIDE DOOR FRAME CHANNEL TO ABOVE ACCESSIBLE CEILING.
- 9 EXTEND 1/2" RIGID CONDUIT FROM A POINT 3" WITHIN EITHER HINGE-SIDE DOOR VERTICAL FRAME MULLION TO ABOVE ACCESSIBLE CEILING.
- 10 PROVIDE SINGLE GANG JUNCTION BOX WITHOUT COVERPLATE. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING AND TURN TOWARD SERVING AREA SIDE OF WALL.
- 11 PROVIDE SINGLE GANG WEATHER-PROOF JUNCTION BOX WITH STAINLESS STEEL COVER PLATE MOUNTED 18" FROM THE CORNER OF THE SERVICE YARD AND JUST BELOW ROOF DECK MOUNTING BRACKETS. ROUTE 1" EXIT CONDUIT FROM THE BOX SURFACE MOUNTED JUST BELOW THE ROOF DECK MOUNTING BRACKETS AND TERMINATE THE CONDUIT AT 512.
- 12 EXTEND 1/2" RIGID CONDUIT FROM A POINT 3" WITHIN STRIKE-SIDE WINDOW FRAME MULLION TO ABOVE ACCESSIBLE CEILING.
- 13 PROVIDE SINGLE GANG WEATHER-PROOF JUNCTION BOX WITH STAINLESS STEEL COVER PLATE MOUNTED JUST ABOVE THE STRIKE-SIDE OF OUTSIDE DOOR ON INSIDE OF SERVICE YARD. ROUTE 1" EXIT CONDUIT SURFACE MOUNTED FROM BOX JUST BELOW THE ROOF DECK MOUNTING BRACKETS. TERMINATE CONDUIT IN THE ACCESSIBLE CEILING SPACE INSIDE THE BUILDING.

### 7 KEY NOTES - MUSIC:

- 1 PROVIDE JUNCTION BOX WITH STAINLESS STEEL COVER PLATE AND 3/4" HOLE IN PLATE WITH GROMMET ON HOLE IN PLATE. EXTEND 3/4" E.C. UP IN WALL TO ABOVE CEILING FOR MUSIC SYSTEM. NOT USED.
- 2 PROVIDE THREE SINGLE GANG EXTRA DEEP J-BOXES STACKED ABOVE EACH OTHER WITH 1/2" CONDUIT FROM EACH TO THE TOP BOX AND A 1" CONDUIT STUBBED UP INTO THE CEILING SPACE FOR MUSIC SYSTEM VOLUME CONTROLS.
- 3 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.

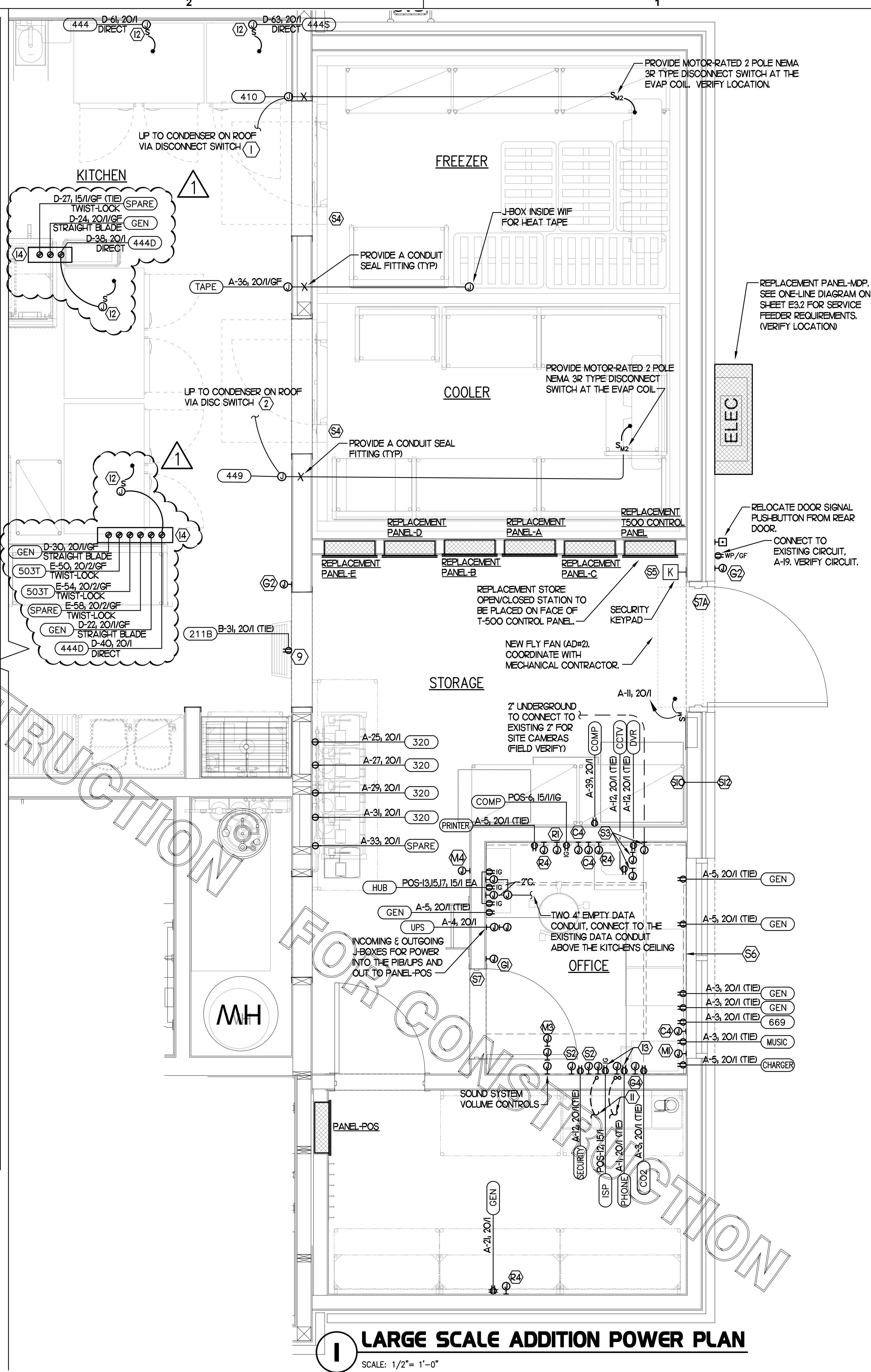
### 8 KEY NOTES - POS SYSTEM:

- 1 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.
- 2 PROVIDE JUNCTION BOX FOR TERMINATION OF 1" CONDUIT. PROVIDE 1" CONDUIT EXTENDING FROM CEILING AND TERMINATED AT JUNCTION BOX ON THE SERVING AREA SIDE OF THE WALL. COVER PLATE PROVIDED BY OWNER'S POS SYSTEM VENDOR.
- 3 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.
- 4 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.
- 5 PROVIDE JUNCTION BOX FOR TERMINATION OF 1" CONDUIT. PROVIDE 1" CONDUIT EXTENDING FROM CEILING AND TERMINATED AT JUNCTION BOX ON THE SERVING AREA SIDE OF THE WALL. POS SYSTEM SUPPLIER WILL PROVIDE COVER PLATE ON BOX.
- 6 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.
- 7 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.

### 10 CO2 DETECTOR NOTES:

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

THE INFORMATION USED TO DEVELOP THE EXISTING CONDITIONS AS SHOWN ON THESE PLANS IS FROM PREVIOUS BUILDING DRAWINGS AND PHOTOS OF EXISTING PANEL SCHEDULES. WHAT WAS SHOWN ON PLAN AND WHAT WAS ACTUALLY INSTALLED MAY VARY. FIELD VERIFY ALL EXISTING CONDITIONS.



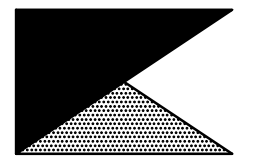
## 1 LARGE SCALE ADDITION POWER PLAN

SCALE: 1/2" = 1'-0"

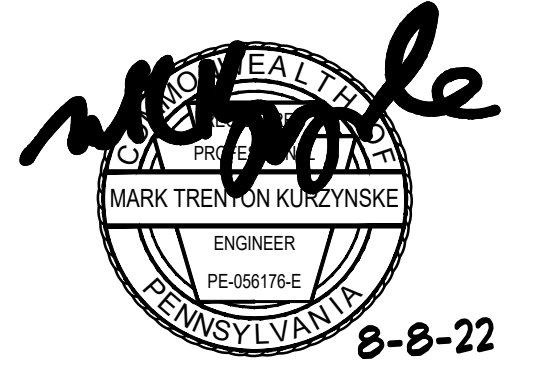


Chick-fil-A

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



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**CHICK-FIL-A**  
South Hills FSU  
1620 Washington Road  
Pittsburgh, PA 15241-1210

FSR#01765

BUILDING TYPE / SIZE: S03C  
RELEASE: v12.20

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
1	02/04/22	Owner Revisions

CONSULTANT PROJECT #	21124.HF.R
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DATE	09/24/2021
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SHEET  
LARGE SCALE POWER PLAN

SHEET NUMBER

E2.3



### PANELBOARD SCHEDULE - REPLACEMENT PANEL-A #1765

PANELBOARD DESCRIPTION										BREAKER OPTIONS					LOADS				
PANELBOARD NAME: SQ-D / NO										ARC-FAULT: GF					KVA PHASE A 22.43				
MANUFACTURER / TYPE: 208 Y 120										GROUND FAULT: GF					KVA PHASE B 23.98				
VOLTS: 3 / 4										HACR: HA					KVA PHASE C 19				
PHASE / WIRE: MLO / 225										HID LTG RATED: HD					AMPS PHASE A 186.9				
MAIN TYPE / CU BUS AMPS: 65,000										HIGH MAG LOAD: HM					AMPS PHASE B 199.8				
AIC SERIES RATING: FLUSH										ISOLATED GROUND: IG					AMPS PHASE C 150				
MOUNTING: 1										LOCK-ON: LO					KVA CONNECTED 84.11				
NEMA RATING: 1										SHUNT TRIP: ST					KVA DIVERSIFIED 55.66				
QUANTITY OF SECTIONS: 1										SWITCH RATED: SW					AMPS CONNECTED 178.8				
															AMPS DIVERSIFIED 154.5				

Pr#	NO.	LOAD DESCRIPTION	EQ	LOAD TYPE	LOAD KVA	CIR BKR	PH	CIR BKR	LOAD KVA	LOAD TYPE	EQ	LOAD DESCRIPTION	CIR NO.	Pr#
1	1	TELEPHONE DT VIDEO	R	0.360	20/1	A	20/1	1.650	K	305	TELEPHONE DT VIDEO	2	1	
3	3	OFFICE GEN & MUSIC	R	0.960	20/1	B	20/1	1.440	X		UPS RECEPTACLE (POS.)	4	3	
5	5	OFFICE GEN/PRINTER	R	0.800	20/1	C	20/1	1.650	K	305	TELEPHONE DT VIDEO	4	5	
7	7	GEN OUTLETS	R	6.540	20/1/GF	A	20/1	1.440	MS		WATER HEATER	6	7	
9	9	UNHEATED AIR DOOR	AD#3	0.960	20/1	B	20/1/GF	0.180	R		PLAY AREA OUTLET	10	9	
11	11	UNHEATED AIR DOOR	AD#2	0.960	20/1	C	20/1/GF	0.540	R		SECURITY SYSTEM	12	11	
13	13	REPLACEMENT HEATED AIR DOOR	AD#1	4.068	45/3	A	20/1		EL		SPARE	14	13	
15	15	REPLACEMENT HEATED AIR DOOR	AD#1	4.068	45/3	B	20/1	0.518	EL		MLOP/OMD CANOPY LTG	16	15	
17	17	REPLACEMENT HEATED AIR DOOR	AD#1	4.068	45/3	C	20/1		EL		SPARE	18	17	
19	19	EXIST GEN OUTLET/DBELL	R	1.080	20/1	A	20/1	1.258	X		WALK-IN COOLER	20	19	
21	21	GEN OUTLETS	R	0.360	20/1	B	15/3/L0	1.258	X	449	CONDENSER & EVAP COIL	22	21	
23	23	SPARE			20/1	C	20/1	1.140	X		CONDENSER & EVAP COIL	24	23	
25	25	CARBONATOR	320	K	0.744	20/1	A	20/1	1.956	X	WALK-IN FREEZER	26	25	
27	27	CARBONATOR	320	K	0.744	20/1	B	35/3/L0	1.956	X	CONDENSER & EVAP COIL	28	27	
29	29	CARBONATOR	320	K	0.744	20/1	C	20/1	2.221	X	CONDENSER & EVAP COIL	30	29	
31	31	CARBONATOR	320	K	0.744	20/1	A	20/1/GF	0.792	EL	GMD CANOPY FANS	32	31	
33	33	ROOF RECEPTACLES	R	0.720	20/1	B	20/1/GF	1.584	EL		MLOP CANOPY FANS	34	33	
35	35	ROOF RECEPTACLES	R	0.720	20/1	C	20/1/GF	0.500	HT		FREEZER HEAT TAPE	36	35	
37	37	DINING OUTLETS	R	0.720	20/1	A	40/2	3.000	HT		6 KW ELECTRIC HEATER	38	37	
39	39	AIR COMPRESSOR	MS	1.920	20/1	B	40/2	3.000	HT		SPARE	40	39	
41	41	SPARE			20/1	C	20/1				SPARE	42	41	
43	43	SPARE			20/1	A	20/1				SPARE	44	43	
45	45	SPARE			20/1	B	20/1				SPARE	46	45	
47	47	SPARE			20/1	C	20/1				SPARE	48	47	
49	49	SPARE			20/3	A	20/1				SPARE	50	49	
51	51	SPARE			20/1	B	20/1				SPARE	52	51	
53	53	SPARE			20/1/GF	C	20/1				SPARE	54	53	
55	55	SPARE			20/1	A	20/1				SPARE	56	55	
57	57	SPARE			20/1	B	20/1				SPARE	58	57	
59	59	SPARE			20/1	C	20/1				SPARE	60	59	
61	61	SPARE			20/1	A	20/1				SPARE	62	61	
63	63	SPARE			20/1	B	20/1				SPARE	64	63	
65	65	SPARE			20/1	C	20/1				SPARE	66	65	
67	67	SPARE			20/1	A	20/1				SPARE	68	67	
69	69	SPARE			20/1	B	20/1				SPARE	70	69	
71	71	SPARE			20/1	C	20/1				SPARE	72	71	

\*A/P/O INDICATES CIRCUIT BREAKER AMPACITY/NO. POLES/OPTIONS WITH OPTIONS AS NECESSARY

#### PANELBOARD LOAD SUMMARY

LOAD DESCRIPTION	TYPE	(KVA) X	DEMAND FACTOR	=	DIVERSIFIED KVA
EXTERIOR LIGHTING & SIGNAGE	EL	2.894			2.894
RECEPTACLES	R	6.300	PER(>10KVA@50%)		6.300
MISCELLANEOUS	MS	6.720	1.25		8.400
HEAT	H	18.704	1		18.704
SINGLE PHASE MOTOR	M1	0.000	1.25		0.000
KITCHEN EQUIPMENT	K	7.500	0.65		4.875
KITCHEN REFRIG EQUIPMENT	X	22.294	0.65		14.491
<b>TOTAL</b>		<b>64.412</b>			<b>55.664</b>

### PANELBOARD SCHEDULE - REPLACEMENT PANEL-D #1765

PANELBOARD DESCRIPTION										BREAKER OPTIONS					LOADS				
PANELBOARD NAME: SQ-D / NO										ARC-FAULT: GF					KVA PHASE A 29.48				
MANUFACTURER / TYPE: 208 Y 120										GROUND FAULT: GF					KVA PHASE B 32.25				
VOLTS: 3 / 4										HACR: HA					KVA PHASE C 22.84				
PHASE / WIRE: MLO / 225										HID LTG RATED: HD					AMPS PHASE A 245.7				
MAIN TYPE / CU BUS AMPS: 65,000										HIGH MAG LOAD: HM					AMPS PHASE B 268.8				
AIC SERIES RATING: FLUSH										ISOLATED GROUND: IG					AMPS PHASE C 190.4				
MOUNTING: 1										LOCK-ON: LO					KVA CONNECTED 84.57				
NEMA RATING: 1										SHUNT TRIP: ST					KVA DIVERSIFIED 56.04				
QUANTITY OF SECTIONS: 1										SWITCH RATED: SW					AMPS CONNECTED 234.8				
															AMPS DIVERSIFIED 155.6				

Pr#	NO.	LOAD DESCRIPTION	EQ	LOAD TYPE	LOAD KVA	CIR BKR	PH	CIR BKR	LOAD KVA	LOAD TYPE	EQ	LOAD DESCRIPTION	CIR NO.	Pr#
1	1	CIRCUIT A - ML TABLE	A	1.911	20/1/GF	A	20/1/GF	1.800	X			CIRCUIT A - ML TABLE	2	1
3	3	CIRCUIT B - ML TABLE	X	1.800	20/1/GF	B	20/1/GF	1.800	X			CIRCUIT B - ML TABLE	4	3
5	5	CIRCUIT C - ML TABLE	K	0.180	20/1/GF	C	20/1/GF	0.180	K			CIRCUIT C - ML TABLE	6	5
7	7	CIRCUIT D - ML TABLE	X	1.500	20/1/GF	A	20/1/GF	1.500	X			CIRCUIT D - ML TABLE	8	7
9	9	CIRCUIT E - ML TABLE	K	1.920	20/1/GF	B	20/1/GF	1.920	K			CIRCUIT E - ML TABLE	10	9
11	11	CIRCUIT F - ML TABLE	K	0.180	20/1/GF	C	20/1/GF	0.180	K			CIRCUIT F - ML TABLE	12	11
13	13	CIRCUIT G - ML TABLE	K	0.564	20/1/GF	A	20/1/GF	0.564	K			CIRCUIT G - ML TABLE	14	13
15	15	CIRCUIT H - ML TABLE	K	2.500	30/2	B	30/2	2.500	K			CIRCUIT H - ML TABLE	16	15
17	17	SPARE			20/1	C	20/1					SPARE	18	17
19	19	FRY FREEZER	400	X	1.128	20/1/GF	A	15/1/GF	0.960	X	442W	DISPLAY REFRIGERATOR	20	19
21	21	FLOOR MIXER	600	K	0.960	20/1/GF	B	20/1/GF	0.180	R		DROP CORD OUTLET	22	21
23	23	REFRIG EQ. STAND	422	X	0.684	15/1/GF	C	20/1/GF	0.180	R		DROP CORD OUTLET	24	23
25	25	LEMON JUICER	607	R	0.180	20/1	A	20/1/GF	0.180	R		DROP CORD OUTLET	26	25
27	27	BREADING TABLES	X	0.360	15/1/GF	B	20/1/GF	0.180	R	184		DROP CORD OUTLET	28	27
29	29	SPARE			20/1	C	20/1/GF	0.180	R			DROP CORD OUTLET	30	29
31	31	DROP CORD OUTLET	R	0.180	20/1/GF	A	20/1/GF	0.180	R			DROP CORD OUTLET	32	31
33	33	DROP CORD OUTLET	R	0.180	20/1/GF	B	20/1/GF	0.180	R	184		DROP CORD OUTLET	34	33
35	35	DROP CORD OUTLET	R	0.180	20/1/GF	C	20/1/GF	0.684	X	431		WORKTOP REFRIG	36	35
37	37	DROP CORD OUTLET	R	0.180	20/1/GF	A	20/1	1.920	X	444		THAWING CABINET	38	37
39	39	DROP CORD OUTLET	R	0.180	20/1/GF	B	20/1	1.920	X	444		THAWING CABINET	40	39
41	41	DROP CORD OUTLET	R	0.180	20/1/GF	C	20/1/GF	0.684	X	432		WORKTOP REFRIG	42	41
43	43	INTERIOR ICE MAKER	380Z	X	0.720	15/1/GF	A	2.544	X			ROOF ICE CONDENSER	44	43
45	45	INTERIOR ICE MAKER	380Z	X	0.720	15/1/GF	B	2.544	X	380ZC		ROOF ICE CONDENSER	46	45
47	47	INTERIOR ICE MAKER	380	X	0.600	15/1/GF	C	2.544	X			ROOF ICE CONDENSER	48	47
49	49	SPARE			20/1	A	20/1	1.704	X			SPARE	50	49
51	51	ROOF ICE CONDENSER	380ZC	X	2.544	35/3	B	25/3	1.704	X	380C	ROOF ICE CONDENSER	52	51
53	53	SPARE			20/1	C	20/1	1.704	X			SPARE	54	53
55	55	SPARE			20/1	A	20/1/GF	1.128	X	400		FRY FREEZER	56	55
57	57	DISHWASHER	363	K	5.880	60/3	B	20/1/GF	0.180	R		DROP CORD OUTLET	58	57
59	59	SPARE			20/1	C	20/1					SPARE	60	59
61	61	THAWING CABINET	444	X	1.920	20/1	A	20/1/GF	0.180	R		DROP CORD OUTLET	62	61
63	63	THAWING CABINET	444S	X	1.920	20/1	B	20/1/GF	0.180	R		DROP CORD OUTLET	64	63
65	65	SPARE			20/1	C	15/1/GF	1.080	X	441		REFR. SALAD PREP	66	65
67	67	SPARE			1 POLE	A	1 POLE					SPARE	68	67
69	69	SPARE			1 POLE	B	1 POLE					SPARE	70	69
71	71	SPARE			1 POLE	C	1 POLE					SPARE	72	71

\*A/P/O INDICATES CIRCUIT BREAKER AMPACITY/NO. POLES/OPTIONS WITH OPTIONS AS NECESSARY

#### PANELBOARD LOAD SUMMARY

LOAD DESCRIPTION	TYPE	(KVA) X	DEMAND FACTOR	=	DIVERSIFIED KVA
RECEPTACLES	R	3.060	PER(>10KVA@50%)		3.060
KITCHEN EQUIPMENT	K	38.110	0.65		24.772
KITCHEN REFRIG EQUIPMENT	X	43.404	0.65		28.213
<b>TOTAL</b>		<b>84.574</b>			<b>56.044</b>

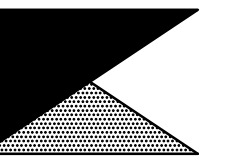
### PANELBOARD SCHEDULE - REPLACEMENT PANEL-B #1765

PANELBOARD DESCRIPTION										BREAKER OPTIONS					LOADS				
PANELBOARD NAME: SQ-D / NO										ARC-FAULT: GF					KVA PHASE A 24.18				
MANUFACTURER / TYPE: 208 Y 120										GROUND FAULT: GF					KVA PHASE B 24.74				
VOLTS: 3 / 4										HACR: HA					KVA PHASE C 25.94				
PHASE / WIRE: MLO / 225										HID LTG RATED: HD					AMPS PHASE A 201.5				
MAIN TYPE / CU BUS AMPS: 65,000										HIGH MAG LOAD: HM					AMPS PHASE B 206.2				
AIC SERIES RATING: FLUSH										ISOLATED GROUND: IG					AMPS PHASE C 216.2				
MOUNTING: 1										LOCK-ON: LO					KVA CONNECTED 74.87				
NEMA RATING: 1										SHUNT TRIP: ST					KVA DIVERSIFIED 63.13				
QUANTITY OF SECTIONS: 1										SWITCH RATED: SW					AMPS CONNECTED 207.8				
															AMPS DIVERSIFIED 175.2				

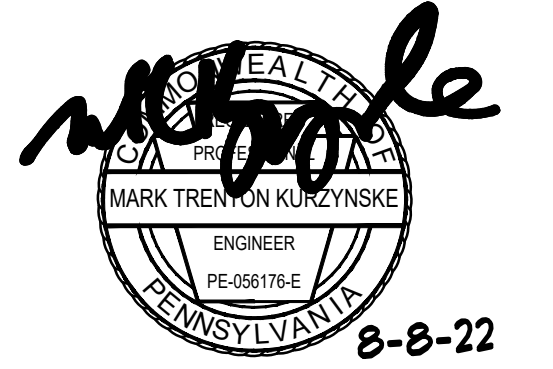
Pr#	NO.	LOAD DESCRIPTION	EQ	LOAD TYPE	LOAD KVA	CIR BKR	PH	CIR BKR	LOAD KVA	LOAD TYPE	EQ	LOAD DESCRIPTION	CIR NO.	Pr#
1	1	DOUBLE JUICE DISP.	310	R	1.020	20/1	A	20/1	0.380	EL		REFUSE ENCLOSURE	2	1
3	3	DT COMM SYSTEM	R	0.180	20/1	B	20/1/GF	1.840	K	560		FRY STATION	4	3
5	5	U.C. REFRIGERATOR	420	X	0.432	20/1	C	20/1/GF	1.840	K	560	FRY STATION	6	5
7	7	SPARE			20/1	A	20/1/GF	1.090	K	5630		SANDWICH SLIDE	8	7
9	9	ICE DREAM	300X	X	2.280	25/3	B	20/1/GF	0.548	K	5635	SANDWICH SLIDE	10	9
11	11	SPARE			20/1	C	20/1	1.020	K	315W		SPARE DOUBLE JUICE DISP.	12	11
13	13	ICE DREAM	300X	X	1.800	20/3	A	20/1/GF	0.432	X	420	U.C. REFRIGERATOR	14	13
15	15	ICE DREAM												



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



**Kurzynske & Associates**  
CONSULTING ENGINEERS  
2705 Lebanon Pike - Suite One  
Nashville, Tennessee 37214  
Telephone: (615) 255-5203



**CHICK-FIL-A**  
South Hills FSU  
1620 Washington Road  
Pittsburgh, PA 15241-1210

**FSR#01765**

BUILDING TYPE / SIZE: S03C  
RELEASE: v12.20

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
1	02/04/22	Owner Revisions

CONSULTANT PROJECT # 21124.HF.R  
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SHEET LIGHTING COMCHECK

SHEET NUMBER

**E5.1**

A	B	C	D	E
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps/ Fixture	# of Fixtures	Fixture Watt.	(C X D)
LED: A/AE: 2x4 Troffer: Other:	1	2	59	119
Total Proposed Watts = 3200				
<b>Interior Lighting PASSES: Design 23% better than code</b>				
<b>Interior Lighting Compliance Statement</b>				
Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.				
Mark Kurzynske - PE	Signature	Date		
Name - Title				

Project Title: Chick-fil-A #1765 Report date: 03/10/22  
Data filename: Z:\Shared\02 Prototypes\Chick-fil-A\2021\Remodels\21124.HF.R - Pittsburgh, PA (South Hills) - Page 2 of 9  
1765\ComCheck\CFA #01765 2015 IECC ComCheck.cck

**COMcheck Software Version 4.1.5.1**  
**Interior Lighting Compliance Certificate**

**Project Information**  
Energy Code: 2015 IECC  
Project Title: Chick-fil-A #1765  
Project Type: Addition

Construction Site: 1620 Washington Road, Pittsburgh, PA 15241  
Owner/Agent: Chick-fil-A, 5200 Buffington Road, Atlanta, GA 30349  
Designer/Contractor: Kurzynske & Associates, 2705 Lebanon Pike - Suite One, Nashville, TN 37214, 615-255-5203

**Allowed Interior Lighting Power**

A Area Category	B Floor Area (ft <sup>2</sup> )	C Allowed Watts / ft <sup>2</sup>	D Allowed Watts (B X C)
1-Kitchen (Common Space Types:Food Preparation)	1867	1.21	2259
2-Office (Common Space Types:Office - Enclosed)	52	1.11	58
3-Storage (Common Space Types:Storage >=50 - <=1000 sq ft.)	157	0.63	99
4-Restrooms (Common Space Types:Restrooms)	270	0.98	265
5-Dining (Common Space Types:Dining Area - Family Restaurant)	1540	0.89	1371
6-Multipurpose (Common Space Types:Conference/Meeting/Multipurpose)	83	1.23	102
Total Allowed Watts = 4153			

**Proposed Interior Lighting Power**

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Kitchen (Common Space Types:Food Preparation)				
LED: A/AE: 2x4 Troffer: Other:	1	22	59	1307
LED: B: Task Light: Other:	1	4	35	140
LED: F: LED Egg Light: Other:	1	4	12	48
Linear Fluorescent J1: Cove Lighting: 48" T8 28W (Super T8): Electronic:	1	7	28	196
LED: D3/D3E: LED Downlight: Other:	1	4	21	84
2-Office (Common Space Types:Office - Enclosed)				
LED: A/AE: 2x4 Troffer: Other:	1	1	59	59
3-Storage (Common Space Types:Storage >=50 - <=1000 sq ft.)				
LED: A/AE: 2x4 Troffer: Other:	1	2	59	119
4-Restrooms (Common Space Types:Restrooms)				
LED: D3/D3E: LED Downlight: Other:	1	5	21	106
LED: N: Vanity: Other:	1	2	11	22
5-Dining (Common Space Types:Dining Area - Family Restaurant)				
LED: D3/D3E: 2x4 Troffer: Other:	1	46	21	971
LED: U: Pendant: Other:	1	4	8	30
6-Multipurpose (Common Space Types:Conference/Meeting/Multipurpose)				

Project Title: Chick-fil-A #1765 Report date: 03/10/22  
Data filename: Z:\Shared\02 Prototypes\Chick-fil-A\2021\Remodels\21124.HF.R - Pittsburgh, PA (South Hills) - Page 1 of 9  
1765\ComCheck\CFA #01765 2015 IECC ComCheck.cck

**COMcheck Software Version 4.1.5.1**  
**Exterior Lighting Compliance Certificate**

**Project Information**  
Energy Code: 2015 IECC  
Project Title: Chick-fil-A #1765  
Project Type: Addition  
Exterior Lighting Zone: 2 (Neighborhood business district)

Construction Site: 1620 Washington Road, Pittsburgh, PA 15241  
Owner/Agent: Chick-fil-A, 5200 Buffington Road, Atlanta, GA 30349  
Designer/Contractor: Kurzynske & Associates, 2705 Lebanon Pike - Suite One, Nashville, TN 37214, 615-255-5203

**Allowed Exterior Lighting Power**

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Illuminated area of facade wall or surface	2585 ft <sup>2</sup>	0.1	No	258
Free standing/attached sales canopy	3341 ft <sup>2</sup>	0.6	Yes	2005
Total Tradable Watts (a) =				2005
Total Allowed Watts =				2263
Total Allowed Supplemental Watts (b) =				600

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.  
(b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

**Proposed Exterior Lighting Power**

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Illuminated area of facade wall or surface (2585 ft <sup>2</sup> ): Non-tradable Wattage				
LED: OJ: Wall Sconce: Other:	1	19	25	475
LED: OK: Wall Pack: Other:	1	1	13	13
Free standing/attached sales canopy (3341 ft <sup>2</sup> ): Tradable Wattage				
LED: Canopy Lig: Integral Light: Other:	1	12	74	888
Total Tradable Proposed Watts = 888				

**Exterior Lighting PASSES: Design 63% better than code**

**Exterior Lighting Compliance Statement**  
Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Mark Kurzynske - PE  
Name - Title Signature Date

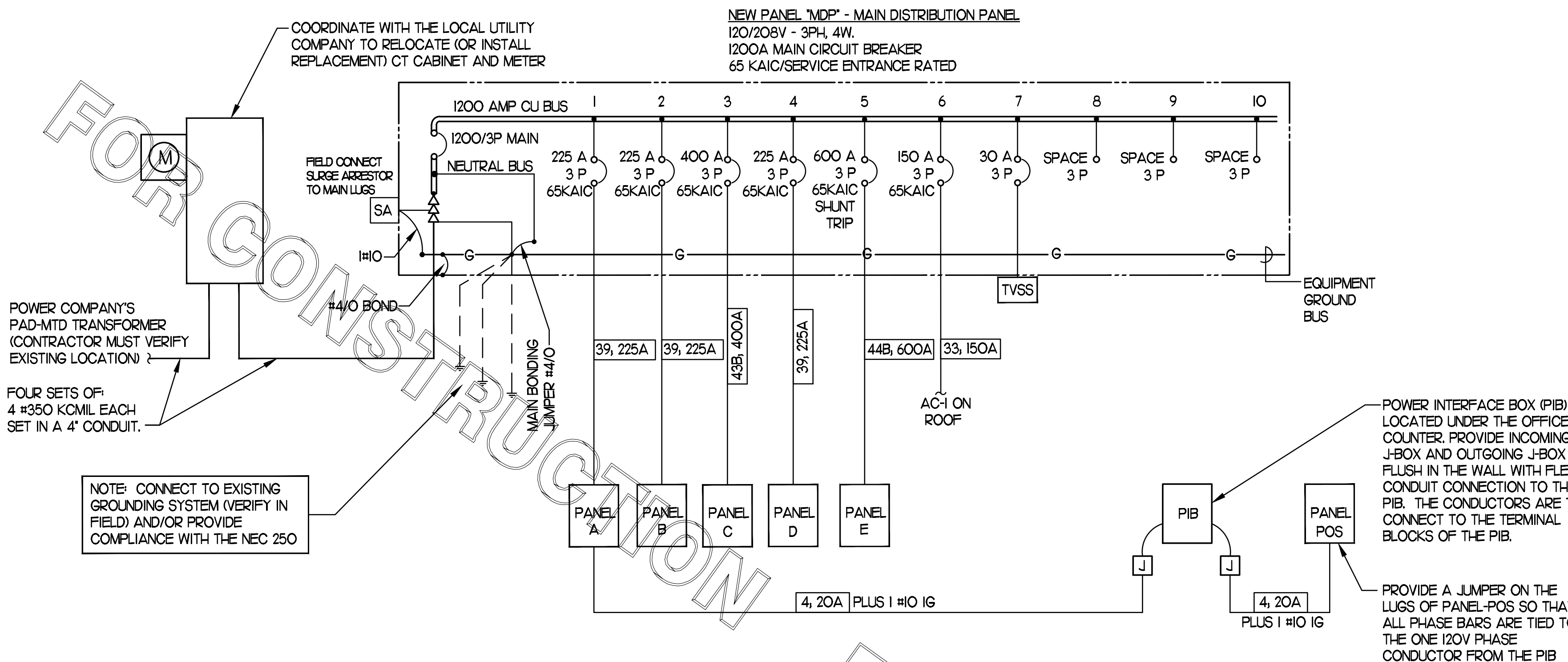
Project Title: Chick-fil-A #1765 Report date: 03/10/22  
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FOR CONSTRUCTION

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CONSTRUCTION



**1 SINGLE LINE DIAGRAM**  
 NO SCALE

PANELBOARD SCHEDULE - REPLACEMENT PANEL-MDP #1765									
PANELBOARD DESCRIPTION					BREAKER OPTIONS				
PANELBOARD NAME: MDP					ARC-FAULT: AF				
MANUFACTURER / TYPE: SQ-D / I-LINE					GROUND FAULT: GF				
VOLTS: 208 / 120					HRC: HA				
PHASE / WIRE: 3 / 4					HID LIT RATED: HD				
MAIN TYPE / CU BUS AMPS: MCB / 1200					HIGH MAG LOAD: HM				
AIC SERIES RATING: 65,000					ISOLATED GROUND: IG				
MOUNTING: SURFACE					LOCK-ON: LO				
NEMA RATING: 3R					SHUNT TRIP: ST				
QUANTITY OF SECTIONS: 1					SWITCH RATED: SW				
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					KVA PHASE B 207.9				
					KVA PHASE C 190.2				
					AMPS PHASE A 1717				
					AMPS PHASE B 1732				
					AMPS PHASE C 1585				
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SECTION C16100 ELECTRICAL GENERAL PROVISIONS

PART 1 - GENERAL

- 1.01 WORK INCLUDED
A. Provide all materials, labor and equipment required to furnish and install a complete electrical system as indicated on drawings and as specified herein.
1.02 REGULATORY REQUIREMENTS
A. Equipment furnished shall be UL listed where such label is available. Installation shall conform to UL standards where applicable.
B. Electrical work shall be installed in accordance with drawings and specifications, NEC and NFPA codes in effect at project location, state and local electrical and building codes and special codes having jurisdiction over specific portions within complete installation.
C. Obtain permits and certificates of approval from all authorities having jurisdiction over the installation and pay all fees required.
1.03 SUBMITTALS
A. Submit list of materials and equipment prior to manufacture, order or installation and within twenty days after award of contract for approval. Include each item of material and equipment whether or not shop drawings are also required. List shall include name of manufacturer, catalog number and other complete identification as well as dimensions and detailed data. Submittals shall 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 "AC-90" is not allowed. All MC Cables shall have a green equipment ground conductor and an additional isolated ground (green + yellow stripe) conductor for isolated ground circuits (POS System). Fittings used for connecting MC cable to boxes, cabinets, or other equipment shall be listed and identified for such use.
D. Associated couplings, connectors and fittings shall be steel as manufactured by Raco or equivalent. Catalog numbers used below are those of Raco.
E. Erickson Couplings, Series 1502, shall be used where neither length of conduit can be rotated.
F. Insulated bushings shall be series 1402.
G. EMT box connectors shall be compression or set-screw fittings.
H. Conduit, connectors, couplings and fittings shall be UL listed and labeled.

1.02 ELECTRICAL METALLIC TUBING (EMT)

- A. Use Electrical Metallic Tubing (EMT) where drawings call for conduit to be:
1. Concealed in walls.
2. Installed above suspended ceilings.
3. Installed exposed, above 6 feet.

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 interlocked

galvanized steel, and shall conform to the requirements of Article 330 of the National Electrical Code.

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

- C. MC Cable may be used when allowed by local codes and Article 330 of the National Electrical Code for branch circuits (except the main homerun to the panelboard which shall be conduit with conductors) for the following:

- 1. Lighting
2. Dining area receptacles
3. Fly Lights
4. Building mounted signage
5. Office area receptacles

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

PART 2 - EXECUTION

2.01 INSTALLATION

- A. Minimum size of conduits shall be 1/2 inch.
B. Run concealed conduits in direct line with long sweep bends or offsets. Run exposed conduits parallel to and at right angles to building lines. Group multiple conduit runs in banks.
C. Cap ends of conduits to prevent entrance of water and other foreign material during construction.
D. Provide No. 12 AWG copper pull wires or nylon cord in all empty conduits. Steel wire not acceptable as pull wire.
E. Where IMC enters a cabinet, junction box, or pull box conductors shall be protected by an insulated bushing. Locknuts shall be installed on conduit outside and inside enclosure.
F. In areas where enclosed and gasketed fixtures and weatherproof devices are specified, where Rigid Conduit enters a sheet metal enclosure, junction box and outlet box, and not terminated in a threaded hub, a steel, or malleable iron nylon insulated hub, complete with recessed sealing "O" ring or sealing locknut shall be used.
G. Provide seal-off fitting in all conduits entering a cold temperature area such as freezers and dry refrigerators.
H. In concrete slabs, block up conduit from forms and securely fasten in place. all conduits in slabs shall have a minimum of 4" inches concrete coverage above.
I. Failure to route conduit through building without interfering with other equipment, and construction shall not constitute a reason for an extra charge. Equipment, conduit, and fixtures shall fit into available spaces in building and shall not be introduced into building at such times and manner as to cause damage to structure or equipment. Equipment requiring servicing shall be readily accessible.

2.02 EMT (ELECTRICAL METALLIC TUBING) RACEWAY

- A. Do not use Electrical Metallic Tubing in cinder concrete or cinder fill or where conduit system is in contact with dissimilar metals or in wet locations.

2.03 PVC RACEWAY

- A. Use threaded fittings for all connectors and adapters.
E. Provide 1/4-inch nylon pull rope in all primary power and incoming telephone service entrance conduits.

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, Appleton, General Electric, RACO, OR Steel City.
D. Provide boxes for fixtures with fixture studs in center.

2.02 PULL AND JUNCTION BOXES

- A. Sheet metal boxes: galvanized steel.
B. Surface-mounted cast metal box: type 4; flat-flanged, surface-mounted junction box.
1. Material: galvanized cast iron.
2. Cover: furnish with ground flange, neoprene gasket, and stainless steel cover screws.
C. In-ground cast metal box: inside flanged, recessed cover box for flush mounting.
1. Material: galvanized cast iron.
2. Cover: nonskid cover with neoprene gasket and stainless steel cover screws.
3. Cover legend: electric.
D. Manufacturers: National, Appleton, General Electric, RACO, Oz-Gedney or Steel City.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Install electrical boxes as shown on drawings, and as required for splices, taps, wire pulling, equipment connections and compliance with regulatory requirements.
B. Install pull boxes and junction boxes above accessible ceilings.
C. Inaccessible ceiling areas: Install outlet and junction boxes no more than 6

- inches from ceiling access panel or from removable recessed light fixture.
D. Use flush mounting outlet boxes in finished areas.
E. Use stamped steel bridges to fasten flush mounting outlet box between studs.
F. Install flush mounted box without damaging wall insulation or reducing its effectiveness.
G. Use adjustable steel channel fasteners for hung ceiling outlet box.

- H. Do not fasten boxes to ceiling support wires.
I. Support boxes independently of conduit, except cast box that is connected to two Rigid Metal Conduits both supported within 12 inches of box.
J. Use gang box where more than one device is mounted together. Do not use sectional box.
K. Use gang box with plaster ring for single device outlets.
L. Use cast outlet box in exterior locations and wet locations.

3.02 OUTLET BOXES

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

3.03 JUNCTION BOXES

- A. Junction boxes shall be sized according to number of conductors in box or type of service to be provided. Minimum junction box size 4-11/16" square and 2-1/8" deep. Provide screw covers for junction boxes.
B. Use code gauge steel with screw covers for pull boxes with prime coat and provide with screw cover. Size pull boxes according to the NEC.
C. Provide pull box every 100 feet of conduit run or where excessive number of bends necessitates a box for ease of wire installation.

SECTION C16123 GROUNDING AND BONDING

PART 1 - PRODUCTS

1.01 ROD ELECTRODES

- A. Material: copper-clad steel.
B. Diameter: 3/4 inch.
C. Length: 10 feet.
1.02 MECHANICAL CONNECTORS
A. Material: bronze.
1.03 GROUNDING CONDUCTOR (WIRE)
A. Material: stranded copper, sized to meet NFPA 70, Article 250 requirements.

PART 2 - EXECUTION

2.01 INSTALLATION

- A. Install rod electrodes at locations indicated. Install additional rod electrodes as required to achieve resistance to ground of less than 25 ohms.
B. Provide grounding electrode conductor and connect to reinforcing steel in foundation footing.
C. Provide bonding to meet regulatory requirements.
D. Bond together each metallic raceway, pipe, duct and other metal objects.
E. Provide isolated grounding conductor for circuits supplying all isolated ground outlets. Insulation shall be green with yellow stripe. Size per NEC Table 250.66. This isolated grounding conductor shall run in addition to equipment grounding conductor and along with the branch circuit conductors.

2.02 GROUNDING

- A. Ground electrical system in accordance with NEC Article 250 and local authorities having jurisdiction.
B. Install a #3/0 bare copper wire bond across the water meter attached to ground clamps on water line on each side of meter. Arrangements shall be made to do this work at the time the water meter is installed.
C. From the point of entrance of the water main into the building and on the meter side of the main inside water valve and union install a stranded copper cable #3/0 in 1-1/4" conduit to the main distribution panel. Connect the cable to the equipment ground bus.

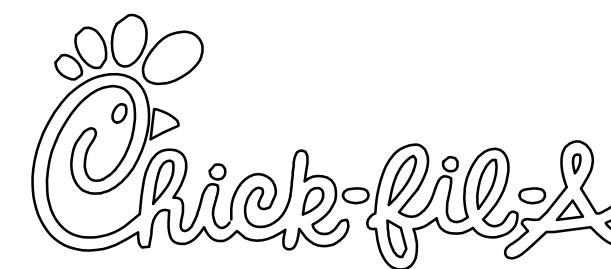
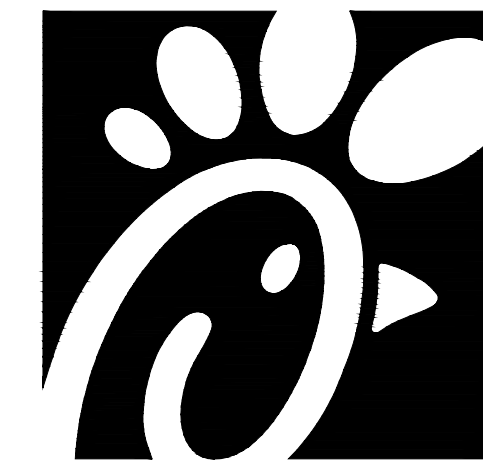
- D. Install a green equipment grounding conductor in each raceway, sized per NEC Table 250-122, terminate on equipment ground bus within panelboard serving load.

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

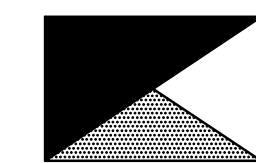
- F. All separate grounding electrode conductors shall be bonded together to limit potential differences between them and between their associated wiring systems. This includes the power system, telephone system, etc.

2.03 FIELD QUALITY CONTROL

- A. Inspect grounding and bonding system conductors and connections for tightness and proper installation.



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8-8-22

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South Hills FSU
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FSR#01765

BUILDING TYPE / SIZE: S03C
RELEASE: V12.20

REVISION SCHEDULE

Table with columns: NO., DATE, DESCRIPTION

CONSULTANT PROJECT # 21124.HF.R

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SHEET ELECTRICAL SPECIFICATIONS

SHEET NUMBER

E4.1

CONSTRUCTION

SECTION C16124  
SUPPORTING DEVICES AND HANGERS

PART 1 - PRODUCTS

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

PART 2 - EXECUTION

- 2.01 INSTALLATION
- A. Secure conduits to within 3" of each outlet box, junction box, cabinet, fitting, etc., and at intervals not to exceed ten feet (10') and in accordance with the National Electric Code. In seismic zones, support conduits 1" and under at 6' intervals.
- B. Install clamps secured to structure for feeder and other conduits routed against the structure. Use drop rods and hangers or racks to support conduits run apart from the structure.
- C. Provide and install suitable angle iron, channel iron or steel metal framing with accessories to support or brace electrical equipment including safety switches, fixtures, panelboards, etc.
- D. Use of chains, perforated iron, baling wire, or tie wire for supporting conduit runs is not permitted.
- E. For support of low voltage wiring not required to be in conduit, bundle cables together in a neat manner using approved nylon tie wraps. Bundled cables shall be supported with "J" hooks on telephone type bridle rings, a minimum of 6 feet on centers. Clearly identify all differing types of cables being run and tag with tape tags regarding telephone, POS System, music/communication, security, etc. for various system utilizing said cable. Identification tape shall be provided at minimum intervals of 25 feet on center and within each building space.
- F. Provide a system of supporting devices and hangers to insure secure support or bracing for conduit, electrical equipment, including safety switches, fixtures, panelboards, outlet boxes, junction boxes, cabinets, etc.

SECTION C16140  
WIRING DEVICES AND PLATES

PART 1 - PRODUCTS

- 1.01 WALL SWITCHES
- a. 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)
- 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:  
Single (simplex) device: #1877-GY (Kitchen) or #1877-B (Dining)  
Duplex device: #CR20-GY (Kitchen) or #CR20-B (Dining)  
Tamper Resistant duplex: #TRCR20-B (Vestibules & Play Area)  
Tamper Resistant USB Charger duplex: #TR7756-B (Dining)  
GF (ground-fault circuit interrupter) duplex device: #VGF20-GY (Kitchen) or #VGF20-B (Dining)  
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 #WJU-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.

- 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.  
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- 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) as indicated in Panelboard Schedules:
- A. Square-D (Atlantic and Southeast Regions):  
from Accu-Serv, Bob Harpring (502)961-0096.
- B. Square-D (West, Southwest, Midwest, and Northeast Regions):  
from Villa Lighting, Dave Christanell (800)325-0963.
- C. Siemens:  
from Suncoast Environmental Controls (SEC), Scott Dyer (877)544-6679.
- 1.02 PANELBOARD FEATURES
- A. Panelboards shall have a minimum symmetrical interrupting rating to meet or exceed the available symmetrical interrupting fault current at the device intended to interrupt current.
- B. Bus bars shall be copper or tin plated aluminum.
- C. Provide factory-installed copper ground bus in each panelboard with lugs or connectors on bar.
- D. Provide electrically isolated, factory installed, neutral bus in each 3 phase, 4 wire or 1 phase 3 wire panelboard.
- E. In addition to the ground bus required by paragraph 1.02D (above), provide factory installed, electrically isolated, copper ground bus in each panelboard serving isolated ground receptacles.
- F. Main lugs and main circuit breaker lugs shall be UL Listed for use with both aluminum and copper conductors.
- G. Provide panelboard doors with chrome-plated locks and catches. All locks shall be keyed alike. Provide two keys for each lock.
- H. Provide thermal-magnetic circuit breakers which are rated for 40 degrees C ambient temperature. Breakers shall be quick-make, quick-break type trip with trip indication shown by handle position other than on or off. Multi-pole breakers shall have a common trip handle. Tandem type circuit breakers shall not be permitted.
- I. 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. Nonfusable 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 - Midwest region, Northeast region, Southwest region, and West region. Contact at Villa Lighting: Dave Christanell at 800-325-0963, fax- 314-531-8720, email - dave.christanell@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, 600 volt waterproof fuseholder with Bussman 'Limiteron' fuse of ampere rating 3 times the load current.
- I. Surface and recessed fixtures on or in plastered or drywall ceilings shall be supported by support channels. Support channels shall span across main support channels and shall not depend upon ceilings for support.
- 3.02 FIELD QUALITY CONTROL
- A. Relamp fixtures that have failed lamps at substantial completion.

SECTION C16596  
SPECIAL SYSTEMS

PART 1 - GENERAL

- 1.01 WORK INCLUDED
- A. Furnish and install raceway system for music/communications security, CCTV, POS, and other owner-furnished systems, consisting of empty conduits, junction boxes, outlet boxes, and device plates, etc., as specified and shown on owner selected vendor wiring schematics. Cable, equipment, and installation of the interior system will be provided by the owner's system vendor.
- B. Interior system equipment will be furnished by Owner's Vendor.
- C. Install special backboxes furnished by Owner's Vendor. Coordinate with the Vendor for the installation. Coordinate with the Vendor if backboxes are to be contractor provided in order to provide and install the appropriate item for the Vendor.

PART 2 - PRODUCTS

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

- B. Cable shall be in conduit where installed in walls or inaccessible ceilings.
- C. Minimum conduit size shall be 3/4" .
- PART 3 - EXECUTION
- 3.01 INSTALLATION
- A. Furnish and install conduits, junction boxes, outlet boxes, and plates.
- B. Provide one #10 equivalent nylon pull wire in each system empty conduit.
- C. Provide a complete raceway system in accordance with interior system vendor requirements. Interior system vendor shall review the drawings. Contractor shall provide for any additional or varying requirements.
- D. Final connections and testing of systems will be provided by the system vendor. Contractor shall contact the owner's vendor and schedule the work so as to complete system installation and testing prior to occupancy of the facility.
- E. Terminate each conduit stub-up or termination with nylon insulated bushing.

SECTION C16597  
TELEPHONE SERVICE

PART 1 - GENERAL

- 1.01 WORK INCLUDED
- A. Furnish and install telephone system consisting of empty conduits, junction boxes, outlet boxes, device plates, etc., as specified and shown on owner selected vendor wiring schematics. Cable, equipment, and installation of the interior system will be provided by the owner's system vendor.
- B. Provide underground PVC, Schedule 40, service conduit as required by plans.
- C. Telephone Utility Company will provide service entrance cable.
- D. Interior telephone system will be furnished by owner's vendor.
- E. Special backboxes (unless otherwise noted) and faceplates will be furnished by the owner's vendor.

PART 2 - PRODUCTS

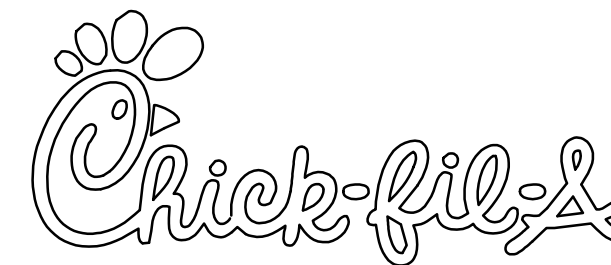
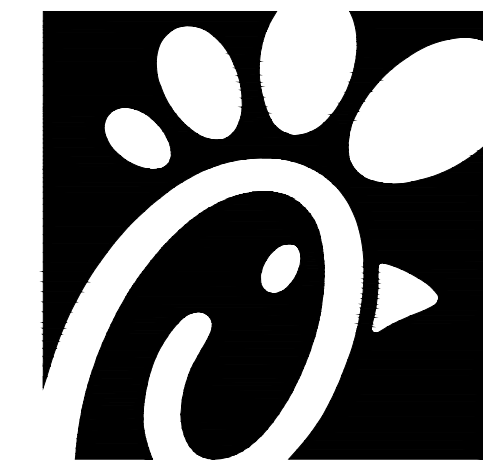
- 2.01 MATERIALS
- A. Provide 4-11/16" square boxes, with plaster rings. Provide device plates for telephone outlets to match those specified in wiring device section. Provide separate conduit to nearest accessible ceiling space from each outlet.
- B. Minimum conduit size shall be 3/4" .
- C. Provide lightning arrester for telephone service entrance at main telephone backboard in accordance with UL96A paragraph 11.2 and NFPA 780.
- D. Cable shall be in conduit where installed in walls or above inaccessible ceiling spaces.

PART 3 - EXECUTION

- 3.01 INSTALLATION
- A. Provide one #10 equivalent nylon pull wire in each empty telephone conduit.
- B. Provide trenching, backfilling, etc., for installation of service entrance conduit in accordance with other divisions, plans, and telephone utility requirements. Provide pull wire in empty conduit.
- C. Coordinate with the local utility for point of service and type of service required. Pay for any utility company charges and fees for establishment of service.
- D. Provide a complete raceway system in accordance with telephone utility company and interior system vendor/utility requirements. Telephone utility company and interior system vendor shall review the drawings. Contractor shall provide for any additional or varying requirements.
- E. Terminate each conduit stub-up or termination with nylon insulated bushings.
- F. Final connections and testing of system will be provided by the system vendor. Contractor shall contact the owner and vendor and schedule the work.

CLOSE OUT DOCUMENT REQUIREMENTS

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



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CHICK-FIL-A  
South Hills FSU  
1620 Washington Road  
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FSR#01765

BUILDING TYPE / SIZE: S03C  
RELEASE: V12.20

REVISION SCHEDULE  
NO. DATE DESCRIPTION

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SHEET ELECTRICAL SPECIFICATIONS

SHEET NUMBER

E4.2

CONSTRUCTION