



Chick-fil-A  
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**CHICK-FIL-A**  
**JOHNS HOPKINS ROAD**  
10975 JOHNS HOPKINS RD  
LAUREL, MD 20723

**FSR#01999**

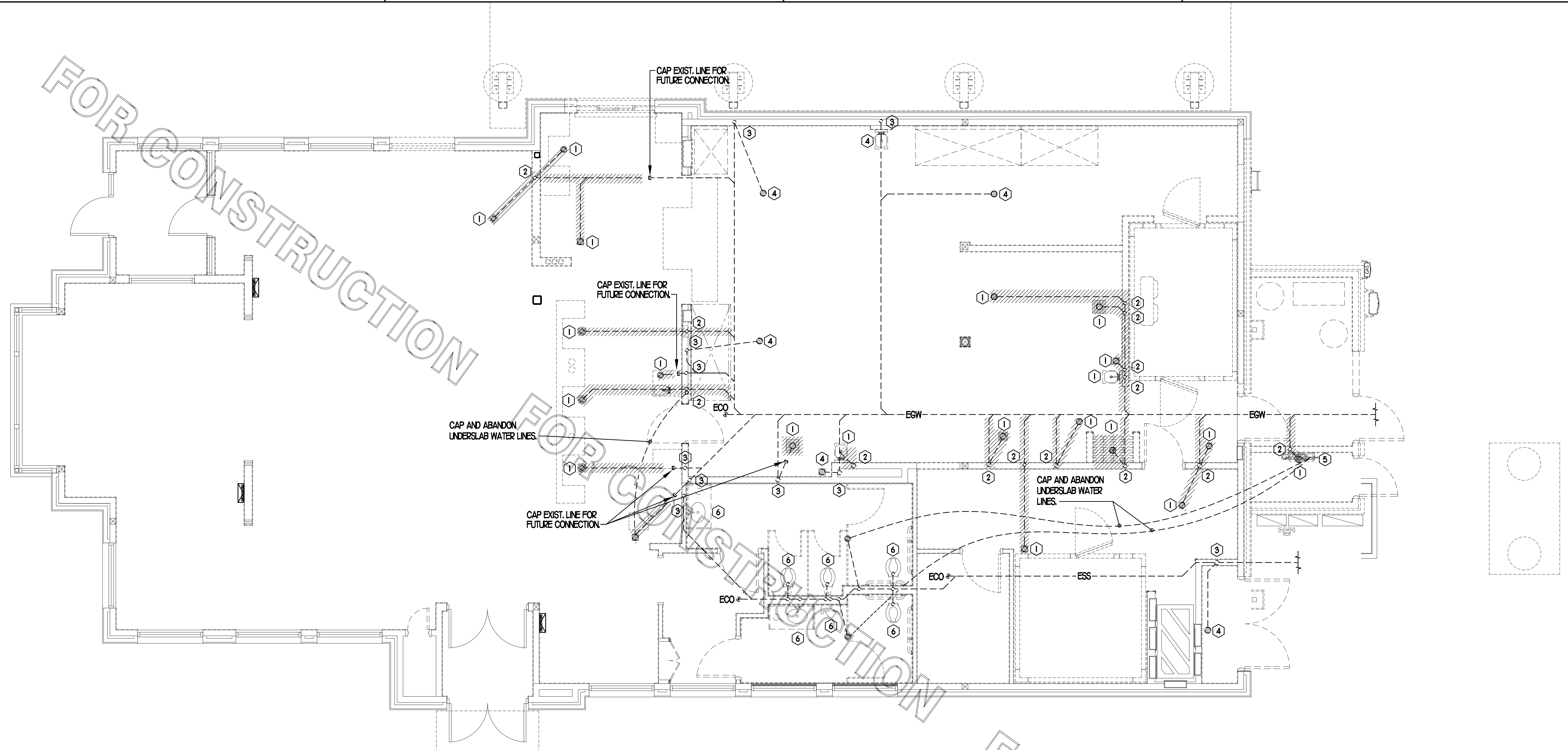
BUILDING TYPE / SIZE: S06E  
RELEASE: v04.23

REVISION SCHEDULE  
NO. DATE DESCRIPTION

CONSULTANT PROJECT # 23108.HF.R  
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DATE 08/18/2023  
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SHEET  
BELOW SLAB  
DEMO PLAN  
SHEET NUMBER

**P0.1**



**BELOW SLAB PLUMBING DEMOLITION PLAN**

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

**SHEET NOTES**

- 1 VERIFY IF EXISTING SLAB IS A POST TENSION TYPE. CONTRACTOR IS REQUIRED TO PERFORM GROUND PENETRATING RADAR (GPR) TEST ON THE FLOOR PRIOR TO CUTTING FLOOR FOR KITCHEN DRAIN RELOCATIONS.
- 2 LOCATIONS OF WASTE LINES, VENTS, CW LINES & OTHER UNDER AND ABOVE GROUND ITEMS AS SHOWN ON THESE PLANS ARE APPROXIMATE AND THEIR ACTUAL LOCATION MAY VARY SIGNIFICANTLY. FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING LOCATION, FALL, DIRECTION OF FLOW AND CONNECTING INVERTS, PRIOR TO COMMENCING WORK. NOTIFY CHICK-FIL-A CONSTRUCTION REPRESENTATIVE IF EXISTING MAJOR DISCREPANCIES IN ROUTING OF SERVICE LINES ARE DISCOVERED IN FIELD.
- 3 IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE DURING BID PHASE, WITH EXISTING DRAWINGS PROVIDED BY THE OWNER, IN ORDER TO DETERMINE THE TRUE AS-BUILT CONDITIONS OF THE POTABLE WATER, SANITARY WASTE-VENT AND OTHER PIPING SYSTEMS.
- 4 GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, STORING, AND RELOCATING EXISTING PLUMBING EQUIPMENT. PLUMBING CONTRACTOR TO COORDINATE DISCONNECTING OF EXISTING EQUIPMENT WITH GENERAL CONTRACTOR PRIOR TO COMMENCING WORK.
- 5 ALL LINES THAT ARE TO BE ABANDONED IN PLACE SHALL BE DEMOLISHED MIN. 6" BELOW SLAB, IN WALL OR ABOVE CEILING AND PLUGGED WATER/AIR TIGHT. ALL AFFECTED ADJACENT SURFACES SHALL BE REPAIRED AND REFINISHED TO MATCH SURROUNDING AREA.
- 6 VERIFY ALL FIXTURES THAT ARE TO BE REUSED ARE IN GOOD USABLE CONDITION; REPLACE FIXTURE IF DEFICIENCIES ARE FOUND
- 7 EXCEPT AS NOTED ON PLAN OR DETAILS, ALL NEW OR RELOCATED FLOOR DRAINS SHALL BE INSTALLED CENTERED IN 3 FT. DIAM. 1" DEEP SLAB DEPRESSION.
- 8 CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND LEVELING OF FLOOR DEPRESSIONS IN AREAS WHERE EXISTING FLOOR DRAINS, CLEANOUTS &/OR OTHER FLOOR ITEMS ARE BEING DEMOLISHED, ABANDONED OR RELOCATED.

**NOTE:**  
PLUMBING CONTRACTOR SHALL CLEAN OUT THE EXISTING SANITARY SEWER LINE WITHIN SPACE TO MAIN BUILDING SEWER LINE WHICH SHALL BE FIELD VERIFIED EITHER AT THE STREET OR IN THE PARKING LOT AND ALSO VERIFY ALL NEW WASTE LINES ARE CLEAR. LINES SHALL BE CLEARED OF ALL EXISTING DEBRIS AND SHALL BE GUARANTEED THAT A CLEAR FLOW SHALL EXIST WHEN CFA TAKES POSSESSION. AFTER WASTE LINES ARE INSTALLED, PRIOR TO GRAVEL AND CONCRETE POUR, PLUMBING CONTRACTOR SHALL MAINTAIN THAT WASTE LINE STUB-UPS ARE CAPPED TO ENSURE THAT GRAVEL AND CONCRETE DO NOT ENTER PIPING.

**PIPING LEGEND**

EXISTING GREASE WASTE (EGW)	---	EGW
EXISTING SANITARY SEWER (ESS)	---	ESS
EXISTING FILTERED WATER UNDER GROUND (EFW)	---	EFW
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 LINES IN WALL TO BE DEMOD	∞	

**KEY NOTES**

- 1 DEMOLISH EXISTING FLOOR FIXTURE OR ABOVE SLAB FIXTURE. CAP WASTE CONNECTION BELOW SLAB, WHERE APPLICABLE, DEMOLISH VENT/CW/H-W CONNECTIONS BACK TO RESPECTIVE MAINS AND CAP.
- 2 DEMOLISH EXISTING VENT IN WALL AND CAP OFF ABOVE CEILING AND BELOW SLAB. VENT BELOW SLAB SHALL BE CAPPED OFF JUST ABOVE TAKE-OFF FROM WASTE LINE.
- 3 EXISTING VENT TO REMAIN IN WALL.
- 4 EXISTING FLOOR FIXTURE TO REMAIN. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING FIXTURE IS CLEAR AND USABLE AND TRAP PRIMER (IF EXISTING) IS WORKING PROPERLY. IF DEFICIENCIES FOUND IN FIELD, REPLACE PRIMER &/OR WATER SUPPLY LINE OR REPLACE FIXTURE AS NECESSARY. IF DRAIN IS TO REMAIN, PLUMBING CONTRACTOR SHALL REMOVE EXISTING GRATE AND REPLACE WITH NEW NICKEL-BRONZE GRATE.
- 5 EXISTING TRAP PRIMER LOCATED BELOW CABINET AND BELOW SLAB PIPING TO FLOOR DRAINS TO BE DEMOLISHED. EXISTING WATER LINES NO LONGER USED SHALL BE CAPPED OFF AND ABANDONED BELOW SLAB.
- 6 DEMOLISH EXISTING RESTROOM FIXTURE. CAP WASTE CONNECTION BELOW SLAB, WHERE APPLICABLE, CAP EXISTING VENT/CW/H-W CONNECTIONS FOR FUTURE CONNECTION.

FOR CONSTRUCTION

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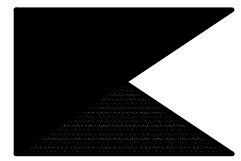
CONSTRUCTION





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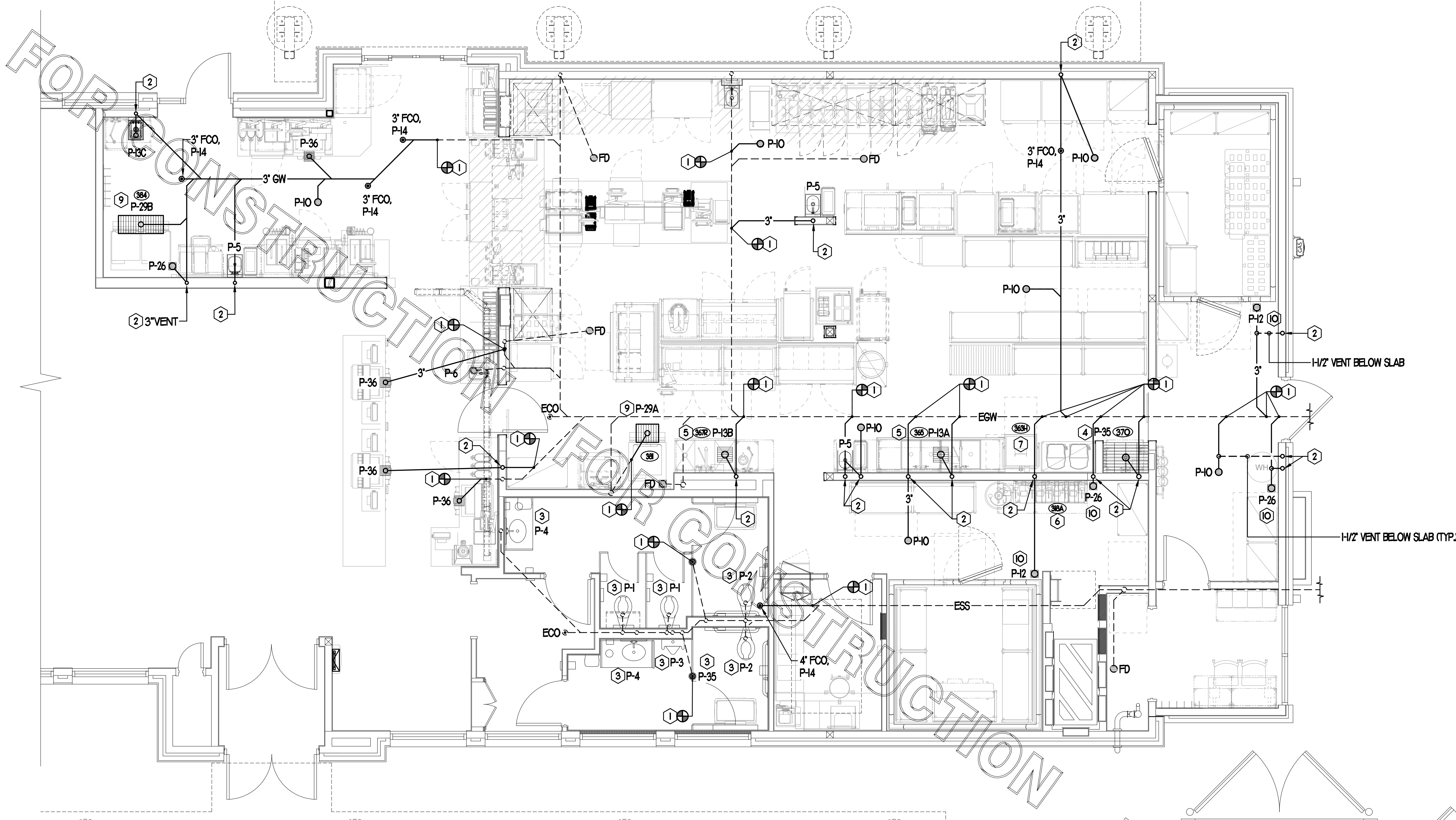
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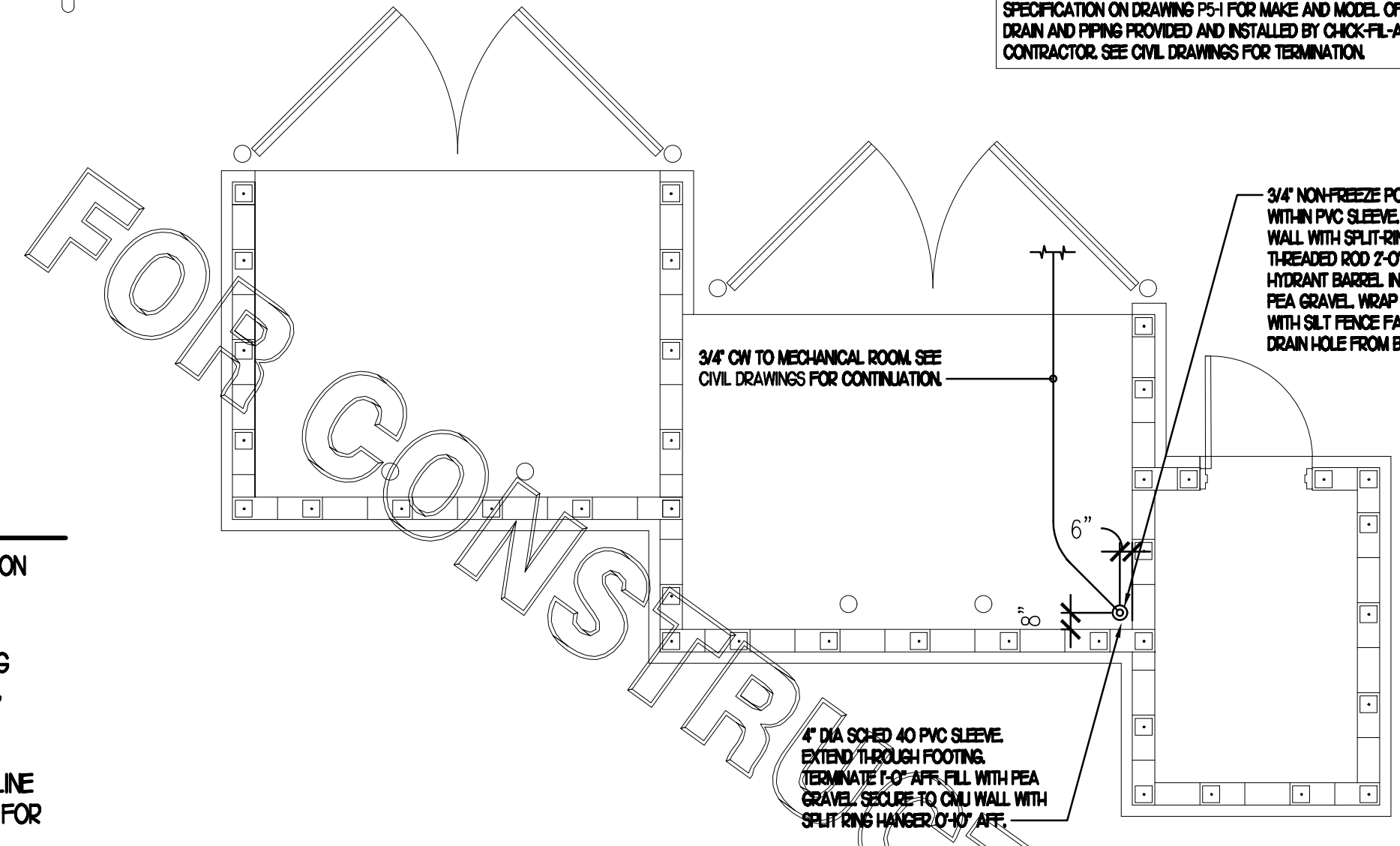
SHEET  
BELOW SLAB  
PLUMBING PLAN

SHEET NUMBER

**P1.1**



METHOD OF DRAINAGE AT REFUSE PAD -  
WHEN AREA DRAIN IS SHOWN ON CIVIL PLANS, SEE FIXTURE P-32  
SPECIFICATION ON DRAWING P-1 FOR MAKE AND MODEL OF DRAIN.  
DRAIN AND PIPING PROVIDED AND INSTALLED BY CHICK-FIL-A SITE  
CONTRACTOR. SEE CIVIL DRAWINGS FOR TERMINATION.



**1 BELOW SLAB PLUMBING PLAN**

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

**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/PW)	--- 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-36	INDIRECT WASTE RECEIVER	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.

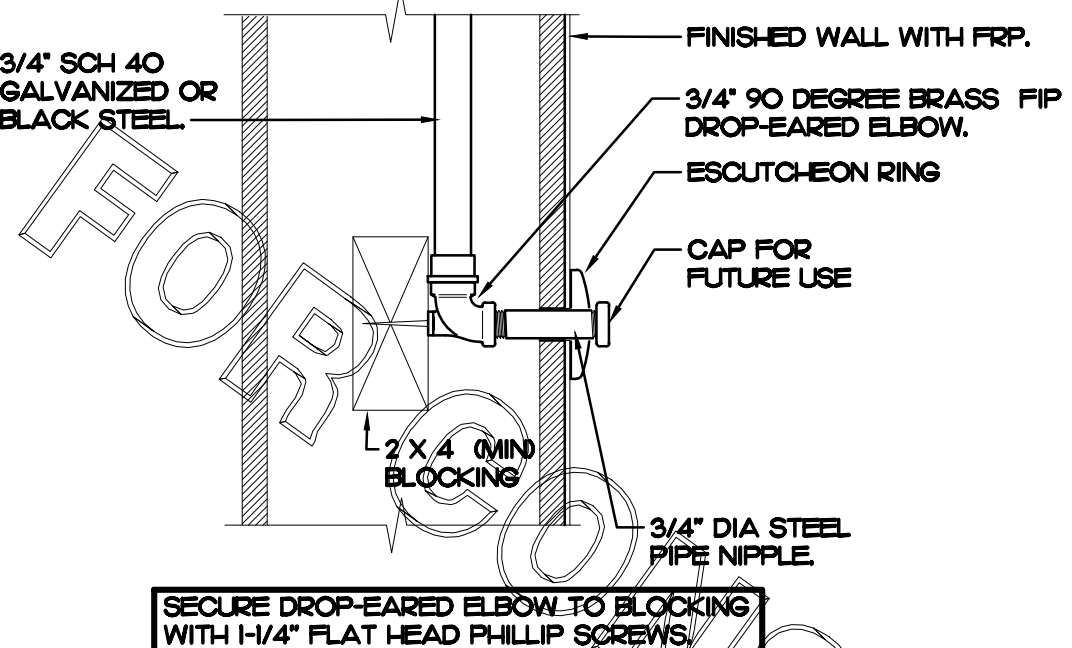
**KEY NOTES**

- CONNECT NEW WASTE/VENT 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.
- INSTALL NEW RESTROOM PLUMBING FIXTURE. MAKE CONNECTION TO EXISTING WASTE LINE LOCATED BELOW SLAB/WITHIN WALL. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL PIPE REQUIRED.
- INSTALL FLOOR DRAIN P-35 AT MOP SINK DEPRESSION WITH TOP OF STRAINER 0'-7" BFF.
- PROVIDE AND INSTALL NEW WASTE PIPING BELOW KITCHEN SINK. PROVIDE 1/2" SHED 40 PVC INDIRECT WASTE DRAIN FROM EACH SINK BASIN TO FLOOR SINK. NO P-TRAPS REQUIRED.
- OWNER PROVIDED, PLUMBER INSTALLED STOP/FFP PANEL. SEE K-SHEET ELEVATIONS FOR EXACT LOCATION. ROUTE 1" DIA SCHED 40 PVC BFF DRAIN TIGHT TO WALL TO TERMINATE AT MOP SINK DRAIN ON OPPOSITE SIDE OF WALL.
- ROUTE DRAIN LINE FULL SIZE TO FLOOR SINK LOCATED BELOW POT SINK AND TERMINATE WITH CODE APPROVED AIR GAP.
- WHERE NEW BUILDING ADDITION INTERFERES WITH EXISTING REFUSE PAD WATER LINE, PLUMBING CONTRACTOR SHALL ROUTE NEW 3/4" CW BELOW GRADE AS REQUIRED TO YARD HYDRANT. THERE SHALL BE NO JOINTS BELOW SLAB.
- TRANSITION OUTLET OF DRAIN FROM 4" DIA. TO 3" DIA. DRAIN LINE AND TRAP.
- PROVIDE WITH TRAP SEAL PROTECTOR, P-26A.

**3 REFUSE PAD PLUMBING**

SCALE: NONE

CONSTRUCTION



**2 DARPRO OIL PIPING SECTION WITHIN WALL**  
SCALE: NONE

**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 MU FOR DUCT LAYOUT. COORDINATE CONFLICTS WITH GC.
- SEE K-SHEET ELEVATIONS FOR KITCHEN EQUIPMENT WATER PIPING ROUGH-IN LOCATIONS.
- 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.

**PIPING LEGEND**

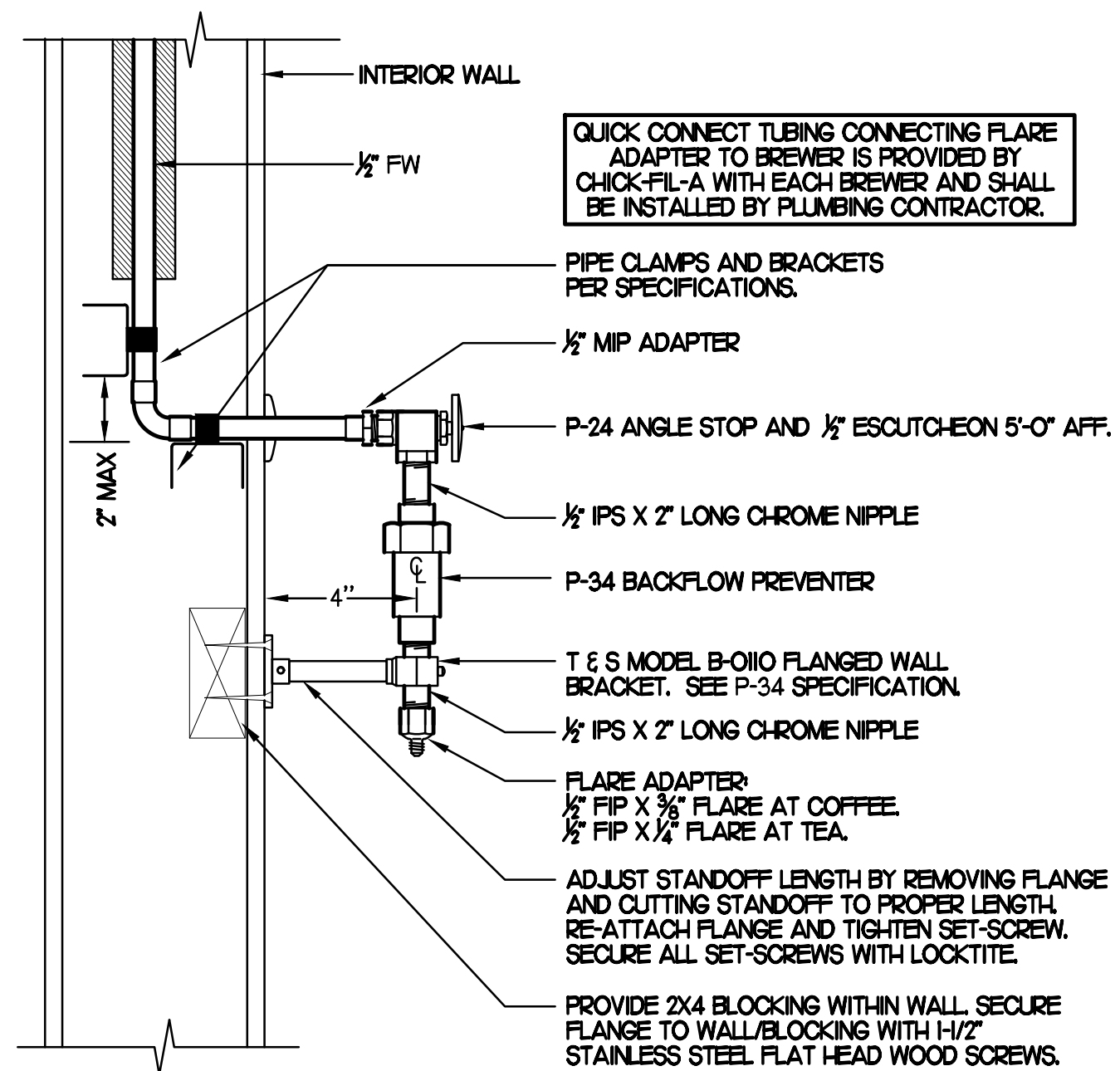
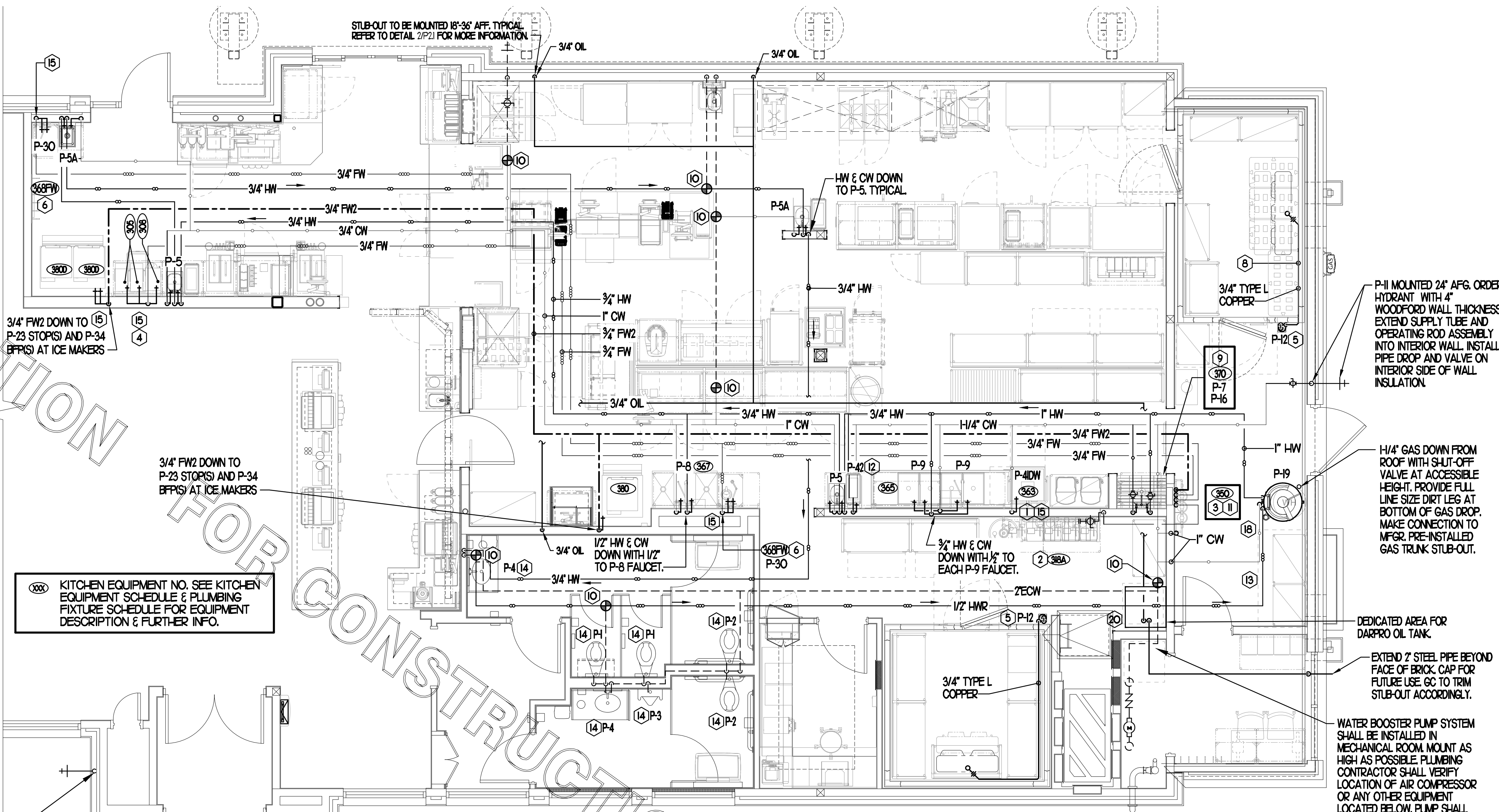
EXISTING COLD WATER (ECW)	--- ECW ---
EXISTING HOT WATER (EHW)	--- EHW ---
EXISTING FILTERED WATER (EFW)	--- EFW ---
EXISTING PREFILTERED WATER (EPW)	--- EPW ---
POINT OF CONNECTION	⊕
NEW COLD WATER	--- CW ---
NEW HOT WATER	--- HW ---
NEW TEMPERED WATER	--- TW ---
NEW FILTERED WATER	--- FW ---
NEW FW2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

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.

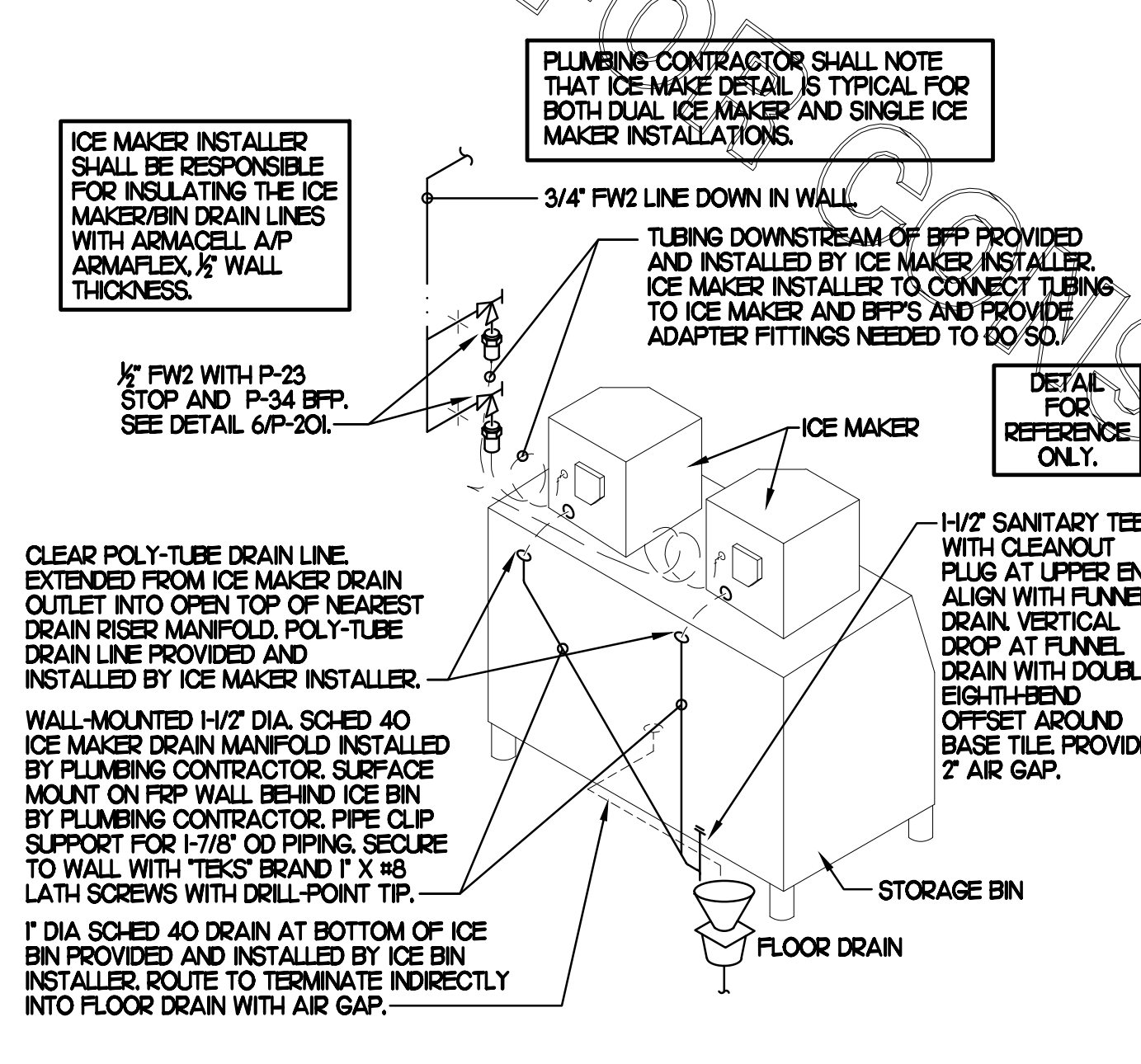
PLUMBING CONTRACTOR SHALL ROUTE ALL NEW VENT LINES SHOWN AND NOTED UP IN WALL AND TO ABOVE CEILING AND MAKE CONNECTION TO NEAREST VENT HEADER THE SAME SIZE OR LARGER.

**KEY NOTES**

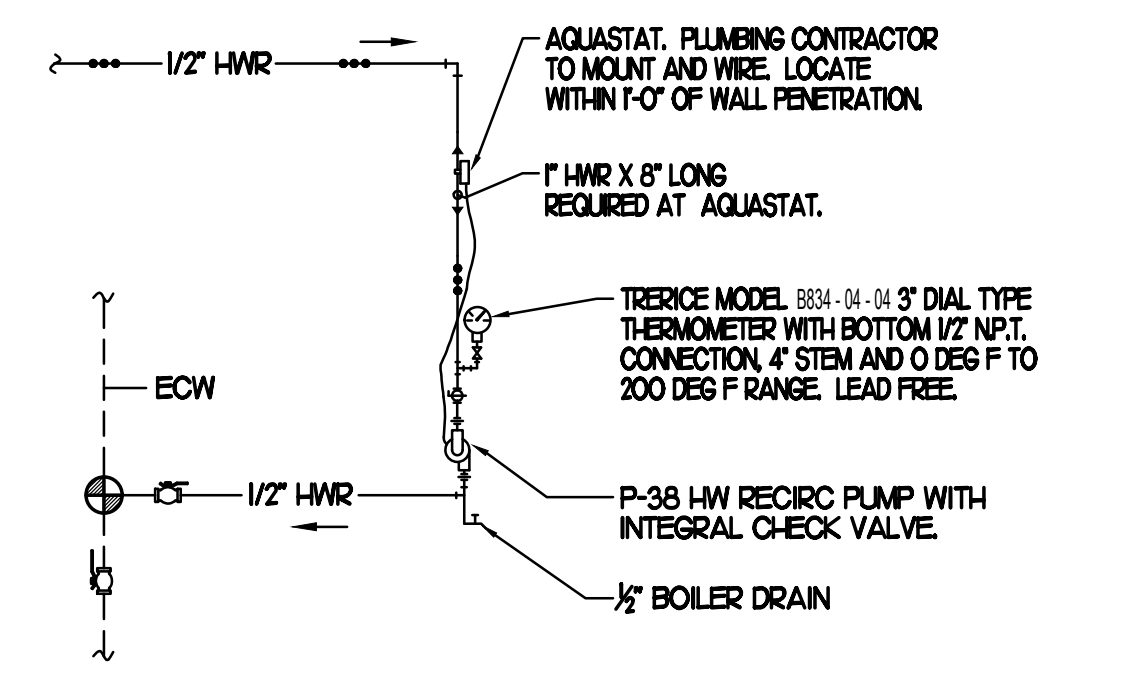
- 3/4" CW DOWN TO DISHWASHER. SEE K-SHEETS FOR ELEVATION AND ROUGH-IN HEIGHT. SEE SHEET P-303 FOR WATER PIPE INSTALLATION.
- OWNER PROVIDED, PLUMBER INSTALLED STOP/BFP PANEL. SEE K-SHEET ELEVATIONS FOR EXACT LOCATION. PROVIDE EXPOSED 3/4" BALL VALVE (P-28) AT CONNECTION TO PANEL. ROUTE 1" FVC FROM FACTORY PANEL DRAIN CONNECTION TO THROUGH WALL AND TERMINATE 12" ABOVE MOP SINK GRATE.
- FW & FW2 LINES FROM WATER FILTRATION SYSTEM REFER TO DETAIL ON P-22:
  - 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 P-12 FUNNEL DRAIN. SECURE 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. PROVIDE 2" DEEP TRAP WITH OPEN TEE OUTLET.
- 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 5XL-1, 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/WITHIN WALL.
- NEW WATER FILTERS. SEE DETAIL 9/P-21.
- ROUTE 1/2" HW & CW TO P-42 EMERGENCY EYEWASH MIXING VALVE. ROUTE 1/2" TW FROM P-42 VALVE TO EMERGENCY EYEWASH STATION.
- 1/2" HOT WATER RETURN LINE. MAKE CONNECTION TO CW INLET SIDE OF WATER HEATER. SEE DETAIL 4/P-14.
- INSTALL NEW FIXTURE IN RESTROOM. RECONNECT TO EXISTING CW 6"OR TW, VENT & SANITARY SEWER SERVICES.
- INSTALL SHOCK ABSORBER (P-25) AT TOP OF WATER LINE DROP DOWN TO FIXTURE.
- WATER HEATER CONCENTRIC PIPE VENT UP TO ROOF. OFFSET WITH MECHANICAL ROOM AS NECESSARY TO MAINTAIN 5'-0" CLEARANCE FROM PARAPET. SEE DETAIL 6/P-20 FOR WATER HEATER VENT ROOF PENETRATION.
- DISCHARGE CONDENSATE DRAIN PIPE INTO FUNNEL DRAIN LOCATED BELOW. CONDENSATE DRAIN PIPE SHALL BE ROUTED TIGHT TO WALL AND SHALL BE ROUTED THROUGH COMMERCIAL NEUTRALIZATION TANK W/ MEDIA PRIOR TO DISCHARGE.
- INSTALL NEW WATER HEATER (P-19). PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING NEW VENT/COMBUSTION AIR PIPING AND TERMINATING THROUGH NEW ROOF ABOVE AS REQUIRED BY MANUFACTURER WITH CONCENTRIC VENT. SEE SHEET P-41 FOR WATER PIPING DETAIL. PLUMBING CONTRACTOR SHALL VERIFY VENT TERMINATION IS MINIMUM OF 10'-0" AWAY FROM ANY OUTSIDE AIR INTAKE OFFSET AS REQUIRED.



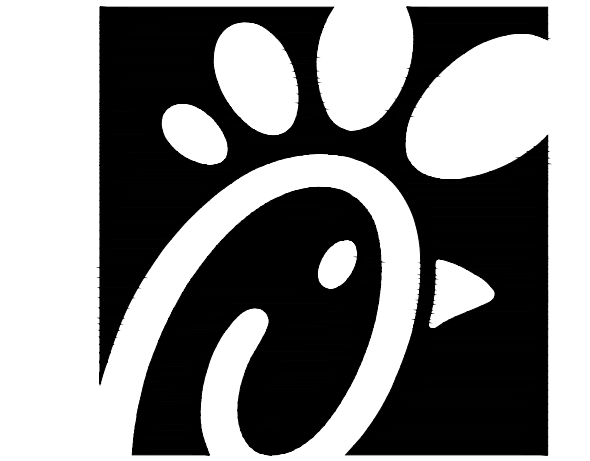
**6 COFFEE & TEA BREWER STOP & BFP**  
SCALE: NONE



**4 ICE MACHINE PIPING**  
SCALE: NONE



**3 HW RECIRC PIPING**  
SCALE: NONE



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SHEET ABOVE SLAB PLUMBING PLAN

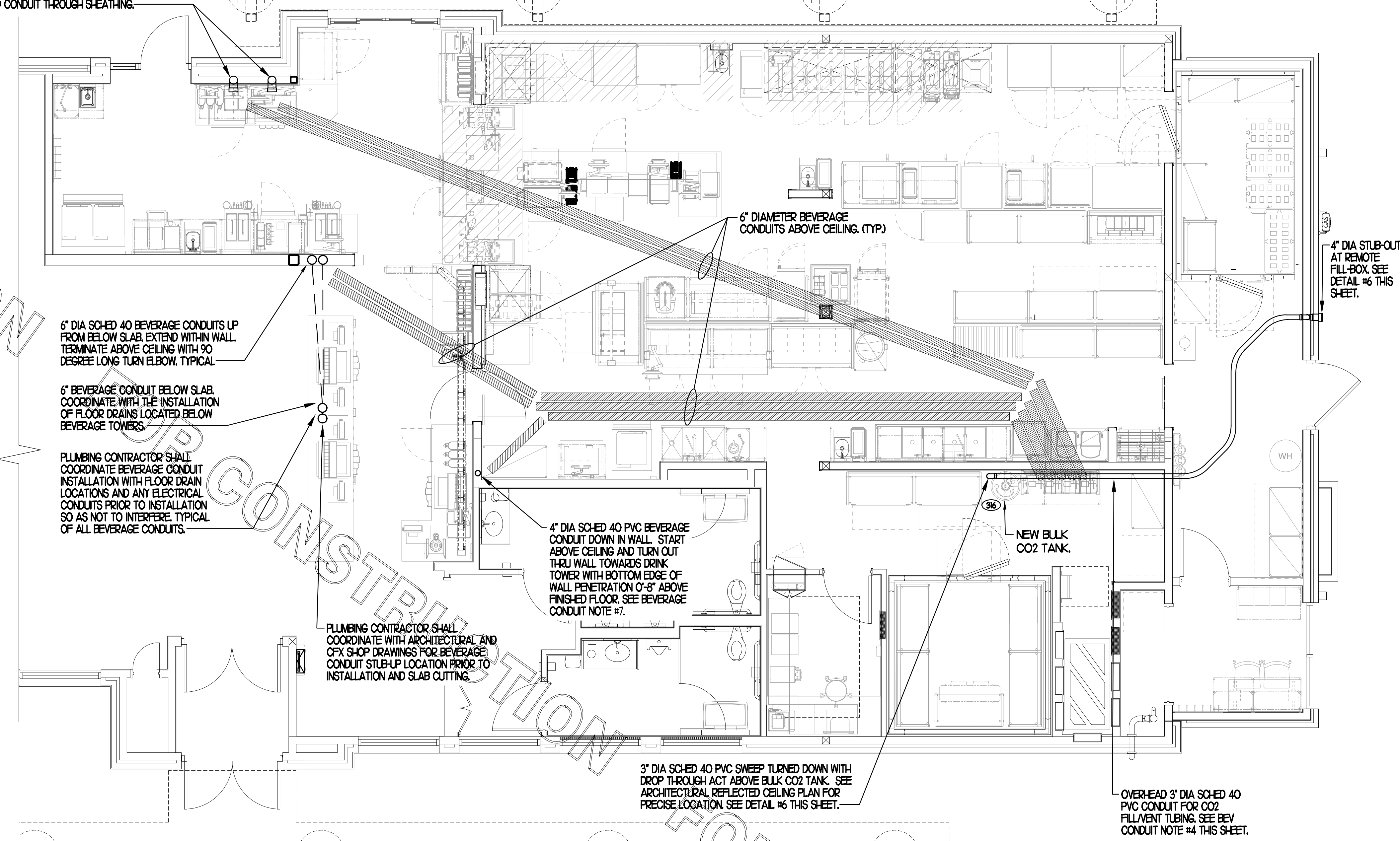
SHEET NUMBER

**P2.1**

CONSTRUCTION

FOR CONSTRUCTION

4" DIA SCHED 40 PVC BEVERAGE CONDUIT DOWN IN WALL. START ABOVE CEILING AND TURN OUT THRU WALL TOWARDS DRIVE-THRU DRINK TOWER WITH BOTTOM EDGE OF WALL PENETRATION 0'-8" ABOVE FINISHED FLOOR. LOCATE PENETRATION ALONG WALL AT CENTER OF DRINK TOWER. 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.



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

**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-HI FOR LOCATION OF AC UNITS AND DUCT ROUTING.
- TURN CONDUITS DOWN THROUGH THE CEILING AT THE BEVERAGE RACK AND PROVIDE CHROME 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.

**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
308	ICE BIN	X	X	X	X	INDIRECT	P-26 DRAIN
304	ICE BIN	X	X	X	X	INDIRECT	P-26 DRAIN
300R	ICE MAKER	X	1/2"	X	X	INDIRECT	P-23, SEE DET 4/P-21
300	ICE MAKER	X	(2) 1/2"	X	X	INDIRECT	P-23, SEE DET 4/P-21
592	RE-HEAT/RE-MILK	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.

**FIXTURE CONNECTION SCHEDULE**

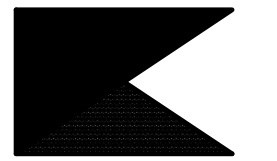
MARK	FIXTURE	FW	FW2	CW	HW	WASTE
P-1	WATER CLOSET - FLOOR MOUNT (1.6 GPF)	X	X	1"	X	4"
P-2	WATER CLOSET - ADA FLOOR MOUNT (1.6 GPF)	X	X	1"	X	4"
P-3	URINAL - ADA WALL HUNG (1.0 GPF)	X	X	3/4"	X	2"
P-4	LAVATORY - ADA COUNTER TOP (0.50 GPM)	X	X	1/2"	1/2"	1-1/4"
P-5	KITCHEN HAND SINK - WALL HUNG (1.0 GPM)	X	X	1/2"	1/2"	1-1/2"
P-5A	KITCHEN DUMP SINK - WALL HUNG (1.0 GPM)	X	X	1/2"	1/2"	1-1/2"
P-6	SINGLE COMP SINK - COUNTERTOP (1.0 GPM)	X	X	1/2"	1/2"	1-1/2"
P-7	MOP SINK	X	X	1/2"	1/2"	3"
P-8	VEGETABLE PREP SINK (0.65 GPM SPRAYER)	X	X	1/2"	1/2"	(2) 1-1/2"
P-9	POT SINK (0.65 GPM SPRAYER)	X	X	(2) 1/2"	(2) 1/2"	(4) 1-1/2"
P-10	FLOOR DRAIN (ROUND TOP)	X	X	X	X	3"
P-11	WALL HYDRANT (NON FREEZE)	X	X	3/4"	X	X
P-12	FUNNEL DRAIN (3")	X	X	X	X	3"
P-13A	FLOOR SINK (3") 1/2" TOP	X	X	X	X	3"
P-13B	FLOOR SINK (3") 8" TOP	X	X	X	X	3"
P-13C	FLOOR SINK	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 (18"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-31	DUMPSTER POST HYDRANT	X	X	3/4"	X	X
P-32	DUMPSTER DRAIN	X	X	X	X	3"
P-33	TRAP PRIMER (MECHANICAL TYPE)	X	X	1/2"	X	X
P-34	DISPENSER BACKFLOW PREVENTER	1/2"	X	X	X	X
P-35	FLOOR DRAIN	X	X	X	X	3"
P-36	BEVERAGE TOWER INDIRECT RECEIVER	X	X	X	X	3"
P-37	FLOOR DRAIN (SQUARE TOP)	X	X	1/2"	X	3"
P-38	HOT WATER CIRCULATING PUMP	X	X	X	1/2"	X
P-40DW	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

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



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10975 JOHNS HOPKINS RD  
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**FSR#01999**

BUILDING TYPE / SIZE: S06E  
RELEASE: V04.23

REVISION SCHEDULE  
NO. DATE DESCRIPTION

CONSULTANT PROJECT # 23108.HF.R  
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SHEET BEVERAGE CONDUIT PLAN

SHEET NUMBER

**P2.2**

CONSTRUCTION

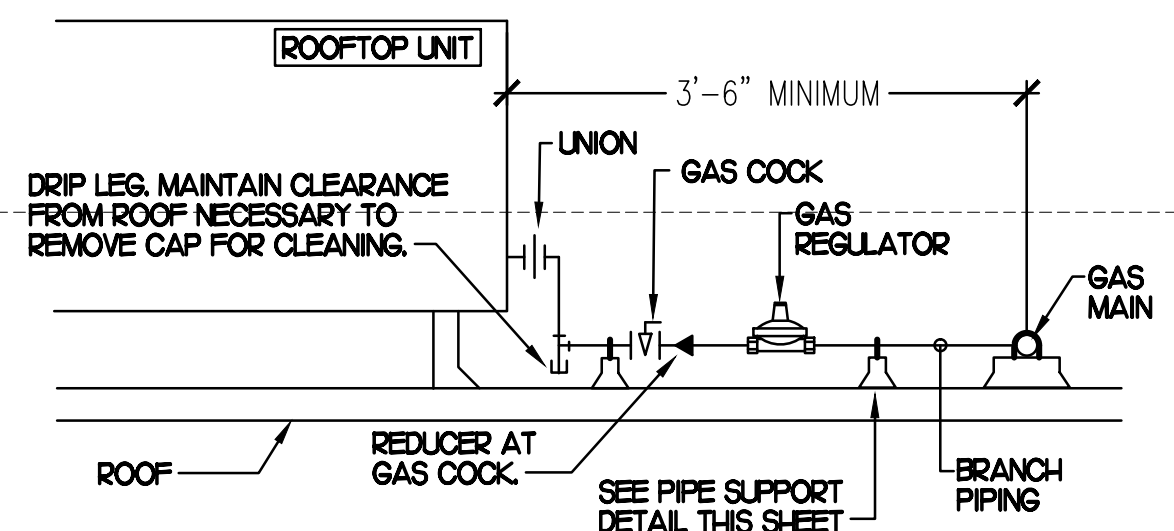
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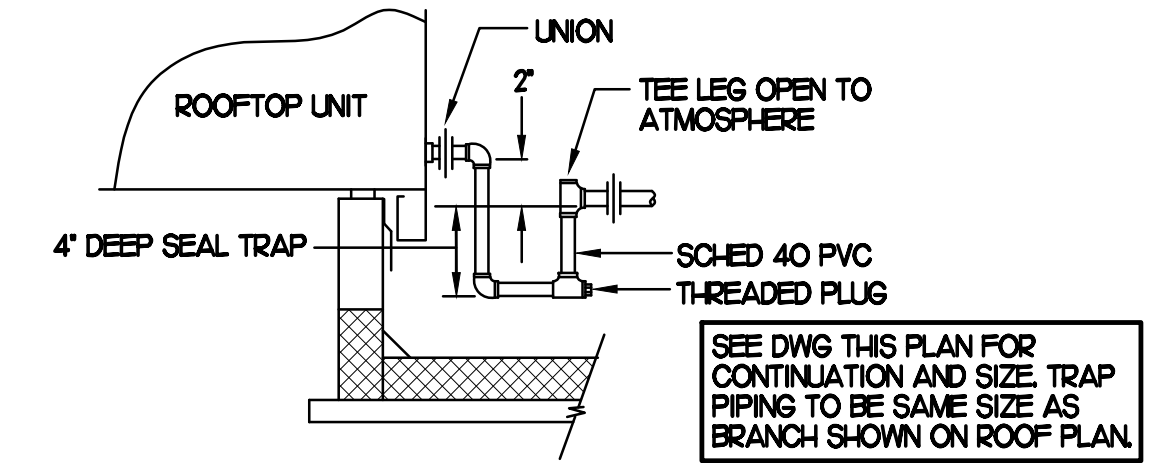
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**1 PLUMBING ROOF PLAN**  
SCALE: 1/4"=1'-0"

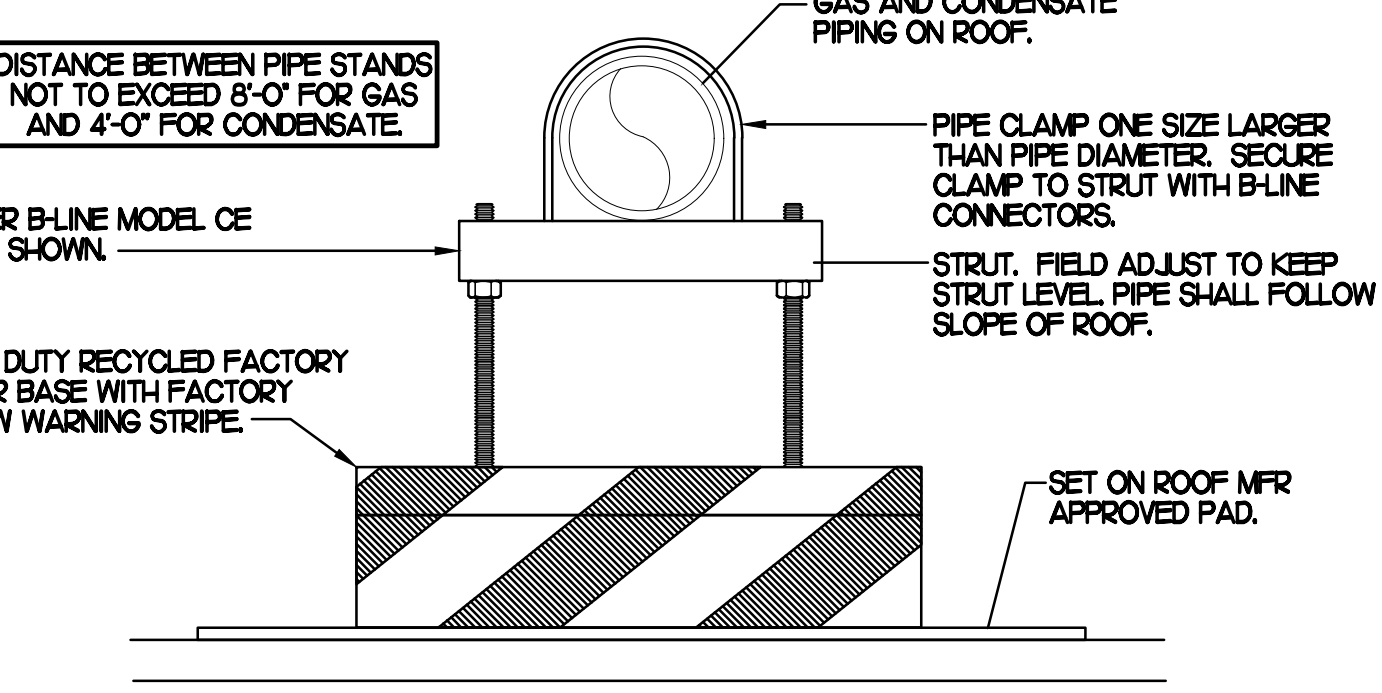
- NOTES:**
- NON ADJUSTABLE MODEL C10 PIPE STAND TO BE USED FOR NON-ELEVATED PIPING INSTALLED FLAT ON ROOF DECK.
  - PROVIDE MODEL CE-8 OR CE-12 OR CE-16 AS NEEDED FOR ELEVATING CONDENSATE PIPING TO MAINTAIN PROPER SLOPE AND FOR GAS PIPING CROSSING OVER CONDENSATE PIPING.
  - ENSURE GAS AND CONDENSATE 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.



**3 GAS PIPING AT RTU**  
NO SCALE



**2 CONDENSATE DRAIN PIPING**  
NO SCALE



**4 PIPING SUPPORT**  
NO SCALE

**KEY NOTES**

- ROOF DRAIN: JAY R. SMITH MODEL 1800Y0X-AE, CAST IRON BODY, FLASHING CLAMP, POLYETHYLENE DOME, 2" HIGH WATER DAM AT OVER FLOW, SUMP RECEIVER & ADJUSTABLE EXTENSION. REFER TO PLANS FOR SIZES. DRAIN OUTLET SHALL BE SIZED SAME AS STORM PIPING.

**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.

**ROOF PIPING NOTE:**  
PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION OF EXISTING GAS & CONDENSATE PIPING NO LONGER NEEDED ALONG WITH THE INSTALLATION OF ALL NEW GAS & CONDENSATE PIPING REQUIRED. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NEW PIPING REQUIRED. WHERE EXISTING PIPE SIZE IS NOTED, IF VERIFIED IN FIELD EXISTING SIZE IS SMALLER THAN PLANS, PLUMBING CONTRACTOR SHALL INSTALL NEW PIPE SIZED AS NOTED ON PLAN.

GAS CONNECTION SCHEDULE	
EQUIPMENT	GAS LOAD
ACH1 (EXISTING)	480,000 BTUS
ACH2 (EXISTING)	240,000 BTUS
ACH3 (EXISTING)	240,000 BTUS
ACH4 (EXISTING)	150,000 BTUS
WATER HEATER (NEW)	125,000 BTUS
GH#6 (50,000) EA	300,000 BTUS
<b>TOTAL CONNECTED LOAD</b>	<b>1,535,000 BTUS</b>

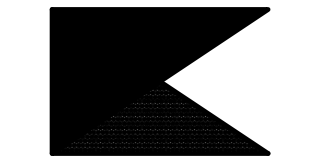
  

REMARKS:	
1)	EQUIVALENT TO 1535.0 CFH
2)	7" W.C. DELIVERY PRESSURE
3)	DEVELOPED LENGTH 125 FT. (METER TO ACH4), 150 FEET TO GH AT P2F ORDER CANOPY.
4)	VERIFY GAS LOAD OF EXISTING EQUIPMENT.



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SHEET  
ROOF PLAN  
AND DETAILS

SHEET NUMBER

CONSTRUCTION



# I. SECTION CIS100 - PLUMBING SPECIFICATIONS

## PART I - PRODUCTS (C15100)

1.01 GENERAL REQUIREMENTS  
 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 PATTERN FITTINGS SOLDERED USING 95-5 LEAD-FREE SOLDER MEETING ASTM B-32 OR BRAZED WITH SIL-ROS. SOLDER FLUXES SHALL MEET ASTM B-813 AND SHALL BE LEAD FREE. BRAZING FLUXES SHALL MEET AWS F83.1 OR F83-C.
  - D. WATER PIPING DOWNSTREAM OF SOFT DRINK CARBONATORS SHALL BE PROVIDED AND INSTALLED BY LOCAL SOFT DRINK VENDOR.
  - E. CPVC FITTINGS FOR PIPING SHALL BE SOLVENT WELD TYPE MEETING ASTM D-2846 WITH CEMENTS MEETING ASTM F-493 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. FOR CPVC PIPING INSTALLATION, WALL STUBS AT FIXTURES AND EQUIPMENT SHALL BE COPPER AND SHALL BE SERIES 630-C. CPVC TO COPPER STUB OUT-ELBOWS BY SIOUX CHIEF.
  - F. NIPPLES, ELBOWS, AND OTHER ACCESSORY FITTINGS REQUIRED TO COMPLETE ANY WATER PIPING CONNECTION SHALL BE BRASS OR OF SIMILAR TYPE METAL AS THE FITTING TO WHICH IT IS CONNECTED. GALVANIZED FITTINGS ARE PROHIBITED. (EXCEPTION: GALVANIZED HEAT TRAP WATER HEATER NIPPLES IF INTERNALLY PROTECTED WITH TEFLON OR POLYMER CORROSION-RESISTANT COATING.)
  - G. ALL HVAC CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC DWV AS MANUFACTURED BY CHARLOTTE PIPE AND MEETING ASTM D-1784, D-1785 AND D-2665.
  - H. U.N.O. ALL SANITARY WASTE, VENT, STORM DRAINAGE PIPING AND FITTINGS INSIDE THE BUILDING, ABOVE AND BELOW GRADE, AND FOR ROOFTOP CONDENSATE, SHALL BE SOLID WALL SCHEDULE 40 PVC DWV AS MANUFACTURED BY CHARLOTTE PIPE AND MEETING ASTM D-2665 AND D-2949. FOAM CORE AND/OR CELLULAR CORE PVC PIPING SHALL NOT BE ALLOWED. PVC PIPING OUTSIDE THE BUILDING, BELOW GRADE, SHALL BE TYPE SDR-35 MEETING ASTM D-3034, U.N.O.
  - I. DWV PIPE AND FITTINGS WITHIN WALLS BEHIND KITCHEN HOODS SHALL BE SERVICE WEIGHT HUBLESS CAST IRON WITH SLEEVE, SHIELD, AND DRAWBAND JOINTS MEETING ASTM A-888 AND ASTM C-564.
  - J. PVC-DWV FITTINGS FOR PIPING SHALL BE SOLVENT WELD TYPE INSIDE AND UNDERSLAB MEETING ASTM D-2665, D-3311 AND F-186. CEMENTS SHALL MEET ASTM D-2564 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. EXTERIOR PIPING JOINTS SHALL BE NEOPRENE PUSH-ON TYPE.
  - K. PROVIDE 1" THICK PIPE INSULATION FOR ALL ABOVE SLAB HOT AND TEMPERED WATER PIPING. PROVIDE 1/2" THICK INSULATION FOR ALL ABOVE SLAB COLD WATER, FILTERED WATER, CONDENSATE PIPING, AND HORIZONTAL RAIN WATER CONDUCTORS INSIDE THE BUILDING. PIPING INSULATION SHALL BE KNAUF 100F 25/50 FIBERGLASS PIPE COVERING, WHITE KRAFT PAPER VAPOR BARRIER (.02 PERMS) BONDED TO ALUMINUM FOIL AND REINFORCED WITH GLASS FIBERS. MAXIMUM THERMAL CONDUCTIVITY OF 0.23 AT 75F. LONGITUDINAL LAP SHALL BE SELF SEALING. INSULATION FOR WALK-IN COOLER/FREEZER CONDENSATE PIPING SHALL BE 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 PIPING 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 SERVICING FIXTURES WITH FLUSH VALVES SHALL BE SECURELY ANCHORED IN THEIR VERTICAL POSITION.
- E. SANITARY WASTE LINES SHALL BE UNIFORMLY GRADED TO ELEVATIONS SHOWN. IF NO ELEVATIONS ARE GIVEN, SEWERS SHALL BE PITCHED NOT LESS THAN 1/4" PER FOOT FOR ALL PIPING 2-1/2" IN DIAMETER AND SMALLER AND 1/8" PER FOOT FOR ALL PIPING 3" IN DIAMETER AND LARGER.

STORM PIPING SHALL BE SLOPED AT 1/4" PER FT (2%) UNLESS NOTED OTHERWISE ON PLANS.  
 SUPPORT HORIZONTAL PIPING ACCORDING TO LOCAL PLUMBING CODE. HANGER RODS SHALL BE SIZED AS FOLLOWS:

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

- H. HANGERS FOR PIPING GREATER THAN 1" SHALL PASS OVER THE INSULATION. PROVIDE SADDLES FOR INSULATED PIPING.
  - I. INSULATION SHALL BE APPLIED WITH JOINTS TIGHTLY BUTTED. OPEN CRACKS, VOIDS AND DEPRESSIONS SHALL BE FILLED WITH HYDRAULIC SETTING GEMENT. LAPPING MATCHING THE FINISH SHALL BE PASTED NEATLY OVER JOINTS. FITTINGS AND VALVES SHALL BE INSULATED WITH THE SAME TYPE.
  - J. PROVIDE AND INSTALL A CUT-OFF VALVE, UNION AND FULF SIZE DIRT LEG AT CONNECTION TO EACH GAS-FIRED PIECE OF EQUIPMENT. INSTALL PIPING AT AND AROUND EQUIPMENT SO AS TO NO WAY OBSTRUCT EQUIPMENT ACCESS PANELS AND/OR ACCESS DOORS.
  - K. COORDINATE ABOVE-CEILING PIPING LOCATIONS AND ROUTING WITH HVAC CONTRACTOR AND M-SHEETS PRIOR TO INSTALLATION. ALL MAIN DUCT TRUNK LOCATIONS SHALL TAKE PRIORITY. PIPING MAY REQUIRE REMOVAL AND REINSTALLATION AT PLUMBING CONTRACTOR'S EXPENSE IF PIPING OBSTRUCTS THE M-SHEET DUCT LAYOUT AS SHOWN OR PREVENTS ACCESS TO GREASE DUCT CLEANOUT OPENINGS.
  - L. ALL GAS PIPING ABOVE ROOF SHALL BE CLEANED FREE OF RUST AND PAINTED WITH 60A1 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 BORED UNDERGROUND.
- 2.03 TESTING (C15100)
- A. POTABLE WATER PIPING SHALL BE PRESSURE TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.
  - B. THE POTABLE WATER SYSTEM SHALL BE FLUSHED OUT PROGRESSIVELY BY OPENING OUTLETS AND FLOWING WATER UNTIL IT RUNS CLEAR. AFTER PIPE CLEANING IS COMPLETED, THE STRAINERS SHALL BE REMOVED, CLEANED, AND REPLACED. THEN THE ENTIRE POTABLE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.
  - C. THE SANITARY WASTE SYSTEM SHALL BE FLUSHED OUT PROGRESSIVELY WITH FLOWING WATER UNTIL IT RUNS CLEAR.
  - D. THE ENTIRE SANITARY WASTE SYSTEM AND STORM DRAINAGE SYSTEM SHALL BE PRESSURE TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.
  - E. NATURAL GAS PIPING SHALL BE LEAK TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

## PART III - MANUFACTURERS

- 3.01 PRODUCTS - PIPING SYSTEMS, ETC (C15100)
  - A. HYDRANTS, CARRIERS, DRAINS, AND SHOCK ABSORBERS: ZURN. ACCEPTABLE ALTERNATES: JAY R. SMITH, JONES STEPHENS CORP, WATTS, OR JOSAM.
  - B. ALTERNATES TO ZURN (ZRN) FIXTURES: ONLY AS SHOWN ON PLANS. APPROVED JAY R. SMITH (JRS), WATTS (WTS), MODEL NUMBERS LISTED ON FIXTURE SCHEDULE, THIS SHEET.
- 3.02 PRODUCTS - RESTROOM FIXTURES PORCELAIN & VALVES (C15405)
  - A. PREFERRED FIXTURES: TOTO. NO EXCEPTION.
  - B. ALTERNATE FIXTURES: ONLY AS SHOWN ON PLANS.
  - C. FITTINGS: AS SPECIFIED ON THE PLANS. NO SUBSTITUTIONS ALLOWED.
  - D. FLUSH VALVES AND LAVATORY FAUCETS: TOTO MANUFACTURING. NO SUBSTITUTIONS ALLOWED.
  - E. PREFERRED TOILET SEATS: TOTO. ALTERNATE TOILET SEATS: CHURCH, BEMIS, AND BENEKE.
  - F. FLOOR SINKS: ZURN WITH ALUMINUM SEDIMENT BUCKETS. NO SUBSTITUTIONS ALLOWED.

# 2. PLUMBING FIXTURES

## RESTROOM FIXTURES (C15405)

- P-1 WATER CLOSET: TOTO MODEL CT705LUN=01 BOWL WITH 128 GPF TETILA32=0P ECO-POWER FLUSH VALVE AND SC534 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 CT705LUN=01 BOWL WITH 128 GPF TETILA32=0P ECO-POWER FLUSH VALVE AND SC534 SEAT. NO SUBSTITUTIONS. HC, 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 UT445LUN=01 URINAL WITH TELLURIA2=0P 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-4A LAVATORY FAUCET: BUILT-IN COUNTERTOP LAVATORY PROVIDED BY OWNER. TOTO MODEL T2855=0P ECO-POWER SENSOR HOT/COLD FAUCET WITH THERMOSTATICALLY CONTROLLED ASSE 1070 MIXING VALVE FAUCET. 0.025 GALLONS PER CYCLE. NO SUBSTITUTIONS. PROVIDE MCGUIRE LF175 SUPPLY WITH STOP. MCGUIRE 155-WG GRID DRAIN WITH OFFSET TAIL PIECE. MCGUIRE 8912C POLISHED CHROME P-TRAP. P-TRAP SHALL BE PARALLEL WITH BACK WALL. PROVIDE A TRILEERO INC. HAND LAV-GUARD INSULATION KIT MODELS IOE2 AND IOE2Z. 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 #TEL63-C20ETHOP - PROVIDED WITH HP3094 NOZZLE. CONTRACTOR SHALL INSTALL WALL HUNG, STAINLESS STEEL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE LF175 SUPPLIES WITH STOPS AND A MCGUIRE 8912C POLISHED CHROME P-TRAP. 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 B1446-CFA-VF05 - PROVIDED WITH HP3094 NOZZLE. CONTRACTOR SHALL INSTALL WALL HUNG, STAINLESS STEEL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE LF175 SUPPLIES WITH STOPS. PROVIDE MCGUIRE 8912C POLISHED CHROME P-TRAP PROVIDED BY HJC.
- P-6 SERVING COUNTER DROP IN SINK ROUGH-IN (SINK BY CLAYTON FIXTURE) FAUCET: TOTO T24TETHOP WITH 1.0 GPM AERATOR. CONTRACTOR SHALL INSTALL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. PROVIDE A MCGUIRE 8912C POLISHED CHROME P-TRAP AND MCGUIRE LF175R20 SUPPLIES WITH STOPS WITH 2" CHROME PLATED 3/8" COPPER RISERS. ADJUST FAUCET OUTLET TEMPERATURE TO 110 DEGREES F (OR HIGHER AS REQUIRED BY LOCAL JURISDICTION).
- P-7 MOP SINK FAUCET: MOP SINK BASIN BUILT BY GENERAL CONTRACTOR. PROVIDE TMS BRASS MODEL B-2345 FAUCET WITH CERAMA SPRING CHECK VALVE CARTRIDGES, HOSE THREAD SPOUT OUTLET, TOP BRACE, ADJUSTABLE INLET SPREAD FROM 3" TO 8". INCLUDE TMS BRASS MODEL 43-072 HOSE THREAD X 3/4" FEMALE NPT CHROME ADAPTER. NO SUBSTITUTIONS. SEE ALSO P-16.
- P-8 VEGETABLE PREP SINK ROUGH-IN (SINK BY TMS) FAUCET: TMS B-0152-4-CRBT WITH 0.65 GPM SPRAY HEAD. CONTRACTOR SHALL INSTALL SINK AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE LF175R20 STOPS AND BRASS-CRAFT 36" CHROME PLATED 1/2" OD COPPER RISERS MODEL 3-36AC. ASSEMBLE AND MOUNT TWO-HANDLE FAUCET WITH PRE-RINSE SPRAY ARM. INSTALL ADD-ON FAUCET WITH SPOUT AT BASE OF PRE-RINSE RISER. SEE K-SHEET ELEVATIONS. PROVIDE 1/2" SCHED 80 PVC (PIPE AND FITTINGS) INDIRECT WASTE LINES FROM EACH SINK BASIN TO FLOOR SINK P-13B, NO P-TRAPS. HJC TO PROVIDE FISHER #2209 DRAINS WITH FLAT STRAINERS.
- P-9 FOUR COMPARTMENT POT SINK ROUGH-IN (SINK BY TMS) FAUCETS: TMS B-0152-4-CRBT & B2299-CR WITH 0.65 GPM SPRAY HEAD. CONTRACTOR SHALL INSTALL SINK, ASSEMBLE & MOUNT TWO FAUCETS, AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE LF175R20 STOPS AND BRASS-CRAFT 36" CHROME PLATED 1/2" OD COPPER RISERS MODEL 3-36AC. ASSEMBLE AND MOUNT ONE TWO-HANDLE FAUCET WITH PRE-RINSE SPRAY ARM. 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-13B, NO P-TRAPS. HJC TO PROVIDE FISHER #2209 DRAINS WITH FLAT STRAINERS.
- P-10 FLOOR DRAIN (3") ZURN E21-PV3-R6 BRONZE SPUD WITH 8" DIAMETER NICKEL BRONZE STRAINER. ALT: JONES STEPHENS CORP D53-144.
- P-11 WALL HYDRANT (NON-FREEZE) WOODFORD MODEL 67C AUTOMATIC DRAINING WALL HYDRANT WITH DUAL CHECK BFP. ASSE 1062 APPROVED. WALL CLAMP, POLISHED BRASS FINISH, 1" STYLE INLET. SEE WALL HYDRANT NOTES ON I/P-201 FOR WALL THICKNESS AT WALL HYDRANTS. ALT: (WTS) HY-42.
- P-12 FUNNEL DRAIN (3") ZURN MODEL ZN415-3N-4S-4 FLOOR DRAIN W/FUNNEL. INDIRECT WASTE RECEIVER WITH NICKEL BRONZE STRAINER AND PLUNGER. PROVIDE 6" SQUARE STRAINER WITH 4" ROUND FUNNEL. AT WALK-IN COOLER. 4" ROUND FUNNEL ZURN ZN328-4.
- P-13A FLOOR SINK (POT SINK) ZURN MODEL Z1901-IN-4-23-KC CAST IRON INDIRECT WASTE RECEIVER WITH 12" SQUARE BODY, FLASHING CLAMP, 8" DEEP, ALUMINUM SEDIMENT BUCKET, AND NO GRATE. NO SUBSTITUTIONS.
- P-13B FLOOR SINK (VEGETABLE SINK) ZURN MODEL Z1910-3N-1-23-KC CAST IRON INDIRECT WASTE RECEIVER WITH FLASHING CLAMP, 8" SQ. BODY, ALUMINUM SEDIMENT BUCKET, AND NO GRATE. NO SUBSTITUTIONS.
- P-13C FLOOR SINK (DUMP SINK) 3" WASTE CONNECTION: ZURN MODEL Z1910-NL-KC-2-23-CAST-IRON BODY WITH INDIRECT WASTE RECEIVER, NEO-LOC OUTLET, ANCHOR FLANGES WITH SEERAGE HOLES AND CLAMP COLLAR, WITH HALF GRATE, AND ALUMINUM BUCKET. PROVIDE BY HJC. NO SUBSTITUTIONS.
- P-14 CLEANOUTS INSIDE BUILDING: ZURN ZN400-XNL-T-HP CLEANOUT WITH 6" SQUARE NICKEL BRONZE TOP AND TAPER THREAD BRONZE PLUG. SEE PLAN FOR SIZE, OX-PIPE DIA.
- P-15 CLEANOUTS OUTSIDE BUILDING: ZURN Z1474-NK EXTRA HEAVY DUTY CAST IRON CLEANOUT, CO. CAST IN COVER, ABS PLUG, NEO-LOC OUTLET, OX-PIPE DIA. ALT: ZURN Z1474-X-NL.
- P-16 3-WAY DIVERTER VALVE ASSEMBLY: WATTS MODEL LFB 6780 ROUGH BRASS LEAD-FREE DIVERTER BALL VALVE WITH 3/4" FIP INLET AND QUARTER TURN LEVER HANDLE. PROVIDE WITH TWO (2) FORGED BRASS 3/4" MIP X 3/4" MALE GARDEN HOSE THREAD ADAPTERS PLUMBEST MODEL 620-003 OR EQUAL. PROVIDE WITH ONE ASSE 1011 APPROVED CHROME PLATED VACUUM BREAKER WOODFORD MODEL 34H-04 OR EQUAL. FOR INSTALLATION AT MOP SINK. SEE DETAIL ON P.41. 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 #LFR66M, 3/4" CONNECTION.
- P-18 EXPANSION TANK: AO SMITH MODEL TW12-5, ACCEPTANCE 219 GALLONS AT 40 PSI PRECHARGE. 3/4" CONNECTION. ALTERNATE MODELS SIZED PER WATER HEATER MANUFACTURER RECOMMENDATIONS ARE ACCEPTABLE.
- P-19 WATER HEATER BRADFORD-WHITE EF-60T-125E-3N STORAGE TYPE GAS FIRED 60 GALLON WATER HEATER. 125 MBH INPUT, 145 GPM RECOVERY. AT 100F RISE. DIRECT VENT, BLOWER POWERED, CONDENSING TYPE WITH THREE-YEAR WARRANTY. CONTRACTOR TO PROVIDE DIELECTRIC HEAT TRAP NIPPLES AND CONCENTRIC VENT TERMINATION KIT. STATE INDUSTRIES SFL-100-199-NE, R-BEM G-E80-130, AND BRADFORD WHITE EF-60T-199-3N MODELS ARE ACCEPTABLE SUBSTITUTES.

P-20 THERMOMETER: PROVIDE THERICE MODEL B83404 - O4 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. LFUC007MIQT 1/2" DUAL CHECK MODULAR TYPE BACKFLOW PREVENTER. ASSE 1015 AND AWWA C510-92. WHEEL REQUIRED BY LOCAL AUTHORITY, USE THE RPZ TYPE BFP SHOWN BELOW. ALT: ZURN IJ2-390XL.

REDUCED PRESSURE ZONE (RPZ) TYPE: WATTS NO. LFUC007MI 1/2" MODULAR TYPE WITH TEST PORTS AND INTERMEDIATE RELIEF VALVE MEETING ASSE 1013 AND AWWA 511-99. PROVIDE WATTS NO. 909-AG-C AIR GAP DEVICE. ALT: ZURN IJ2-975XL-T21.

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

P-23 UTILITY CONNECTION (ICE MAKER): PROVIDE A MCGUIRE MODEL LF-15T06SB LEAD-FREE CHROME WHEEL ANGLE STOP, 1/2" FIP INLET AND OUTLET. PROVIDE CHROME WALL ESCUTCHEON. INSTALL WITH BFP P-34. SEE DETAIL ON P.41 FOR PIPING AT ICE MAKERS.

P-24 UTILITY CONNECTION (COFFEE & TEA BREWERS): PROVIDE A MCGUIRE MODEL LF-15T06SB LEAD-FREE CHROME WHEEL ANGLE STOP, 1/2" FIP INLET & OUTLET. PROVIDE CHROME WALL ESCUTCHEON. INSTALL WITH BFP P-34.

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

P-26 FUNNEL DRAIN (3") ZURN ZN415-3N-8S-OF FLOOR DRAIN W/FUNNEL. INDIRECT WASTE RECEIVER WITH NICKEL BRONZE STRAINER AND FUNNEL. PROVIDE 6" ROUND STRAINER WITH 3.25"X3.25" OBLONG FUNNEL. ALT: (JRS) 3510L03-P22N.

P-26A TRAP SEAL PROTECTOR PROVENT TRAP GUARD MODEL T63H 3" TRAP SEAL INSERT FOR INTERIOR INSTALLATION AND REPLACEMENT ACCESS THROUGH STRAINER. PROVIDE AS NOTED ON PLAN. PROVIDE PROSET MODEL T639-ZURN WHEN USING ZURN FLOOR FIXTURES.

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

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

P-29A ICE MACHINE TRENCH DRAIN: ZURN/STAINLESS STEEL DRAINS TR12-CFA-18 STAINLESS STEEL TRENCH DRAIN, 14.5" X 18", STAINLESS STEEL SEDIMENT CUP, AND STAINLESS STEEL SERRATED LADDER GRATE. NO SUBSTITUTIONS.

P-29B ICE MACHINE TRENCH DRAIN: ZURN/STAINLESS STEEL DRAINS TR12-CFA-36 STAINLESS STEEL TRENCH DRAIN, 14.5" X 36", STAINLESS STEEL SEDIMENT CUP, AND STAINLESS STEEL SERRATED LADDER GRATE. NO SUBSTITUTIONS.

P-30 FILTERED WATER FAUCET: FILTERED WATER FAUCET: FAUCETS: TMS B-0232-CR-063X (KITCHEN FAUCET) & TMS B-0299-CR CRIME-FREE 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 1062 APPROVED AND 36" DEPTH OF BURY.

P-32 DUMPSTER PAD DRAIN: J.R. SMITH FIGURE NO. 2280C03 3" FLOOR DRAIN WITH 1/2" HINGED CAST IRON SLOTTED GRATE AND SEDIMENT BUCKET. INSTALLED BY SITE CONTRACTOR. ALT: ZURN Z415C-3N-Y.

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

P-34 DISPENSER BACKFLOW PREVENTER: WATTS MODEL #LF7R2-2 ASSE 1024 RATED WITH 1/2" FIP INLET AND OUTLET, DUAL CHECK TYPE. PROVIDE 1/2" DIA X 2" LONG CHROME NIPPLE AT BFP INLET AND OUTLET. PROVIDE TMS BRASS MODEL B-0101 CHROME WALL BRACKET.

P-35 FLOOR DRAIN (3") ZURN E21-PV3-R6 PVC BODY. BRONZE SPUD WITH 6" DIAMETER NICKEL BRONZE STRAINER. ALT: JONES STEPHENS CORP D50-064.

P-36 BEVERAGE TOWER INDIRECT RECEIVER (3") ZURN Z1910 CAST IRON INDIRECT WASTE RECEIVER, HALF GRATE, STAINLESS STEEL MESH LINER, AND ALUMINUM BUCKET.

P-37 FLOOR DRAIN (3") ZURN E21-PV3-S6 PVC BODY. BRONZE SPUD WITH 6" SQUARE NICKEL BRONZE STRAINER. ALT: JONES STEPHENS CORP D50-077.

P-38 HOT WATER CIRCULATING PUMP: TACO MODEL 006-SC7-IFC. 1/2" UNION CONNECTIONS, INTEGRAL FLOW CHECK. ELECTRICIAN TO PROVIDE AND WIRE PLUGS AND CORD. 1/40 HP, 3 GPM AT 7 FT TOTAL DYNAMIC HEAD. PROVIDE CONTROL W/1" HONEYWELL MODEL L600SC018 IIO VAC AQUA-STAT, WITH ADJUSTABLE SETPOINT, MOUNTED DIRECTLY ON PIPE. SET SHUT-OFF TEMPERATURE AT 130 DEG F.

P-39 2" PRESSURE REDUCING VALVE: WATTS NO. #LF223-SB WITH BUILT-IN BYPASS FEATURE. SET NO FLOW CONDITION AT 70 PSI. ALT: ZURN SERIES 500XL198Z.

P-40 WYE STRAINER WITH #100 MESH SCREEN 2" WATTS LF777SMS-2 BRONZE WYE STRAINER WITH THREADED CONNECTION AND TAPPED RETAINER CAP. PROVIDE #100 MESH SCREEN. PROVIDE WATTS 1/2" LFED-IC BRASS BOLLER CONNECTION TO WYE STRAINER RETAINER CAP OUTLET TAP.

P-41 DISHWASHER SUPPLY VALVE: FULL-PORT LEAD-FREE STAINLESS STEEL BALL VALVE WITH SPLIT-RING BRACKET, CHROME FITTINGS, PIPE NIPPLES, AND ESCUTCHEON AS DETAILED ON P-41.

P-42 EMERGENCY THERMOSTATIC MIXING VALVE (EMERGENCY EYEWASH): ACORN MODEL S0660-R4 THERMOSTATIC TEMPERING VALVE. ANSI Z358.1 CERTIFIED FOR EMERGENCY FIXTURES, ASSE 1071 COMPLIANT, WITH DIAL THERMOMETER, INLET CHECK STOPS, ADJUSTABLE SETPOINT, ACCURATE WITHIN +/- 3 DEG F. INCLUDES INTEGRAL COLD WATER BYPASS WITH POSITIVE HOT WATER SHUT-OFF WHEN COLD WATER SUPPLY IS LOST. FACTORY SETPOINT OF 85 DEG F. MOUNTING BRACKET INCLUDED. FACTORY ASSEMBLED AND TESTED. ROUGH BRASS FINISH. NO SUBSTITUTIONS. CONTACT CHICK-FIL-A NATIONAL ACCOUNTS AT HAYNES, JONES, & CADBURY FOR PRICING AND DELIVERY.

P-43 REHEAT/REHEAT SUPPLY VALVE: FULL-PORT LEAD-FREE STAINLESS STEEL BALL VALVE WITH SPLIT-RING BRACKET, CHROME FITTINGS, PIPE NIPPLES, AND ESCUTCHEON AS DETAILED ON P-41.

### COORDINATION NOTE

CONTRACTOR SHALL THOROUGHLY REVIEW THE KITCHEN EQUIPMENT DRAWINGS TO ENSURE ALL ITEMS REGARDING THE PLUMBING SCOPE ARE FULLY UNDERSTOOD. MOST NOTABLY, ALL FAUCETS ARE REQUIRED TO BE PROVIDED (THROUGH HJC) & INSTALLED BY THE CONTRACTOR AS OUTLINED IN THE KITCHEN EQUIPMENT SCHEDULES.

### NATIONAL ACCOUNTS

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



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

Kurzynske & Associates  
 CONSULTING ENGINEERS  
 2708 Lebanon Pike - Suite One  
 Nashville, Tennessee 37214  
 Telephone: (615) 255-8203

**CHICK-FIL-A**  
 JOHNS HOPKINS ROAD  
 10975 JOHNS HOPKINS RD  
 LAUREL, MD 20723

**FSR#01999**

BUILDING TYPE / SIZE:	S06E	
RELEASE:	v04.23	
<b>REVISION SCHEDULE</b>		
NO.	DATE	DESCRIPTION
2	05/14/24	Permit Comments
CONSULTANT PROJECT # 23108.HF.R		
PRINTED FOR:	CONSTRUCTION	
DATE:	08/19/2023	
DRAWN BY:	BF	

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 SHEET PLUMBING SPECIFICATIONS  
 SHEET NUMBER

### 1 KITCHEN EQUIPMENT SCHEDULE - CHICK-FIL-A REMODEL Store #1999

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) RECEPTACATOG NO.	Wire/Conduit MARK NO.	COMMENTS AND REMARKS	
			VOLTS	PH	WIRES	KW	AMPS	WALL				DROP-CORD
	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	5-20R	5-20R	IG5362RN (ORANGE)	1-IG		
NOTE 2	190	DRIVE-THRU VIDEO MONITOR	120	1	2	0.8	5-20R	N/A	IG5362RN (ORANGE)	1-IG		
NOTE 5	211b	FLY SYSTEM - KITCHEN AREA	120	1	2	0.078	5-15R	N/A	TR780W (DUPEX)	1	CLOCK STYLE RECEPTACLE REQ'D	
	211c	FLY SYSTEM - DINING AREA	120	1	2	0.030	5-15R	N/A	TR780W (DUPEX)	1	CLOCK STYLE RECEPTACLE REQ'D	
	269	ANSUL FIRE SYSTEM	120	1	2		VERIFY	DIRECT	N/A		FED FROM CFA-1500 PANEL	
	270	ANSUL FIRE SYSTEM	120	1	2		VERIFY	DIRECT	N/A		FED FROM CFA-1500 PANEL	
NOTE 2	300a	MILKSHAKE DISPENSER	120	2	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	FURNISHED WITH ANGLE PLUG	
			208	3	3	19.0	15-30R	N/A	HUBBELL HBL8430A	8	FURNISHED WITH ANGLE PLUG	
NOTE 2	305	TEA BREWER	120	1	2	1.650	5-20R	N/A	IG5362RN (ORANGE)	1-IG		
	308	COFFEE BREWER	208	1	3	4.000	15-20R	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	PROVIDE IN-SIGHT DISC SWITCH OR PAD-LOCK DEVICE ON BRANCH BREAKER IF ALLOWED BY AHJ	
	363H	HIGH-TEMP DISHMACHINE	208	3	3	45.4	DIRECT	N/A		17	PROVIDE IN-SIGHT DISC SWITCH OR PAD-LOCK DEVICE ON BRANCH BREAKER IF ALLOWED BY AHJ	
	380A	ICE BIN SANITATION SYSTEM	120	1	2	0.010	5-15R	N/A			PLUGS INTO DUPLEX OF ONE #380Z UNIT	
NOTE 5	380	INTERIOR ICE MAKER	120	1	2	0.600	5-15R	N/A	817 (SIMPLEX) CR15 (DUPEX)	1		
	380C	ROOF MTD ICE CONDENSER	208	3	4	5.112	DIRECT	N/A		3		
NOTE 5	380D	INTERIOR ICE MAKER	120	1	2	0.600	5-15R	N/A	817 (SIMPLEX) CR15 (DUPEX)	1		
	380CD	ROOF MTD ICE CONDENSER	208	3	4	5.652	DIRECT	N/A		6		
NOTE 2	400	REACH-IN FRY FREEZER	120	1	2	9.4	5-20R	L5-20R	VG20 / AHL520R	1		
		WALK-IN FREEZER DOOR HTR/LTG	120	1	2	3.3	DIRECT			1	REFER TO LIGHTING FLOOR PLAN	
		WI FREEZER CONDENSER	208	3	3	16.30	DIRECT			11	REQUIRES 35 AMP MOCP	
		WI FREEZER EVAP COIL	208	1	2	1.5	DIRECT				POWER FED FROM CONDENSER	
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	PROVIDE TWIST LOCK PLUG IN FIELD	
NOTE 2	440CT	BREADING TABLE	120	1	2	1.0	L5-15R	L5-15R	CWL515R / CWL515C	1	PROVIDE 10 FT CORD AND TWIST LOCK PLUG	
NOTE 5	441	REFRIGERATED SALAD PREP	120	1	2	9.0	L5-15R	L5-15R	CWL515R / CWL515C	1	15 AMP TWIST LOCK PLUG PROVIDED W/ EQUIP	
NOTE 2	442WCT	SINGLE UPRIGHT REFRIGERATOR	120	1	2	7.0	L5-15R	L5-15R	CWL515R / CWL515C	1	PROVIDE TWIST LOCK PLUG IN FIELD	
	444	DOUBLE DOOR THAWING CABINET	120	1	2	16.0	DIRECT	DIRECT		1	PROVIDE 6 FT LIQUID-TIGHT FLEX CONDUIT	
	444S	SINGLE DOOR THAWING CABINET	120	1	2	16.0	DIRECT	DIRECT		1	PROVIDE 6 FT LIQUID-TIGHT FLEX CONDUIT	
		WALK-IN COOLER LIGHTING	120	1	2	2.4	DIRECT			1	REFER TO LIGHTING FLOOR PLAN	
		WI COOLER CONDENSER	208	3	3	9.50	DIRECT			2	REQUIRES 15 AMP MOCP	
		WI COOLER EVAP COIL	208	1	2	1.0	DIRECT			1	POWER FED FROM CONDENSER	
NOTE 5	503	EGG STATION	208	1	3	2.500	6-20R	L6-20R	1876 (SIMPLEX) / AHL620C	2	TWIST LOCK PLUG PROVIDED W/ EQUIP	
	505V	MULTI-COOK OVEN	208	3	3	7.920	L15-30R	L15-30R	AHCL1530R / AHCL1530C	9	PROVIDE 6 FT CORD AND PLUG	
NOTE 2	560	FRY HOLDING STATION	120	1	2	1.840	5-20R	L5-20R	VG20 / AHL520R	1		
NOTE 2	565C	FOOD COOKER/WARMER	120	1	2	1.500	5-20R	L5-20R	VG20 / AHL520R	1		
	592	SOUP REETHERMALIZER	208	3	3	7.920	15-30R	L15-30R	AH8430N / AHL1530C	9	PROVIDE TWIST LOCK PLUG IN FIELD WHEN REQ'D	
NOTE 5	602	SALAD SPINNER	120	1	2	0.373	5-20R	L5-20R	VG20 / AHL520C	1		
NOTE 2	607	LEMON JUICER	120	1	2		1/4 HP	5-20R	N/A	VG20	1	PROVIDE GFCI DUPLEX RECEPTACLE
	657	AIR COMPRESSOR	120	1	2	1.920	5-20R	N/A	CR20	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		

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.

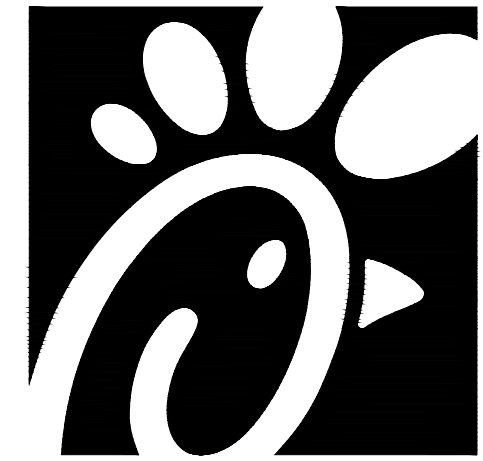
NOTE 5: PROVIDE GFCI TYPE BRANCH BREAKER FOR KITCHEN/FOOD PREPARATION AREA RECEPTACLES THAT ARE TWIST-LOCK, CLOCK STYLE, OR IG (ISOLATED GROUND) TYPE.

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.

### 2 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 CLEVON DIRECTIONAL ARROWS WHERE INDICATED ON PLANS PROVIDED WITH BATTERY PACK	6" BELOW CEILING TO TOP
○	WALL MOUNTED EXIT SIGN. SHADING INDICATES FACES. PROVIDE WITH CLEVON DIRECTIONAL ARROWS WHERE INDICATED ON PLANS PROVIDED WITH BATTERY PACK	AS NOTED	○	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		○	LIGHTING TRACK WITH TRACK HEADS	
<b>WIRING DEVICES</b>					
○	120 VOLT DUPLEX RECEPTACLE, 20 AMPS UON	18"	○	120 VOLT DUPLEX AT SPECIAL MOUNTING HEIGHT, 20 AMPS UON	44" UON
○	120 VOLT QUADRAPLEX RECEPTACLE, 20 AMPS UON	18" UON	○	120 VOLT QUADRAPLEX AT SPECIAL MOUNTING HEIGHT, 20 AMPS UON	44"
○	120 VOLT SIMPLEX RECEPTACLE, 20 AMPS UON	18" UON	○	SINGLE SPECIAL PURPOSE RECEPTACLE WITH VOLTS, AMPS, AND PHASE AS NOTED, NEMA CONFIGURATION AS REQUIRED BY EQUIPMENT	18" UON
○	RECEPTACLE MOUNTED ON CORD DROP, 120 VOLT, 20 AMP, UON, OUTLET BOX FLUSH WITH CEILING		○	GROUND	
○	SINGLE POLE TOGGLE SWITCH	48"	○	MOTOR	
○	DOUBLE POLE TOGGLE SWITCH	48"	○	EXHAUST FAN MOTOR	
○	THREE WAY TOGGLE SWITCH	48"	○	JUNCTION BOX	
○	MANUAL MOTOR STARTER SWITCH (WP-NEMA 3R)	48"	○	CONDUIT AND WIRE MARK NUMBER, REFER TO CONDUCTORS AND CONDUIT SCHEDULE FOR SIZE	
○	SWITCH WITH PILOT LIGHT (ON WHEN SWITCH IS ON)	48"	○	KITCHEN EQUIPMENT MARK NUMBER, REFER TO KITCHEN EQUIPMENT SCHEDULE FOR REQUIREMENTS	
○	KEY OPERATED SWITCH	48"	○	NOTE NUMBER	
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>ABBREVIATIONS</b>					
AFF	ABOVE FINISHED FLOOR		B	BELL, TYPE AS NOTED ON PLANS	
AFG	ABOVE FINISHED GRADE		Ⓢ	PHOTO-ELECTRIC CELL	
AHJ	AIR HANDLING UNIT		<b>TELEPHONE</b>		
C	CONDUIT		Ⓣ	TELEPHONE OUTLET	18" UON
CL	CENTER-LINE		Ⓣ	TELEPHONE OUTLET AT SPECIAL MOUNTING HEIGHT	60" UON
EF	EXHAUST FAN		NOTE: EACH TELEPHONE OUTLET (FLOOR OR WALL MOUNTED) SHALL BE PROVIDED WITH A 3/4" EMPTY CONDUIT, WITH PULL WIRE, TO ACCESSIBLE CEILING SPACE.		
FLA	FULL LOAD AMPS		<b>CCTV / SECURITY SYSTEM</b>		
GF/GFI	GROUND FAULT CIRCUIT INTERRUPTER		Ⓣ	CLOSED CIRCUIT TELEVISION CAMERA	
GRD/GRD	GROUND		Ⓢ	SECURITY ALARM KEYPAD	
HT	HEIGHT		Ⓢ	SECURITY ALARM HOLD-UP BUTTON	
IG	ISOLATED GRD, PROVIDE ORANGE DEVICE WHEN ADJACENT TO WIRING DEVICE		Ⓢ	SECURITY SYSTEM KEY NOTE	
MOCP	MAXIMUM OVER-CURRENT PROTECTION				
MUA	MAKE UP AIR UNIT				
NEC	LOCALLY ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70)				
NL	NIGHT LIGHT (ON 24 HOURS)				
OC	ON CENTER				
POS	POINT OF SALE EQUIPMENT				
RTU	ROOF TOP UNIT				
TL	TWIST-LOCK TYPE DEVICE				
TR	TAMPER-RESISTANT				
UON	UNLESS OTHERWISE NOTED				
WP	WEATHERPROOF (NEMA 3R)				



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**FSR#01999**  
 BUILDING TYPE / SIZE: SOB6  
 RELEASE: V04.23

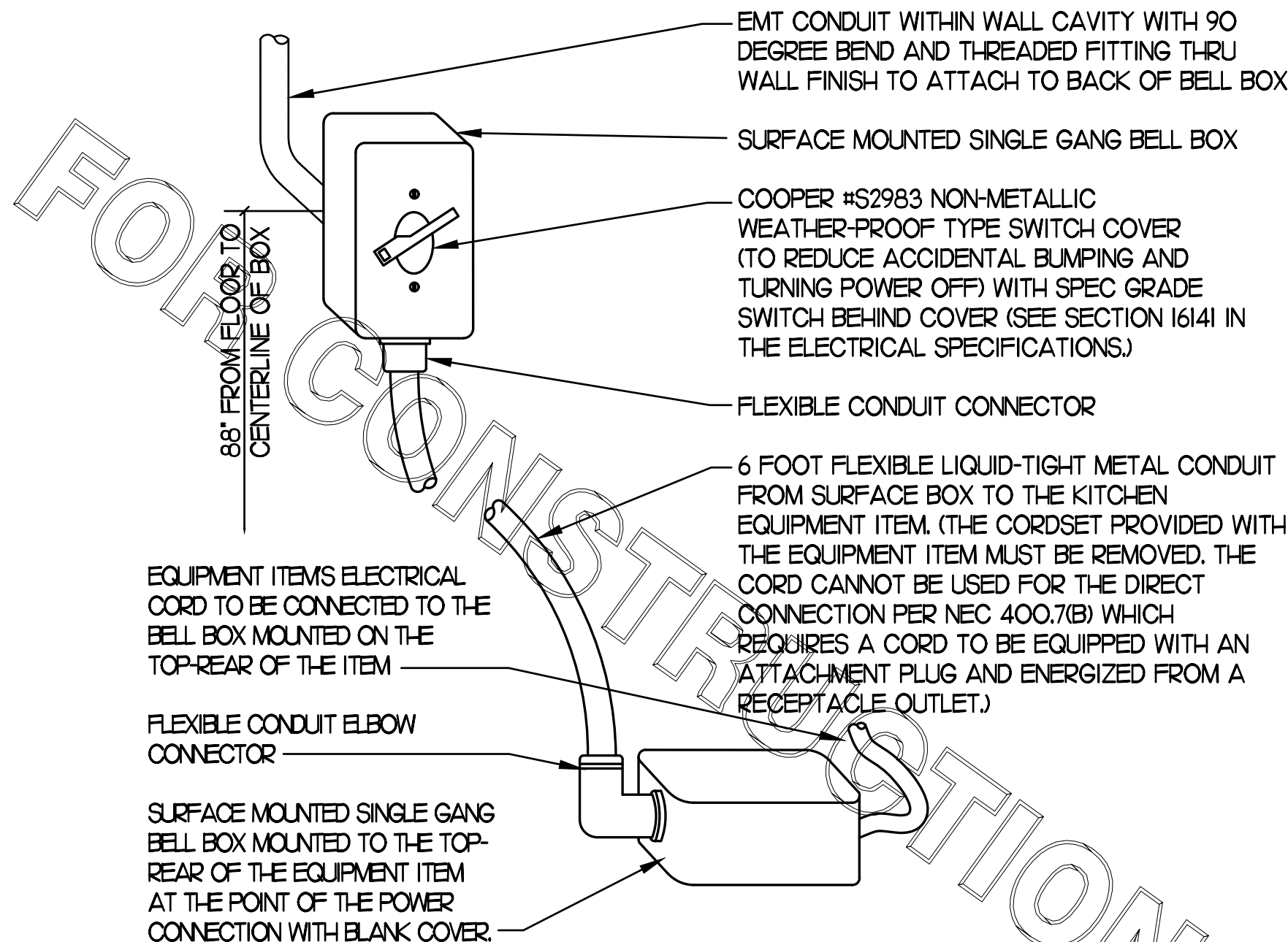
**REVISION SCHEDULE**

NO.	DATE	DESCRIPTION

**CONSTRUCTION**

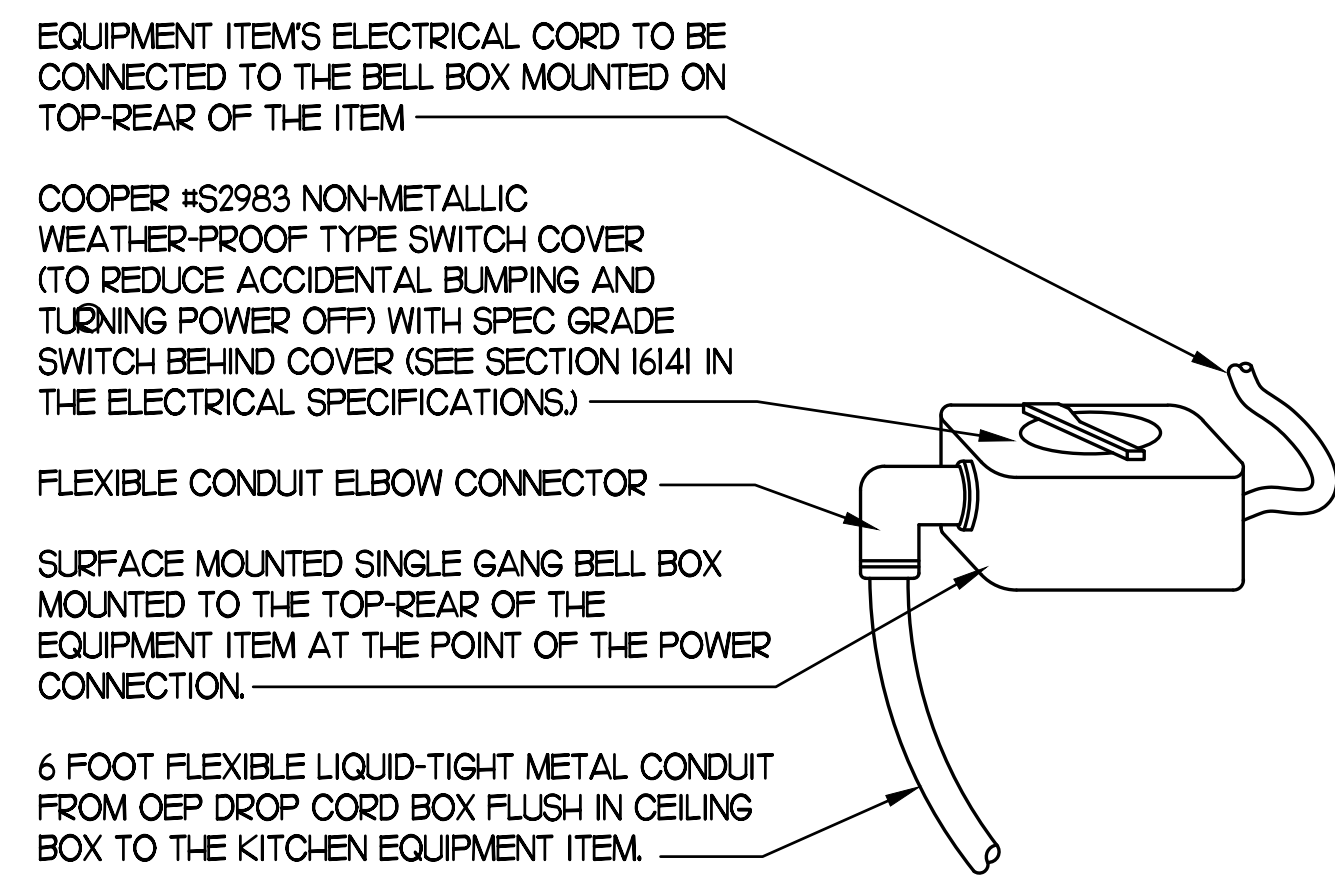
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 SHEET NUMBER



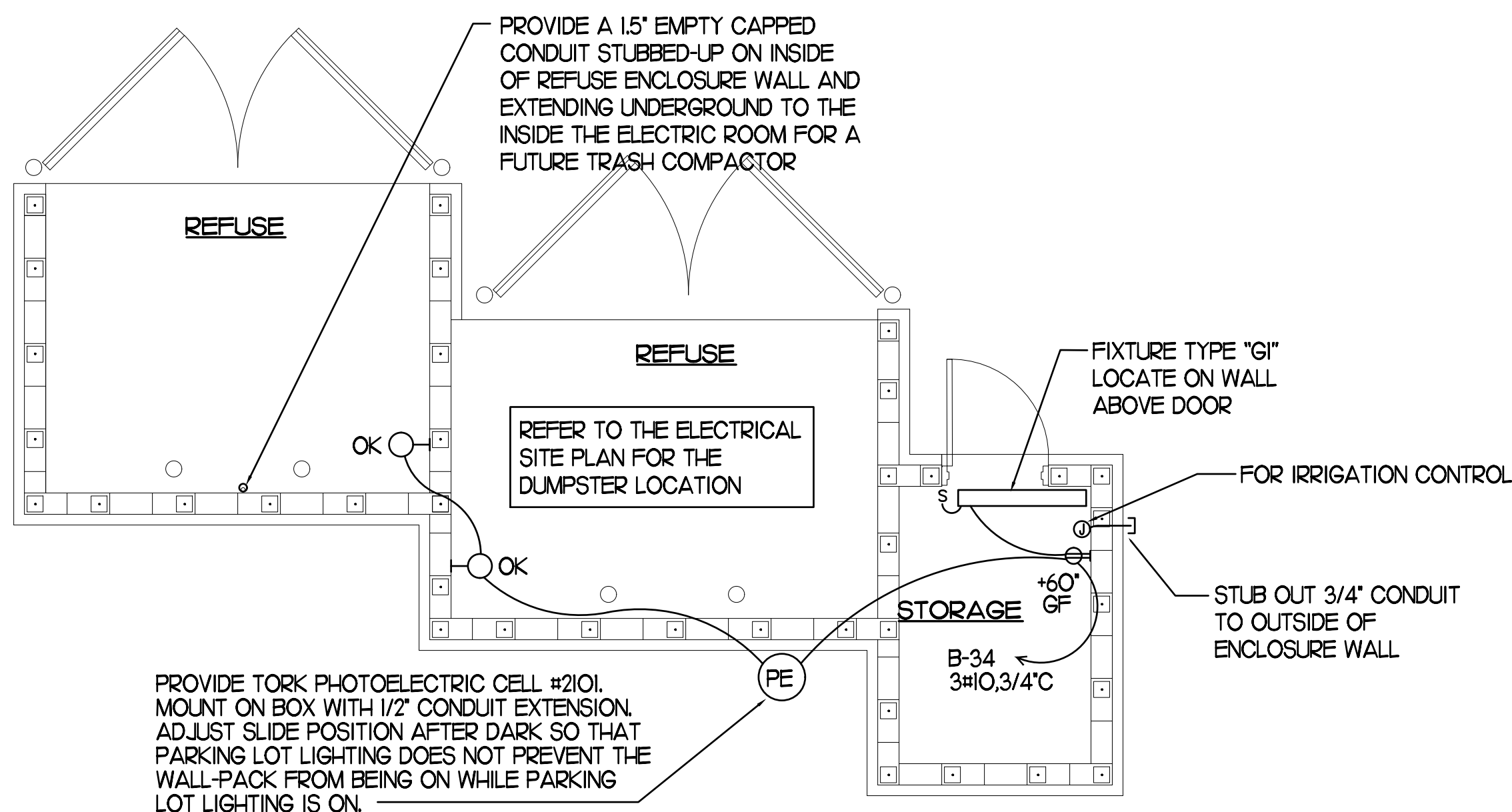
**KITCHEN EQUIP DIRECT CONNECTION**

NOT TO SCALE WALL MOUNT CONDITION



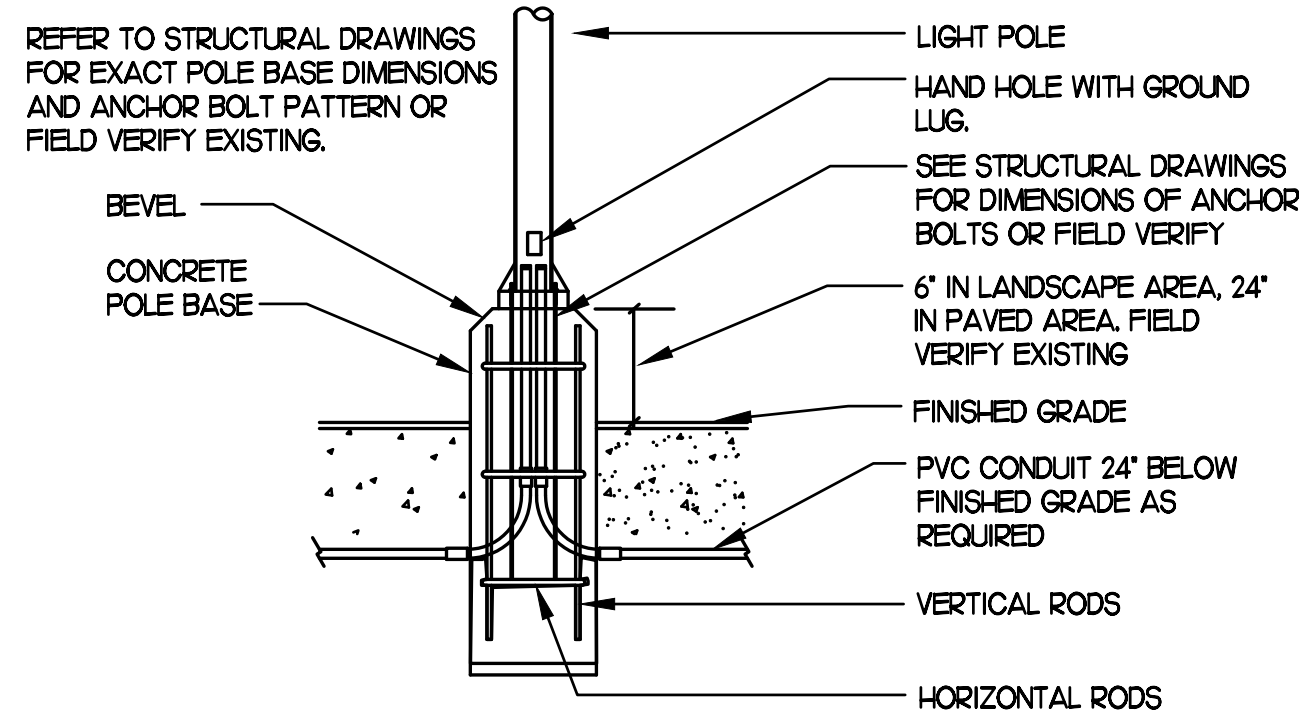
**KITCHEN EQUIP DIRECT CONNECTION**

NOT TO SCALE DROP CORD - ISLAND CONDITION



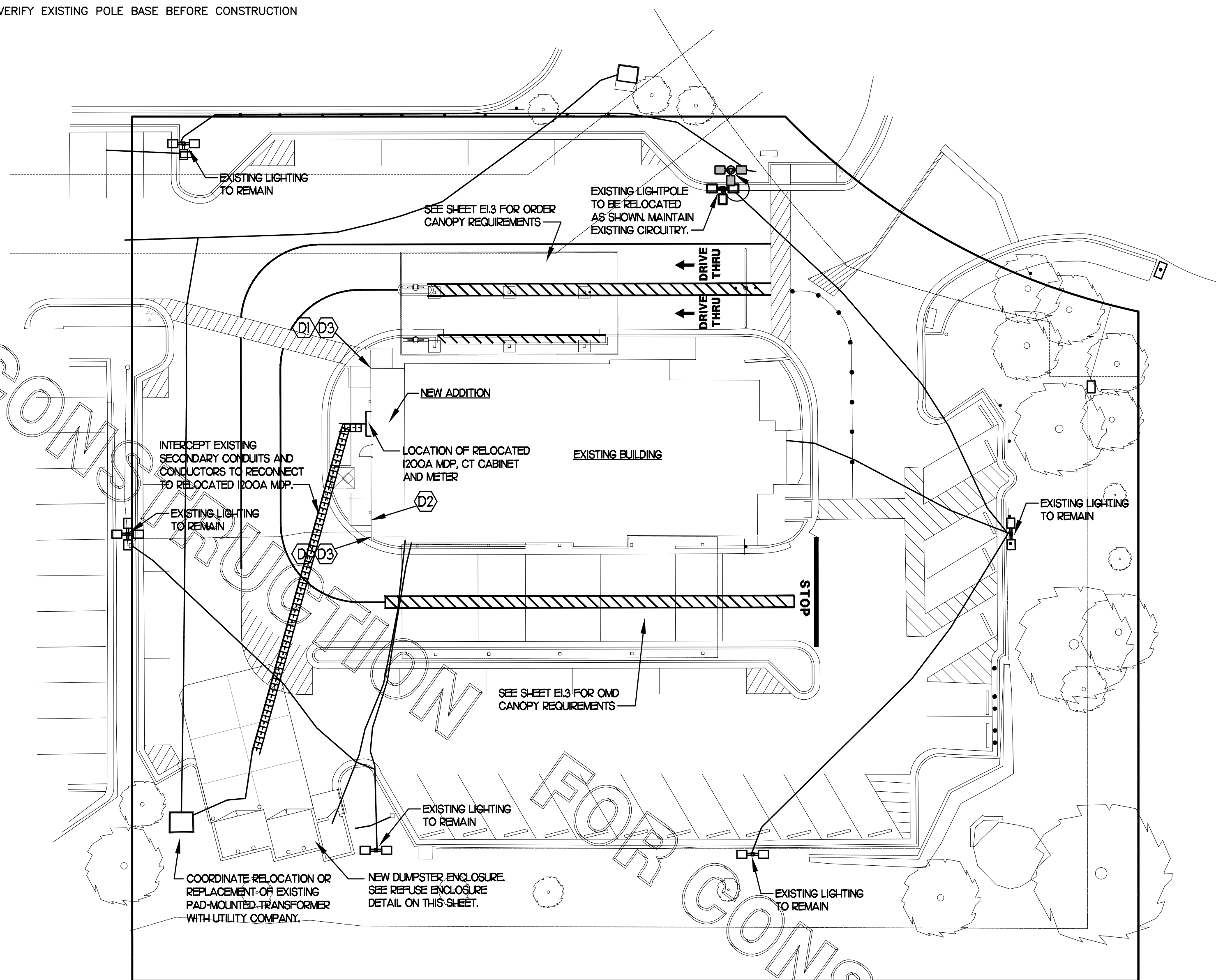
**REFUSE ENCLOSURE - ELECTRICAL**

NOT TO SCALE



**TYPICAL POLE BASE DETAIL**

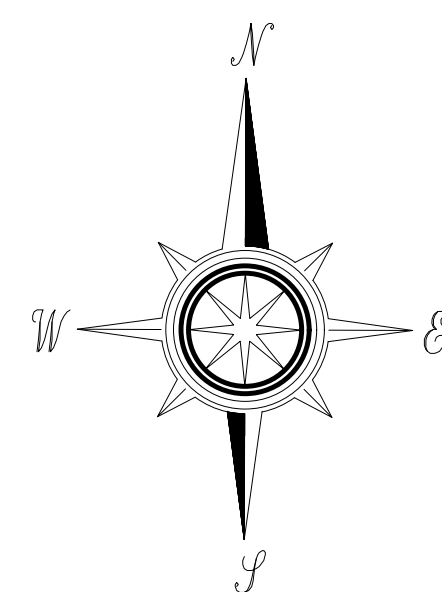
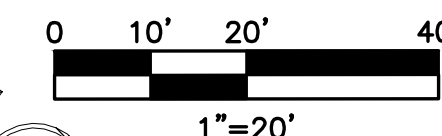
NOT TO SCALE - FIELD VERIFY EXISTING POLE BASE BEFORE CONSTRUCTION



NOTE: ALL EXISTING LIGHTING POLES AND FIXTURES TO REMAIN IN EXISTING LOCATIONS UNLESS OTHERWISE SPECIFIED. FIELD VERIFY ALL EXISTING UNDERGROUND UTILITY LOCATIONS PRIOR TO ANY EXCAVATION WORK. RELOCATE/ADJUST POLE-MOUNTED AND BUILDING-MOUNTED SECURITY CAMERAS AS REQUIRED.

**ELECTRICAL SITE PLAN**

SCALE: 1" = 20'-0"



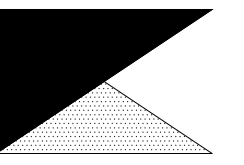
**KEYNOTES - DT CASH STATION**

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



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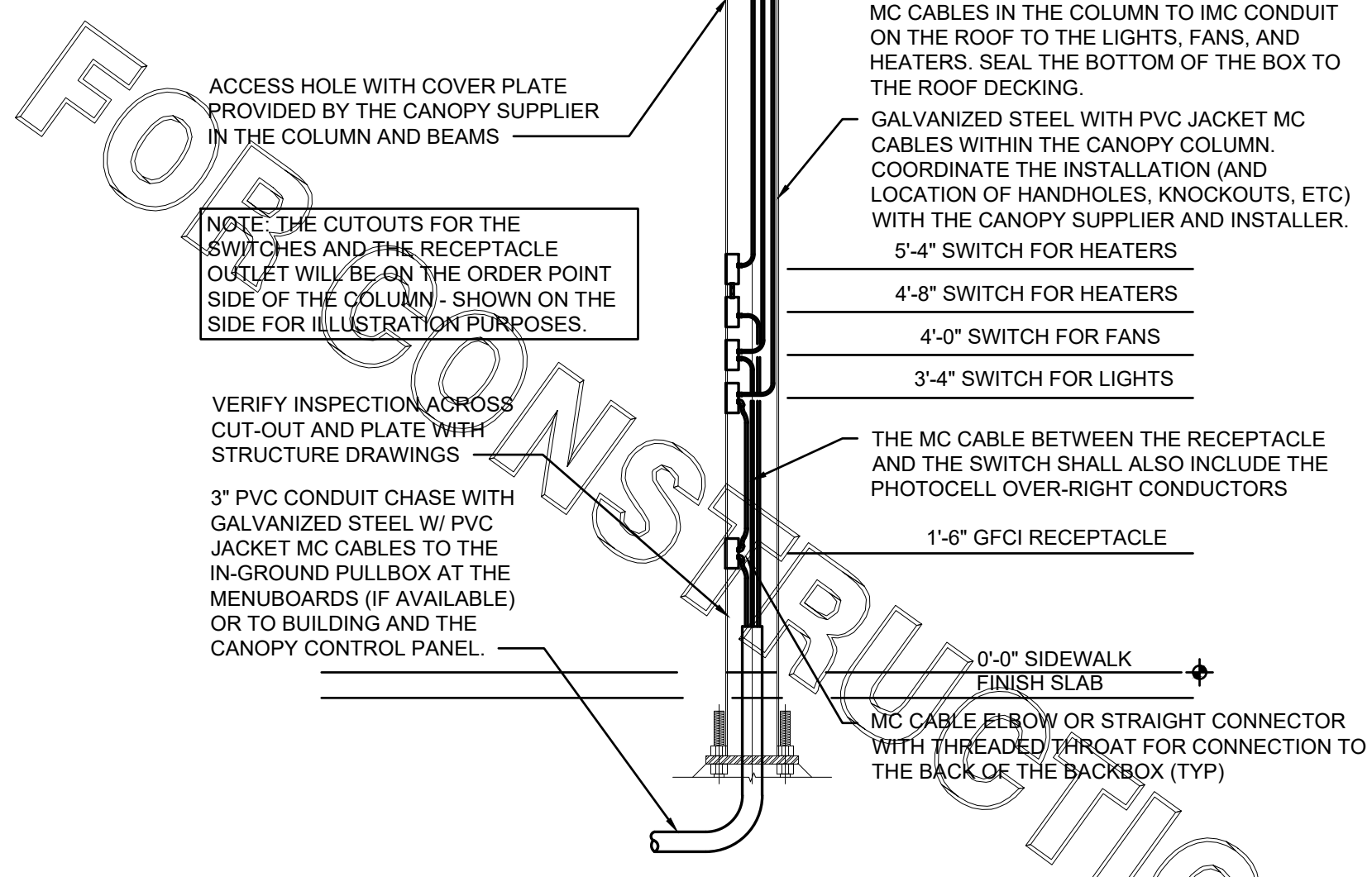
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SHEET ELECTRICAL SITE PLAN & DETAILS

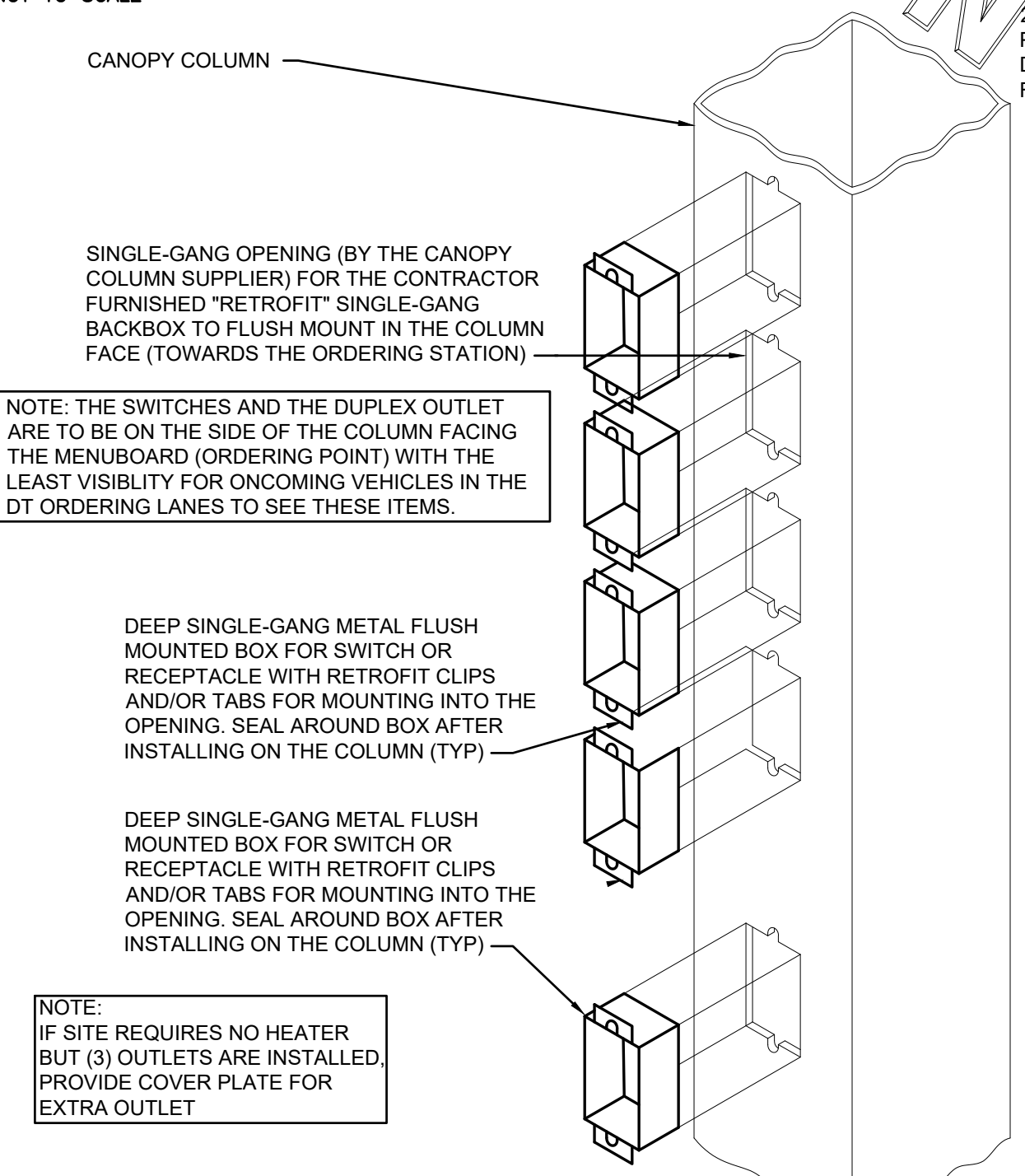
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**E1.2**

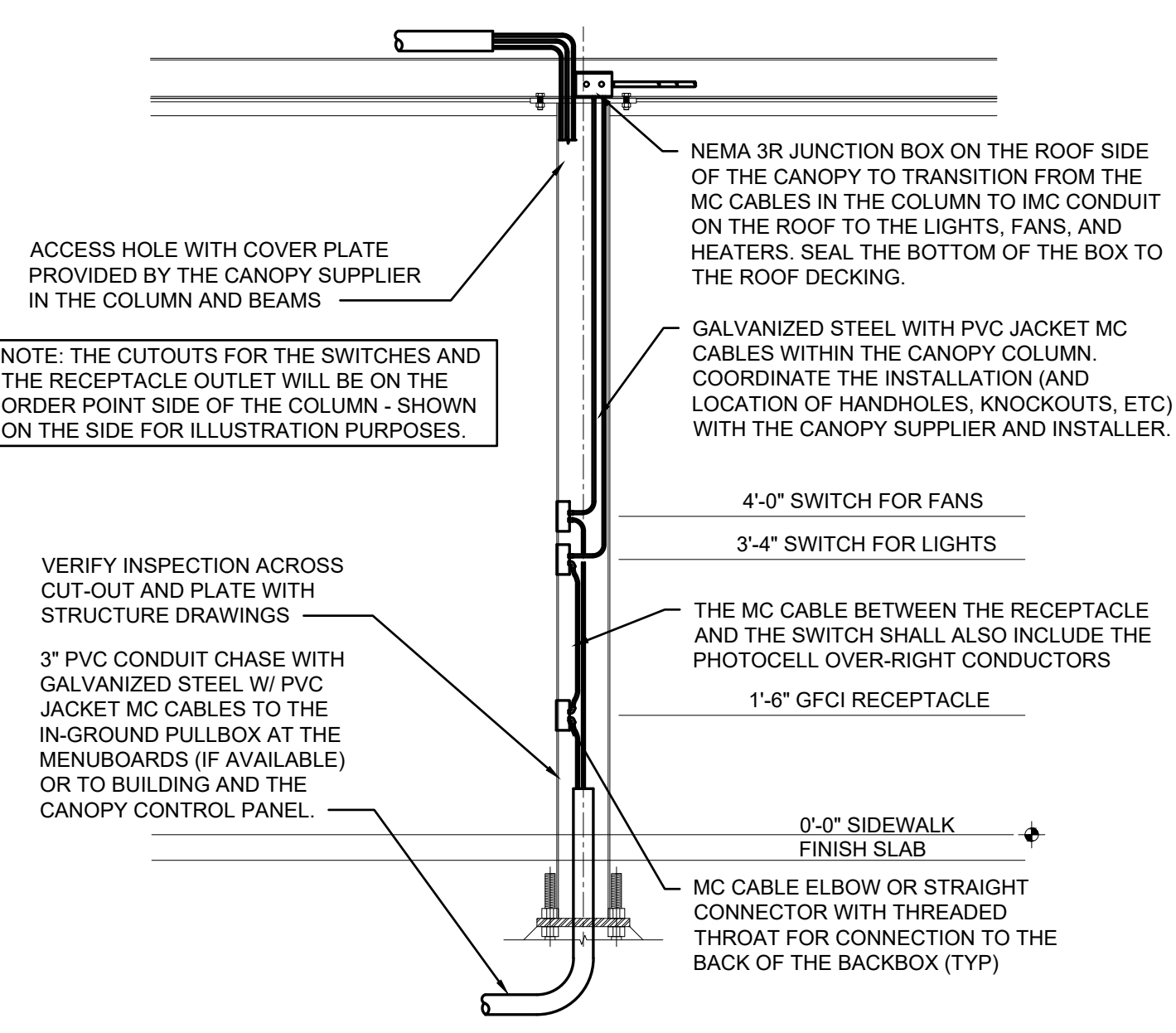
CONSTRUCTION



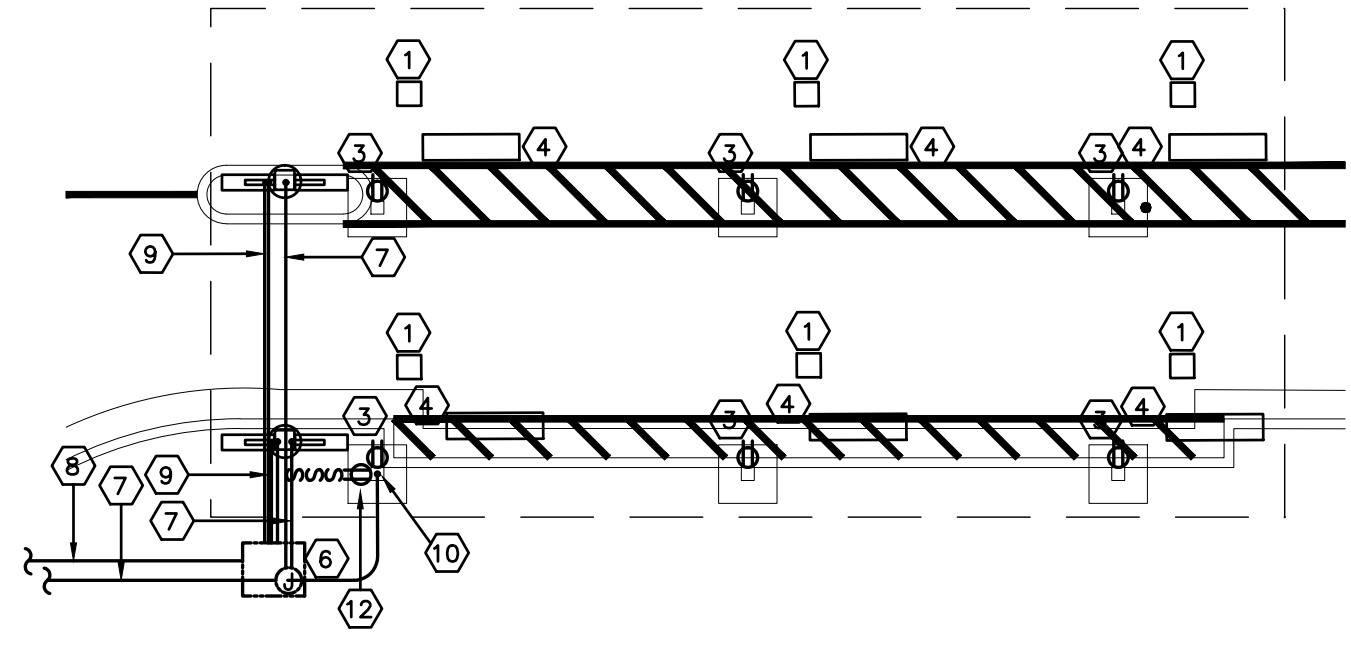
**ORDER CANOPY COLUMN SECTION**  
NOT TO SCALE



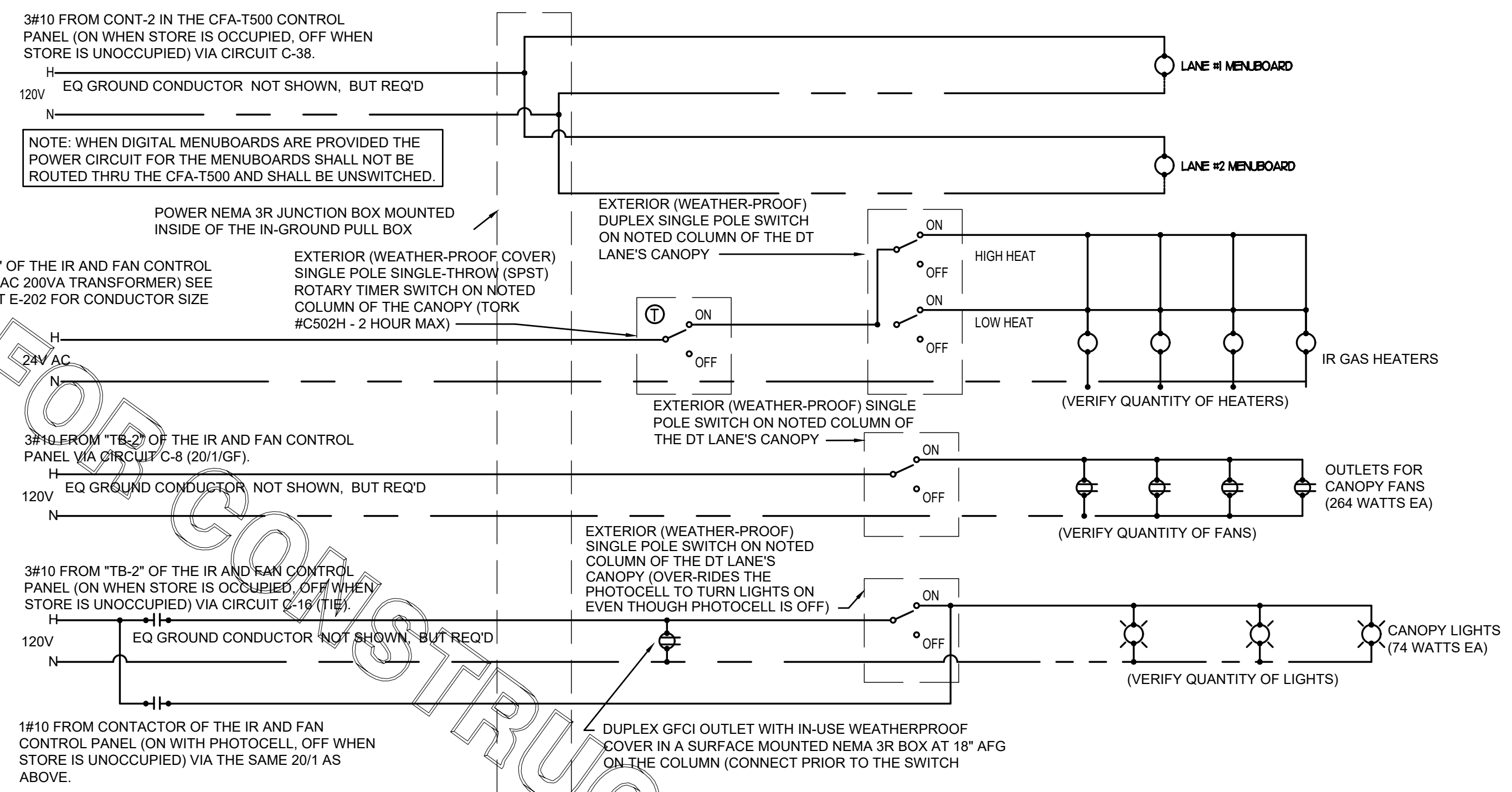
**CANOPY COLUMN ISOMETRIC**  
NOT TO SCALE



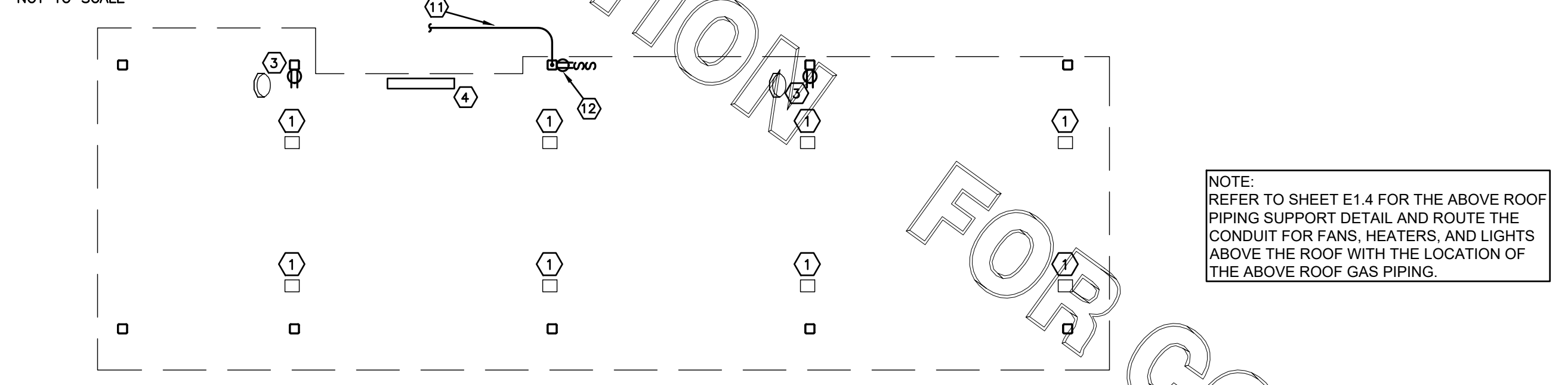
**OMD CANOPY COLUMN SECTION**  
NOT TO SCALE



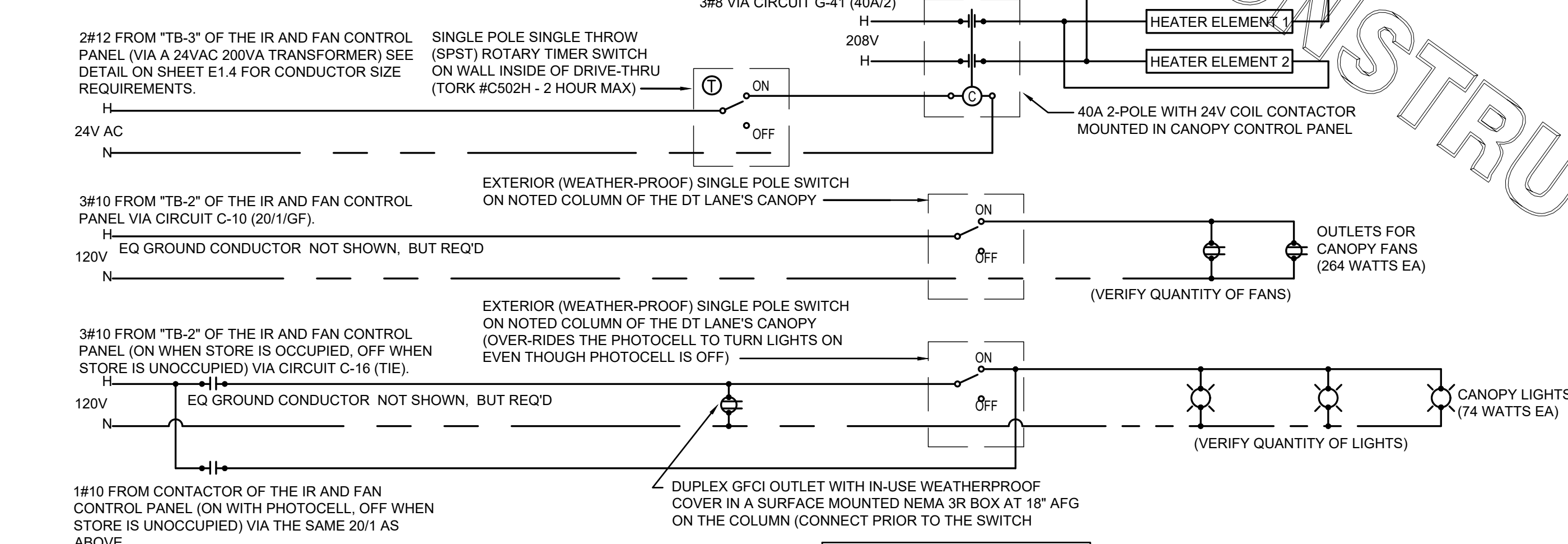
**DUAL LANE ORDER CANOPY POWER PLAN**  
NOT TO SCALE



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



**OMD CANOPY POWER PLAN**  
NOT TO SCALE



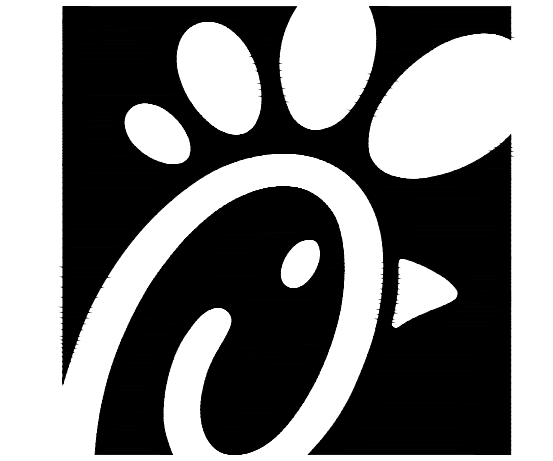
**OMD CANOPY POWER WIRING SCHEMATIC**  
NOT TO SCALE

**ELECTRICAL KEYNOTES (NEW ORDER POINTS):**

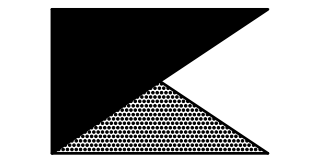
- ① CEILING LIGHT PROVIDED BY CANOPY SUPPLIER AND INSTALLED BY E.C.
- ② NOT USED.
- ③ AIR CIRCULATING FAN (WITH INTEGRAL ON-OFF SWITCH) PROVIDED BY OTHERS. PROVIDE A DUPLEX OUTLET (WITH IN-USE WP COVER PLATE) FLUSH MTD. IN CUT-OUT FOR FAN'S PLUG & CORD. LOCATE CUT-OUT AT TOP OF COLUMN ON DOWNSTREAM SIDE.
- ④ INFRARED GAS HEATER WITH INTEGRAL ON-OFF SWITCH PROVIDED BY OTHERS.
- ⑤ MENUBOARD PROVIDED BY OTHERS.
- ⑥ PROVIDE IN-GROUND QUAZITE PULLBOX FOR MLOP DATA CABLES WITH POWER NEMA 3R JUNCTION BOX MOUNTED INSIDE THE PULLBOX.
- ⑦ 2" UNDERGROUND SCH40 PVC CONDUIT WITH POWER CONDUCTORS. SEE WIRING SCHEMATIC.
- ⑧ 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.
- ⑨ 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.
- ⑩ 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.
- ⑪ NOT USED.
- ⑫ 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.
- ⑬ 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):**

- ① CEILING LIGHT PROVIDED BY CANOPY SUPPLIER AND INSTALLED BY E.C.
- ② NOT USED.
- ③ 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.
- ④ SEE SHEET E2.2 FOR INFORMATION RELATED TO WALL MTD ELECTRIC HEATED ABOVE DT DOOR.
- ⑤ THRU ④ NOT USED.
- ⑥ NOT USED.
- ⑦ 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.
- ⑧ 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.
- ⑨ 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.



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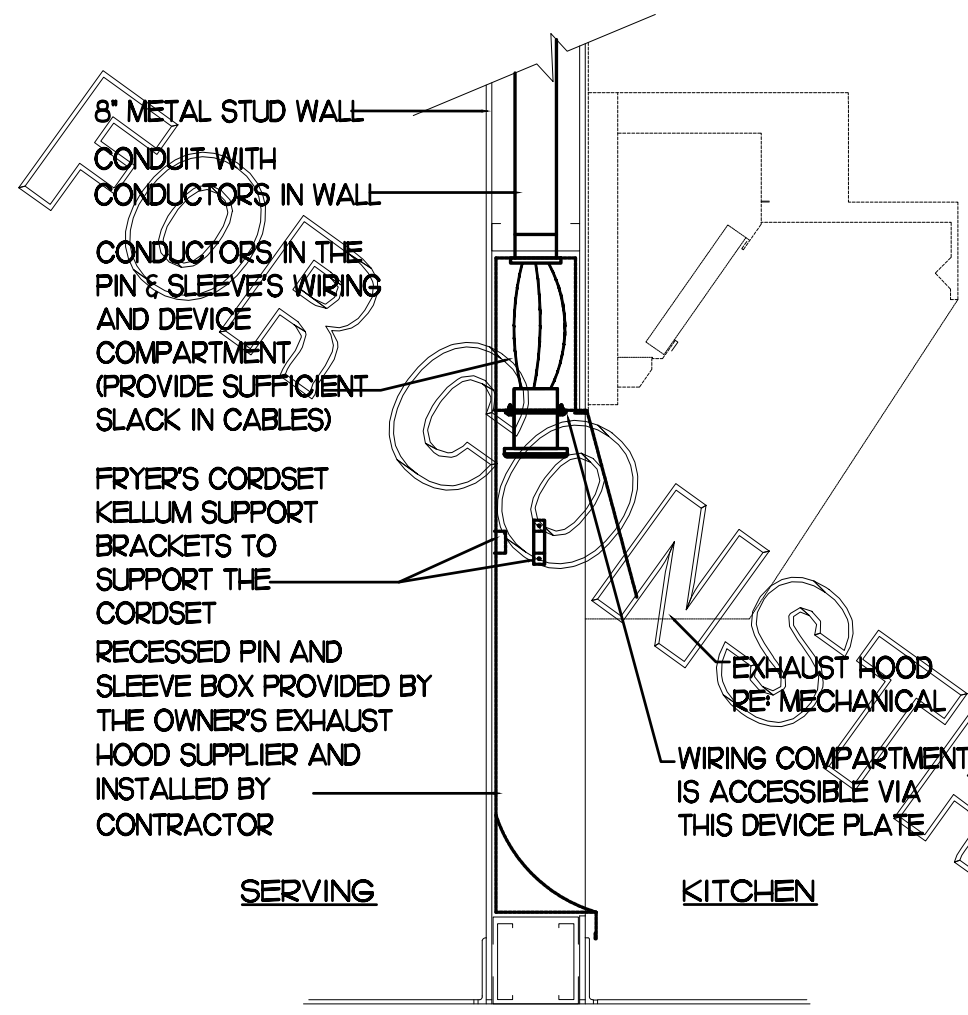
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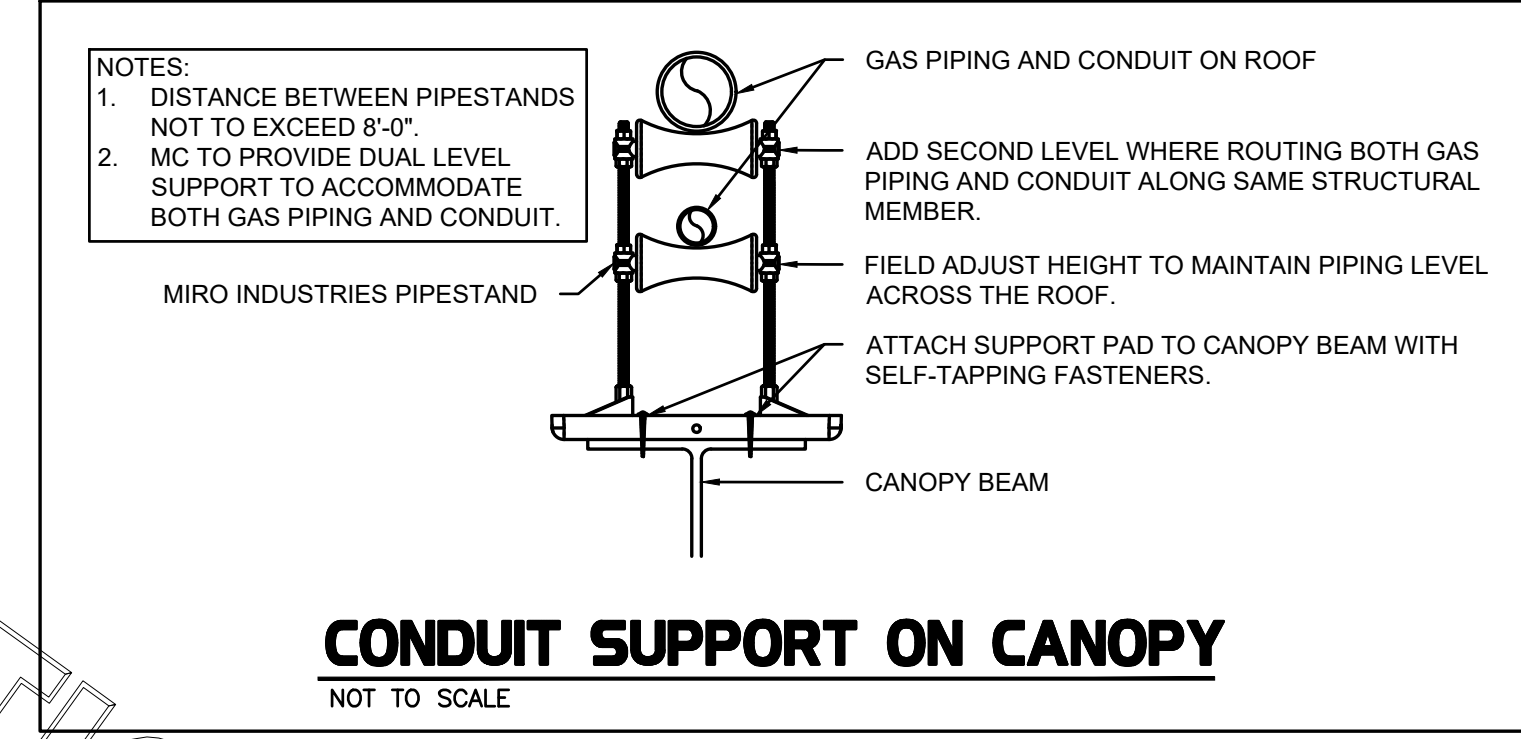
SHEET  
**CANOPY PLANS AND DETAILS**

SHEET NUMBER

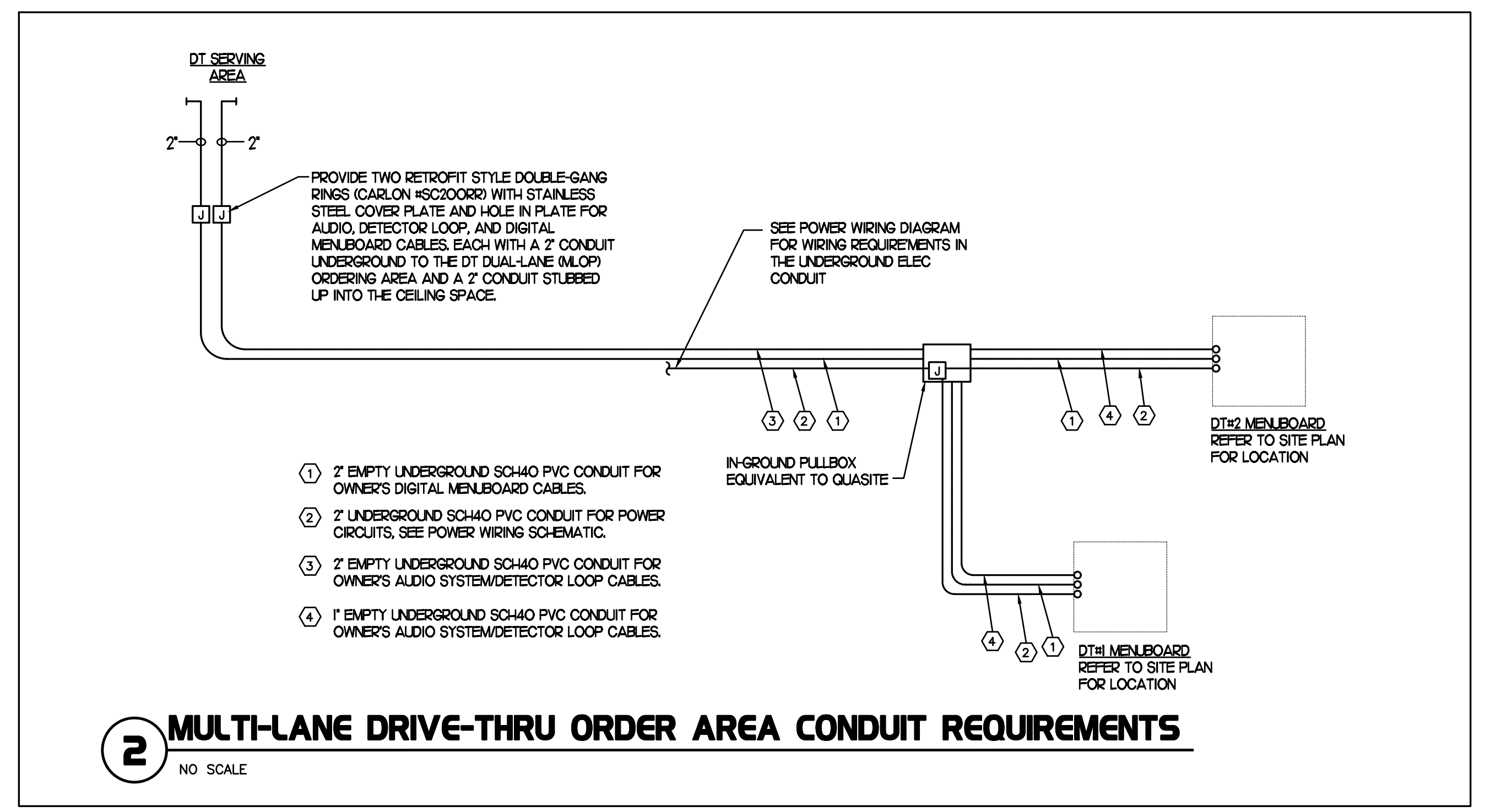
**CONSTRUCTION**



**3 PIN & SLEEVE BOX DETAIL**  
NO SCALE



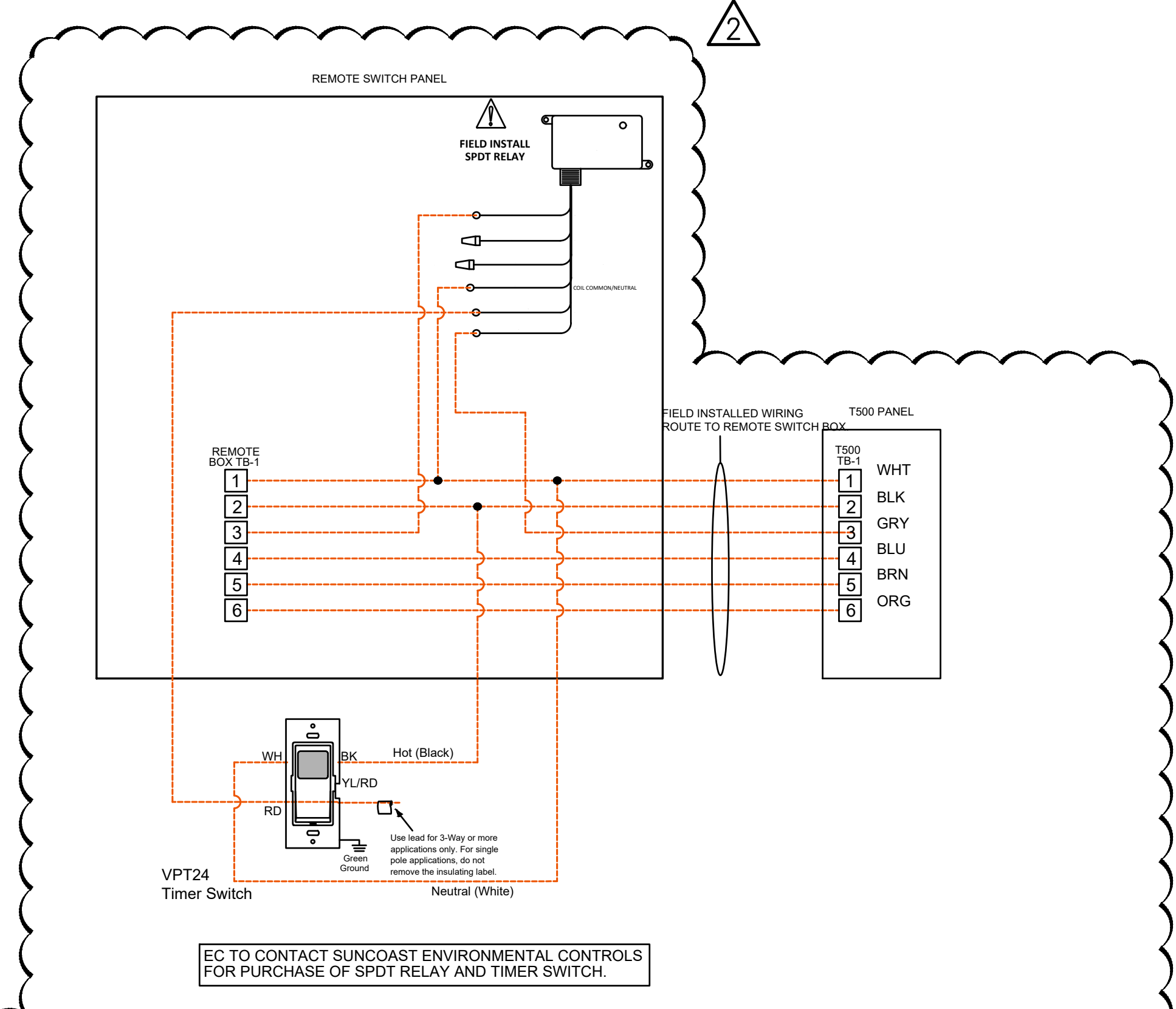
**CONDUIT SUPPORT ON CANOPY**  
NOT TO SCALE



**2 MULTI-LANE DRIVE-THRU ORDER AREA CONDUIT REQUIREMENTS**  
NO SCALE

CIRCULATING FAN SCHEDULE					
MARK	CFM	RPM	HP	MODEL	MANUFACTURER
CF	5,750	1,625	1/8	U18TE-HD	TPI
REMARKS	<ol style="list-style-type: none"> <li>ALUMINUM PADDLE WITH STEEL HUB/SPIDER PROPELLER.</li> <li>360° ROTATING HEAD HORIZONTALLY AND VERTICALLY.</li> <li>OSHA COMPLIANT DOUBLE LOCKING, COATED STEEL WIRE GUARD</li> <li>3-SPEED, TOTALLY ENCLOSED, PERMANENTLY LUBRICATED BALL BEARING MOTOR.</li> <li>FACTORY PRE-WIPED POWER CORD.</li> <li>PROVIDE FACTORY WALL MOUNTING BRACKET. SEE FAN MOUNTING DETAIL ON CANOPY SHOP DRAWINGS FOR TYPICAL INSTALLATION INSTRUCTIONS.</li> <li>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.</li> <li>REMOVE PULL CHAIN EXTENSION AT ON/OFF SWITCH IN FIELD.</li> <li>FACTORY CERTIFIED FOR OUTDOOR INSTALLATION.</li> </ol>				

**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.



**4 REMOTE BOX & TIMER SWITCH CONNECTION**  
NO SCALE

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

**NOTES**  
1. CONTRACTOR SHALL PURCHASE CONTROL PANEL DIRECT FROM SUNCOAST ENVIRONMENTAL CONTROLS, TELE NO 727-544-6679.  
2. COORDINATE WITH GC TO ESTABLISH LOCATION TO MOUNT PANEL IN A CONDITIONED SPACE INSIDE THE BUILDING.  
3. INFORM SUNCOAST ENVIRONMENTAL CONTROLS (SEC) ASAP AS TO WHETHER THE PANEL IS TO BE SURFACE OR FLUSH MOUNTED FOR CORRECT MOUNTING TYPE.  
4. PROVIDE LAMINATED LEGEND SHOWING NAMED LOCATIONS OF FANS AND IR HEATERS. MOUNT LEGEND AT PANEL.

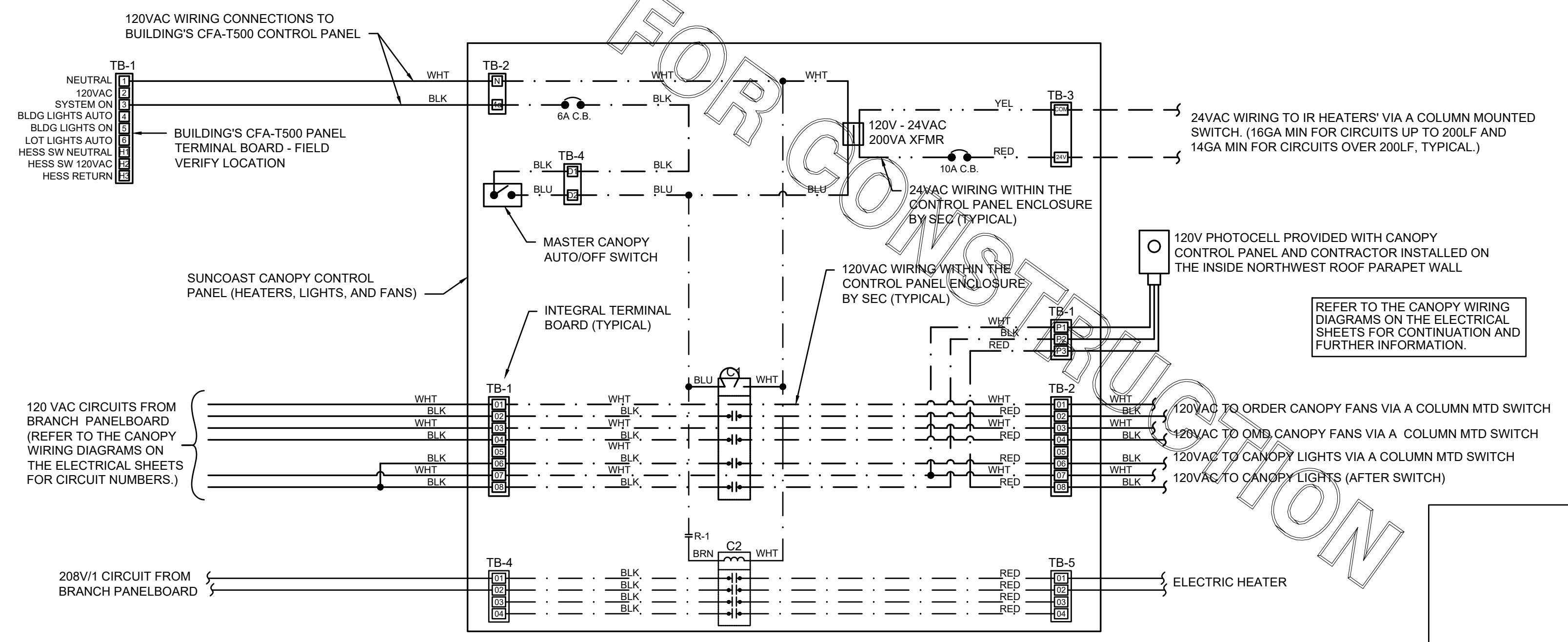
**IMPORTANT:**  
WHEN HEATERS ARE PROVIDED ON THE CANOPIES AND THE 200VA XFMR IS WITHIN THIS CONTROL PANEL, CHANGE OUT 2 AMP CIRCUIT BREAKER IN THE EXISTING CFA-T500 SEC BUILDING CONTROL PANEL LOCATED IN THE OFFICE TO A 6 AMP CIRCUIT BREAKER. THE BREAKER IS LOCATED IN THE UPPER HALF OF THE CFA-T500 PANEL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



**1 SUNCOAST PANEL WIRING DIAGRAM - HEATERS, COOLING FANS**  
NO SCALE



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**FSR#01999**  
BUILDING TYPE / SIZE: S06E  
RELEASE: v04.23

**REVISION SCHEDULE**

NO.	DATE	DESCRIPTION
2	05/14/24	Permit Comments

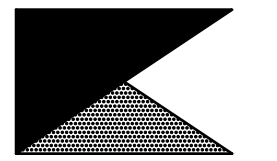
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SHEET ORDER CANOPY CONTROL PANEL  
SHEET NUMBER

**E1.4**



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SHEET  
ELECTRICAL DEMOLITION  
PLAN

SHEET NUMBER

**E2.0**

FOR CONSTRUCTION

FOR CONSTRUCTION

FOR CONSTRUCTION

ALL EXISTING OUTLETS, JUNCTION BOXES, AND CIRCUITS FOR EQUIPMENT IN THE DT SERVING E SERVING AREA TO BE REMOVED UNLESS OTHERWISE NOTED. SEE POWER PLANS FOR REPLACEMENT CIRCUITS. OVER-HEAD CONDUITS FROM PANEL TO REMAIN AS THEY MAY BE REUSED.

EXISTING POS OUTLETS FOR EQUIPMENT TO BE RE-CIRCUITED AS SHOWN ON SHEET E2.2.

EXISTING CONNECTIONS FOR THE CENTERLINE TABLE TO BE RE-CIRCUITED AS SHOWN ON SHEET E2.2.

ALL EXISTING OUTLETS, JUNCTION BOXES, AND CIRCUITS FOR EQUIPMENT IN THE KITCHEN AREA TO BE REMOVED UNLESS OTHERWISE NOTED. SEE POWER PLANS FOR REPLACEMENT CIRCUITS. OVER-HEAD CONDUITS FROM PANEL TO REMAIN AS THEY MAY BE REUSED.

ALL EXISTING OUTLETS, JUNCTION BOXES, AND CIRCUITS FOR EQUIPMENT IN THE MULTIPURPOSE AREA TO BE REMOVED UNLESS OTHERWISE NOTED. SEE POWER PLANS FOR REPLACEMENT CIRCUITS. OVER-HEAD CONDUITS FROM PANEL TO REMAIN AS THEY MAY BE REUSED.

EXISTING STORE OPEN/CLOSED SWITCH TO BE REMOVED AND RELOCATED. SEE POWER PLANS FOR NEW LOCATION.

EXISTING PANEL-F TO BE REMOVED. SEE POWER PLANS FOR REPLACEMENT'S LOCATION.

ALL EXISTING OUTLETS, JUNCTION BOXES, AND CIRCUITS FOR EQUIPMENT IN THE SERVICE YARD TO BE REMOVED UNLESS OTHERWISE NOTED. SEE POWER PLANS FOR REPLACEMENT CIRCUITS. OVER-HEAD CONDUITS FROM PANEL TO REMAIN AS THEY MAY BE REUSED.

ALL EXISTING OUTLETS, JUNCTION BOXES, AND CIRCUITS FOR EQUIPMENT IN THE MECHANICAL ROOM TO BE REMOVED UNLESS OTHERWISE NOTED. SEE POWER PLANS FOR REPLACEMENT CIRCUITS. OVER-HEAD CONDUITS FROM PANEL TO REMAIN AS THEY MAY BE REUSED.

EXISTING MDP, CT CABINET, AND METER TO BE RELOCATED. SEE POWER PLANS FOR NEW LOCATION.

ALL EXISTING OUTLETS, JUNCTION BOXES, AND CIRCUITS FOR EQUIPMENT IN THE MECHANICAL ROOM TO REMAIN UNLESS OTHERWISE NOTED.

ALL EXISTING OUTLETS, JUNCTION BOXES, AND CIRCUITS FOR EQUIPMENT IN THE OFFICE TO BE REMOVED UNLESS OTHERWISE NOTED. SEE POWER PLANS FOR REPLACEMENT CIRCUITS. OVER-HEAD CONDUITS FROM PANEL TO REMAIN AS THEY MAY BE REUSED.

EXISTING PANELS A, B, C, D, E, TELEPHONE, CABLE (ISP) ENTRANCE AND EQUIPMENT TO REMAIN. SEE POWER PLANS AND RISER DIAGRAM FOR DETAILS.

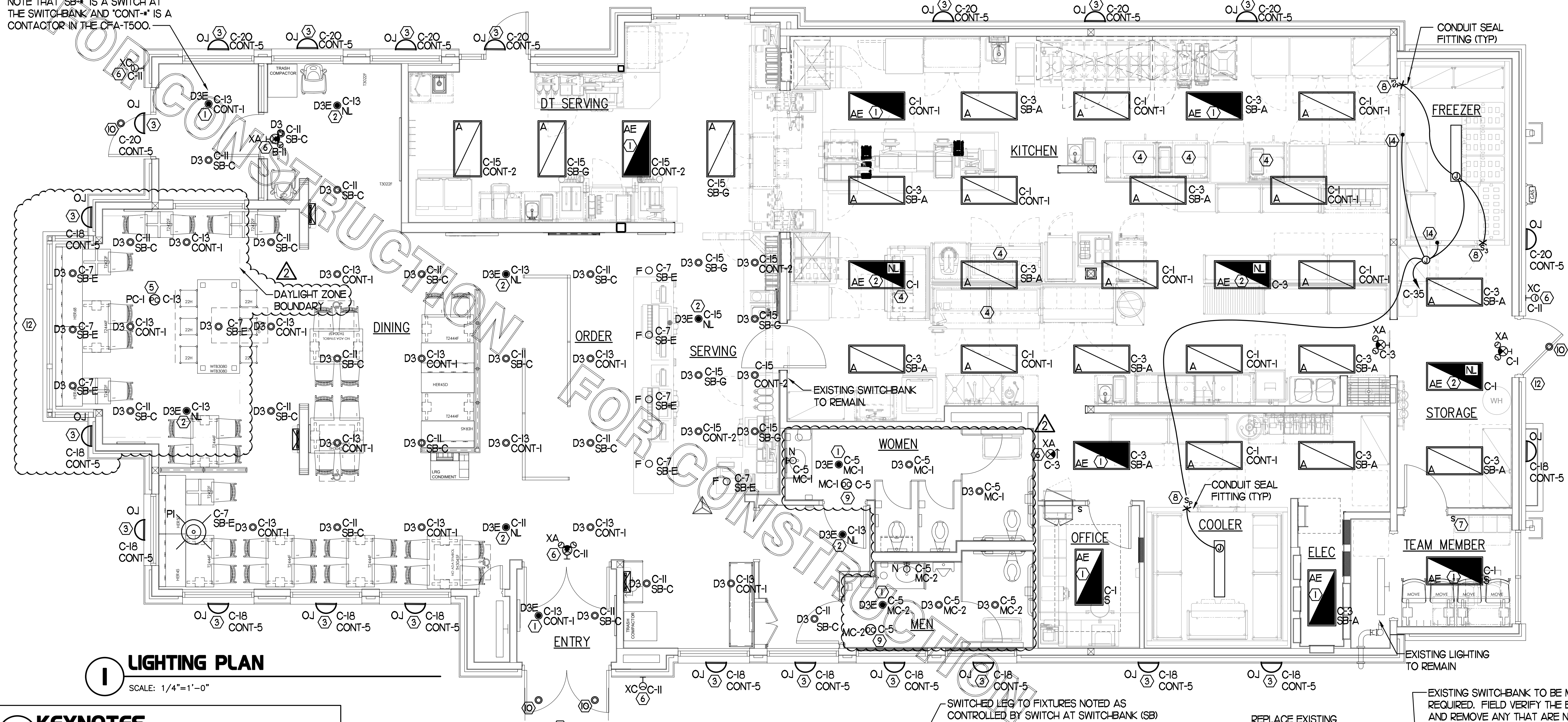
**1 ELECTRICAL DEMOLITION PLAN**  
SCALE: 1/4"=1'-0"

**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 EXISTING LIGHTING FIXTURE TO BE RELOCATED. SEE LIGHTING PLAN FOR NEW LOCATION.
- 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.

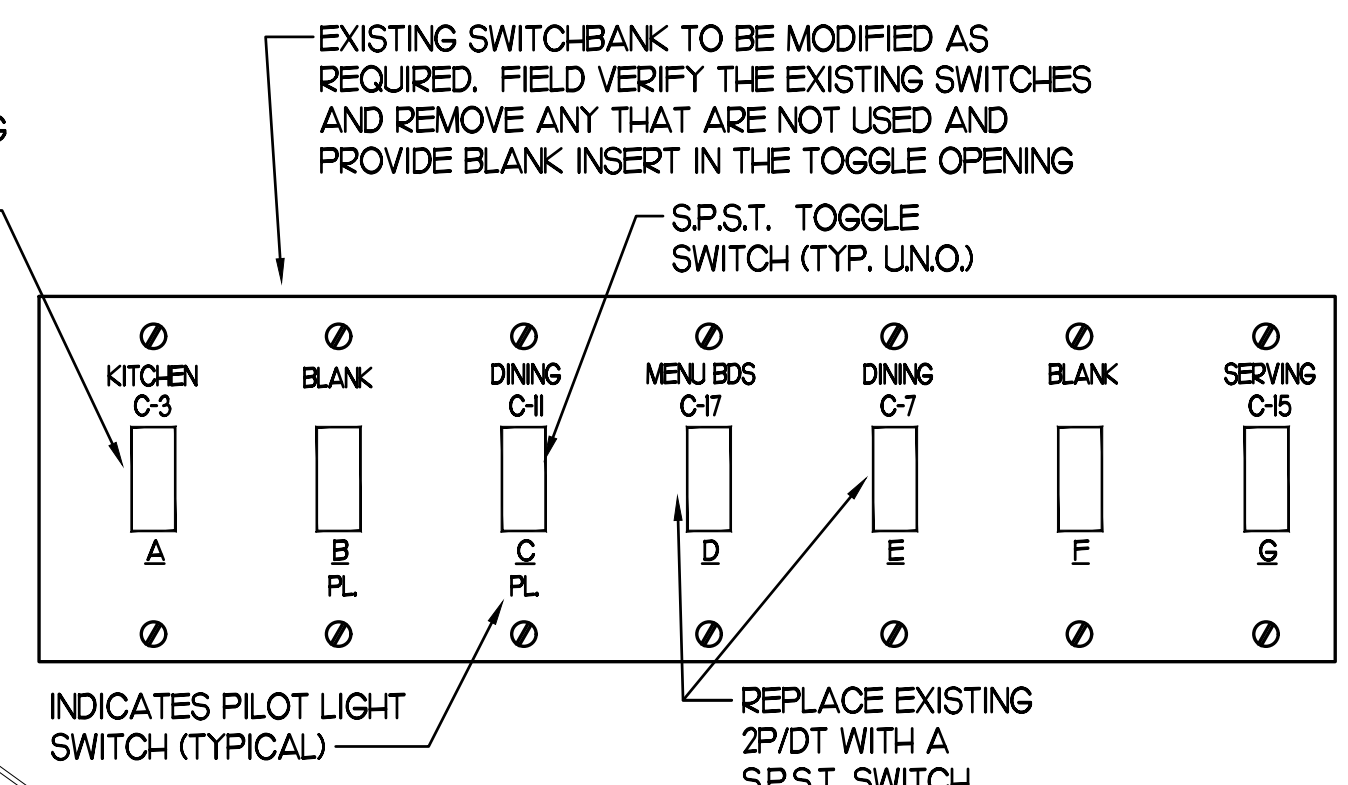
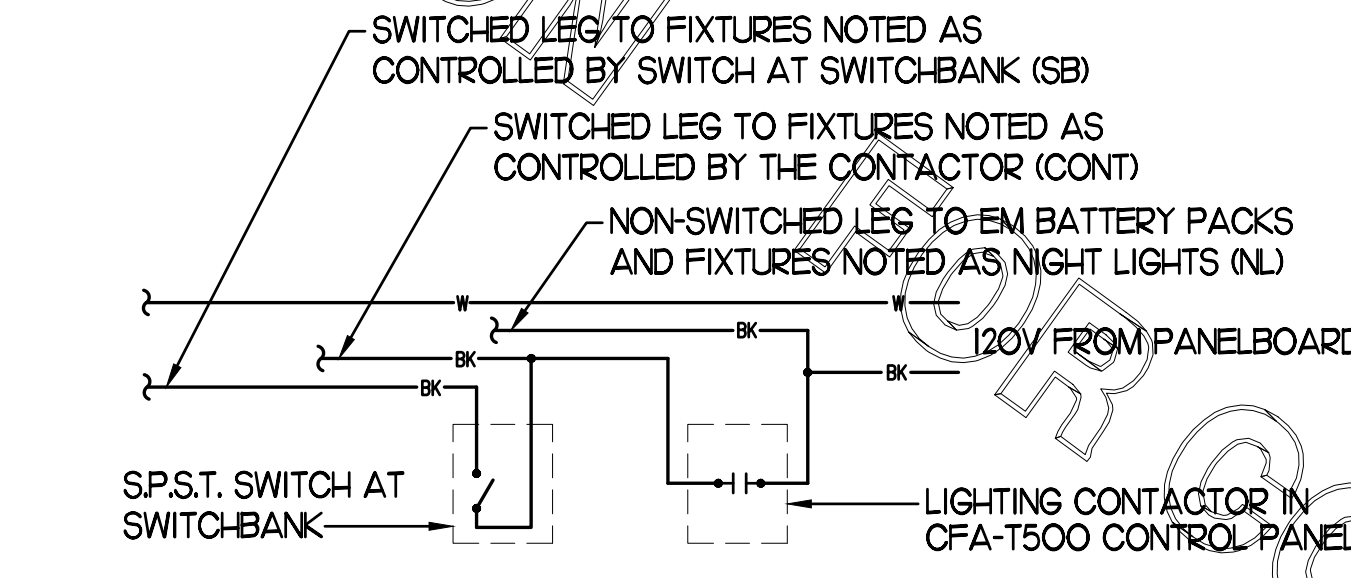
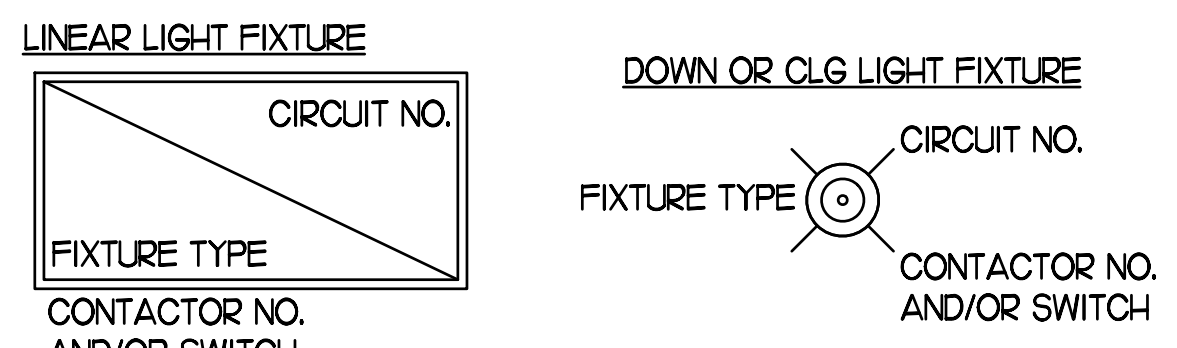
THE INFORMATION USED TO DEVELOP THE EXISTING CONDITIONS AS SHOWN ON THESE PLANS IS FROM PREVIOUS BUILDING DRAWINGS. WHAT WAS SHOWN ON PLAN AND WHAT WAS ACTUALLY INSTALLED MAY VARY. FIELD VERIFY ALL EXISTING CONDITIONS.

CONNECT THE REPLACEMENT LIGHT FIXTURE TO THIS CIRCUIT (TYPICAL)  
NOTE THAT "SB-\*" IS A SWITCH AT THE SWITCH-BANK AND "CONT-\*" IS A CONTACTOR IN THE CFA-T500.



**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 AND EMERGENCY BATTERY PACK ARE NOT SWITCHED. 'NL' ADJACENT TO FIXTURE INDICATES THAT FIXTURE SHALL BE ON 24 HOURS.
  - EXISTING EXTERIOR WALL-MOUNTED FIXTURES TO BE REPLACED. CONNECT REPLACEMENT FIXTURE TO CIRCUIT SHOWN.
  - PROVIDE A TYPE BI 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.
  - CEILING MOUNTED RECESSED AUTOMATIC PHOTOCELL FOR DAYLIGHT CONTROLS. LIGHTS IN DAYLIGHT ZONES SHALL DIM BASED ON THE AMOUNT OF DAYLIGHT DETECTED AT THE PHOTOCELL. FIELD CALIBRATE PHOTOCELL. ROUTE LIGHTS IN DAYLIGHT ZONE THROUGH THE T-500 AND LOCAL PHOTOCELL.
  - 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 #WSX-WH.
  - PILOT LIGHT SWITCH FOR CONTROL OF LED 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.
  - CEILING MOUNTED LINE VOLTAGE OCCUPANCY SENSOR (EQUIV. TO SENSOR SWITCH CMR-PDT-9). ROUTE LOCAL AREA LIGHTS THROUGH SENSOR.
  - CONNECT THE INTEGRAL CANOPY FIXTURE TO C-12 VIA THE EXISTING DUSK-TO-DAWN CIRCUIT IN THE CFA-T500.
  - NOT USED.
  - COORDINATE CONNECTION OF REPLACEMENT SIGNAGE TO EXISTING CKT. NOT USED.
  - 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.



**2 LIGHTING FIXTURE (LUMINAIRE) SCHEDULE - CHICK-FIL-A REMODEL Store #01999**

MARK	MANUFACTURER	CATALOG NUMBER	NO. LAMPS/TYPE	WATTS	VOLTS	MOUNTING	REMARKS
A	COOPER/METALUX	24FP6440C	INTEGRAL WITH FIXTURE	59.4	120	RECESSED	KITCHEN AREA, 2'X4' LED PANEL TROFFER, 4000K COLOR TEMP
AE	COOPER/METALUX	24FP6440C-EL14W	INTEGRAL WITH FIXTURE	59.4	120	RECESSED	SAME AS 'A' WITH EMERGENCY BATTERY PACK. SEE PLAN NOTES ABOUT LAMP SWITCHING
B1	METALUX	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-EM14-HM6-12-830-61-ND-C	INTEGRAL WITH FIXTURE	21.1	120	RECESSED	SAME AS 'D3' WITH EMERGENCY BATTERY PACK
F	COOPER/HALO	SLDSL60895EMWR	INTEGRAL WITH FIXTURE	9	120	SURFACE	SURFACE-MOUNTED LED DOWNLIGHT, 600 LUMENS, 3000K COLOR TEMP
N	MINKA	4531-267B	1-LED11A19/827/D	11	120	WALL	LAVATORY WALL SCONCE-SHADE POINTED DOWN W/ LED LAMP & CL ON LAVATORY
P1	MEYDA	142776	2-LED11A19/827/D	22	120	PENDANT	31" DIA PEACH BASKET PENDANT WITH BTM AT 6'-3" AFF ABV TABLE, 7'-6" OTHERWISE
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

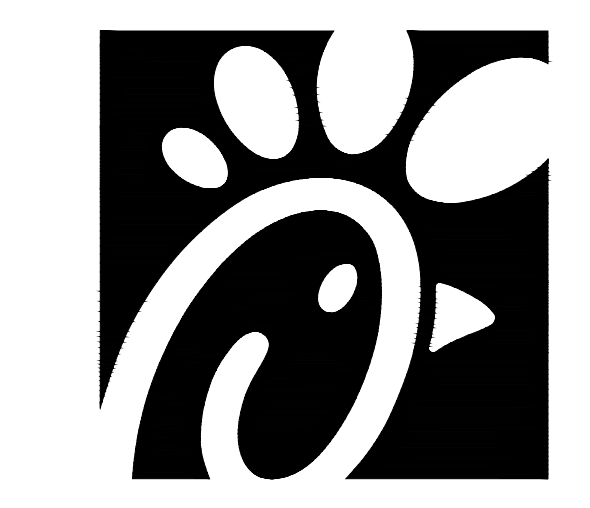
NOTES:  
1. LUMINAIRES UTILIZING DOUBLE-ENDED LAMPS AND CONTAIN BALLASTS THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS EITHER INTERNAL OR EXTERNAL TO EACH LUMINAIRE PER NEC 410.130(G).  
2. THE LIGHTING FIXTURE PACKAGE IS AVAILABLE THROUGH A NATIONAL ACCOUNT PROGRAM. REFER TO THE ELECTRICAL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

ALL OCCUPANCY SENSORS (RESTROOMS, OFFICE, TEAM MEMBER ROOM) SHALL AUTOMATICALLY TURN OFF 100% OF LIGHTS WITHIN 20 MINUTES MAX AFTER VACANCY PER IECC 2021 C405.21.

OCCUPANCY SENSORS IN OFFICE AND TEAM MEMBER ROOM SHALL HAVE MANUAL ON PER IECC 2021 C405.21.

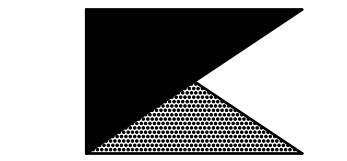
PER IECC 2021 SECTION C-405.2.2 & C-403.4.2

CONTRACTOR SHALL COORDINATE WITH SUNCOAST ON PROVIDING AN AUTOMATIC TIMER THAT COMPLIES WITH ITEMS #1 THRU #5 IN SECTION C-405.2.2 AND SECTIONS C403.4.2 THRU C-403.4.2.3.



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BUILDING TYPE / SIZE: S06E  
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SHEET LIGHTING PLAN

SHEET NUMBER

**E2.1**



### 2 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 PROVIDE EDWARDS #340-4NB VIBRATING 4" DIAMETER BELL. BELL SHALL BE RATED AT 120 VOLTS.
- 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 ANSLU SYSTEM PANEL. SEE ANSLU 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 SIMPLEX RECEPTACLE FOR THE FLY SYSTEM ITEM. DO NOT CUT THE CORDSET FURNISHED WITH THE UNIT, BUT COIL THE CORD ON THE RIGHT SIDE OF THE UNIT.
- 10 THE OUTLETS FOR THE OPEN FRYERS (ITEM #522) ARE FURNISHED BY THE EXHAUST HOOD SUPPLIER AND INSTALLED BY THE CONTRACTOR.
- 11 NOT USED.
- 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 #S2963 AND INSTALLED PER THE DETAILS ON SHEET E12.
- 13 NOT USED.
- 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 TWISTLOCK PLUGS. CONTACT BRIDGID DEFRAFRANCHESI EMAIL: BRIDGID1985@GMAIL.COM (800-639-7584) TO PURCHASE OEP BOX AND DROP CORD RECEPTACLES. PROVIDE LIQUID-TIGHT CONDUIT WITH CONDUCTORS FOR DIRECT CONNECTED EQUIPMENT. CONDUIT SHALL NOT TOUCH THE FLOOR WHEN EQUIPMENT IS IN PLACE. USE SUPPORT GRIPS W/ SUPPORT HOOK ATTACHED TO SHELVING ABOVE AS NEEDED. PASS & SEYMOUR MODEL #S075-U-G-5 OR EQUIVALENT.
- 15 PROVIDE CEILING MOUNTED LOW VOLTAGE OCCUPANCY SENSOR EQUIV. TO SENSOR SWITCH CM-PDT-91. ROUTE CONTROLLED RECEPTACLES THROUGH SENSOR VIA POWER PACK PP.
- 16 PROVIDE POWER PACK (EQUIV. TO SENSOR SWITCH PP20) FOR AUTOMATIC RECEPTACLE CONTROLS MOUNTED ABOVE CEILING IN AN ACCESSIBLE LOCATION. CONNECT TO OCCUPANCY SENSOR (MCL). PROVIDE J-BOX FOR PROTECTION.
- 17 RELOCATE BOOSTER PUMP CONNECTION TO THIS LOCATION. FIELD VERIFY MOUNTING HEIGHT WITH PLUMBING CONTRACTOR.
- 18 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 16 (ORANGE) RECEPTACLE OUTLETS. OUTLET BOX TO BE MOUNTED TO THE OVER-HEAD SHELVING AT THE PRINTER AND MONITOR MOUNTING BRACKET.

### 4 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.

### 5 KEY NOTES - COMMUNICATIONS:

- 1 PROVIDE TWO RETROFIT STYLE DOUBLE-GANG RINGS (CARLON #SC200RR) WITH STAINLESS STEEL COVER PLATE AND HOLE IN PLATE FOR AUDIO, DETECTOR LOOP, AND DIGITAL MENUBOARD CABLES. EACH WITH A 2" CONDUIT UNDERGROUND TO THE DT DUAL-LANE (MLOP) ORDERING AREA AND A 2" CONDUIT STUBBED UP INTO THE CEILING SPACE.
- 2 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.

### 8 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 15A 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.

### 3 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" 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" 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 1/2" CONDUIT DOWN TO A SECOND SINGLE-GANG JUNCTION BOX AT THE CCTV MONITOR LOCATION.
- 4 PROVIDE TWO GANG WEATHERPROOF 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. 12" 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" EMT 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" EMT CONDUIT SURFACE MOUNTED FROM BOX JUST BELOW THE ROOF DECK MOUNTING BRACKETS. TERMINATE CONDUIT IN THE ACCESSIBLE CEILING SPACE INSIDE THE BUILDING.

### 6 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.
- 2 NOT USED.
- 3 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.
- 4 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.

### 7 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.

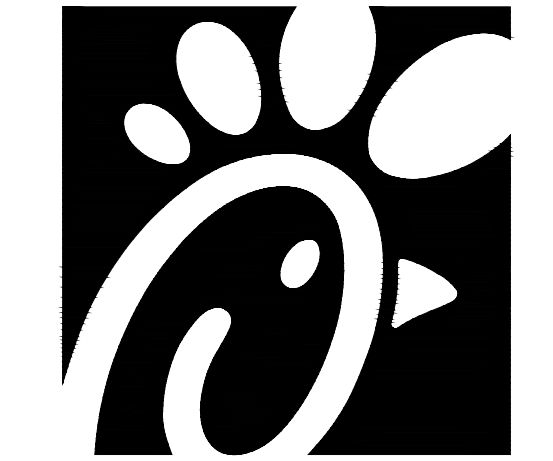
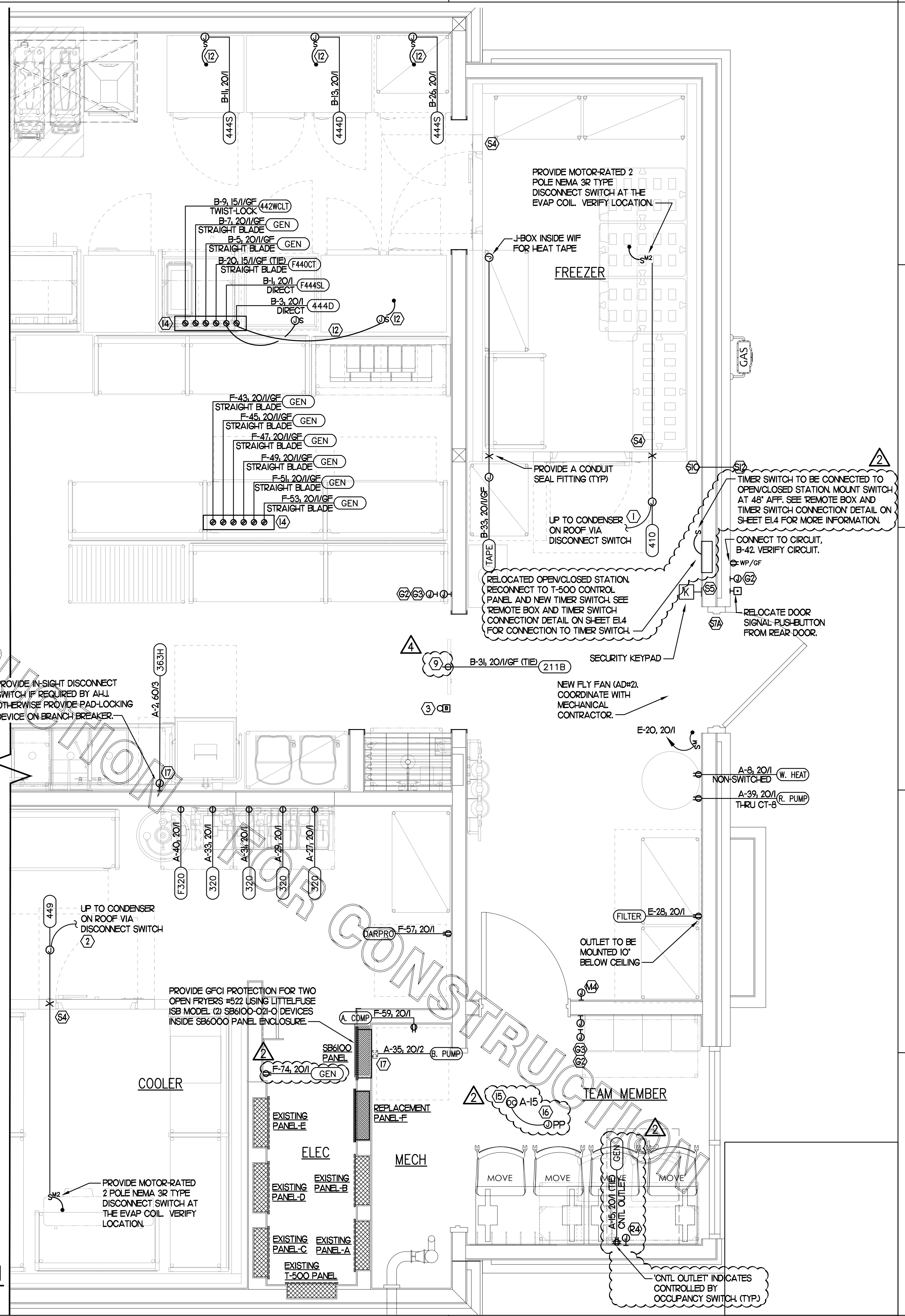
### 9 CO2 DETECTOR NOTES:

- 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**  
 5200 Buffington Road  
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 Telephone: (615) 255-5203

**CHICK-FIL-A**  
 JOHNS HOPKINS ROAD  
 10975 JOHNS HOPKINS RD  
 LAUREL, MD 20723

FSR#01999

BUILDING TYPE / SIZE: SOB6  
 RELEASE: v04.23

NO.	DATE	DESCRIPTION
2	05/14/24	Permit Comments
4	05/22/24	Pre-Bid Notes

CONSULTANT PROJECT # 23108.HF.R  
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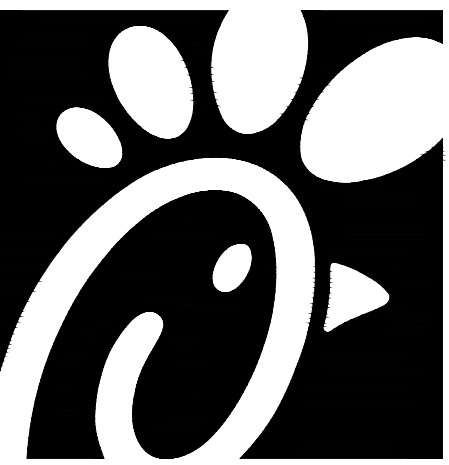
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SHEET LARGE SCALE POWER PLAN

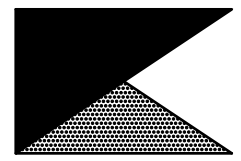
SHEET NUMBER

E2.3

CONSTRUCTION



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**CHICK-FIL-A**  
JOHNS HOPKINS ROAD  
10975 JOHNS HOPKINS RD  
LAUREL, MD 20723

**FSR#01999**

BUILDING TYPE / SIZE: SOB6  
RELEASE: v04.23

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
2	05/14/24	Permit Comments

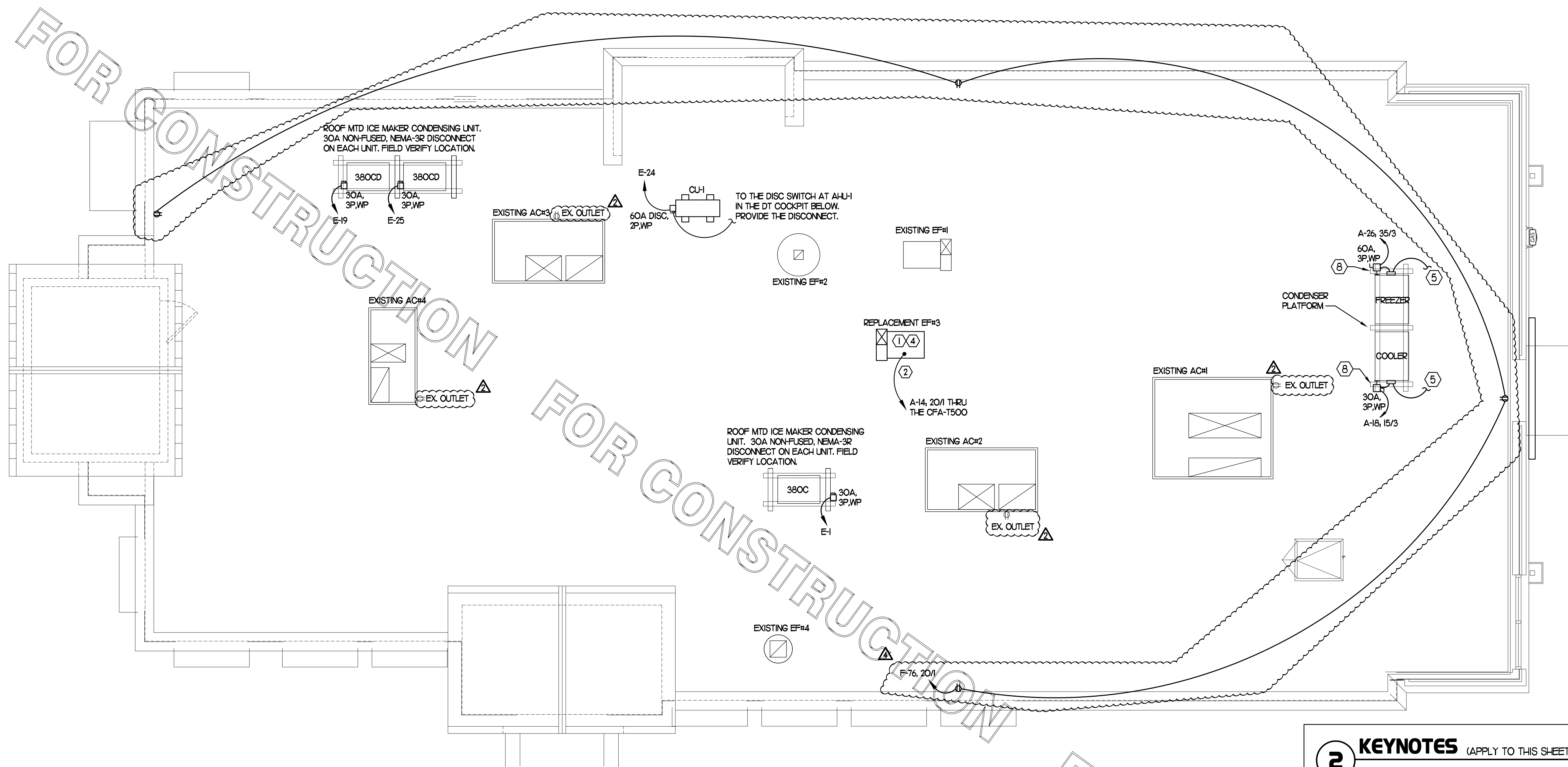
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SHEET  
ROOF POWER PLAN

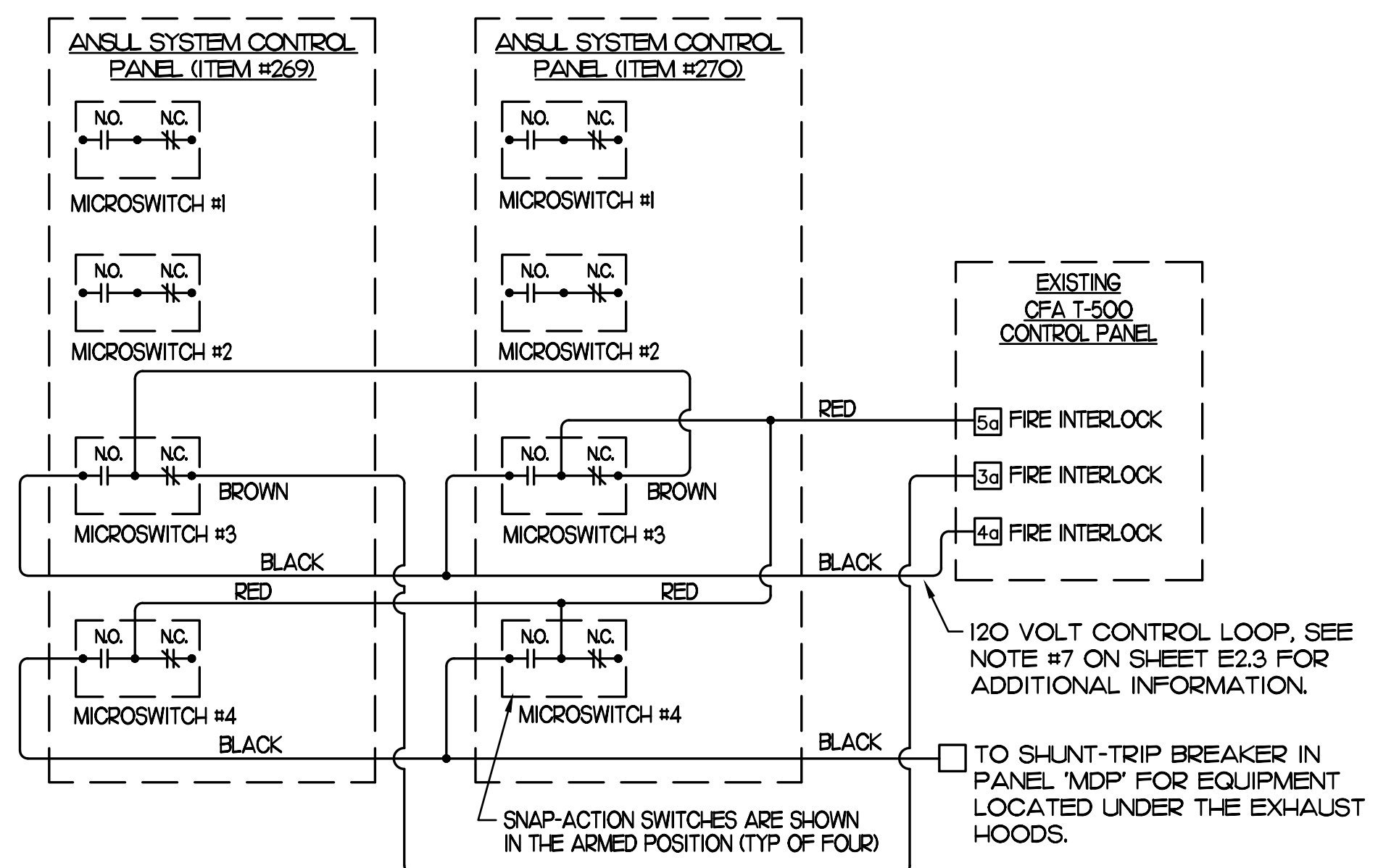
SHEET NUMBER

**E2.4**



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

- 2 KEYNOTES (APPLY TO THIS SHEET ONLY)**
- CONNECT EF#3 THRU THE CFA-500 CONTROL PANEL.
  - COORDINATE EXACT LOCATION OF CONDUIT AND DISCONNECT AT EXHAUST FAN. CONDUIT SHALL BE INSTALLED THROUGH ROOF ON OUTSIDE OF FAN CURB. CONDUIT SHALL BE LOCATED AT FAN HINGE SUCH THAT THE FAN HOOD CAN BE FULLY HINGED OPEN AND NOT TOUCH THE CONDUIT. PROVIDE 1/4" DIAMETER LOOP IN THE FLEXIBLE CONDUIT BETWEEN THE ROOF AND THE FAN ELECTRICAL CONNECTION.
  - A/C UNIT DISCONNECT IS FURNISHED WITH A/C UNIT AND SHALL BE CONNECTED BY THE CONTRACTOR.
  - EXHAUST FAN DISCONNECT IS FURNISHED WITH THE FAN AND SHALL BE CONNECTED BY THE CONTRACTOR.
  - CONNECT POWER FROM EACH CONDENSING UNIT'S COMPRESSOR CONTACTOR TO THE EVAPORATOR COIL UNIT'S JUNCTION BOX BELOW. REFER TO E22 & E23 FOR LOCATION.
  - NOT USED.
  - NOT USED.
  - MOUNT DISCONNECT SWITCHES FOR WIC AND WIF CONDENSERS ON UNSTRUCT WITH CONDUIT DOWN INTO CEILING SPACE BELOW THRU ROOF PENETRATION DEVICE (NOT THRU ROOF). PROVIDE FUSE SIZE PER MANUFACTURER REQUIREMENTS.



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.

FOR CONSTRUCTION

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

**Project Information**

Energy Code: 2021 IECC  
 Project Title: CFA #1999 - Laurel, MD  
 Project Type: Alteration

Construction Site: 10975 Johns Hopkins Rd. Laurel, MD 20723  
 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
1-Kitchen & DT Serving (Common Space Types: Food Preparation)	1750	1.09	1908
2-Restrooms (Common Space Types: Restrooms)	229	0.63	144
3-Dining Area (Common Space Types: Dining Area - Family Restaurant)	1347	0.60	808
4-Multipurpose (Common Space Types: Conference/Meeting/Multipurpose)	87	0.97	84
5-Elec/Mech (Common Space Types: Electrical/Mechanical)	59	0.43	25
6-Office (Common Space Types: Office - Enclosed)	62	0.74	46
7-Storage (Common Space Types: Storage >=50 - <=1000 sq.ft.)	321	0.38	122
Total Allowed Watts =			3138

**Proposed Interior Lighting Power**

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture (C X D)	D Watt.	E
<b>Kitchen &amp; DT Serving (Common Space Types: Food Preparation, 1750 sq.ft.)</b>				
LED: A/AE: LED Troffer: Other:	1	23	59	1366
LED: D3/D3E: Downlight: Other:	1	8	21	169
<b>Restrooms (Common Space Types: Restrooms, 229 sq.ft.)</b>				
LED: D3/D3E: Downlight: Other:	1	6	21	127
LED: N: Vanity Sconce: Other:	1	2	11	22
<b>Dining Area (Common Space Types: Dining Area - Family Restaurant, 1347 sq.ft.)</b>				
LED: D3/D3E: Downlight: Other:	1	40	21	844
LED: F: Egg Light: Other:	1	5	9	45
<b>Multipurpose (Common Space Types: Conference/Meeting/Multipurpose, 87 sq.ft.)</b>				
LED: A/AE: LED Troffer: Other:	1	1	59	59
<b>Elec/Mech (Common Space Types: Electrical/Mechanical, 59 sq.ft.)</b>				
LED: A/AE: LED Troffer: Other:	1	1	59	59
<b>Office (Common Space Types: Office - Enclosed, 62 sq.ft.)</b>				
LED: A/AE: LED Troffer: Other:	1	1	59	59

Project Title: CFA #1999 - Laurel, MD Report date: 05/15/24  
 Data filename: Page 1 of 8

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture (C X D)	D Watt.	E
<b>Storage (Common Space Types: Storage &gt;=50 - &lt;=1000 sq.ft., 321 sq.ft.)</b>				
LED: A/AE: LED Troffer: Other:	1	6	59	356
Total Proposed Watts =			3107	

**Interior Lighting PASSES**

**Interior Lighting Compliance Statement**

Compliance Statement: The proposed interior lighting alteration project 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 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: CFA #1999 - Laurel, MD Report date: 05/15/24  
 Data filename: Page 2 of 8

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

**Project Information**

Energy Code: 2021 IECC  
 Project Title: CFA #1999 - Laurel, MD  
 Project Type: Alteration  
 Exterior Lighting Zone: 2 (Neighborhood business district (LZ2))

Construction Site: 10975 Johns Hopkins Rd. Laurel, MD 20723  
 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 /	D Tradable Wattage	E Allowed Watts (B X C)
Free standing/attached sales canopy	3744 ft <sup>2</sup>	0.4	Yes	1498
Pedestrian and vehicular entrances and exits	12 ft of	14	Yes	168
Illuminated area of facade wall or surface	3150 ft <sup>2</sup>	0.07	No	236
Total Tradable Watts (a) =				1666
Total Allowed Watts =				1902
Total Allowed Supplemental Watts (b) =				400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.  
 (b) A supplemental allowance equal to 400 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 Fixture (C X D)	D Watt.	E
<b>Free standing/attached sales canopy (3744 ft<sup>2</sup>): Tradable Wattage</b>				
LED: CRUS: LED Canopy Ltg: Other:	1	14	74	1036
<b>Pedestrian and vehicular entrances and exits (12 ft of door width): Tradable Wattage</b>				
LED: Integral Canopy Ltg: Other:	1	4	10	40
<b>Illuminated area of facade wall or surface (3150 ft<sup>2</sup>): Non-tradable Wattage</b>				
LED: Oj: LED Wall Sconce: Other:	1	21	25	525
Total Tradable Proposed Watts =			1076	

**Exterior Lighting PASSES**

**Exterior Lighting Compliance Statement**

Compliance Statement: The proposed exterior lighting alteration project 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 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

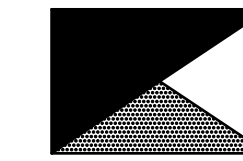
Project Title: CFA #1999 - Laurel, MD Report date: 05/15/24  
 Data filename: Page 3 of 8

Name - Title Signature Date

Project Title: CFA #1999 - Laurel, MD Report date: 05/15/24  
 Data filename: Page 4 of 8



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**CHICK-FIL-A**  
**JOHNS HOPKINS ROAD**  
 10975 JOHNS HOPKINS RD  
 LAUREL, MD 20723

**FSR#01999**

BUILDING TYPE / SIZE: SOB6  
 RELEASE: v04.23

**REVISION SCHEDULE**

NO.	DATE	DESCRIPTION
2	05/14/24	Permit Comments

CONSULTANT PROJECT # 23108.HF.R  
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SHEET LIGHTING COMCHECK

SHEET NUMBER

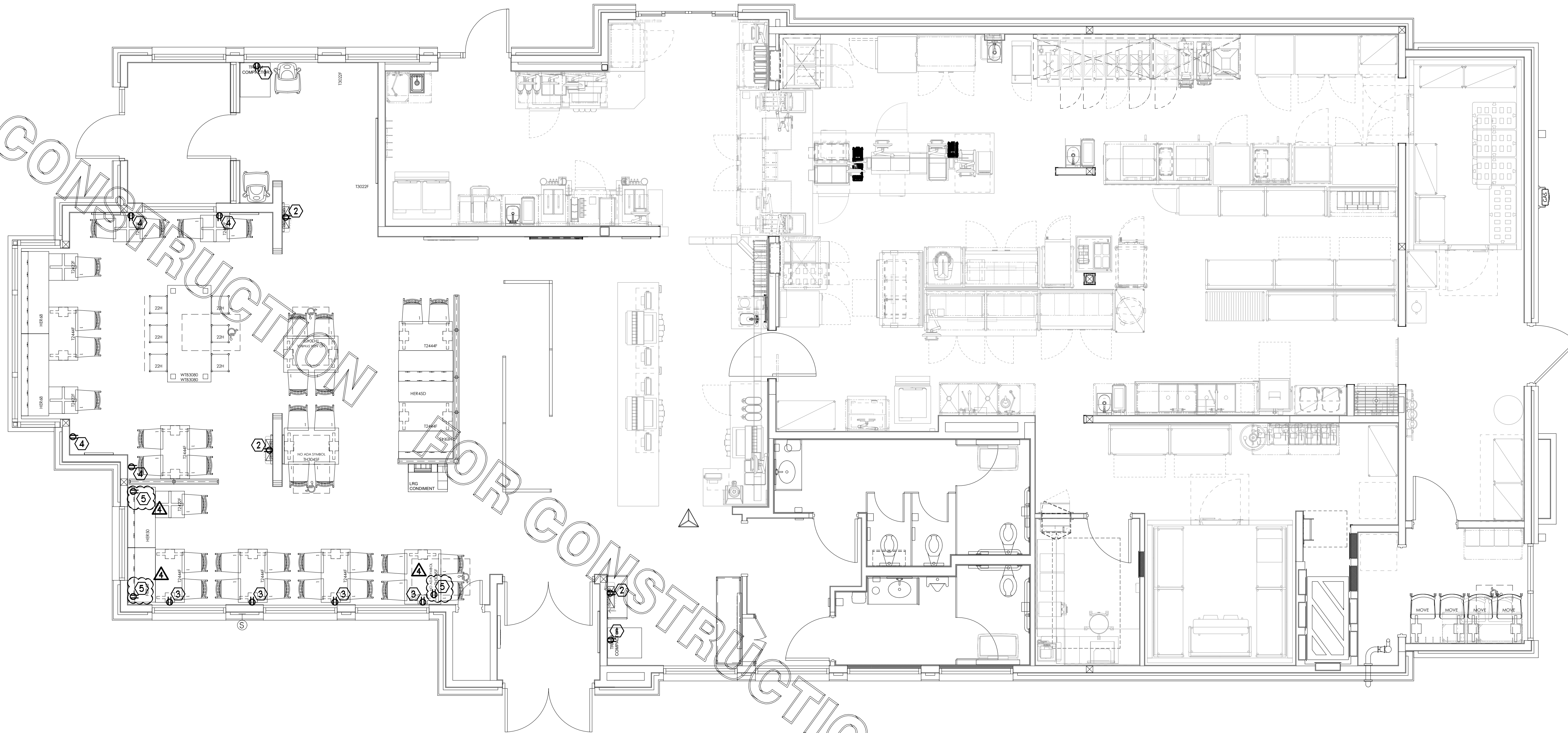
**E5.1**

CONSTRUCTION

FOR CONSTRUCTION

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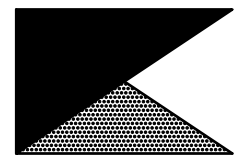
**1 DINING POWER PLAN**  
SCALE: 1/4"=1'-0"

- 3 KEYNOTES (APPLY TO THIS SHEET ONLY)**
- ① PROVIDE TAMPER-RESISTANT DUPLEX RECEPTACLE AT STANDARD HEIGHT FOR FUTURE COMPACTING TRASH CAN ON A DEDICATED 20 AMP CIRCUIT. USE CIRCUITS C-32 & C-36.
  - ② PROVIDE DUPLEX RECEPTACLE (SEE ELEVATIONS FOR MTG HT) IN AN ARLINGTON #0VFR2W DOUBLE-GANG RECESSED BOX FOR THE FLY SYSTEM ITEM #21IC. CL OF BOX AT 7'-4" AND CONNECT OUTLET TO CIRCUIT B-31.
  - ③ PROVIDE 20A, 120V TAMPER-RESISTANT, USB CHARGING TYPE DUPLEX RECEPTACLE OUTLETS (ARROW-HART #TR7756-B) IN THE DINING AREA. CONNECT THE NEW DEVICES TO C-9 (20/1) UNLESS OTHERWISE NOTED. VERIFY RECEPTACLES ARE NOT CENTERED ON TABLE LEGS.
  - ④ PROVIDE 20A, 120V TAMPER-RESISTANT, USB CHARGING TYPE DUPLEX RECEPTACLE OUTLETS (ARROW-HART #TR7756-B) IN THE DINING AREA. CONNECT THE NEW DEVICES TO E-30 (20/1) UNLESS OTHERWISE NOTED. VERIFY RECEPTACLES ARE NOT CENTERED ON TABLE LEGS.
  - ⑤ PROVIDE 20A, 120V DUPLEX RECEPTACLE OUTLETS IN THE CEILING FOR CHRISTMAS LIGHTING. FIELD COORDINATE LOCATIONS WITH CONSTRUCTION MANAGER. CONNECT THE NEW DEVICES TO F-78 (20/1) UNLESS OTHERWISE NOTED.



Chick-fil-A

Chick-fil-A  
5200 Buffington Road  
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**CHICK-FIL-A**  
JOHNS HOPKINS ROAD  
10975 JOHNS HOPKINS RD  
LAUREL, MD 20723

**FSR#01999**

BUILDING TYPE / SIZE: S06E  
RELEASE: v04.23

**REVISION SCHEDULE**

NO.	DATE	DESCRIPTION
4	05/22/24	Pre-Bid Notes

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SHEET  
DINING POWER PLAN

SHEET NUMBER

**E2.5**

CONSTRUCTION

PANELBOARD SCHEDULE - EXISTING PANEL-A #1999												
PANELBOARD DESCRIPTION				BREAKER OPTIONS				LOADS				
PANELBOARD NAME: A				ARC-FAULT: AF				LOADS				
MANUFACTURER / TYPE: SEC / P1				GROUND FAULT: GF				KVA PHASE A 19.73				
VOLTS: 208 / 120				HACR: HA				KVA PHASE B 17.73				
PHASE / WIRE: 3 / 4				HID LIT RATED: HD				KVA PHASE C 18.03				
MAIN TYPE / CU BUS AMPS: MLD / 250				HIGH MAG LOAD: HM				AMPS PHASE A 164.4				
AC RATING: 65,000				ISOLATED GROUND: IG				AMPS PHASE B 147.5				
MOUNTING: FLUSH				LOCK-ON: LO				AMPS PHASE C 150.3				
NEMA RATING: 1				SHUNT TRIP: ST				KVA CONNECTED 55.46				
QUANTITY OF SECTIONS: 1				SWITCH RATED: SW				AMPS DIVERSIFIED 154				
								AMPS DIVERSIFIED 22.5				
Phi	CR	LOAD	EQ	LOAD	LOAD	CR	BR	LOAD	LOAD	EQ	LOAD	
Notes	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	
AC	1	TELEPHONE DT VIDEO	R	0.540	20/1/0F	A	5.880	K			2	
	3	OFFICE GEN & MUSIC	R	0.720	20/1	B	60/3				4	
	5	OFFICE GEN & FAX	R	0.720	20/1	C	60/3				4	
	7	WATER CLOSET HEATER	K	1.000	20/1	A	20/1	1.440	MS		8	
	9	U.C. REFRIGERATOR	X	0.564	20/1/0F	B	20/1/0	1.440	MS		10	
	11	U.C. REFRIGERATOR	X	0.564	20/1/0F	C	20/1/0	1.440	MS		10	
	13	U.C. REFRIGERATOR	X	0.564	20/1/0F	A	20/1	1.176	M1	EF-3	REPLACEMENT EFAS	
	15	U.C. REFRIGERATOR	X	0.564	20/1/0F	B	20/1	0.540	R		SECURITY SYSTEM	
	17	U.C. REFRIGERATOR	X	0.564	20/1/0F	C	20/1	1.258	X			
	19	MILKSHAKE DISPENSER	300A	K	0.480	20/1/0F	A	15/3/0		449	WALK-IN COOLER	
	21	COMPACTOR BLOWER	M1	0.250	20/1	B	1.140	X				
	23	SANDWICH SLIDE	5630	K	1.090	20/1/0F	C	20/1	0.750	M1	TRASH COMPACTOR	
	25	SANDWICH SLIDE	5635	K	0.548	20/1/0F	A		1.958	X	26	
	27	CARBONATOR	320	K	0.744	20/1	B	35/3/0	2.221	X	410	WALK-IN FREEZER
	29	CARBONATOR	320	K	0.744	20/1	C		2.221	X	410	WALK-IN FREEZER
	31	CARBONATOR	320	K	0.744	20/1	A	20/1	1.650	K	305	TEA BREWER
	33	CARBONATOR	320	K	0.744	20/1	B	20/1	1.650	K	305	TEA BREWER
	35	BOOSTER PUMP	M1	1.440	20/2	C	20/1	0.800	M1		EDT. DOOR	
	37	RECIRC. PUMP	M1	0.500	20/1	A	15/1	0.884	M1	EF-2	EF-2 1/3 HP	
	39	RECIRC. PUMP	M1	0.500	20/1	B	20/1/0F	0.744	X	320	SPIRE CARBONATOR	
	41	EF #1 3/4 HP	EF-1	1.660	25/1	C	20/1/0F	0.380	MS		HME OUTLET	
*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	2.700	PER(10KVA@50%)	=	2.700							
MISCELLANEOUS	MS	3.740	1.25	=	4.675							
SINGLE PHASE MOTOR	M1	1.180	1.25	=	10.225							
KITCHEN EQUIPMENT	K	27.778	0.65	=	18.056							
KITCHEN REFRIG EQUIPMENT	X	13.068	0.65	=	8.493							
TOTAL		55.464			44.149							

PANELBOARD SCHEDULE - EXISTING PANEL-D #1999											
PANELBOARD DESCRIPTION				BREAKER OPTIONS				LOADS			
PANELBOARD NAME: D				ARC-FAULT: AF				LOADS			
MANUFACTURER / TYPE: SEC / P1				GROUND FAULT: GF				KVA PHASE A 62.91			
VOLTS: 208 / 120				HACR: HA				KVA PHASE B 61.91			
PHASE / WIRE: 3 / 4				HID LIT RATED: HD				KVA PHASE C 62.35			
MAIN TYPE / CU BUS AMPS: MLD / 400				HIGH MAG LOAD: HM				AMPS PHASE A 594.3			
AC RATING: 65,000				ISOLATED GROUND: IG				AMPS PHASE B 615.4			
MOUNTING: FLUSH				LOCK-ON: LO				KVA CONNECTED 187.2			
NEMA RATING: 1				SHUNT TRIP: ST				KVA DIVERSIFIED 122.3			
QUANTITY OF SECTIONS: 1				SWITCH RATED: SW				AMPS DIVERSIFIED 339.4			
Phi	CR	LOAD	EQ	LOAD	LOAD	CR	BR	LOAD	LOAD	EQ	LOAD
Notes	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
	3	PRESSURE FRYER	523	K	4.563	50/3	B	20/1			SPARE
	5	PRESSURE FRYER	523	K	4.563	50/3	C	20/1			SPARE
	7	PRESSURE FRYER	523	K	4.563	50/3	A	80/3	7.333	K	522
	9	PRESSURE FRYER	523	K	4.563	50/3	B	80/3	7.333	K	522
	11	PRESSURE FRYER	523	K	4.563	50/3	C	80/3	7.333	K	522
	13	PRESSURE FRYER	523	K	4.563	50/3	A	80/3	7.333	K	522
	15	PRESSURE FRYER	523	K	4.563	50/3	B	80/3	7.333	K	522
	17	PRESSURE FRYER	523	K	4.563	50/3	C	80/3	7.333	K	522
	19	PRESSURE FRYER	523	K	4.563	50/3	A	80/3	7.333	K	522
	21	PRESSURE FRYER	523	K	4.563	50/3	B	80/3	7.333	K	522
	23	PRESSURE FRYER	523	K	4.563	50/3	C	80/3	7.333	K	522
	25	PRESSURE FRYER	523	K	4.563	50/3	A	80/3	7.333	K	522
	27	PRESSURE FRYER	523	K	4.563	50/3	B	80/3	7.333	K	522
	29	PRESSURE FRYER	523	K	4.563	50/3	C	80/3	7.333	K	522
	31	PRESSURE FRYER	523	K	4.563	50/3	A	20/1	1.000	M1	CAPTURE JET FANS
	33	PRESSURE FRYER	523	K	4.563	50/3	B	20/1			SPARE
	35	PRESSURE FRYER	523	K	4.563	50/3	C	20/1			SPARE
	37	PRESSURE FRYER	523	K	4.563	50/3	A	20/1			SPARE
	39	CHAR-GRILL COOKER	524	K	5.203	50/3	B	20/1			SPARE
	41	CHAR-GRILL COOKER	524	K	5.203	50/3	C	20/1			SPARE
*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	0.900	PER(10KVA@50%)	=	0.900						
MISCELLANEOUS	MS	78.334	1.25	=	78.334						
SINGLE PHASE MOTOR	M1	11.800	1.25	=	11.800						
KITCHEN EQUIPMENT	K	16.416	0.65	=	10.670						
TOTAL		108.270			102.889						

REPLACEMENT PANEL-POS #2257											
PANELBOARD DESCRIPTION				BREAKER OPTIONS				LOADS			
PANELBOARD NAME: POS				ARC-FAULT: AF				LOADS			
MANUFACTURER / TYPE: SQ-D / NO				GROUND FAULT: GF				KVA PHASE B 1.44			
VOLTS: 120 / 120				HACR: HA							
PHASE / WIRE: 1 / 4				HID LIT RATED: HD							
MAIN TYPE / CU BUS AMPS: MLD / 100				HIGH MAG LOAD: HM				AMPS PHASE B 12			
AC RATING: 10K				ISOLATED GROUND: IG				KVA CONNECTED 1.44			
MOUNTING: FLUSH				LOCK-ON: LO				KVA DIVERSIFIED 1.44			
NEMA RATING: 1				SHUNT TRIP: ST				KVA CONNECTED 1.44			
QUANTITY OF SECTIONS: 1				SWITCH RATED: SW				AMPS DIVERSIFIED 12			
Phi	CR	LOAD	EQ	LOAD	LOAD	CR	BR	LOAD	LOAD	EQ	LOAD
Notes	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
A	1	COUNTER POS STATION	80/182	MS	0.130	15/1/0F	B	15/1/0F	0.200	MS	183
A	3	COUNTER POS STATION	80/182	MS	0.130	15/1/0F	C	15/1/0F	0.200	MS	183
A	5	DRIVE-THRU POS STATION	180	MS	0.240	15/1/0F	B	15/1/0F	0.070	MS	OFFICE RECEPTACLE
A	7	DT POS STATIONS	80/182	MS	0.110	15/1/0F	C	15/1/0F	0.170	MS	CL TABLE MONITORS
	9	SPACE				1 POLE	B	15/1	0.040	MS	NETWORK CABINET
	11	SPACE				1 POLE	B	15/1	0.040	MS	ISP MODEM
	13	SPACE				1 POLE	B	15/1	0.040	MS	SPACE
	15	SPACE				1 POLE	B	15/1	0.040	MS	SPACE
	17	SPACE				1 POLE	B	15/1	0.040	MS	SPACE
	19	SPACE				1 POLE	B	15/1	0.040	MS	SPACE
	21	SPACE				1 POLE	B	15/1	0.040	MS	SPACE
	23	SPACE				1 POLE	B	20/1/0			BACKED MAIN BREAKER
*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						
MISCELLANEOUS	MS	1.440	1	=	1.440						
TOTAL		1.440			1.440						

PANELBOARD SCHEDULE - EXISTING PANEL-B #1999												
PANELBOARD DESCRIPTION				BREAKER OPTIONS				LOADS				
PANELBOARD NAME: B				ARC-FAULT: AF				LOADS				
MANUFACTURER / TYPE: SEC / P1				GROUND FAULT: GF				KVA PHASE A 16.98				
VOLTS: 208 / 120				HACR: HA				KVA PHASE B 17.13				
PHASE / WIRE: 3 / 4				HID LIT RATED: HD				KVA PHASE C 17.48				
MAIN TYPE / CU BUS AMPS: MLD / 250				HIGH MAG LOAD: HM				AMPS PHASE A 141.5				
AC RATING: 65,000				ISOLATED GROUND: IG				AMPS PHASE B 142.8				
MOUNTING: FLUSH				LOCK-ON: LO				AMPS PHASE C 145.7				
NEMA RATING: 1				SHUNT TRIP: ST				KVA CONNECTED 51.6				
QUANTITY OF SECTIONS: 1				SWITCH RATED: SW				AMPS DIVERSIFIED 143.2				
								AMPS DIVERSIFIED 99.92				
Phi	CR	LOAD	EQ	LOAD	LOAD	CR	BR	LOAD	LOAD	EQ	LOAD	
Notes	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	
C	1	THAWING CABINET	444SL	X	1.920	20/1	A	20/1	0.380	EL	REF. ENC. / POND PUMP	
C	3	THAWING CABINET	444SL	X	1.920	20/1	B	20/1	1.840	K	FRY STATION	
AC	5	DROP CORD OUTLET	R	0.180	20/1/0F	C	20/1/0F	1.200	K	315W	SODA DISPENSER	
AC	7	DROP CORD OUTLET	R	0.180	20/1/0F	A	20/1/0F	1.200	K	315W	SODA DISPENSER	
AC	9	UPRIGHT REFRIGERATOR	442W	X	0.960	15/1/0F	B	20/1/0F	1.200	K	315W	SODA DISPENSER
C	11	THAWING CABINET	444	X	1.920	20/1	C	20/1/0F	1.200	K	315W	SODA DISPENSER
C	13	THAWING CABINET	444	X	1.920	20/1	A	20/1/0	0.750	MS	1-SOY SHUNT TRIP	
AC	15	DROP CORD OUTLET	R	0.180	20/1/0F	B	15/1/0F	0.600	X	380	INTERIOR ICE MAKER	
AC	17	DOUBLE JUICE DISP.	310	K	1.020	20/1/0F	C	15/1/0F	0.600	X	3800	INTERIOR ICE MAKER
AC	19	DROP CORD OUTLET	R	0.180	20/1/0F	A	15/1/0F	0.360	X	440C	BREADING TABLES	
AC	21	UPRIGHT REFRIGERATOR	443GT	X	0.960	15/1/0F	B	20/1/0F	1.128	X	400	FRY FREEZER
AC	23	DROP CORD OUTLET	R	0.180	20/1/0F	C	20/1/0F	1.200	K	315W	SODA DISPENSER	
AC	25	DROP CORD OUTLET	R	0.360	20/1	A	20/1	1.920	X	444	THAWING CABINET	
AC	27	DINING OUTLETS	R	1.080	20/1/0F	B		5.203	K			
AC	29	INTERIOR ICE MAKER	3800	X	0.800	15/1/0F	C	50/3/ST			524	
BC	31	FLY SYSTEM	MS	0.320	20/1/0F	A		5.644	K		CHAR-GRILL COOKER	
BC	33	FREEZER HEAT TAPE	HT	0.500	20/1/0F	B		5.644	K			
C	35	LEMON JUICER	607	K	0.800	20/1	C					



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

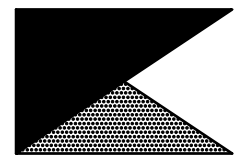
galvanized steel, and shall conform to the requirements of Article 330 of the National Electrical Code.
B. MC Cable with an isolated grounding conductor shall be used, concealed above ceiling and in walls, for the connection of the Point Of Sales (POS) system equipment from the isolated ground receptacles 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.
F. PVC conduit shall convert to galvanized rigid metal per detail on drawings.
2.04 FLEXIBLE METAL CONDUIT
A. Where fittings for liquid tight flexible conduit are brought into an enclosure with a knock-out, a gasket assembly, consisting of one piece "O" ring, with Buna-N sealing material, series 3400, shall be installed on outside of box. Fittings shall be made of either steel or malleable iron only, and shall have insulated throats or insulated bushings.
B. In dry locations, where final connections to motors and other equipment may be made with Flexible Metal Conduit, fittings shall be of steel or malleable iron only with insulated throats or insulated bushings, and shall be of wedge and screw type having an angular wedge fitting between convolutions of conduit.
2.05 MC CABLE
A. MC Cable may be used for branch circuits as noted in Part 1 above and where the local code allows use of MC Cable. The installation shall conform to Article 330 of the National Electrical Code and shall be concealed in walls and above ceilings. (Exposed MC Cable will not be acceptable.)
B. MC Cables shall be secured and supported by the building structure per the National Electrical Code and any local code requirements. MC Cable shall not lay on ceilings.
SECTION C16121 CONDUCTORS
PART 1 - PRODUCTS
1.01 CONDUCTORS
A. Provide 98% conductivity copper conductors with 600-volt insulation. For conductors No. 12 AWG and No. 10 AWG, provide solid type. For all conductors No. 8 AWG and larger, provide stranded type. All conductors shall have THHN/THWN insulation unless noted otherwise.

B. Conductors shall be manufactured by Triangle, American, Rome, Southwire or approved equal.
C. Provide No. 14 AWG type THHN fixture conductors, for conductors entering lighting fixtures.
D. Branch circuit conductors shall be minimum #12 AWG, copper.
PART 2 - EXECUTION
2.01 INSTALLATION
A. Install pull boxes in circuits or feeders over 100 feet long.
B. Make all splices or connections only at outlet, pull or junction boxes.
C. All conductors and connections shall test free of grounds, shorts, and opens prior to energizing circuit.
D. Provide No. 10 wire in lieu of No. 12 wire for any branch circuit in excess of 100 feet linear length to prevent excessive voltage drop.
E. Use Ideal wing nuts, Scotchlok Type Y, R, G, or B, or approved equivalent connectors for fixture connections at outlet boxes.
F. Make feeder taps and joints with OZ Type T, PT, PM or PTS, or approved equivalent clamp connectors as manufactured by Kupler, or with approved compression sleeves. Wrap connectors with No. 10 Electro-Seal or approved equivalent plastic filler and vinyl tape.
G. Leave a minimum of 8" slack wire in every outlet box.
H. Provide color coded wire and with a different color for each phase and neutral and ground as follows: Phase A, B, C: Black, Red and Blue respectively; Neutral: White; Isolated Ground: Green with Yellow Stripes. Approved color tape is acceptable for feeders using larger than #6 conductors.
I. All conductors shall be continuous from origin to panel or equipment termination without splices where possible. Where splices and taps are necessary or are required, they shall be made in splice boxes with suitable connectors.
J. Tighten all electrical connectors and terminals, including screws and bolts, in accordance with manufacturer's published torque tightening values. Where manufacturer's torquing requirements are not indicated, tighten connectors and terminals to comply with tightening torques specified in UL486A and UL486B.
SECTION C16122 OUTLET AND JUNCTION BOXES
PART 1 - GENERAL
1.01 PROJECT CONDITIONS
A. Verify field measurements are as shown on drawings.
B. Verify locations of floor boxes and outlets in work areas prior to rough-in.
PART 2 - PRODUCTS
2.01 OUTLET BOXES
A. Sheet metal outlet boxes: galvanized steel.
B. Cast boxes: type FS, cast ferrolloy. Provide gasketed cover by box manufacturer.
C. Manufacturers: National, Appleton, General Electric, RACO, OR Steel City.
D. Provide boxes for fixtures with fixture studs in center.
E. Outlet boxes for lighting, switches and receptacles in interior areas with exposed conduit shall be pressed steel and in exterior areas with exposed conduit shall be cast metal with threaded hubs, "FS" type. Use galvanized steel for concealed boxes. Boxes shall be 1-1/2" deep minimum.
2.02 PULL AND JUNCTION BOXES
A. Sheet metal boxes: galvanized steel.
B. Surface-mounted cast metal box: type 4; flat-flanged, surface-mounted junction box.
1. Material: galvanized cast iron.
2. Cover: furnish with ground flange, neoprene gasket, and stainless steel cover screws.
C. In-ground cast metal box: inside flanged, recessed cover box for flush mounting.
1. Material: galvanized cast iron.
2. Cover: nonskid cover with neoprene gasket and stainless steel cover screws.
3. Cover legend: electric.
D. Manufacturers: National, Appleton, General Electric, RACO, Oz-Gedney or Steel City.
PART 3 - EXECUTION
3.01 INSTALLATION
A. Install electrical boxes as shown on drawings, and as required for splices, taps, wire pulling, equipment connections and compliance with regulatory requirements.
B. Install pull boxes and junction boxes above accessible ceilings.
C. Inaccessible ceiling areas: Install outlet and junction boxes no more than 6

inches from ceiling access panel or from removable recessed light fixture.
D. Use flush mounting outlet boxes in finished areas.
E. Use stamped steel bridges to fasten flush mounting outlet box between studs.
F. Install flush mounted box without damaging wall insulation or reducing its effectiveness.
G. Use adjustable steel channel fasteners for hung ceiling outlet box.
H. Do not fasten boxes to ceiling support wires.
I. Support boxes independently of conduit, except cast box that is connected to two Rigid Metal Conduits both supported within 12 inches of box.
J. Use gang box where more than one device is mounted together. Do not use sectional box.
K. Use gang box with plaster ring for single device outlets.
L. Use cast outlet box in exterior locations and wet locations.
3.02 OUTLET BOXES
A. Select boxes according to intended use and type of outlet. Ceiling outlet boxes shall be 4" octagon and 1-1/2" deep. Use 2-1/8" deep octagon boxes or 4" square boxes required. All ceiling outlet boxes shall have a fixture stud of no bolt self-locking type installed if required to hang the fixture specified at the outlet.
3.03 JUNCTION BOXES
A. Junction boxes shall be sized according to number of conductors in box or type of service to be provided. Minimum junction box size 4-11/16" square and 2-1/8" deep. Provide screw covers for junction boxes.
B. Use code gauge steel with screw covers for pull boxes with prime coat and provide with screw cover. Size pull boxes according to the NEC.
C. Provide pull box every 100 feet of conduit run or where excessive number of bends necessitates a box for ease of wire installation.
SECTION C16123 GROUNDING AND BONDING
PART 1 - PRODUCTS
1.01 ROD ELECTRODES
A. Material: copper-clad steel.
B. Diameter: 3/4 inch.
C. Length: 10 feet.
1.02 MECHANICAL CONNECTORS
A. Material: bronze.
1.03 GROUNDING CONDUCTOR (WIRE)
A. Material: stranded copper, sized to meet NFPA 70, Article 250 requirements.
PART 2 - EXECUTION
2.01 INSTALLATION
A. Install rod electrodes at locations indicated. Install additional rod electrodes as required to achieve resistance to ground of less than 25 ohms.
B. Provide grounding electrode conductor and connect to reinforcing steel in foundation footing.
C. Provide bonding to meet regulatory requirements.
D. Bond together each metallic raceway, pipe, duct and other metal objects.
E. Provide isolated grounding conductor for circuits supplying all isolated ground outlets. Insulation shall be green with yellow stripe. Size per NEC Table 250.66. This isolated grounding conductor shall run in addition to equipment grounding conductor and along with the branch circuit conductors.
2.02 GROUNDING
A. Ground electrical system in accordance with NEC Article 250 and local authorities having jurisdiction.
B. Install a #3/0 bare copper wire bond across the water meter attached to ground clamps on water line on each side of meter. Arrangements shall be made to do this work at the time the water meter is installed.
C. From the point of entrance of the water main into the building and on the meter side of the main inside water valve and union install a stranded copper cable #3/0 in 1-1/4" conduit to the main distribution panel. Connect the cable to the equipment ground bus.
D. Install a green equipment grounding conductor in each raceway, sized per NEC Table 250-122. Terminate on equipment ground/bus within panelboard serving load.
E. Install #6 awg copper grounding conductor from ground bar in main telephone box to grounded neutral bus in main distribution panel.
F. All separate grounding electrode conductors shall be bonded together to limit potential differences between them and between their associated wiring systems. This includes the power system, telephone system, etc.
2.03 FIELD QUALITY CONTROL
A. Inspect grounding and bonding system conductors and connections for tightness and proper installation.



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CHICK-FIL-A
JOHNS HOPKINS ROAD
10975 JOHNS HOPKINS RD
LAUREL, MD 20723

FSR#01999
BUILDING TYPE / SIZE: S06E
RELEASE: v04.23

Table with 3 columns: NO., DATE, DESCRIPTION

CONSULTANT PROJECT # 23108.HF.R
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DATE 08/18/2023
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SHEET ELECTRICAL SPECIFICATIONS

SHEET NUMBER

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, outlet boxes, junction boxes, cabinets, 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 bridge 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: #G5362-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 #WU-1.

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

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

PART 2 - EXECUTION

2.01 INSTALLATION

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

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

SECTION C16440  
PANELBOARDS

PART 1 - PRODUCTS

- 1.01 MANUFACTURER (via Chick-fil-A National Accounts Program)
- A. Siemens (West, Midwest, and Southwest Regions); from Suncoast Environmental Controls (SEC), Scott Dyer (877) 544-6679.

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

1.02 PANELBOARD FEATURES

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

- B. Bus bars shall be copper 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 Christianell at 800-325-0963, fax- 314-531-8720, email - dave.christianell@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 controls 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 fuses protection provided by a 30 amp, 600 volt waterproof fuseholder with Bussman 'Limitron' fuse of ampere rating 3 times the load current.

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

3.02 FIELD QUALITY CONTROL

- A. Relamp fixtures that have failed lamps at substantial completion.

SECTION C16596  
SPECIAL SYSTEMS

PART 1 - GENERAL

1.01 WORK INCLUDED

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

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

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

PART 2 - PRODUCTS

2.01 MATERIALS

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

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

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

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Furnish and install conduits, junction boxes, outlet boxes, and plates.

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

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

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

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

SECTION C16597  
TELEPHONE SERVICE

PART 1 - GENERAL

1.01 WORK INCLUDED

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

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

- C. Telephone Utility Company will provide service entrance cable.

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

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

PART 2 - PRODUCTS

2.01 MATERIALS

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

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

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

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

PART 3 - EXECUTION

3.01 INSTALLATION

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

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

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

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

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

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

CLOSE OUT DOCUMENT REQUIREMENTS

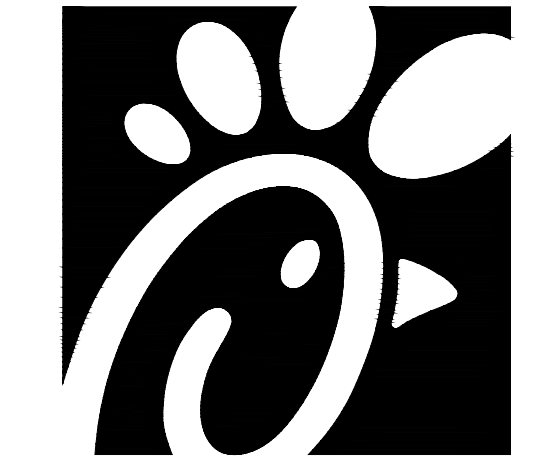
Provide the following to the building owner upon completion of construction:

- 1. Submittal data stating equipment rating and selected options for each piece of equipment requiring maintenance.

- 2. Operation manuals and maintenance manuals for each piece of equipment requiring maintenance. Required routine maintenance actions shall be clearly identified.

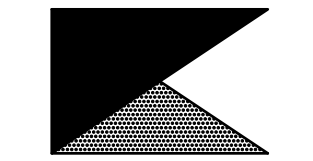
- 3. Names and addresses of at least one qualified service agency.

- 4. A complete narrative of how each system is intended to operate.



Chick-fil-A

Chick-fil-A  
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CHICK-FIL-A  
JOHNS HOPKINS ROAD  
10975 JOHNS HOPKINS RD  
LAUREL, MD 20723

FSR#01999

BUILDING TYPE / SIZE: S06E  
RELEASE: v04.23

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #	23108.HF.R
PRINTED FOR	CONSTRUCTION
DATE	08/18/2023
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SHEET  
ELECTRICAL  
SPECIFICATIONS  
SHEET NUMBER

E4.2