

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 OFA 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.

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.

KEY NOTES

- 1 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.
- 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 DEMOLISH EXISTING FLOOR FIXTURE OR ABOVE SLAB FIXTURE, IF NECESSARY, PREPARE LINES FOR CONNECTION OF NEW FIXTURE OR EXTENSION. REFER TO P.I.I. COORDINATE WORK WITH G.C. IF FLOOR DRAIN IS DEMOLISHED, IF EXISTING, CAP WATER LINE FROM TRAP PRIMER.
- 5 EXISTING GREASE TRAP TO REMAIN.
- 6 DEMOLISH EXISTING RESTROOM FIXTURE. CAP WASTE CONNECTION BELOW SLAB, WHERE APPLICABLE, CAP EXISTING VENT/CW/H-W CONNECTIONS BACK TO RESPECTIVE MAINS FOR FUTURE CONNECTION.
- 7 EXISTING WATER LINES IN WALL AND BELOW SLAB ARE TO REMAIN.
- 8 CAP AND ABANDON BELOW SLAB WATER LINE.

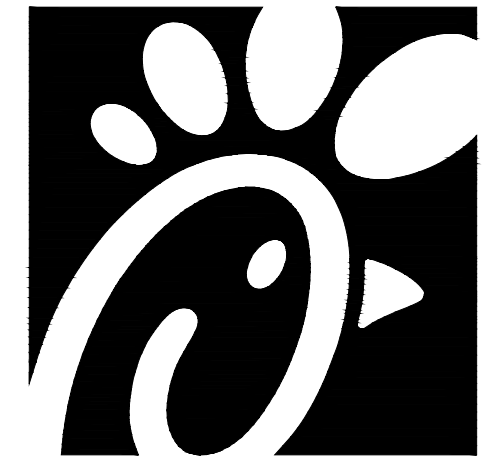
PRIOR TO CONSTRUCTION, PLUMBING CONTRACTOR SHALL COORDINATE EXISTING LOCATIONS OF EXISTING WATER LINES (BUILDING SUPPLY, DUMPSTER PAD, FIRE SPRINKLER, ETC.) IF DEEMED NECESSARY, REROUTE NEW LINES, SIZED SAME AS EXISTING FROM BUILDING IN ORDER TO AVOID ANY CONFLICT WITH NEW BUILDING ADDITION. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY PIPING & TRENCHING REQUIRED.

SITE PIPING DEMO NOTES

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

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 LINE(S) IN WALL TO BE DEMOD	o



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FSR#02111

BUILDING TYPE / SIZE: S06C
 RELEASE: V04.23

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 23145.HF.R
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 SHEET
 BELOW SLAB
 DEMO PLAN
 SHEET NUMBER

P0.1



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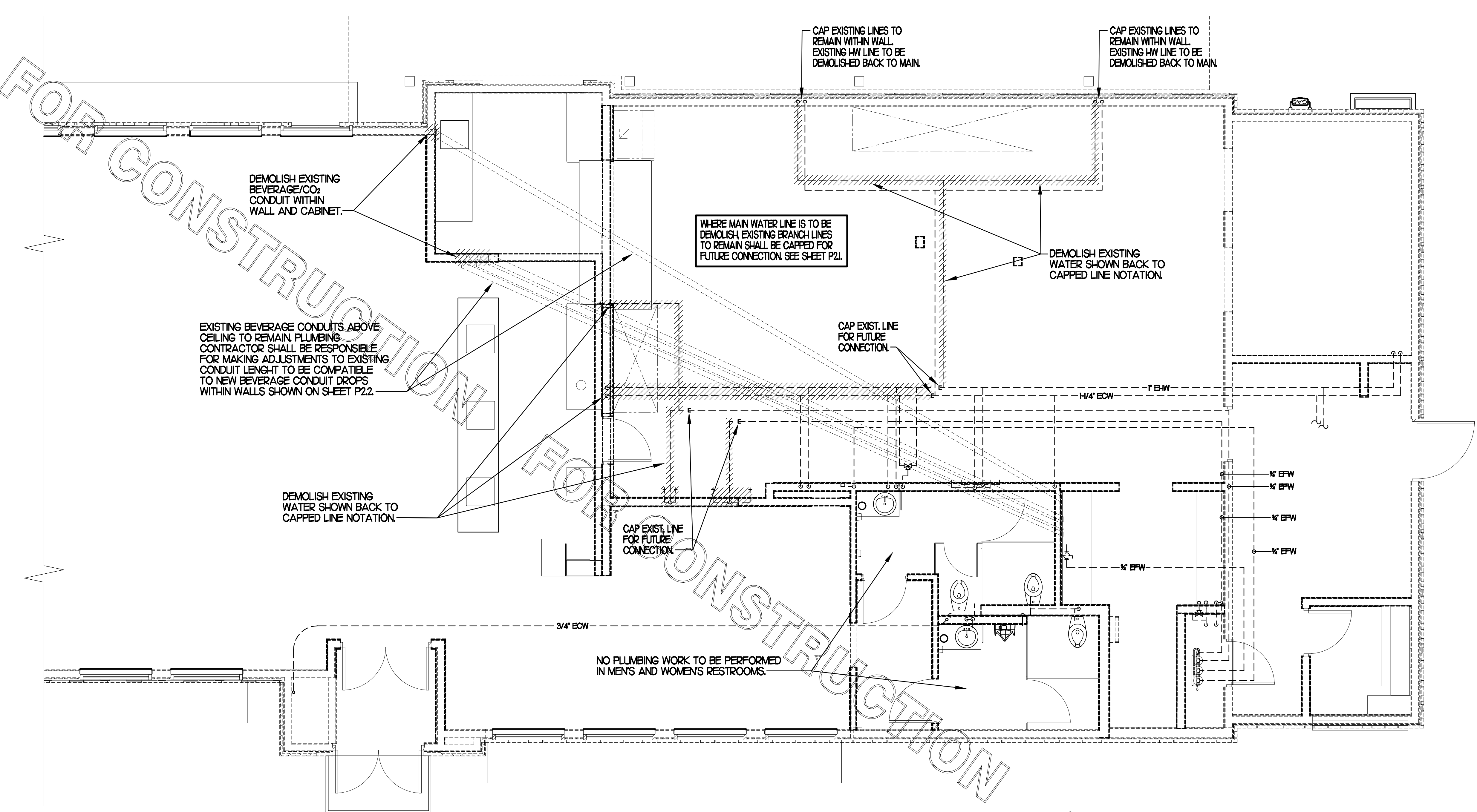
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SHEET
ABOVE SLAB
DEMO PLAN
SHEET NUMBER

P0.2



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

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

PIPING LEGEND	
EXISTING GREASE WASTE (EGW)	--- EGW ---
EXISTING SANITARY SEWER (ESS)	--- ESS ---
EXISTING FIRE PROTECTION LINE (F)	--- 4" F ---
EXISTING COLD WATER UNDER GROUND (ECW)	--- ECW ---
EXISTING TEMPERED WATER UNDER GROUND (ETW)	--- ETW ---
EXISTING HOT WATER UNDER GROUND (E-W)	--- E-W ---
EXISTING LINE/FIXTURE TO BE DEMOLISHED	//////
EXISTING WATER LINE(S) IN WALL TO BE DEMOD	oo

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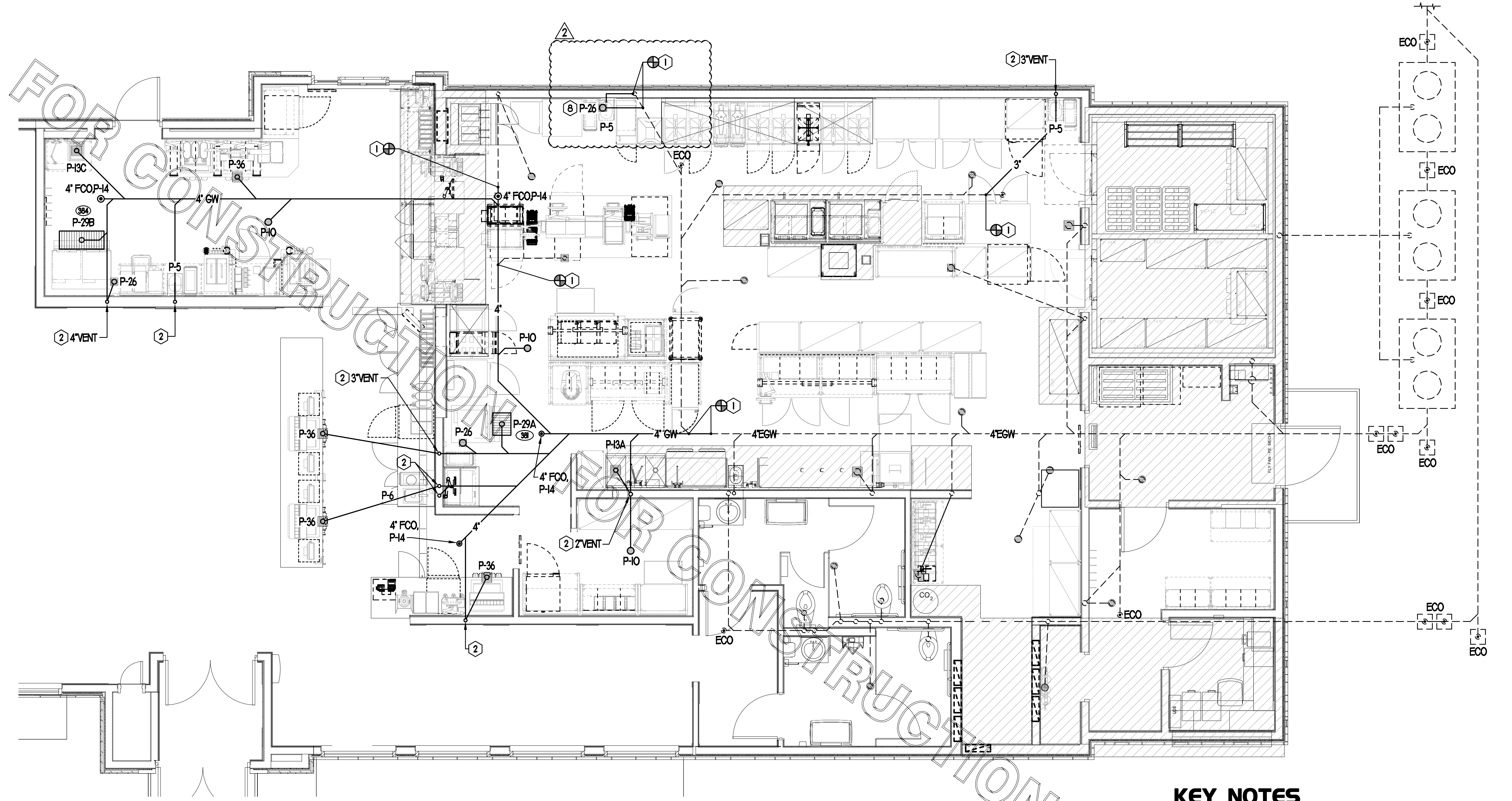
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SHEET BELOW SLAB PLUMBING PLAN

SHEET NUMBER

P1.1



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

SITE PIPING NOTES

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

SHEET NOTES

- COORDINATE INSTALLATION OF SANITARY PIPING WITH FOOTINGS IN THE FIELD. SLEEVE ALL NEW AND EXISTING PIPING PENETRATIONS IN FOOTINGS WITH PVC.
- WHERE REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION, PROVIDE SAFE-WASTE SYSTEM AS OUTLINED IN STATE AND LOCAL CODE AMENDMENTS.
- ALL WATER PIPING INSTALLED WITHIN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF THE INSULATION.
- ALL VENT PIPING TO BE 1/2" DIAMETER UNO.

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 FHW/FW)	--- 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
P-37	FLOOR DRAIN	1/2" BFF

NOTE: THE RIM ELEVATIONS SHOWN HERE SHOULD MATCH THE DEPRESSED SLAB. CONFIRM WITH ARCHITECTURAL PLANS. SEE ARCHITECTURAL PLANS FOR FLOOR SLOPE AT SLAB DEPRESSION FOR FIXTURES INSTALLED BELOW FINISHED FLOOR ELEVATION. FLOOR FIXTURES NOT LISTED HERE SHALL BE INSTALLED FLAT AND FLUSH WITH FINISHED FLOOR ELEVATION.

PLUMBING CONTRACTOR SHALL VERIFY LOCATION, INVERT ELEVATION AND FLOW DIRECTION OF EXISTING LINES 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

- 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.
- 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.
- 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" SCHED 40 PVC INDIRECT WASTE DRAIN FROM EACH SINK BASIN TO FLOOR SINK. NO P-TRAPS REQUIRED.
- OWNER PROVIDED, PLUMBER INSTALLED STOP/BFF PANEL. SEE K-SHEET ELEVATIONS FOR EXACT LOCATION. ROUTE 1/2" SCHED 40 PVC BFF DRAIN TIGHT TO WALL AND THROUGH AT 12" ABOVE GRATE AT MOP SINK DRAIN.
- ROUTE DRAIN LINE FULL SIZE TO FLOOR SINK LOCATED BELOW POT SINK AND TERMINATE WITH CODE APPROVED AIR GAP.
- PROVIDE WITH TRAP SEAL PROTECTOR, P-26A.
- 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.
- PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING MAN-HOLE COVERS WITH NEW SIDEWALK. COORDINATE ALL SITE WORK WITH GENERAL CONTRACTOR AND CIVIL ENGINEER DOCUMENTS.
- NEW 3" DIAMETER VENT PIPING UNDER GROUND AND RISER IN WALL. INSTALL WALL CLEANOUT W/ CLEANOUT PLUG CHARLOTTE PIPE NO. 445-X ON RISER AT 3'-0" ABOVE GRADE TO CENTER OF PLUG. INSTALL 1/2" SMITH 4760-12X12 ACCESS DOOR.
- TRANSITION OUTLET OF DRAIN FROM 4" DIA. TO 3" DIA. DRAIN LINE AND TRAP.

P-11 MOUNTED 24" AFG. ORDER HYDRANT. EXTEND SUPPLY TUBE AND OPERATING ROD ASSEMBLY INTO INTERIOR WALL. INSTALL PIPE DROP AND VALVE ON INTERIOR SIDE OF WALL INSULATION.

STUB-OUT TO BE MOUNTED 18"-36" AFF. TYPICAL. REFER TO DETAIL 2/P22 FOR MORE INFORMATION.

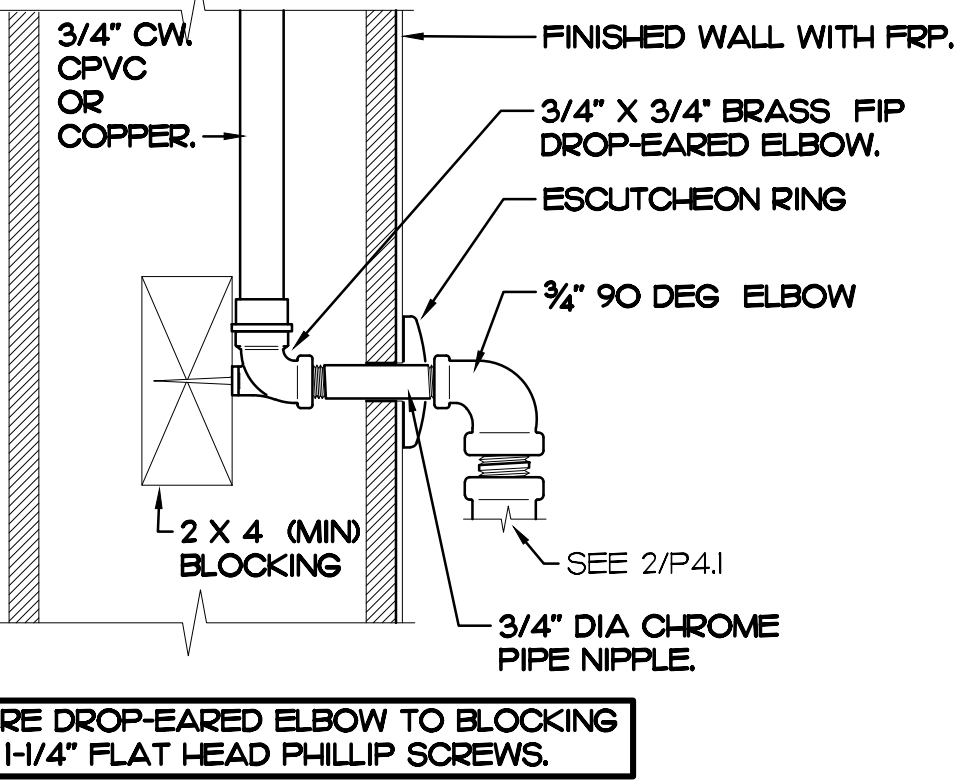
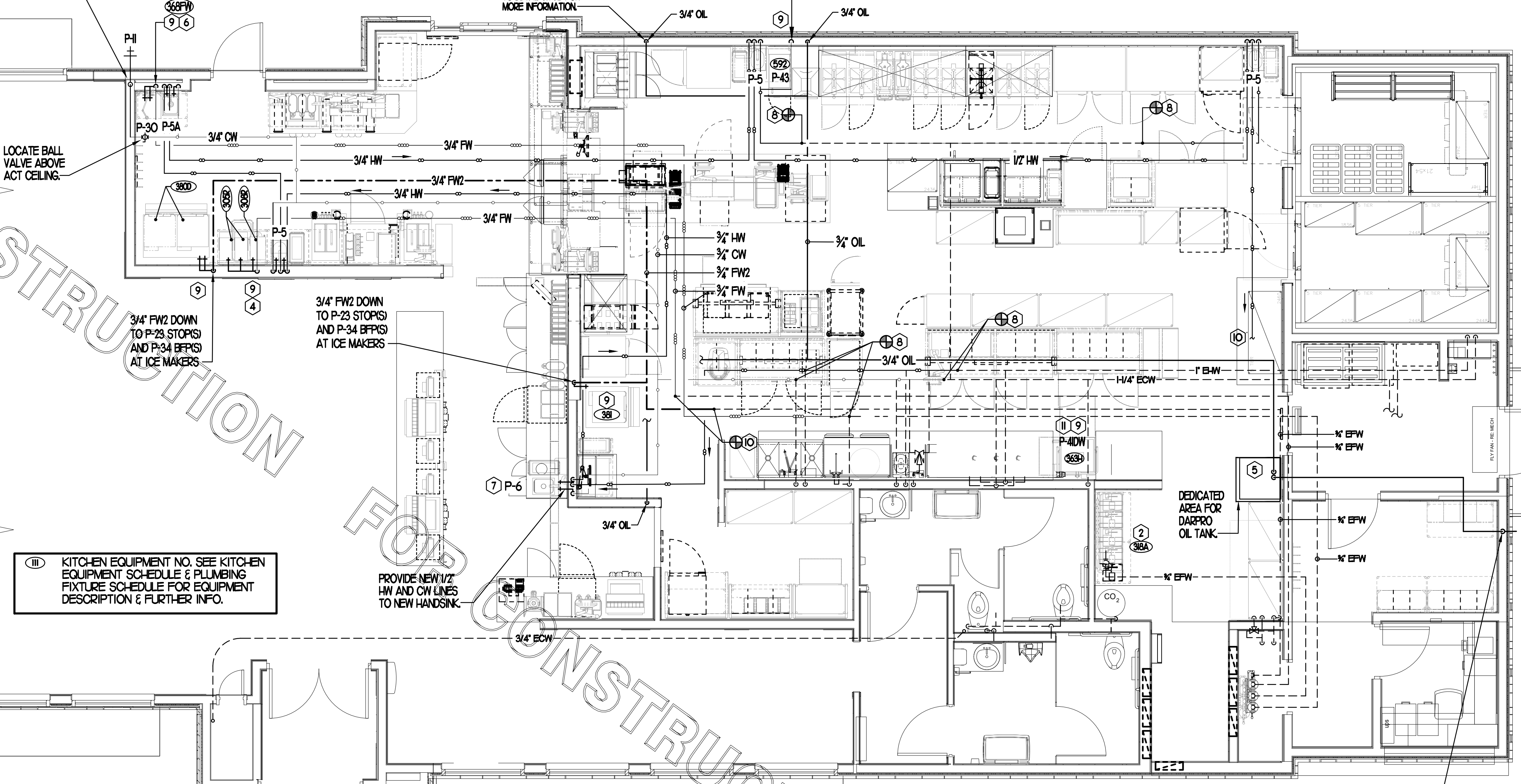
ROUTE 1/2" CW LINE DOWN IN WALL. SEE DETAIL 1/P41. SEE KITCHEN DRAWINGS FOR ROUGH-IN INFORMATION.

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 FILTERED WATER	---	FW
NEW FW2 TO COFFEE/TEA BREWERS	---	FW2
BEVERAGE CONDUIT	---	

SHEET NOTES

- COORDINATE VENT TERMINAL LOCATIONS WITH FRESH AIR HOODS ON ROOFTOP EQUIPMENT SO AS TO MAINTAIN MINIMUM 15'-0" CLEARANCE.
- HOLD ALL PIPING ABOVE THE CEILING TIGHT TO STRUCTURE. DUCT LOCATIONS TAKE PRIORITY. SEE DRAWING M/J FOR DUCT LAYOUT. COORDINATE CONFLICTS WITH GC.
- SEE K-SHEET ELEVATIONS FOR KITCHEN EQUIPMENT WATER PIPING ROUGH-IN LOCATIONS.
- VERIFY WALL TYPE AND WALL THICKNESS AT EXTERIOR HOSE BIBBS PRIOR TO ORDERING EQUIPMENT.
- COORDINATE ABOVE-CEILING PIPING LOCATIONS AND ROUTING WITH HVAC CONTRACTOR AND M-SHEETS PRIOR TO INSTALLATION. ALL MAIN DUCT TRUNK LOCATIONS SHALL TAKE PRIORITY. PIPING MAY REQUIRE REMOVAL AND REINSTALLATION AT PLUMBER 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.



III KITCHEN EQUIPMENT NO. SEE KITCHEN EQUIPMENT SCHEDULE & PLUMBING FIXTURE SCHEDULE FOR EQUIPMENT DESCRIPTION & FURTHER INFO.

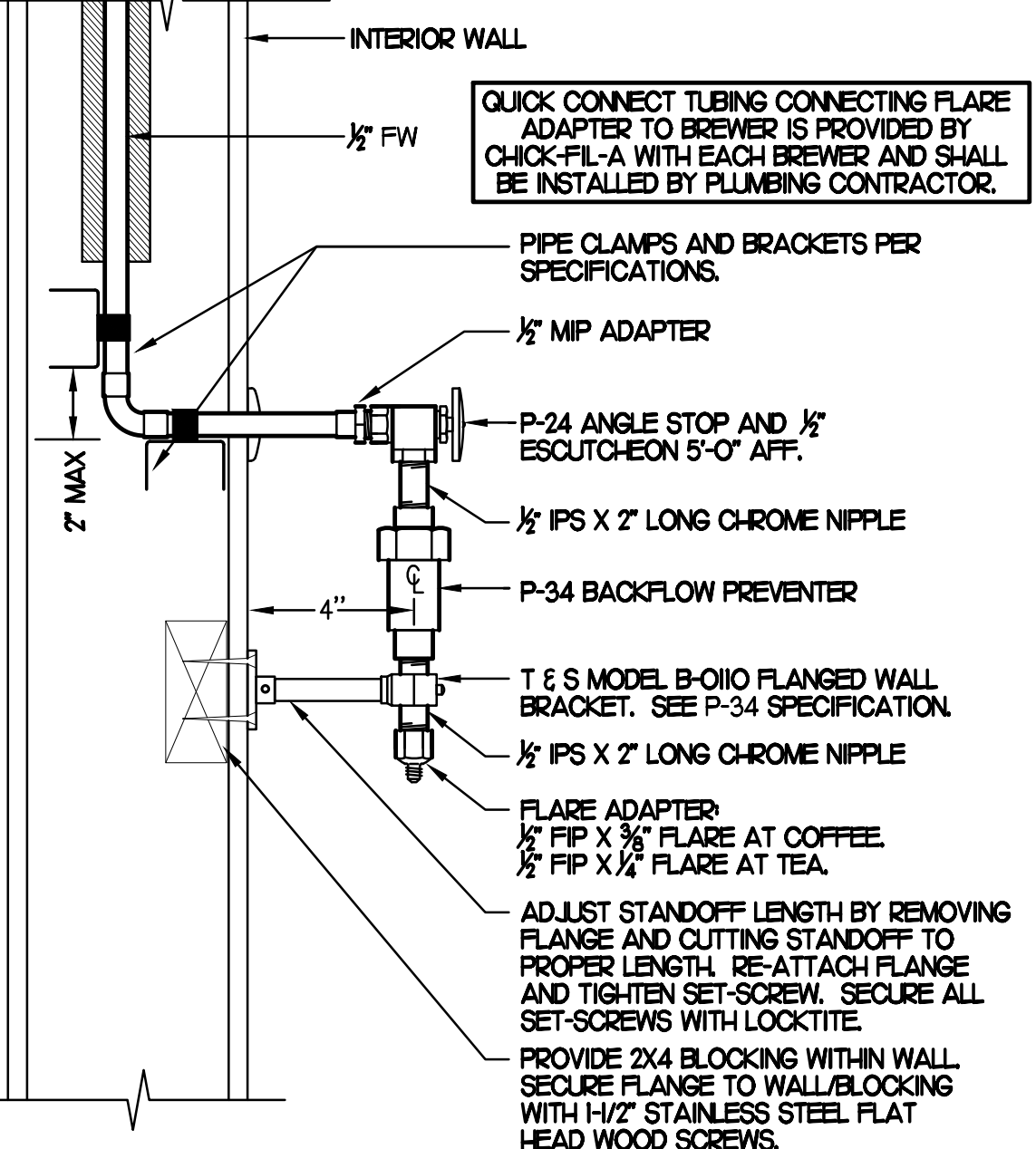
PROVIDE NEW 1/2" HW AND CW LINES TO NEW HANDSINK.

2A SECTION AT PIPING WITHIN WALL

SCALE: NONE

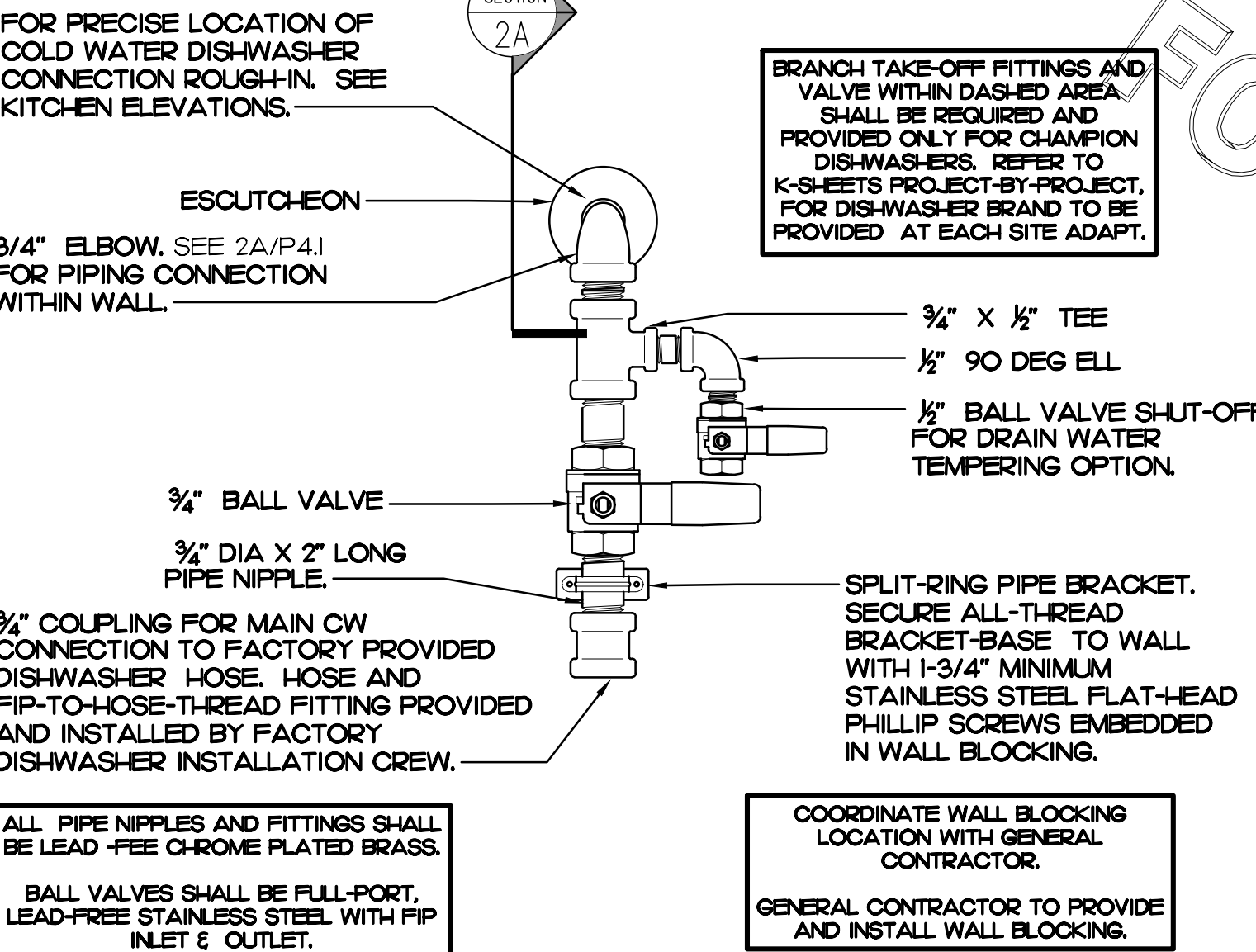
I ABOVE SLAB PLUMBING PLAN

1/4"=1'-0"



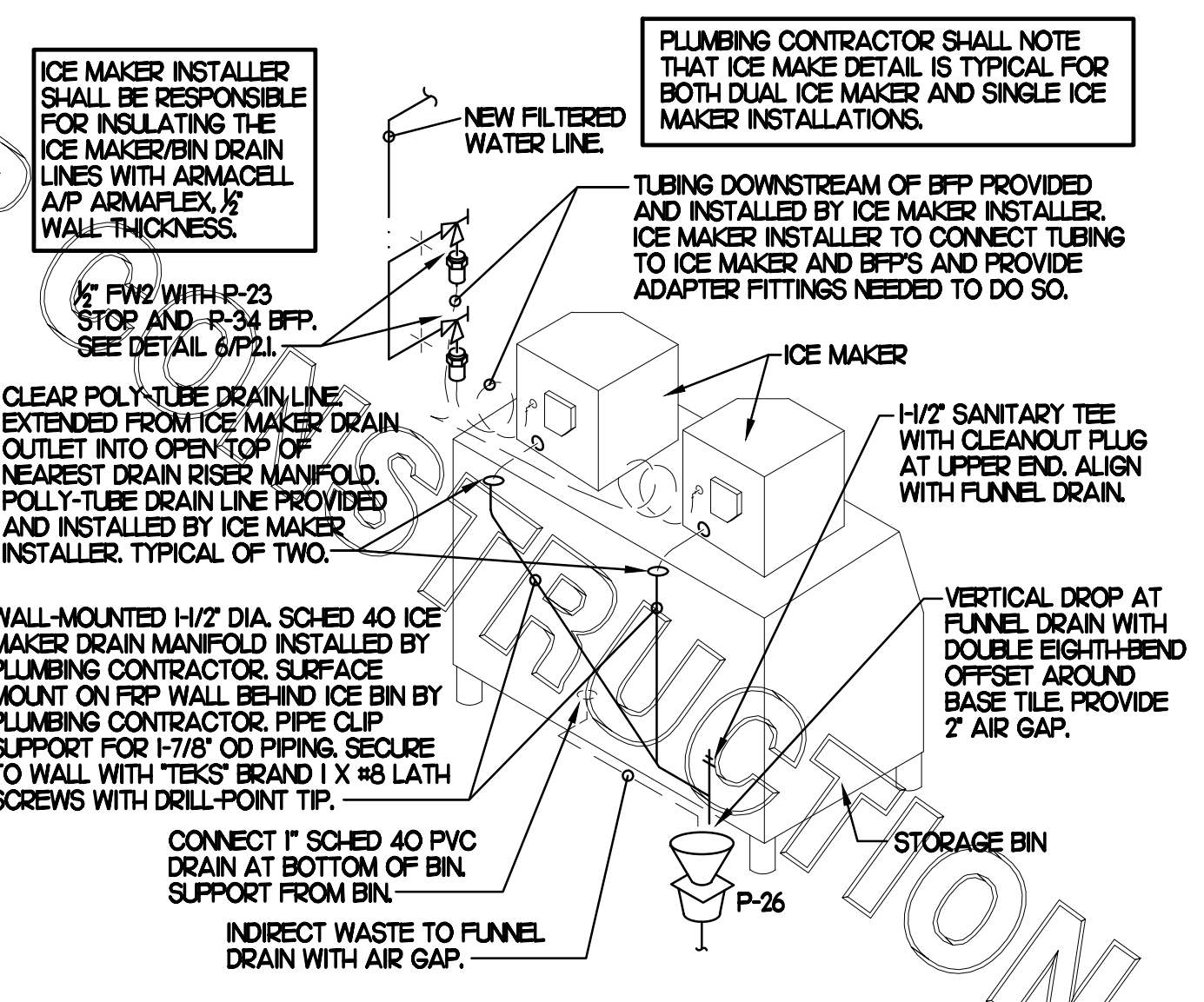
KEY NOTES

- 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" PVC FROM FACTORY PANEL DRAIN CONNECTION TO P-12 FUNNEL DRAIN LOCATED BELOW BEVERAGE RACK.
- FW & FW2 LINES FROM WATER FILTRATION SYSTEM. REFER TO DETAIL ON P22:
 - 3/4" FW TO CARBONATOR
 - 3/4" FW TO JUICE STATION
 - 3/4" FW TO COFFEE & TEA MAKERS
 - 3/4" FW2 TO ICE MACHINES
- 1/2" FW TO P-24 & P-34 AT TWO (2) TEA BREWERS AND ONE COFFEE MAKER. SEE DETAIL THIS SHEET.
- TURN 3/4" AND 2" SCHEDULE 40 STEEL PIPE DOWN THROUGH CEILING FOR FUTURE DARPRO OIL TANK AND CAP ACCORDINGLY. PROVIDE CHROMED ESCUTCHEONS AT CEILING PENETRATIONS. 1" OIL LINE TO BE CAPPED 2' BELOW CEILING. PROVIDE 3/4" DIAMETER, SCHEDULE 40 (BLACK OR GALVANIZED) STEEL PIPING BACK TO FUTURE DARPRO OIL TANK. PIPING TO BE ROUTED TO ALLOW AS MUCH FALL AS POSSIBLE TO THE TANK.
- 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.
- MAKE CONNECTION TO EXISTING WATER LINE ABOVE CEILING/WITHIN WALL.
- INSTALL SHOCK ABSORBER (P-25) AT TOP OF WATER LINE DROP DOWN TO FIXTURE.
- 1/2" HOT WATER RETURN LINE. MAKE CONNECTION TO CW INLET SIDE OF WATER HEATER.
- 3/4" CW DOWN TO DISHWASHER. SEE K-SHEETS FOR ELEVATION AND ROUGH-IN HEIGHT.



2 DISHWASHER WATER SUPPLY VALVE ASSEMBLY

SCALE: NONE



3 ICE MACHINE PIPING

SCALE: NONE



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NO. DATE DESCRIPTION

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SHEET ABOVE SLAB PLUMBING PLAN

SHEET NUMBER

P2.1

CONSTRUCTION



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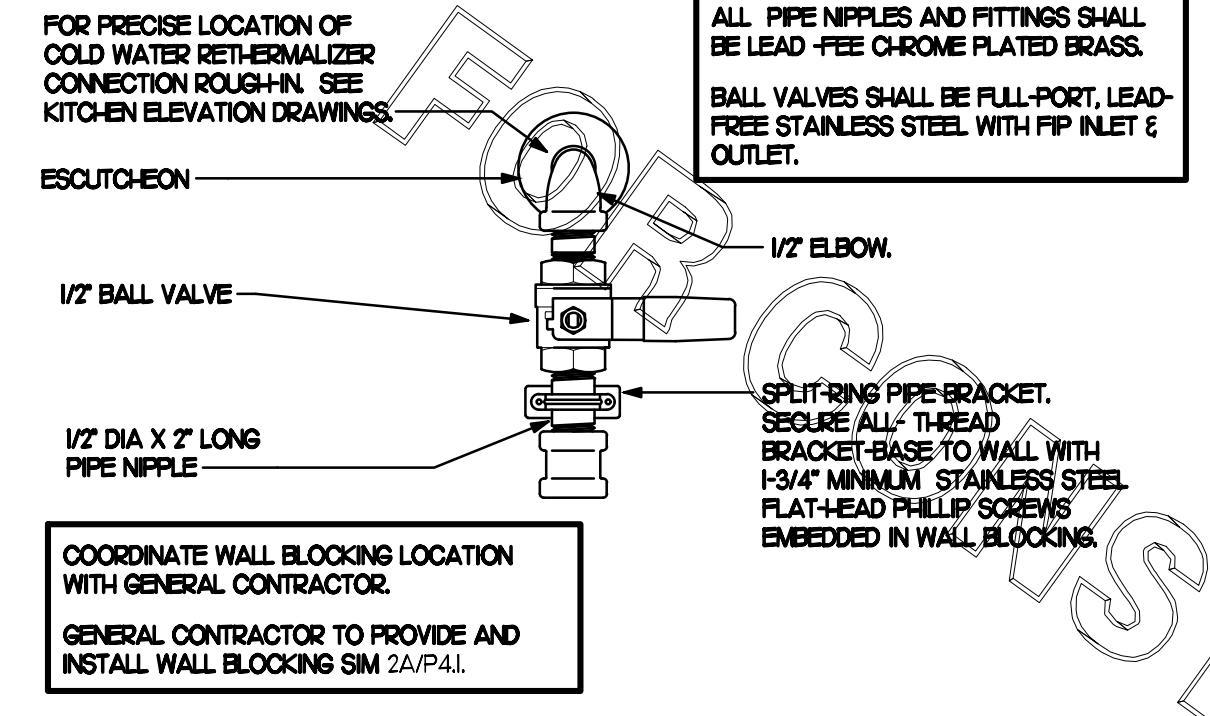
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SHEET BEVERAGE CONDUIT PLAN

SHEET NUMBER

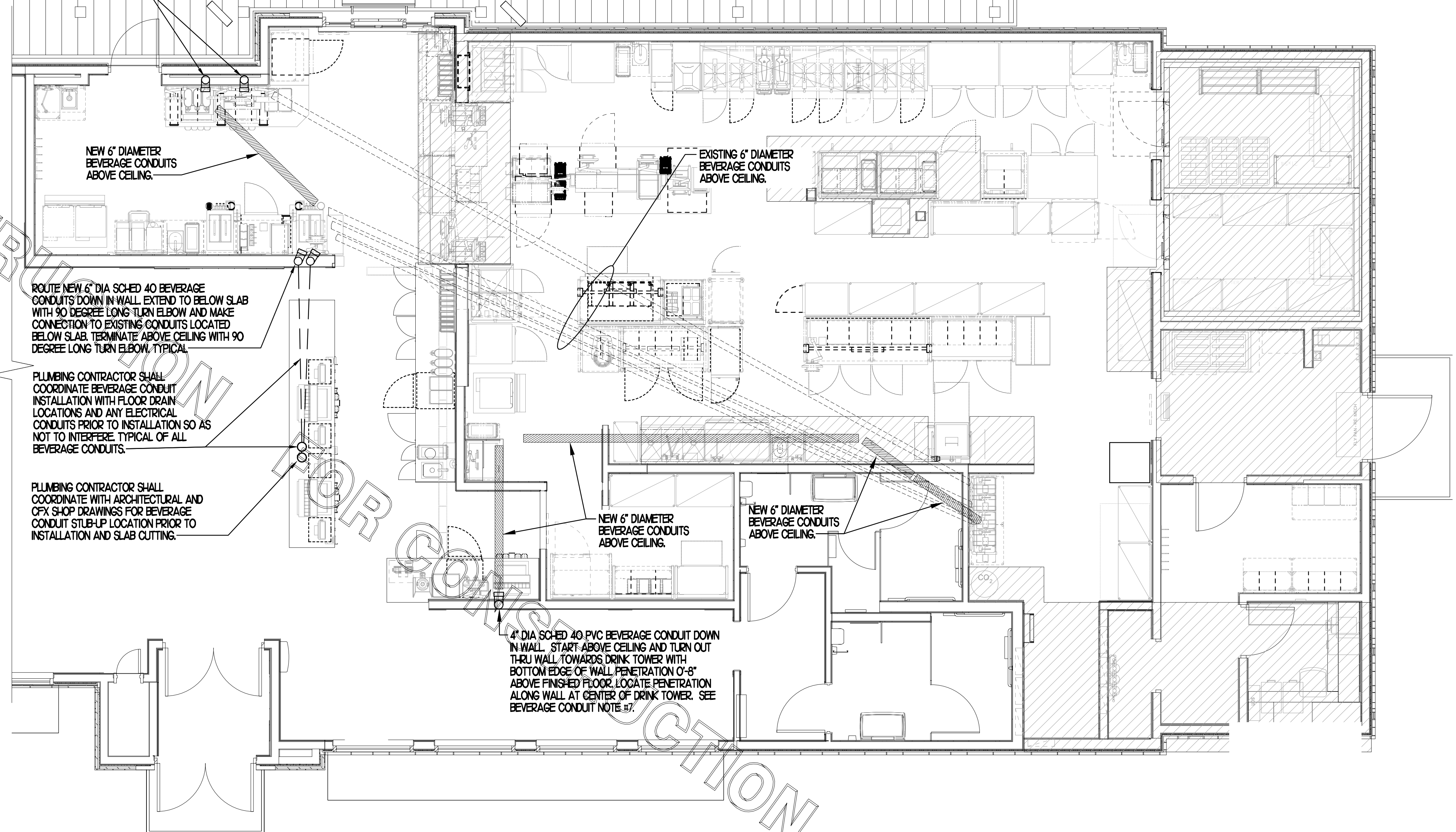
4" DIA SCHED 40 PVC BEVERAGE CONDUIT DOWN IN WALL. START ABOVE CEILING AND TURN OUT THRU WALL TOWARDS DRIVE-THRU DRINK TOWER WITH BOTTOM EDGE OF WALL PENETRATION 0'-8" ABOVE FINISHED FLOOR. LOCATE PENETRATION ALONG WALL AT CENTER OF DRINK TOWER. SEE BEVERAGE CONDUIT NOTE #7.



3 RETHERMALIZER WATER SUPPLY VALVE
 SCALE: NONE

BEVERAGE CONDUIT NOTES

- REUSE EXISTING BEVERAGE CONDUITS OR THEIR PORTIONS WHERE INDICATED ON DRAWINGS. ROUTE BEVERAGE SYSTEM PIPING OVERHEAD 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 OVERHEAD 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-H FOR LOCATION OF AC UNITS AND DUCT ROUTING.
- TURN CONDUITS DOWN THROUGH THE CEILING AT THE BEVERAGE RACK, AND PROVIDE CHROMED ESCUTCHEONS AT CEILING PENETRATIONS. TERMINATE OPPOSITE END ABOVE CEILING OVER SERVING AREA OR TURN DOWN TO WALLS, AS PER PLANS.
- INSTALL CONTINUOUS CONDUIT FROM CO2 FILL-BOX LOCATION TO BULK CO2 TANK AS SHOWN ON PLANS AND DETAILS. COORDINATE 4" CONDUIT WALL STUB INSTALLATION CLOSELY WITH GENERAL CONTRACTOR AND BRICK MASON PRIOR TO COVERING UP OF CONDUIT. VERIFY WITH GENERAL CONTRACTOR THE FULL LENGTH OF FILL/VENT TUBING MAY BE INSTALLED AND SUBSEQUENTLY REMOVED FROM CONDUIT. SEE PLAN AND DETAIL #6 THIS SHEET.
- ROUTE 2" DIA BULK CO2 CONDUIT ABOVE CEILING. PROVIDE CHROME ESCUTCHEON AT WALL WITH 45 DEGREE ELBOW TIGHT TO ESCUTCHEON AND DIRECTED DOWNWARD. TERMINATE INTERIOR END OF CONDUIT 1'-0" ABOVE KITCHEN CEILING WITH 90 DEGREE ELBOW DIRECTED TOWARD CARBONATORS. EXTEND 2" DIA CONDUIT FROM WITHIN 1'-0" OF ELBOW TOWARD CARBONATORS. TERMINATE OPPOSITE END ABOVE CEILING ABOVE CARBONATORS.
- AT CONDUIT DROP IN DRIVE-THRU, PROVIDE 1/8TH BEND FITTING WITH SHORT PIPE STUB AT BASE OF DROP. CUT STUB AND FITTINGS FLUSH WITH FINISHED WALL.
- FOR BEVERAGE CONDUIT DROPS AT WALL WITH SHEATHING ABOVE THE CEILING, PROVIDE APPROPRIATE FITTING AT UPPER END OF CONDUIT DROP TO EXTEND CONDUIT THROUGH SHEATHING.



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

FIXTURE CONNECTION SCHEDULE

MARK	FIXTURE	FW	FW2	CW	HW	WASTE
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-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-13B	FLOOR SINK (3") 8" TOP	X	X	X	X	3"
P-13C	FLOOR SINK (3")	X	X	X	X	3"
P-14	CLEANOUT INSIDE BUILDING	X	X	X	X	SEE PLAN
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-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-33	TRAP PRIMER (MECHANICAL TYPE)	X	X	1/2"	X	X
P-34	DISPENSER BACKFLOW PREVENTER	1/2"	X	X	X	X
P-36	BEVERAGE TOWER INDIRECT RECEIVER	X	X	X	X	3"
P-41DW	DISHWASHER SUPPLY FAUCET	X	X	3/4"	X	X

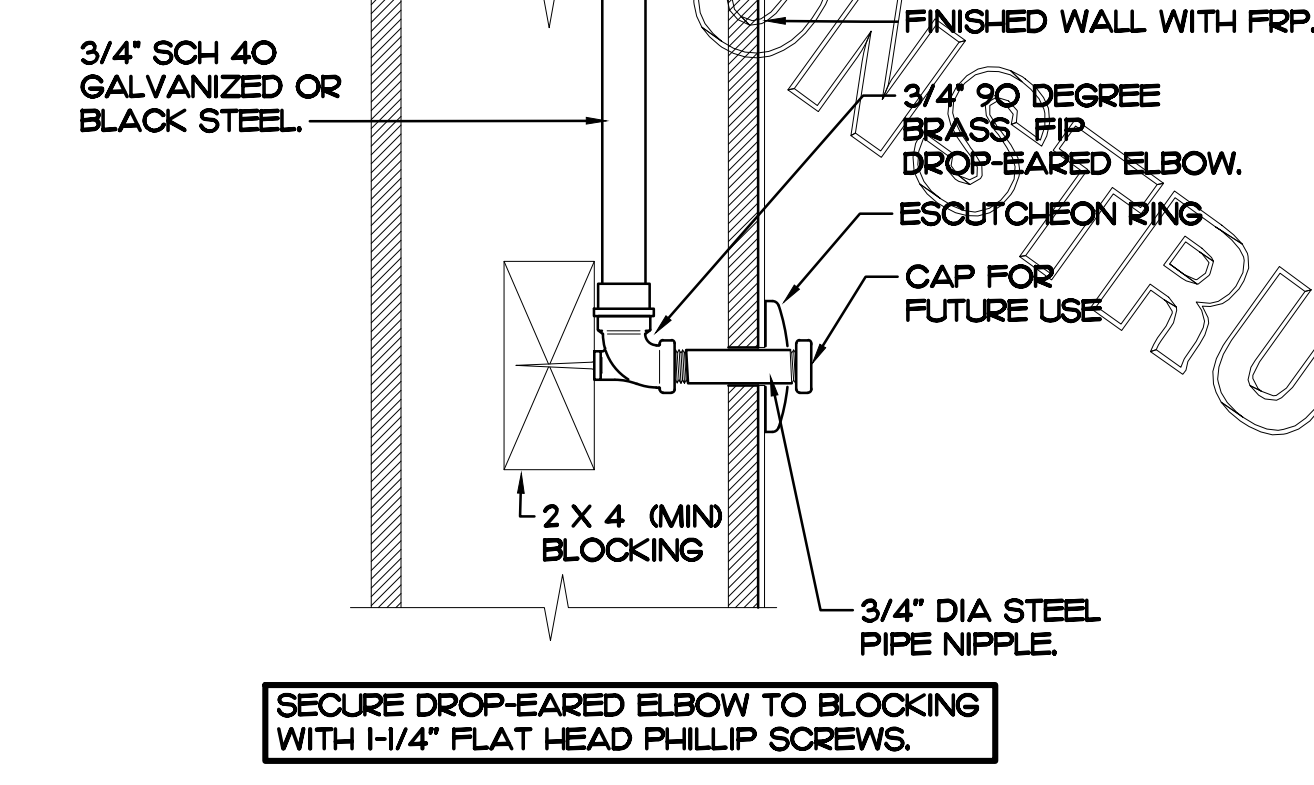
NOTES: ① REFER TO FOOD SERVICE DRAWINGS FOR KITCHEN EQUIPMENT INSTALLATION AND HOOK-UP RESPONSIBILITIES.

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

KITCHEN EQUIPMENT SCHEDULE

TAG	DESCRIPTION	FW	FW2	CW	HW	WASTE	ROUGH-IN
(302)	TEA BREWER	1/2"	X	X	X	X	P-24
(308)	COFFEE MAKER	1/2"	X	X	X	X	P-24
(331)	DISH-WASHER	X	X	3/4"	X	INDIRECT	SEE K-41
(36)	POT SINK	X	X	(2) 1/2"	(2) 1/2"	INDIRECT	TWO #365F FAUCETS, P-9
(387)	KITCHEN WALL FAUCET	(2) 1/2"	X	X	X	X	P-30 48" AFF.
(380) (380)	ICE MAKER	X	1/2"	X	X	INDIRECT	P-23, SEE DET3/P41
(38)	ICE BIN	X	X	X	X	INDIRECT	P-26 DRAIN
(384)	ICE BIN	X	X	X	X	INDIRECT	P-26 DRAIN
(392)	RE-THERMALIZER	X	X	1/2"	X	INDIRECT	SEE KITCHEN DWGS

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



2 DARPRO OIL PIPING SECTION WITHIN WALL
 SCALE: NONE

CONSTRUCTION

I. SECTION CIS100 - PLUMBING SPECIFICATIONS

PART I - PRODUCTS (C15100)

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

1.02 SCOPE

- A. HOT AND COLD POTABLE WATER PIPING ABOVE SLAB SHALL BE TYPE 'L' HARD DRAWN COPPER OR FLOWGUARD GOLD CPVC AS MANUFACTURED BY NIBCO OR CHARLOTTE PIPE & FOUNDRY AND MEETING ASTM D-2846. FILTERED WATER PIPING SHALL BE FLOWGUARD GOLD CPVC. HOT AND COLD PIPING WITHIN WALLS BEHIND KITCHEN HOODS SHALL BE COPPER.
- B. POTABLE WATER PIPING BELOW SLAB AND OUTSIDE BELOW GRADE SHALL BE TYPE 'K' SOFT ANNEALED SEAMLESS. NO JOINTS SHALL BE ALLOWED BELOW SLAB. POTABLE WATER PIPING BELOW GRADE SHALL BE SLEEVED FOR ITS ENTIRE LENGTH WITH POLY SLEEVE AS MADE BY IPS WATER-TITE. ALL SLAB PENETRATIONS SHALL BE SLEEVED WITH POLY SLEEVE TO PROTECT PIPING FROM CORROSION BY CONCRETE.
- C. COPPER PIPE FITTINGS SHALL BE WROUGHT COPPER SWEET PATTERN FITTINGS SOLDERED USING 95-5 LEAD-FREE SOLDER MEETING ASTM B-32 OR BRAZED WITH SIL-FOS. SOLDER FLUXES SHALL MEET ASTM B-813 AND SHALL BE LEAD FREE. BRAZING FLUXES SHALL MEET AWS B3-A OR F68-C.
- D. WATER PIPING DOWNSTREAM OF SOFT DRINK CARBONATORS SHALL BE PROVIDED AND INSTALLED BY LOCAL SOFT DRINK VENDOR.
- E. CPVC FITTINGS FOR PIPING SHALL BE SOLVENT WELD TYPE MEETING ASTM D-2846 WITH CEMENTS MEETING ASTM F-493 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. FOR CPVC PIPING INSTALLATION, WALL STUBS AT FIXTURES AND EQUIPMENT SHALL BE COPPER AND SHALL BE SCHEDULE 630-C. CPVC TO COPPER STUB OUT ELBOWS BY SIOUX CHIEF.
- F. NIPPLES, ELBOWS, AND OTHER ACCESSORY FITTINGS REQUIRED TO COMPLETE ANY WATER PIPING CONNECTION SHALL BE BRASS OR OF SIMILAR TYPE METAL AS THE FITTING TO WHICH IT IS CONNECTED. GALVANIZED FITTINGS ARE PROHIBITED. (EXCEPTION: GALVANIZED HEAT TRAP WATER HEATER NIPPLES IF INTERNALLY PROTECTED WITH TEFLON OR POLYMER CORROSION-RESISTANT COATING.)
- G. ALL HVAC CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC DWV AS MANUFACTURED BY CHARLOTTE PIPE AND MEETING ASTM D-1784, D-1785 AND D-2865.
- H. U.N.O. ALL SANITARY WASTE, VENT, STORM DRAINAGE PIPING AND FITTINGS INSIDE THE BUILDING, ABOVE AND BELOW GRADE, AND FOR ROOFTOP CONDENSATE, SHALL BE SOLID WALL SCHEDULE 40 PVC DWV AS MANUFACTURED BY CHARLOTTE PIPE AND MEETING ASTM D-2865 AND D-2849. 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-2865, D-3311 AND F-186. CEMENTS SHALL MEET ASTM D-2864 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. EXTERIOR PIPING JOINTS SHALL BE NEOPRENE PUSH-ON TYPE.
- K. PROVIDE 1" THICK PIPE INSULATION FOR ALL ABOVE SLAB HOT AND TEMPERED WATER PIPING. PROVIDE 1/2" THICK INSULATION FOR ALL ABOVE SLAB COLD WATER, FILTERED WATER, CONDENSATE PIPING, AND HORIZONTAL RAIN WATER CONDUCTORS INSIDE THE BUILDING. PIPING INSULATION SHALL BE KNAUF 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 ARMACELL AP ARMAFLEX WITH MINIMUM 1/2" 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 SCALED 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".

- Q. FILL-UP TO THE TOPSOIL LAYER MAY BE GRAVEL OR ROCK FREE EARTH.
- R. 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.
- S. SURFACE SHALL BE RESTORED TO ITS ORIGINAL CONDITION.

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

- 2.02 INSTALLATION (C15100)
 - A. WATER PIPING IN EXTERIOR WALL SHALL BE INSTALLED ON THE HEATED SIDE OF WALL INSULATION.
 - B. EXPOSED HOT AND COLD WATER TRIM FITTINGS AND ACCESSORIES IN FINISHED AREAS SHALL BE CHROME FINISHED.
 - C. ACCEPTABLE METHODS OF PIPE SUPPORT WITHIN WALLS SHALL BE THE SUMNER SYSTEM, POSIFIX, STAKFIX, PIPEFIX, HOLDRITE OR CHANNEL.
 - D. PROVIDE J.R. SMITH OR APPROVED EQUAL SHOCK ABSORBERS #5005 THRU 5050 SIZE AS RECOMMENDED BY MANUFACTURER INSTALLED ON HOT AND COLD WATER BRANCH LINES CONTAINING SINGLE LEVER FAUCETS, FLUSH VALVES OR EQUIPMENT WITH QUICK CLOSING VALVES BETWEEN THE LAST TWO FIXTURES AS SHOWN ON THE CONTRACT DRAWINGS. SHOCK ABSORBERS SERVICING FIXTURES WITH FLUSH VALVES SHALL BE SECURELY ANCHORED IN THEIR VERTICAL POSITION.
 - E. SANITARY WASTE LINES SHALL BE UNIFORMLY GRADED TO ELEVATIONS SHOWN. IF NO ELEVATIONS ARE GIVEN, SEWERS SHALL BE PITCHED NOT LESS THAN 1/4" PER FOOT FOR ALL PIPING 2-1/2" IN DIAMETER AND SMALLER AND 1/8" PER FOOT FOR ALL PIPING 3" IN DIAMETER AND LARGER.
 - F. STORM PIPING SHALL BE SLOPED AT 1/4" PER FT (2%) UNLESS NOTED OTHERWISE ON PLANS.
 - G. SUPPORT HORIZONTAL PIPING ACCORDING TO LOCAL PLUMBING CODE. HANGER RODS SHALL BE SIZED AS FOLLOWS:

NOMINAL PIPE SIZE (IN)	MINIMUM HANGER DIAMETER (IN)
1/2	3/8
3/4 TO 1-1/2	3/8
2 TO 2-1/2	3/8
3 TO 6	1/2
 - H. HANGERS FOR PIPING GREATER THAN 1" SHALL PASS OVER THE INSULATION. PROVIDE SADDLES FOR INSULATED PIPING.
 - I. INSULATION SHALL BE APPLIED WITH JOINTS TIGHTLY BUTTED. OPEN CRACKS, VOIDS AND DEPRESSIONS SHALL BE FILLED WITH HYDRAULIC SETTING CEMENT, LAPPING MATCHING THE FINISH SHALL BE PASTED NEATLY OVER JOINTS. FITTINGS AND VALVES SHALL BE INSULATED WITH THE SAME TYPE.
 - J. PROVIDE AND INSTALL A CUT-OFF VALVE, UNION AND FULL SIZE QIRT LEG AT CONNECTION TO EACH GAS-FIRED PIECE OF EQUIPMENT. INSTALL PIPING AT AND AROUND EQUIPMENT SO AS TO NO WAY OBSTRUCT EQUIPMENT ACCESS PANELS AND/OR ACCESS DOORS.
 - K. COORDINATE ABOVE-CEILING PIPING LOCATIONS AND ROUTING WITH HVAC CONTRACTOR AND M-SHEETS PRIOR TO INSTALLATION. ALL MAIN DUCT TRUNK LOCATIONS SHALL TAKE PRIORITY. PIPING MAY REQUIRE REMOVAL AND REINSTALLATION AT PLUMBING CONTRACTOR'S EXPENSE IF PIPING OBSTRUCTS THE M-SHEET DUCT LAYOUT AS SHOWN OR PREVENTS ACCESS TO GREASE DUCT CLEANOUT OPENINGS.
 - L. ALL GAS PIPING ABOVE ROOF SHALL BE CLEANED FREE OF RUST AND PAINTED WITH COAT OF ZINC RUST PRIMER AND ONE COAT OF ALUMINUM BASE PAINT. METER AND GAS RISER SHALL BE PRIMED AND PAINTED TO MATCH BUILDING. APPLY TWO COATS OF ASPHALTUM BASE PAINT TO PIPING BURIED UNDERGROUND.

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 CT705LUN101 BOWL WITH 128 GPF TETLA320CP 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 CT705LUN101 BOWL WITH 128 GPF TETLA320CP ECO-POWER FLUSH VALVE AND SC534 SEAT. NO SUBSTITUTIONS. H.C. ACCESSIBLE, WHITE, FLOOR MOUNTED, 1/2-1/2" 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 UT445LUN101 URINAL WITH TETLA120CP 0.125 GPF SELF SUSTAINED HYDROPOWER SELF-GENERATING ELECTRONIC SENSOR OPERATED FLUSH VALVE. NO SUBSTITUTIONS. VITREOUS CHINA, 3/4" TOP SPUD, SENSOR OPERATED WITH MANUAL OVERRIDE BUTTON, INTERNAL VALVE FILTER PROTECTION, PLEASE SEE NATIONAL ACCOUNT INFORMATION ON THIS SHEET FOR PRICING OF TOTO PRODUCTS.
- P-4 LAVATORY FAUCET: BUILT-IN COUNTERTOP LAVATORY PROVIDED BY OWNER. TOTO MODEL T285E10CP ECO-POWER SENSOR HOT/COLD FAUCET WITH THERMOSTATICALLY CONTROLLED ASSE 1070 MIXING VALVE FAUCET, 0.029 GALLONS PER CYCLE, NO SUBSTITUTIONS. PROVIDE MCGUIRE LF775 SUPPLY WITH STOP. MCGUIRE 155-140 GRID DRAIN WITH OFFSET TAILPIECE, MCGUIRE 8372C POLISHED CHROME P-TRAP. P-TRAP SHALL BE PARALLEL WITH BACK WALL, PROVIDE A TRELECO INC. HANDI LAY-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 #TEL65-C20E10CP - PROVIDED WITH TFP3094 NOZZLE. CONTRACTOR SHALL INSTALL WALL HUNG, STAINLESS STEEL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE LF775 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 B-1146-CFA-VF05 - PROVIDED WITH TFP3094 NOZZLE. CONTRACTOR SHALL INSTALL WALL HUNG, STAINLESS STEEL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE LF775 SUPPLIES WITH STOPS. PROVIDE MCGUIRE 8912C POLISHED CHROME P-TRAP PROVIDED BY H.C.
- P-6 SERVING COUNTER DROP IN SINK ROUGH-IN (SINK BY CLAYTON FIXTURE) FAUCET: TOTO T2451E10CP 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 LF75R20 SUPPLIES WITH STOPS AND 20" CHROME PLATED 3/8" COPPER RISERS. ADJUST FAUCET OUTLET TEMPERATURE TO 110 DEGREES F (OR HIGHER AS REQUIRED BY LOCAL JURISDICTION).
- P-7 MOP SINK FAUCET: MOP SINK BASIN BUILT BY GENERAL CONTRACTOR. PROVIDE TSS BRASS MODEL B-2345 FAUCET WITH CERAMA SPRING CHECK VALVE CARTRIDGES, HOSE THREADED SPOUT OUTLET, TOP BRACE, ADJUSTABLE INLET SPREAD FROM 3" TO 8", INCLUDE TSS BRASS MODEL 43-072 HOSE 3/4" FEMALE NPT CHROME ADAPTER, NO SUBSTITUTIONS. SEE ALSO P-16.
- P-8 VEGETABLE PREP SINK ROUGH-IN (SINK BY TMS) FAUCET: TSS B-0152-14-CR2CT WITH 0.65 GPM SPRAY HEAD. CONTRACTOR SHALL INSTALL SINK AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE LF808 STOPS AND BRASSCRAFT 36" CHROME PLATED 1/2" OD COPPER RISERS MODEL 3-36AC, ASSEMBLE AND MOUNT TWO-HANDLE FAUCET WITH PRE-RINSE SPRAY ARM. INSTALL ADD-ON FAUCET WITH SPOUT AT BASE OF PRE-RINSE RISER. SEE K-SHEET ELEVATIONS FOR FAUCET LOCATIONS. PROVIDE 1/2" SCHEDULE 80 PVC PIPE AND FITTINGS. INDIRECT WASTE LINES FROM EACH SINK BASIN TO FLOOR SINK P-13B, NO P-TRAPS. H.C. TO PROVIDE FISHER #2209 DRAINS WITH FLAT STRAINERS.
- P-9 FOUR COMPARTMENT POT SINK ROUGH-IN (SINK BY TMS) FAUCETS: TSS B-0152-14-CR2CT & B2299-CP WITH 0.65 GPM SPRAY HEAD. CONTRACTOR SHALL INSTALL SINK, ASSEMBLE & MOUNT TWO FAUCETS, AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE LF808 STOPS AND BRASSCRAFT 36" CHROME PLATED 1/2" OD COPPER RISERS MODEL 3-36AC, ASSEMBLE AND MOUNT ONE TWO-HANDLE FAUCET WITH PRE-RINSE SPRAY 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" SCHEDULE 80 PVC PIPE AND FITTINGS. INDIRECT WASTE LINES FROM EACH SINK BASIN TO FLOOR SINK P-13A, NO P-TRAPS. H.C. TO PROVIDE FISHER #2209 DRAINS WITH FLAT STRAINERS.
- P-10 FLOOR DRAIN (3") ZURN E21-PV3-R8 BRONZE SPUD WITH 8" DIAMETER NICKEL BRONZE STRAINER. ALT: JONES STEPHENS CORP. D59-144.
- P-11 WALL HYDRANT (NON-FREEZE) WOODFORD MODEL 67C AUTOMATIC DRAINING WALL HYDRANT WITH DUAL CHECK BFP, ASSE 1052 APPROVED, WALL CLAMP, POLISHED BRASS FINISH, "C" STYLE INLET. SEE WALL HYDRANT NOTES ON VP-201 FOR WALL THICKNESS AT WALL HYDRANTS. ALT: WTS) HY-42.
- P-12 FUNNEL DRAIN (3") ZURN MODEL ZN415-3N-LS-4 FLOOR DRAIN W/FUNNEL. INDIRECT WASTE RECEIVER WITH NICKEL BRONZE STRAINER AND FUNNEL. PROVIDE 6" SQUARE STRAINER WITH 4" ROUND FUNNEL. AT WALK-IN COOLER. 4" ROUND FUNNEL. ZURN ZN228-4.
- P-13A FLOOR SINK (POT SINK) ZURN MODEL Z1901-3N-L-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-L-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-N-K-C-2-22 CAST IRON BODY WITH INDIRECT WASTE RECEIVER, NEO-LOC OUTLET, ANCHOR FLANGE WITH SEEPAGE HOLES AND CLAMP COLLAR, WITH HALF GRATE, AND ALUMINUM BUCKET. PROVIDE BY H.C. NO SUBSTITUTIONS.
- P-14 CLEANOUTS INSIDE BUILDING: ZURN ZN400-XNL-T-EP 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-NX EXTRA HEAVY DUTY CAST IRON CLEANOUT, "C.O." CAST IN COVER, ABS PLUG, NEO-LOC OUTLET, (OX-PIPE DIA). ALT: ZURN Z1474-X-N.
- 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 TREAD ADAPTERS (PLUMBEST MODEL 620-103 OR EQUAL), PROVIDE WITH ONE ASSE IO11 APPROVED CHROME PLATED VACUUM BREAKER (WOODFORD MODEL 344-CH 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 #LFR36M, 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 SLF-100-199-NE, R-HEM G-E80-130, AND BRADFORD WHITE EF-60T-199-3N MODELS ARE ACCEPTABLE SUBSTITUTES.

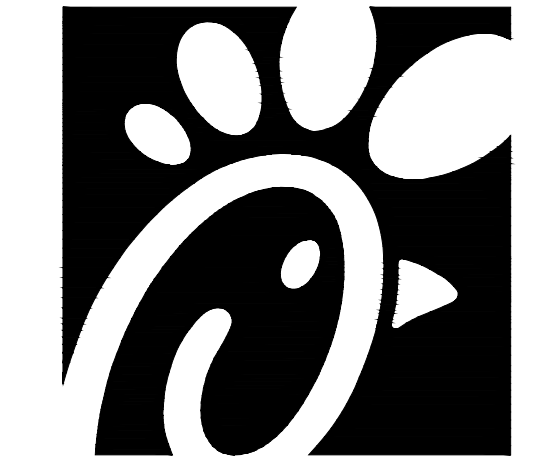
- P-20 THERMOMETER: PROVIDE TRECICE MODEL B83404 - 04 3" DIAL TYPE THERMOMETER WITH BOTTOM 1/2" NPT. CONNECTION, 4" STEM AND 0 DEG F TO 200 DEG F RANGE. LEAD FREE.
- P-21 BACKFLOW PREVENTERS: COORDINATE LOCATION WITH CIVIL SITE UTILITY PLAN. BACKFLOW PREVENTER TYPE AND MODEL IS DETERMINED BY CIVIL ENGINEER IF LOCATED OUTSIDE THE BUILDING.
 - DOUBLE CHECK TYPE: WATTS NO. LF1007MOT 1/2" DUAL CHECK MODULAR TYPE BACKFLOW PREVENTER MEETING ASSE 1015 AND AWWA C510-92, WHERE REQUIRED BY LOCAL AUTHORITY, USE THE RPZ TYPE. BFP S-HOWN BELOW. ALT: ZURN 112-350XL.
 - REDUCED PRESSURE ZONE (RPZ) TYPE: WATTS NO. LF1009M 1/2" MODULAR TYPE WITH TEST PORTS AND INTERMEDIATE RELIEF VALVE MEETING ASSE 1013 AND AWWA 511-83. PROVIDE WATTS NO. 909-AG-C AIR GAP DEVICE. ALT: ZURN 112-375XL2L.
- P-22 MOP SINK CHECK VALVES: TSS BRASS 1/2" MODEL B-CVM-2 BALL CHECK.
- P-23 UTILITY CONNECTION (ICE MAKER): PROVIDE A MCGUIRE MODEL LF-H506SB 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-H506SB 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 COMMANDED BY MANUFACTURER. ALT: (WTS) SSA + SSB, LRS 5005 THRU 5050).
- P-26 FUNNEL DRAIN (3") ZURN ZN415-3N-LS-05 OF FLOOR DRAIN W/FUNNEL. INDIRECT WASTE RECEIVER WITH NICKEL BRONZE STRAINER AND FUNNEL. PROVIDE 6" ROUND STRAINER WITH 3.25"X8.25" OBLONG FUNNEL. ALT: (LRS) 3510L3-FZ2B.
- P-26A TRAP SEAL PROTECTOR PREVENT TRAP GUARD MODEL TG34 3" TRAP SEAL INSERT FOR INTERIOR INSTALLATION AND REPLACEMENT ACCESS THROUGH STRAINER. PROVIDE AS NOTED ON P.II. PROVIDE PROSET MODEL TG39-ZURN WHEN USING ZURN FLOOR FIXTURES.
- P-27 WATER PRESSURE GAUGE: TRECICE 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, 145" 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, 145" X 36", STAINLESS STEEL SEDIMENT CUP, AND STAINLESS STEEL SERRATED LADDER GRATE. NO SUBSTITUTIONS.
- P-30 FILTERED WATER FAUCET: FILTERED WATER FAUCETS: TSS B-02326-OR-063X (KITCHEN FAUCET) & TSS B-0699-OR (DRIVE-THRU FAUCET). TWO-HANDLE WALL MOUNT FAUCET WITH SWING SPOUT. MOUNT ON WALL AS SHOWN ON K-SHEETS. PIPE FILTERED WATER TO BOTH SIDES OF FAUCET. CONNECT TO SUPPLY PIPING WITH BRASS OR CHROME NIPPLES, GALVANIZED NOT ALLOWED.
- P-31 DUMPSTER POST HYDRANT (NON-FREEZE) WOODFORD MODEL Y2 LEVER TYPE POST HYDRANT, 3/4" HOSE CONNECTION, LOCKABLE LEVER HANDLE, BRASS CASING, BRASS OPERATING ROD, ASSE 1052 APPROVED AND 36" DEPTH OF BURY.
- P-32 DUMPSTER PAD DRAIN: J.R. SMITH FIGURE NO. 2280C03 3" FLOOR DRAIN WITH 7-1/2" HINGED CAST IRON SLOTTED GRATE AND SEDIMENT BUCKET. INSTALLED BY SITE CONTRACTOR. ALT: ZURN Z45C-3N-L-Y.
- P-33 TRAP PRIMER (MECHANICAL TYPE) DO NOT USE UNLESS REQUIRED BY LOCAL AUTHORITY. PRECISION PRODUCTS FR-500, PROVIDE DISTRIBUTION LINE WHERE SERVING MULTIPLE DRAINS. PROVIDE SCREWDRIVER STOP AT PRIMER INLET. ALT: (WTS) TP-300A-DR.
- P-34 DISPENSER BACKFLOW PREVENTER: WATTS MODEL #LF775M2-2 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 TSS BRASS MODEL B-0110 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 Z1901 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-FC, 1/2" UNION CONNECTIONS, INTEGRAL FLOW CHECK. ELECTRICIAN TO PROVIDE AND WIRE PLUG AND CORD, 1/40 HP, 3 GPM AT 7 FT TOTAL DYNAMIC HEAD, PROVIDE CONTROL WIRING AND HONEYWELL MODEL L560C10B 110 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 500XL5BR.
- P-40 WYE STRAINER WITH #100 MESH SCREEN 2" WATTS LF775M2-2 BRONZE WYE STRAINER WITH TREAD CONNECTION AND TAPPED RETAINER CAP. PROVIDE #100 MESH SCREEN. PROVIDE WATTS 1/2" LFBD-1C BRASS BOILER 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) ACOORN 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 HAINES, JONES, & CADBURY FOR PRICING AND DELIVERY.
- P-43 REHEMATIZER SUPPLY VALVE: FULL-PORT LEAD-FREE STAINLESS STEEL BALL VALVE WITH SPLIT-RING BRACKET, CHROME FITTINGS, PIPE NIPPLES, AND ESCUTCHEON AS DETAILED ON P-22.

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 H.C. & 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@HJCINC.COM FOR NATIONAL ACCOUNT PRICING AND DELIVERY FOR ALL ITEMS ON PLUMBING FIXTURE SCHEDULE.



Chick-fil-A
 5200 Buffington Road
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CHICK-FIL-A
 VILLA RICA
 85 COMMERCE DR.
 VILLA RICA, GA 30180

FSR#02111

BUILDING TYPE / SIZE:	S06C	
RELEASE:	v04.23	
REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
CONSULTANT PROJECT # 23145 HF.R		
PRINTED FOR		CONSTRUCTION
DATE		12/20/2023
DRAWN BY		BF
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SHEET PLUMBING SPECIFICATIONS		
SHEET NUMBER		

KITCHEN EQUIPMENT SCHEDULE - CHICK-FIL-A REMODEL STORE #2111												
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/COND UIT 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)	HG		
	182	RECEIPT PRINTER	120	1	2	0.18	5-20R	5-20R	IG5362RN (ORANGE)	HG		
	182L	LABEL PRINTER	120	1	2	0.18	5-20R	5-20R	IG5362RN (ORANGE)	HG		
NOTE 5	183	ORDER MONITOR	120	1	2	0.125	5-20R	5-20R	IG5362RN (ORANGE)	HG		
NOTE 2 OR 5	184	IPAD	120	1	2	0.120	5-20R	5-20R	IG5362RN (ORANGE)	HG		
NOTE 5	184T	TIMER	120	1	2		5-20R	5-20R				
NOTE 2	190	DRIVE-THRU VIDEO MONITOR	120	1	2	0.8	5-20R	N/A	CR20			
NOTE 5	211B	FLY SYSTEM - KITCHEN AREA	120	1	2	0.078	5-15R	N/A	TR780W (DUPLEX)		CLOCK STYLE RECEPTACLE REQ'D	
	211C	FLY SYSTEM - DINING AREA	120	1	2	0.030	5-15R	N/A	TR780W (DUPLEX)		CLOCK STYLE RECEPTACLE REQ'D	
	269	ANSUL FIRE SYSTEM	120	1	2	VERIFY	DIRECT	N/A	-		FED FROM CFA-T500 PANEL	
	270	ANSUL FIRE SYSTEM	120	1	2	VERIFY	DIRECT	N/A	-		FED FROM CFA-T500 PANEL	
NOTE 2	300A	MILKSHAKE DISPENSER	120	1	2	4.0	5-20R	N/A	1877 (SIMPLEX)	1		
	300X	DOUBLE BARREL ICE DREAM	208	3	3	15.0	15-20R	N/A	HUBBELL HBL8420	2	FURNISHED WITH ANGLE PLUG	
	305	TEA BREWER	120	1	2	1.650	5-20R	N/A	1877 (SIMPLEX)	1		
	308	COFFEE BREWER	208	1	3	4.000	114-30R	N/A	AHL1430R	8		
NOTE 2	310	DOUBLE JUICE DISPENSER	120	1	2	8.5	5-20R	N/A	1877 (SIMPLEX)	1		
	315W	10-HEAD BEVERAGE DISPENSER	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		
	363H	HIGH-TEMP DISH-MACHINE	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 (DUPLEX)	1		
	380C	ROOF MTD ICE CONDENSER	208	3	4	5.112	DIRECT	N/A	-	6		
	380D	INTERIOR ICE MAKER	120	1	2	6.0	5-15R	N/A	817 (SIMPLEX) CR15 (DUPLEX)	1		
	380CD	ROOF MTD ICE CONDENSER	208	3	4	15.7	DIRECT	N/A	-	9		
NOTE 2	400	REACH-IN FRY FREEZER	120	1	2	9.4	5-20R	L5-20R	VGF20 / AH-L520R	1		
	F404	UC FREEZER	120	1	2	8.0	5-15R	N/A	817 (SIMPLEX) CR15 (DUPLEX)	1		
NOTE 5	420	SINGLE UC REFRIGERATOR	120	1	2	4.7	5-20R	L5-20R	1877 (SIMPLEX) / AH-L520R	1		
NOTE 2	421	DOUBLE UC REFRIGERATOR	120	1	2	6.3	5-20R	L5-20R	1877 (SIMPLEX) / AH-L520R	1		
NOTE 5	422	REFRIGERATED EQUIPMENT STAND	120	1	2	6.7	5-15R	L5-15R	1877 (SIMPLEX) / CWL515C	1		
NOTE 5	431	REFRIGERATED WORK TABLE	120	1	2	6.3	5-20R	L5-20R	1877 (SIMPLEX) / AH-L520R	1	PROVIDE TWIST LOCK PLUG IN FIELD	
NOTE 5	432	REFRIGERATED WORK TABLE	120	1	2	6.3	5-20R	L5-20R	1877 (SIMPLEX) / AH-L520R	1	PROVIDE TWIST LOCK PLUG IN FIELD	
NOTE 2	439	COLD RAIL	120	1	2	7.1	5-20R	N/A	VGF20	1		
NOTE 2	440CT	ICE BATH 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	442MCT	SINGLE UPRIGHT REFRIGERATOR	120	1	2	7.0	L5-15R	L5-15R	CWL515R / CWL515C	1	PROVIDE TWIST LOCK PLUG IN FIELD	
NOTE 2	443G	SINGLE UPRIGHT REFRIGERATOR	120	1	2	8.0	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	
NOTE 2 OR 5	500A	VERTICAL CONTACT TOASTER	120	1	2	1.800	15-20R	L5-20R	VGF20 / AH-L520R	1		
	500B	RADIANT TOASTER	208	1	3	5.000	L6-30R	L6-30R	AHL530R / AHL530C	8		
NOTE 5	503	EGG STATION	208	1	3	2.500	6-20R	L6-20R	1876 (SIMPLEX) / AHL620C	2	TWIST LOCK PLUG PROVIDED W/ EQUIP	
	505	CONVECTION OVEN	208	3	3	5.600	24/12/15	15-30R	N/A	AH-B430N	9	PROVIDE ANGLE PLUG ON CORDSET
NOTE 3	522	OPEN FRYER - ELECTRIC	208	3	3	22.000	61.0	NOTE 3	N/A	22	PLUG AND CORD-SET PROVIDED W/ EQUIP	
	523	PRESSURE FRYER - ELECTRIC	208	3	3	13.500	38.0	15-50R	N/A	HUBBELL HBL8450A	14	PLUG AND CORD-SET PROVIDED W/ EQUIP
	524	DUAL SIDED CHAR-GRILL	208	3	3	9.000	24/12/23/1	15-50R	N/A	HUBBELL HBL8450A	14	
NOTE 2	560	FRY HOLDING STATION	120	1	2	1.840	15.4	DIRECT	-	1	POWER VIA SPST SWITCH	
NOTE 5	562A	HOT HOLDING TOWER	120	1	2	1.91	15.9	L5-20R	L5-20R	AHL520R / AHL520C	1	
NOTE 5	563D	DOUBLE SANDWICH SLIDE	120	1	2	1.090	9.13	5-20R	N/A	1877 (SIMPLEX)	1	
NOTE 5	563S	SINGLE SANDWICH SLIDE	120	1	2	0.548	4.56	5-20R	N/A	1877 (SIMPLEX)	1	
	564B	PRODUCT HOLDING CABINET	120	1	2	0.660	5.50	5-20R	L5-20R	1877 / AHL520C	1	
NOTE 2	565C	FOOD COOKER/WARMER	120	1	2	1.500	12.50	5-20R	L5-20R	VGF20 / AH-L520R	1	
NOTE 5	580H	MULTI-USE HOLDING CABINET	120	1	2	1.920	16.0	5-20R	L5-20R	1877 / AHL520C	1	
	592	SOUP RE-THERMALIZER	208	3	3	7.920	22.0	15-30R	L15-30R	AH-B430N / AHL1530C	9	PROVIDE TWIST LOCK PLUG IN FIELD WHEN REQ'D
NOTE 5	600	MIXER	120	1	2	8.0	5-20R	L5-20R	VGF20 / AH-L520C	1	PROVIDE TWIST LOCK PLUG IN FIELD WHEN REQ'D	
NOTE 2	607	LEMON JUICER	120	1	2	1/4 HP	5-20R	N/A	VGF20	1	PROVIDE GFCI DUPLEX RECEPTACLE	
	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: BRIANREECE@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.

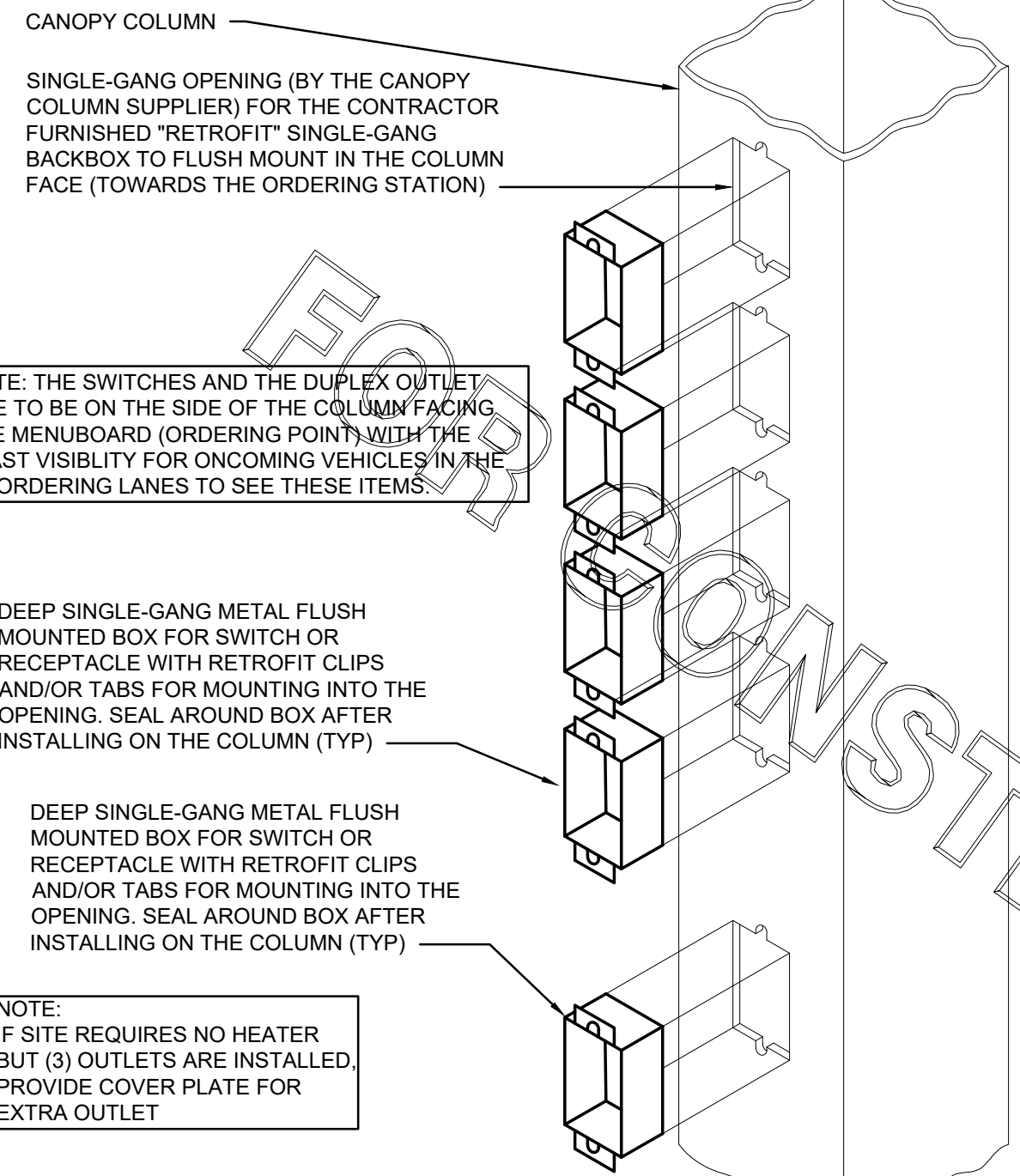
NOTE 5: PROVIDE GFCI TYPE BRANCH BREAKER FOR KITCHEN/FOOD PREPARATION AREA RECEPTACLES THAT ARE TWIST-LOCK, CLOCK STYLE, OR IG (ISOLATED GROUND) TYPE.

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.

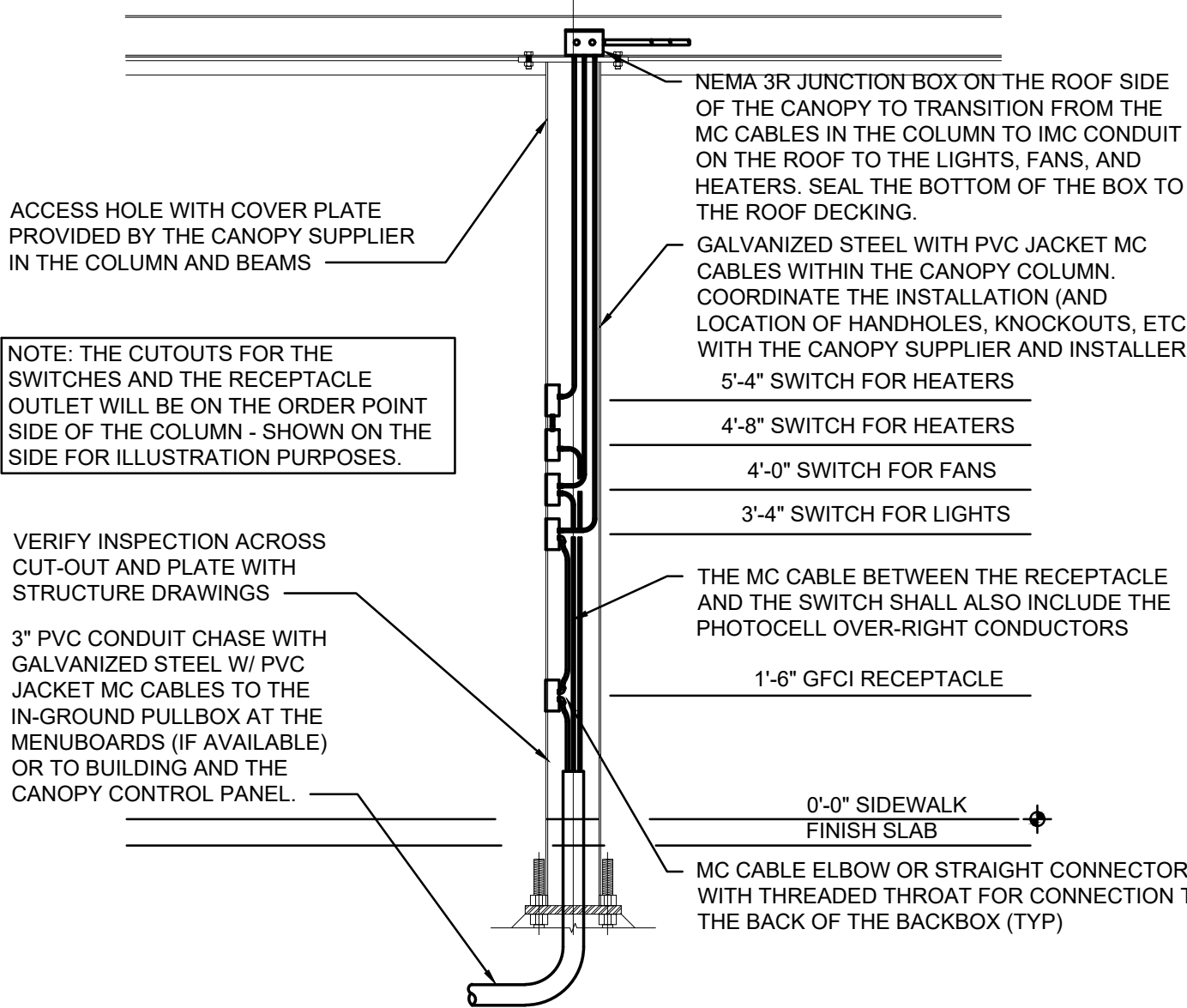
NOTE 7: THE 'R' SUBSCRIPT ON EQUIPMENT NUMBERS ON THE KITCHEN SERIES DRAWINGS REFERS TO EXISTING EQUIPMENT THAT HAS BEEN RELOCATED. IN SEVERAL CASES THERE MAY BE ONE OR MORE NEW AND ONE OR MORE RELOCATED ITEMS, THEREFORE, IN ORDER TO AVOID CONFUSION, ALL EQUIPMENT IS LISTED AS 'NEW' AND THIS SUBSCRIPT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

2 ELECTRICAL LEGEND

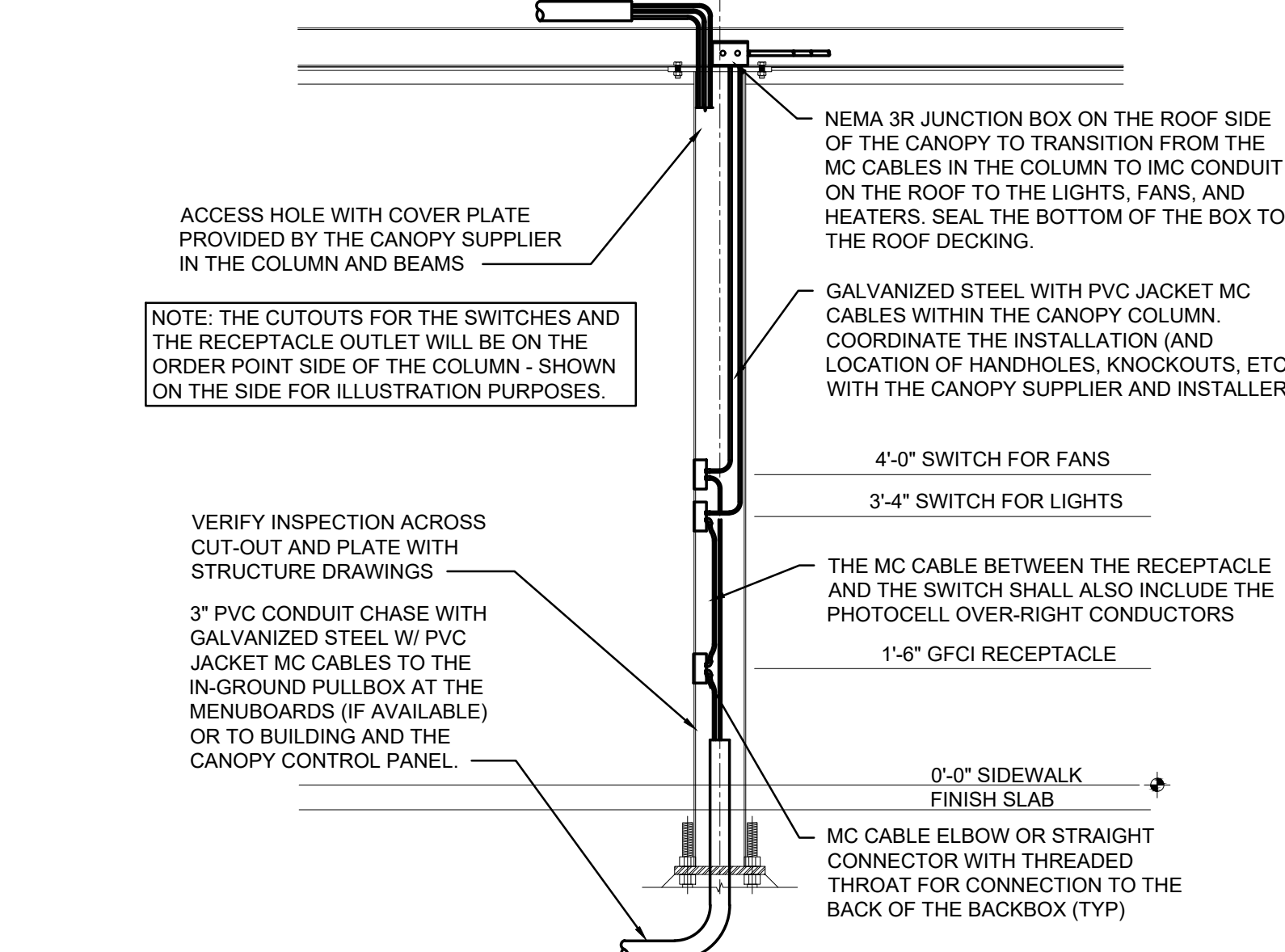
SYMBOL	DESCRIPTION	MTG HT AFF TO CL	SYMBOL	DESCRIPTION	MTG HT AFF TO CL
LIGHTING FIXTURES					
□	SURFACE MTD FLUORESCENT LIGHTING FIXTURE		—	CONDUIT CONCEALED ABOVE CEILING OR IN WALL	
⊞	RECESSED FLUORESCENT LIGHTING FIXTURE		—	CIRCUIT HOMERUN TO PANELBOARD WITH MINIMUM 2#12, #12G, 3/4"C	
○	SURFACE MTD FLUORESCENT OR HID LIGHTING FIXTURE		—	CONDUIT TURNING UP	
⊙	RECESSED FLUORESCENT OR HID LIGHTING FIXTURE		—	CONDUIT TURNING DOWN	
⊙	WALL MOUNTED LIGHTING FIXTURE. SEE LIGHTING FIXTURE SCHEDULE (FLUORESCENT OR HID FIXTURE)	AS NOTED	—	CONDUIT CONCEALED IN OR BELOW SLAB (OUTSIDE - UNDERGROUND)	
⊙	WALL MOUNTED EXIT SIGN. SHADING INDICATES FACES. PROVIDE WITH CHEVRON DIRECTIONAL ARROWS WHERE INDICATED ON PLANS PROVIDED WITH BATTERY PACK	6" BELOW CEILING TO TOP	—	FLEXIBLE LIGHT FIXTURE WHIP, SIX FOOT MAXIMUM LENGTH	
⊙	CEILING MOUNTED EXIT SIGN. SHADING INDICATES FACES. PROVIDE WITH CHEVRON DIRECTIONAL ARROWS WHERE INDICATED ON PLANS PROVIDED WITH BATTERY PACK		MC	METAL CLAD CABLE ASSEMBLY - ONLY WHERE INDICATED ON DWGS OR SPECS	
⊙	COMBO EXIT WITH TWO LAMP-HEADS. SEE LIGHTING FIXTURE SCHEDULE		NOTES: FOR ALL CONDUITS: REFER TO PLANS FOR OTHER CONDUITS, REFER TO VENDOR DRAWINGS FOR CONDUIT AND WIRING REQUIREMENTS FOR LOW VOLTAGE SYSTEMS AND CONTROL WIRING.		
⊙	WALL MOUNTED EMERGENCY BATTERY PACK LIGHTING FIXTURE	AS NOTED	MULTIPLE IPH CIRCUITS MAY OCCUPY THE SAME CONDUIT IN ACCORDANCE WITH THE NEC, MAXIMUM OF THREE AND OF DIFFERENT PHASES.		
⊙	CEILING MOUNTED EMERGENCY BATTERY PACK LIGHTING FIXTURE		LOW VOLTAGE AND CONTROL WIRING SHALL BE IN SEPARATE CONDUIT FROM POWER WIRING.		
—	FLUORESCENT STRIP LIGHTING FIXTURE		DISTRIBUTION EQUIPMENT		
⊙	WALLWASHER STYLE RECESSED DOWNLIGHT, AIM LIGHT TOWARD WALL		⊞	NON-FUSIBLE SAFETY SWITCH, SIZE AND TYPE AS NOTED ON PLANS (AMP/POLES/ENCLOSURE) OR ON SCHEDULE, NEMA 1 ENCLOSURE UNLESS NOTED WP FOR NEMA 3R ENCLOSURE.	6'-6"
⊞	RECESSED LIGHTING FIXTURE WITH EMERGENCY BATTERY PACK		⊞	FUSIBLE SAFETY SWITCH, SIZE AND TYPE AS NOTED ON PLANS (AMP/POLES/FUSE AMP/ENCLOSURE) OR ON SCHEDULE, NEMA 1 ENCLOSURE UNLESS NOTED WP FOR NEMA 3R.	6'-6"
⊞	PENDANT LIGHTING FIXTURE	AS NOTED	⊞	FLUSH MOUNTED LIGHTING PANELBOARD	6'-6"
—	LIGHTING TRACK WITH TRACK HEADS		⊞	SURFACE MOUNTED LIGHTING PANELBOARD	6'-6"
WIRING DEVICES					
⊙	120 VOLT DUPLEX RECEPTACLE, 20 AMPS UON	18"	⊞	TRANSFORMER, PROVIDE SECONDARY GROUNDING PER NEC	
⊙	120 VOLT DUPLEX AT SPECIAL MOUNTING HEIGHT, 20 AMPS UON	44" UON	⊞	ENCLOSED CIRCUIT BREAKER, SIZE AND TYPE AS NOTED (AMPS/POLES/ENCLOSURE) NEMA 1 ENCLOSURE IF NOT NOTED, WP-NEMA 3R	6'-6"
⊙	120 VOLT QUADRAPLEX RECEPTACLE, 20 AMPS UON	18" UON	⊞	6'-6" DISTANCE IS TO TOP-MOST DISCONNECTING DEVICE OR HIGHEST POSITION OF OPERATING HANDLE OF DISCONNECTING DEVICE	
⊙	120 VOLT QUADRAPLEX AT SPECIAL MOUNTING HEIGHT, 20 AMPS UON	44"	MISCELLANEOUS SYMBOLS		
⊙	120 VOLT SIMPLEX RECEPTACLE, 20 AMPS UON	18" UON	⊞	GROUND	
⊙	SINGLE SPECIAL PURPOSE RECEPTACLE WITH VOLTS, AMPS, AND PHASE AS NOTED, NEMA CONFIGURATION AS REQUIRED BY EQUIPMENT	18" UON	⊞	MOTOR	
⊙	RECEPTACLE MOUNTED ON CORD DROP, 120 VOLT, 20 AMP, UON, OUTLET BOX FLUSH WITH CEILING		⊞	EXHAUST FAN MOTOR	
⊙	120 VOLT DUPLEX RECEPTACLE, 20 AMPS UON	18"	⊞	JUNCTION BOX	
⊙	120 VOLT QUADRAPLEX RECEPTACLE, 20 AMPS UON	18"	⊞	CONDUIT AND WIRE 'MARK' NUMBER, REFER TO CONDUCTORS AND CONDUIT SCHEDULE FOR SIZE	
⊙	120 VOLT SIMPLEX RECEPTACLE, 20 AMPS UON	18"	⊞	KITCHEN EQUIPMENT 'MARK' NUMBER, REFER TO KITCHEN EQUIPMENT SCHEDULE FOR REQUIREMENTS	
⊙	SINGLE SPECIAL PURPOSE RECEPTACLE WITH VOLTS, AMPS, AND PHASE AS NOTED, NEMA CONFIGURATION AS REQUIRED BY EQUIPMENT	18"	⊞	NOTE NUMBER	
⊙	RECEPTACLE MOUNTED ON CORD DROP, 120 VOLT, 20 AMP, UON, OUTLET BOX FLUSH WITH CEILING		⊞	HOOD EXTINGUISHING ANSUL PULL STATION	
⊙	120 VOLT DUPLEX RECEPTACLE, 20 AMPS UON	18"	⊞	SMOKE DETECTORS REMOTE STATUS INDICATOR W/ 1/2" CONDUIT STUB-UP	
⊙	120 VOLT QUADRAPLEX RECEPTACLE, 20 AMPS UON	18"	⊞	PUSH-BUTTON	
⊙	120 VOLT SIMPLEX RECEPTACLE, 20 AMPS UON	18"	⊞	BELL, TYPE AS NOTED ON PLANS	
⊙	SINGLE SPECIAL PURPOSE RECEPTACLE WITH VOLTS, AMPS, AND PHASE AS NOTED, NEMA CONFIGURATION AS REQUIRED BY EQUIPMENT	18"	⊞	PHOTO-ELECTRIC CELL	
⊙	RECEPTACLE MOUNTED ON CORD DROP, 120 VOLT, 20 AMP, UON, OUTLET BOX FLUSH WITH CEILING		TELEPHONE		
⊙	120 VOLT DUPLEX RECEPTACLE, 20 AMPS UON	18"	⊞	TELEPHONE OUTLET	18" UON
⊙	120 VOLT QUADRAPLEX RECEPTACLE, 20 AMPS UON	18"	⊞	TELEPHONE OUTLET AT SPECIAL MOUNTING HEIGHT	60" UON
⊙	120 VOLT SIMPLEX RECEPTACLE, 20 AMPS UON	18"	NOTE: EACH TELEPHONE OUTLET (FLOOR OR WALL MOUNTED) SHALL BE PROVIDED WITH A 3/4" EMPTY CONDUIT, WITH PULL WIRE, TO ACCESSIBLE CEILING SPACE.		
⊙	SINGLE SPECIAL PURPOSE RECEPTACLE WITH VOLTS, AMPS, AND PHASE AS NOTED, NEMA CONFIGURATION AS REQUIRED BY EQUIPMENT	18"	CCTV / SECURITY SYSTEM		
⊙	RECEPTACLE MOUNTED ON CORD DROP, 120 VOLT, 20 AMP, UON, OUTLET BOX FLUSH WITH CEILING		⊞	CLOSED CIRCUIT TELEVISION CAMERA	
⊙	120 VOLT DUPLEX RECEPTACLE, 20 AMPS UON	18"	⊞	SECURITY ALARM KEYPAD	
⊙	120 VOLT QUADRAPLEX RECEPTACLE, 20 AMPS UON	18"	⊞	SECURITY ALARM HOLD-UP BUTTON	
⊙	120 VOLT SIMPLEX RECEPTACLE, 20 AMPS UON	18"	⊞	SECURITY SYSTEM KEY NOTE	
⊙	SINGLE SPECIAL PURPOSE RECEPTACLE WITH VOLTS, AMPS, AND PHASE AS NOTED, NEMA CONFIGURATION AS REQUIRED BY EQUIPMENT	18"			
⊙	RECEPTACLE MOUNTED ON CORD DROP, 120 VOLT, 20 AMP, UON, OUTLET BOX FLUSH WITH CEILING				
⊙	120 VOLT DUPLEX RECEPTACLE, 20 AMPS UON	18"			
⊙	120 VOLT QUADRAPLEX RECEPTACLE, 20 AMPS UON	18"			
⊙	120 VOLT SIMPLEX RECEPTACLE, 20 AMPS UON	18"			
⊙	SINGLE SPECIAL PURPOSE RECEPTACLE WITH VOLTS, AMPS, AND PHASE AS NOTED, NEMA CONFIGURATION AS REQUIRED BY EQUIPMENT	18"			
⊙	RECEPTACLE MOUNTED ON CORD DROP, 120 VOLT, 20 AMP, UON, OUTLET BOX FLUSH WITH CEILING				
⊙	120 VOLT DUPLEX RECEPTACLE, 20 AMPS UON	18"			
⊙	120 VOLT QUADRAPLEX RECEPTACLE, 20 AMPS UON	18"			
⊙	120 VOLT SIMPLEX RECEPTACLE, 20 AMPS UON	18"			
⊙	SINGLE SPECIAL PURPOSE RECEPTACLE WITH VOLTS, AMPS, AND PHASE AS NOTED, NEMA CONFIGURATION AS REQUIRED BY EQUIPMENT	18"			
⊙	RECEPTACLE MOUNTED ON CORD DROP, 120 VOLT, 20 AMP, UON, OUTLET BOX FLUSH WITH CEILING				
⊙	120 VOLT DUPLEX RECEPTACLE, 20 AMPS UON	18"			
⊙	120 VOLT QUADRAPLEX RECEPTACLE, 20 AMPS UON				



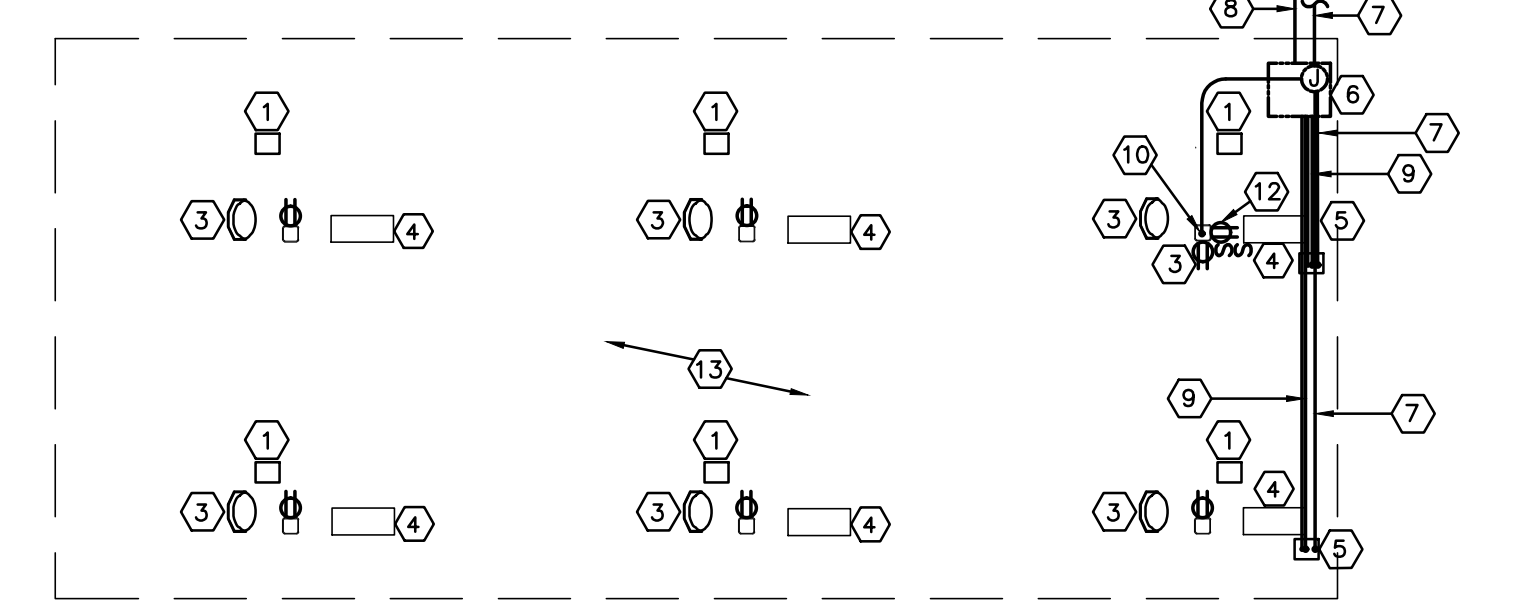
CANOPY COLUMN ISOMETRIC
NOT TO SCALE



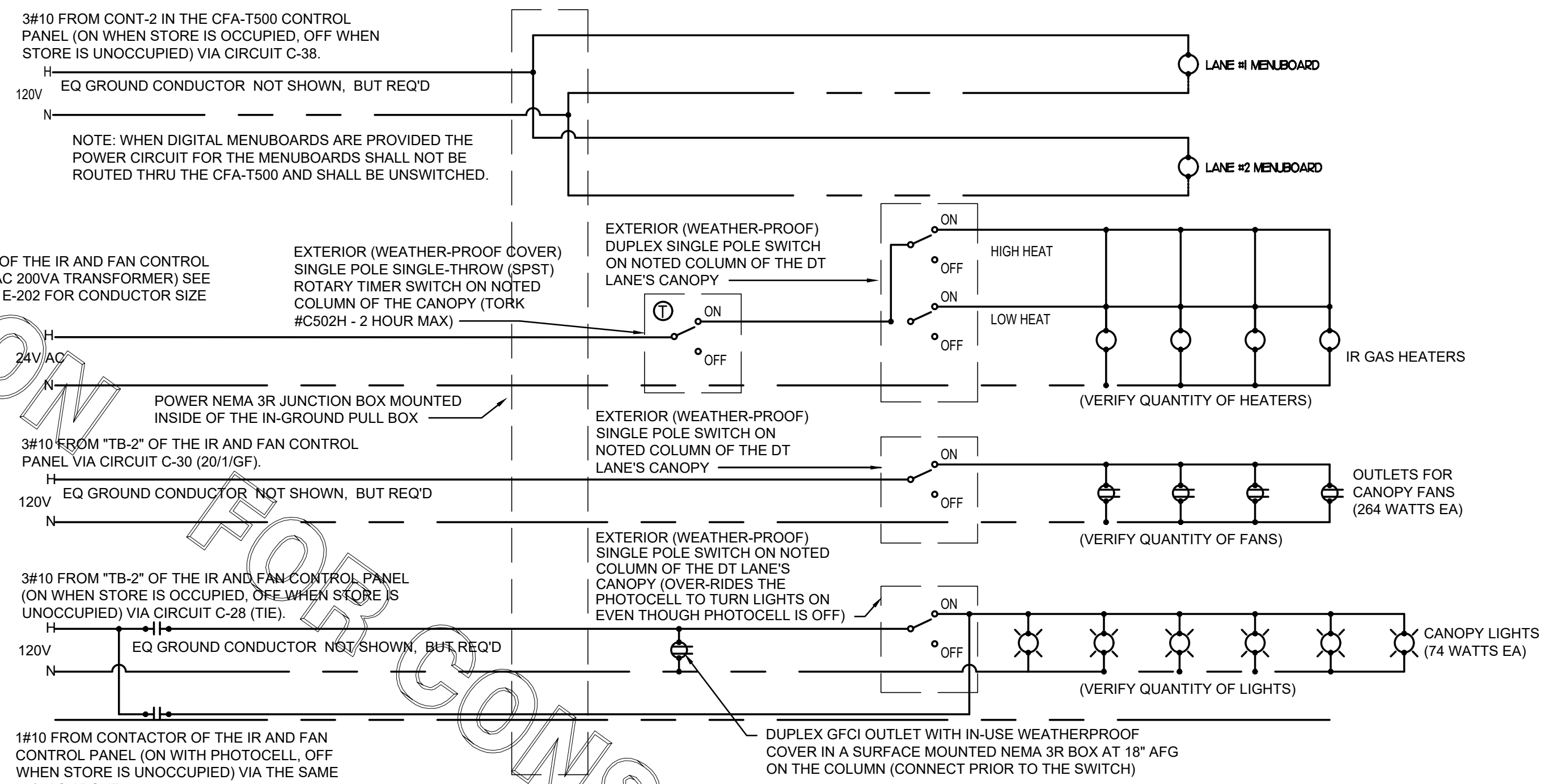
ORDER CANOPY COLUMN SECTION
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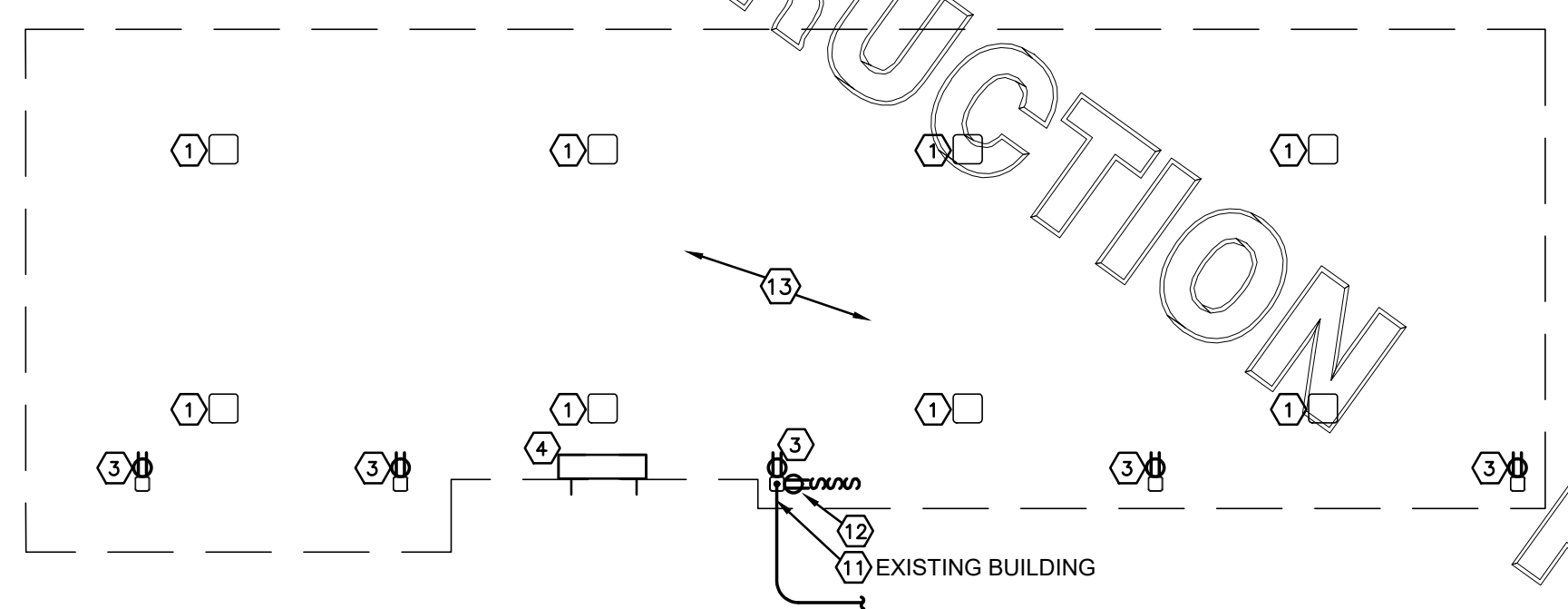
OMD CANOPY COLUMN SECTION
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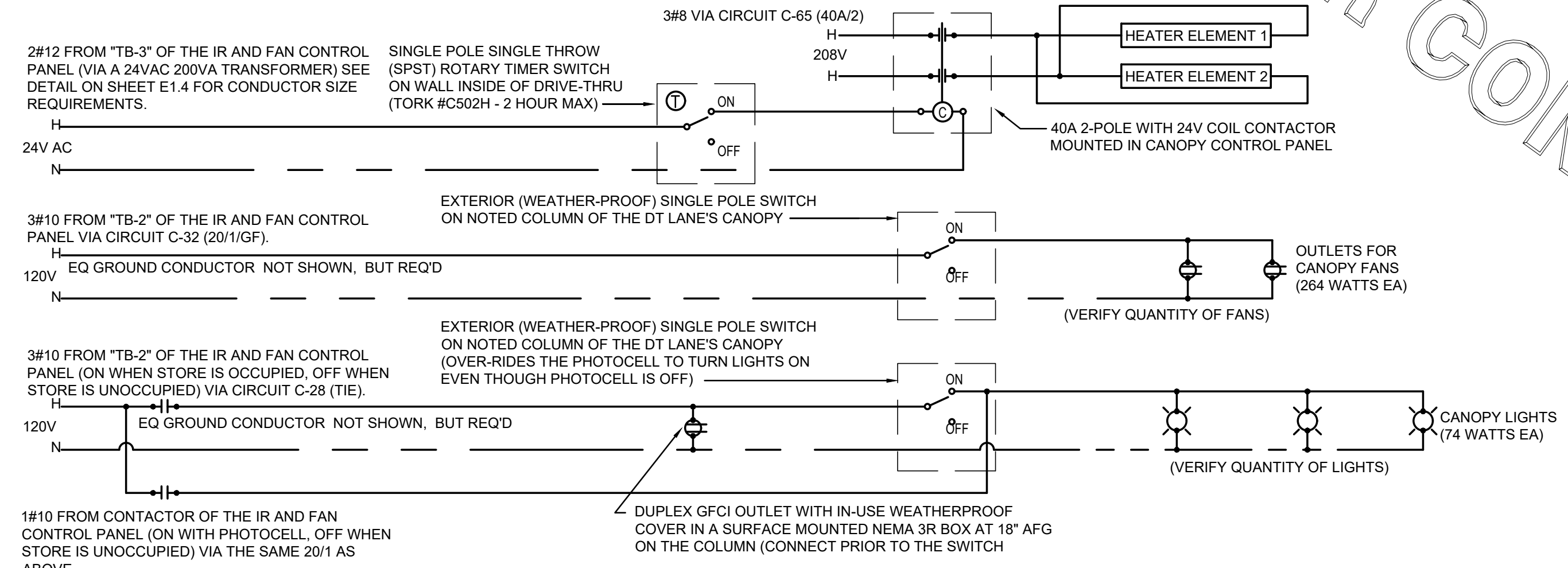
DUAL LANE ORDER CANOPY POWER PLAN
SCALE: 1/8" = 1'-0"



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 EXISTING IN-GROUND QUARTZITE 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 AND 120 VOLT POWER FOR FANS.
 - 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 (3) NOT USED.
 - 6 NOT USED.
 - 11 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.
 - 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.



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CHICK-FIL-A
VILLA RICA
85 COMMERCE DR.
VILLA RICA, GA 30180

FSR#02111
BUILDING TYPE / SIZE: S06C
RELEASE: v04.23

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 23145.HF.R
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DATE 12/20/2023
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SHEET CANOPY PLANS AND DETAILS
SHEET NUMBER



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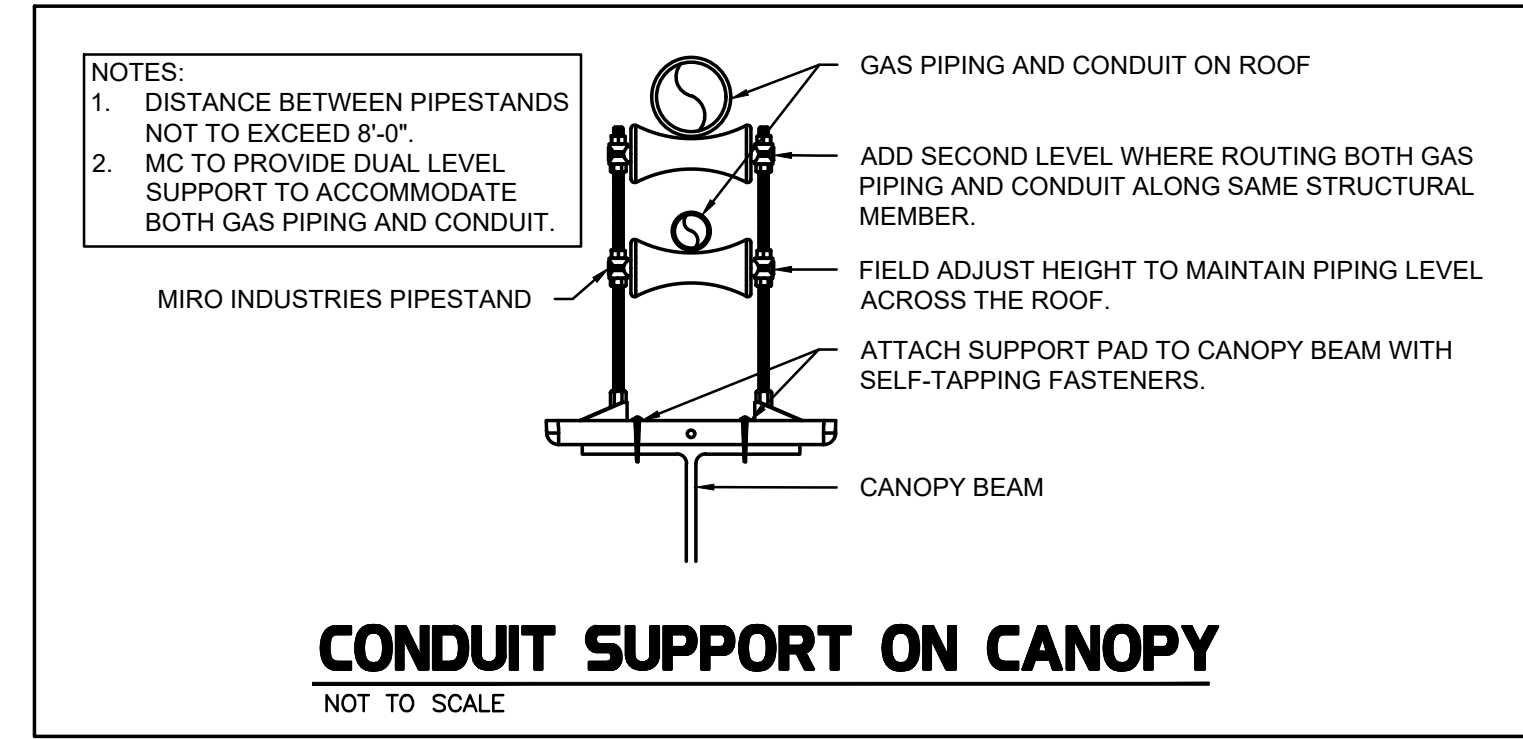
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SHEET ORDER CANOPY CONTROL PANEL
SHEET NUMBER

E1.4

FOR CONSTRUCTION



CIRCULATING FAN SCHEDULE

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

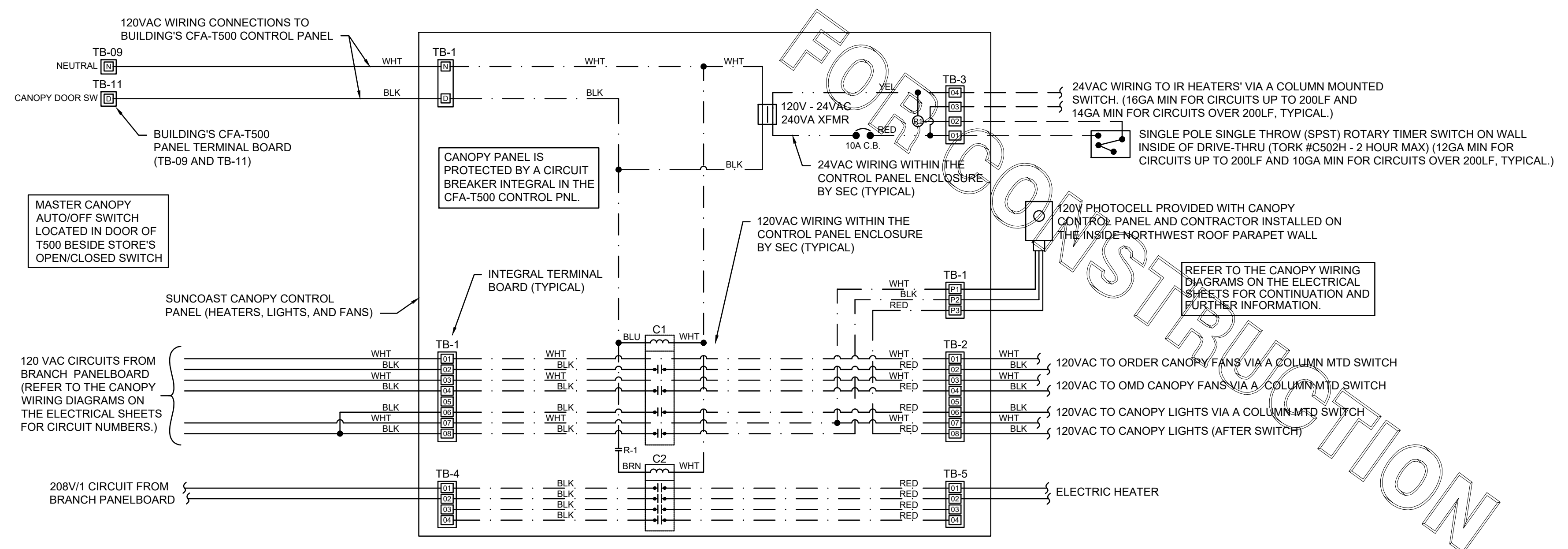
REMARKS

- ALUMINUM PADDLE WITH STEEL HUB/SPIDER PROPELLER.
- 360° ROTATING HEAD HORIZONTALLY AND VERTICALLY.
- OSHA COMPLIANT DOUBLE LOCKING, COATED STEEL WIRE GUARD
- 3-SPEED, TOTALLY ENCLOSED, PERMANENTLY LUBRICATED BALL BEARING MOTOR.
- FACTORY PRE-WIPED POWER CORD.
- PROVIDE FACTORY WALL MOUNTING BRACKET. SEE FAN MOUNTING DETAIL ON CANOPY SHOP DRAWINGS FOR TYPICAL INSTALLATION INSTRUCTIONS.
- 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.
- REMOVE PULL CHAIN EXTENSION AT ON/OFF SWITCH IN FIELD.
- FACTORY CERTIFIED FOR OUTDOOR INSTALLATION.

NATIONAL ACCOUNTS

- 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.

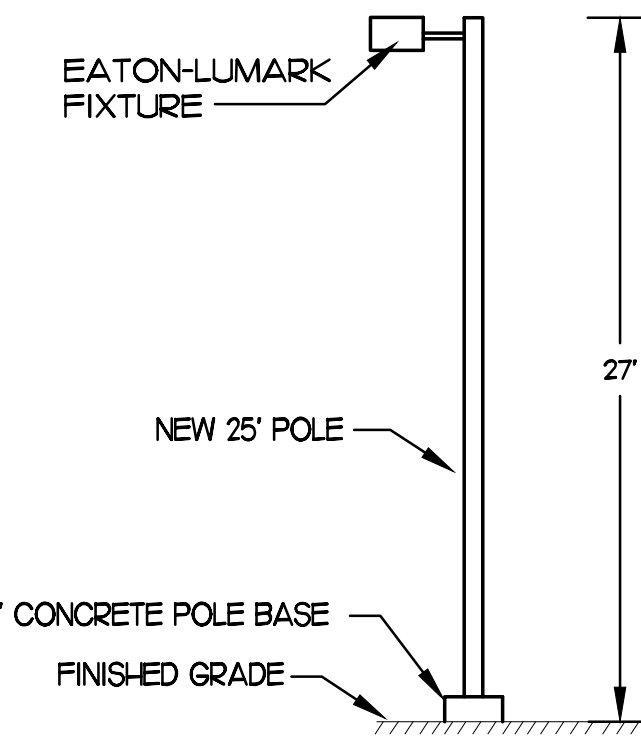
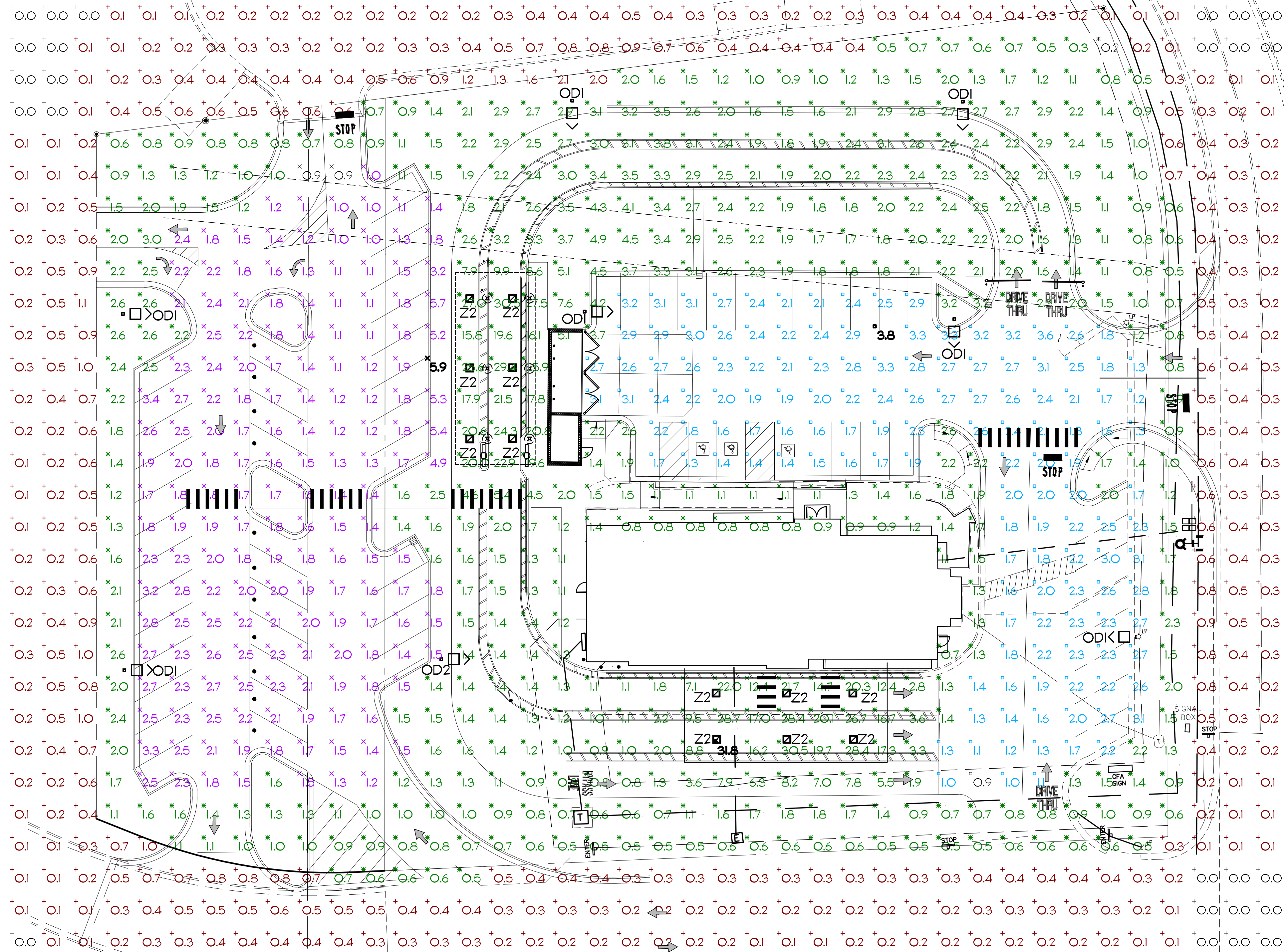
FOR CONSTRUCTION



SUNCOAST PANEL WIRING DIAGRAM - HEATERS, COOLING FANS
NO SCALE
CONNECTING WITH A NEW OR REPLACEMENT CFA-T500 CONTROL PANEL

E
D
C
B
A

W. BANKHEAD HWY.



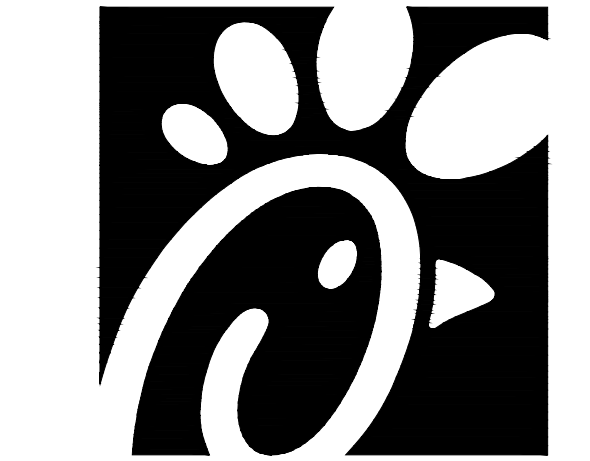
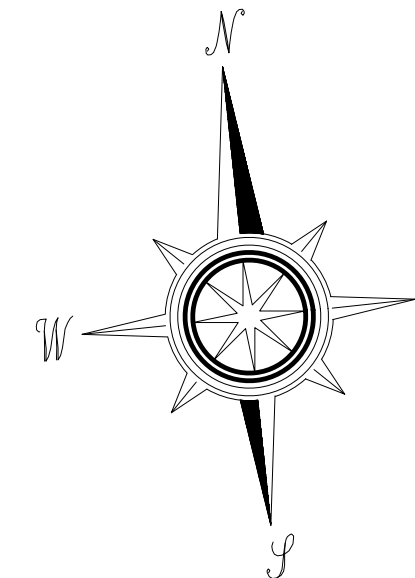
2 SITE LIGHTING POLE DETAIL
NOT TO SCALE

Symbol	Label	QTY	Manufacturer	Catalog Number	Number Lamps	Lumens per Lamp	LLF	Wattage
⌢	OD1	7	EATON-LUMARK (FORMER COOPER)	PRV-C60-D-UNV-T4-BZ	2	9993	0.95	153
⌢	OD2	1	EATON-LUMARK (FORMER COOPER)	PRV-C60-D-UNV-T5-BZ	2	10678	0.95	153
⊠	Z2	12	LSI INDUSTRIES, INC	CRUS-SC-LED-LW-30	1	9219	0.95	74

OD POLES SHALL BE 25" SQUARE STRAIGHT STEEL POLES BY KW INDUSTRIES: SSP25-4.0-7-BRZ-DM10/2180-BC. MOUNT POLES ON A 2" CONCRETE POLE BASE. POLES AND LIGHTING FIXTURES TO HAVE A DARK BROWN FINISH.

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	+	2.1 fc	31.8 fc	0.0 fc	N/A	N/A
Lot Summary	*	2.9 fc	31.8 fc	0.2 fc	159.0:1	14.5:1
Parking Lot Summary	□	2.2 fc	3.8 fc	0.9 fc	4.2:1	2.4:1
Parking Lot Summary	×	1.9 fc	5.9 fc	0.9 fc	6.6:1	2.1:1

1 PHOTOMETRIC PLAN
SCALE: 1"=20'-0"



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CHICK-FIL-A
Villa Rica
85 Commerce Drive
Villa Rica, GA

FSR#2111

BUILDING TYPE / SIZE: S06-C
RELEASE:

REVISION SCHEDULE
NO. DATE DESCRIPTION

CONSULTANT PROJECT # 23145.HF.R
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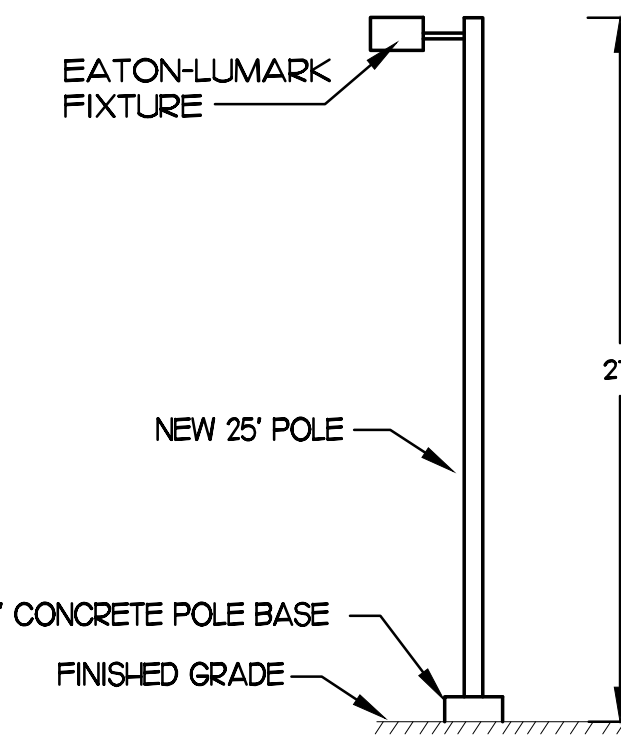
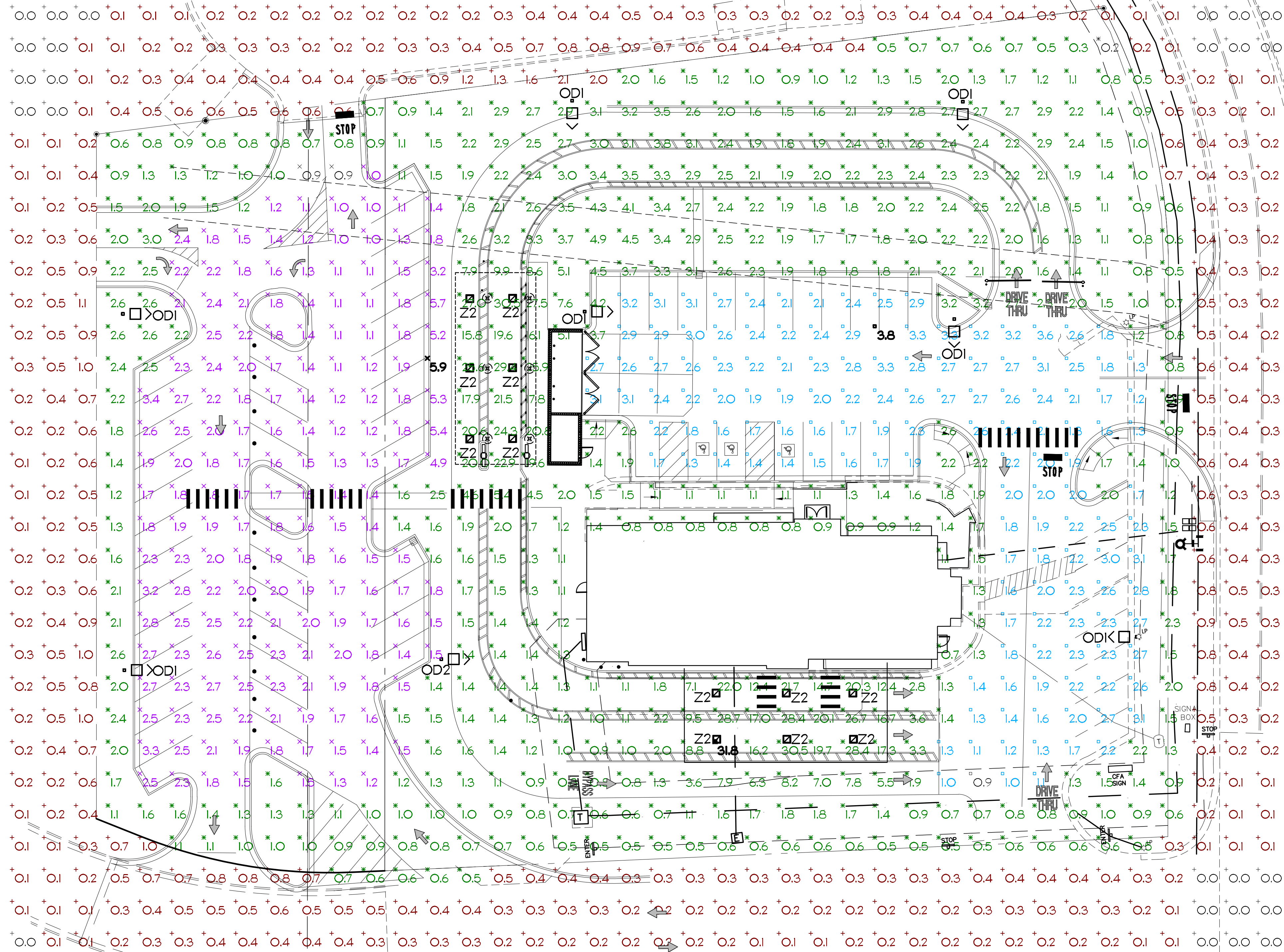
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PHOTOMETRIC PLAN

SHEET NUMBER

E1.5

W. BANKHEAD HWY.



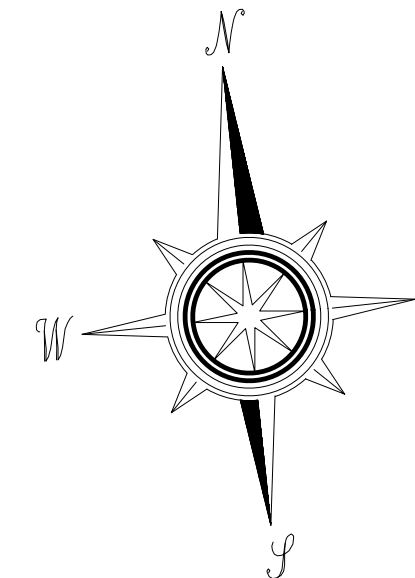
2 SITE LIGHTING POLE DETAIL
NOT TO SCALE

Symbol	Label	QTY	Manufacturer	Catalog Number	Number Lamps	Lumens per Lamp	LLF	Wattage
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⌢	OD2	1	EATON-LUMARK (FORMER COOPER)	PRV-C60-D-UNV-T5-BZ	2	10678	0.95	153
⊠	Z2	12	LSI INDUSTRIES, INC	CRUS-SC-LED-LW-30	1	9219	0.95	74

OD POLES SHALL BE 25" SQUARE STRAIGHT STEEL POLES BY KW INDUSTRIES: SSP25-4.0-7-BRZ-DM10/2180-BC. MOUNT POLES ON A 2" CONCRETE POLE BASE. POLES AND LIGHTING FIXTURES TO HAVE A DARK BROWN FINISH.

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Calc Zone #1	+	2.1 fc	31.8 fc	0.0 fc	N/A	N/A
Lot Summary	*	2.9 fc	31.8 fc	0.2 fc	159.0:1	14.5:1
Parking Lot Summary	□	2.2 fc	3.8 fc	0.9 fc	4.2:1	2.4:1
Parking Lot Summary	×	1.9 fc	5.9 fc	0.9 fc	6.6:1	2.1:1

1 PHOTOMETRIC PLAN
SCALE: 1"=20'-0"



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CHICK-FIL-A
Villa Rica
85 Commerce Drive
Villa Rica, GA

FSR#2111
BUILDING TYPE / SIZE: S06-C
RELEASE:

REVISION SCHEDULE
NO. DATE DESCRIPTION

CONSULTANT PROJECT # 23145.HF.R
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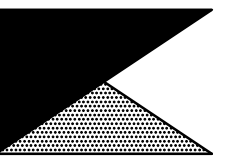
PHOTOMETRIC PLAN

SHEET NUMBER

E1.5



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CHICK-FIL-A
VILLA RICA
85 COMMERCE DR.
VILLA RICA, GA 30180

FSR#02111

BUILDING TYPE / SIZE: S06C
RELEASE: v04.23

REVISION SCHEDULE
NO. DATE DESCRIPTION

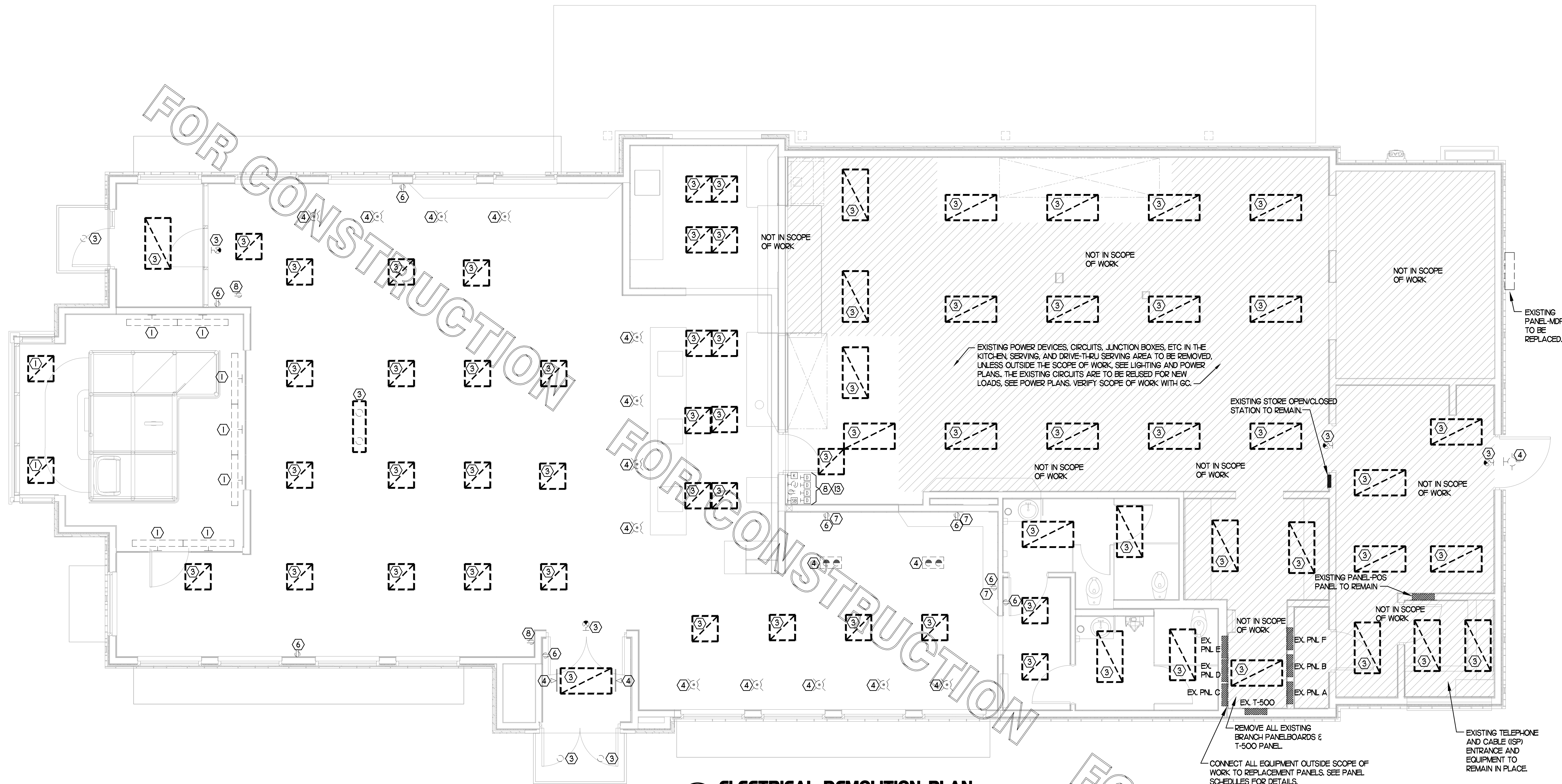
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SHEET ELECTRICAL DEMOLITION PLAN

SHEET NUMBER

E2.0



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

2 KEYNOTES (APPLY TO THIS SHEET ONLY)

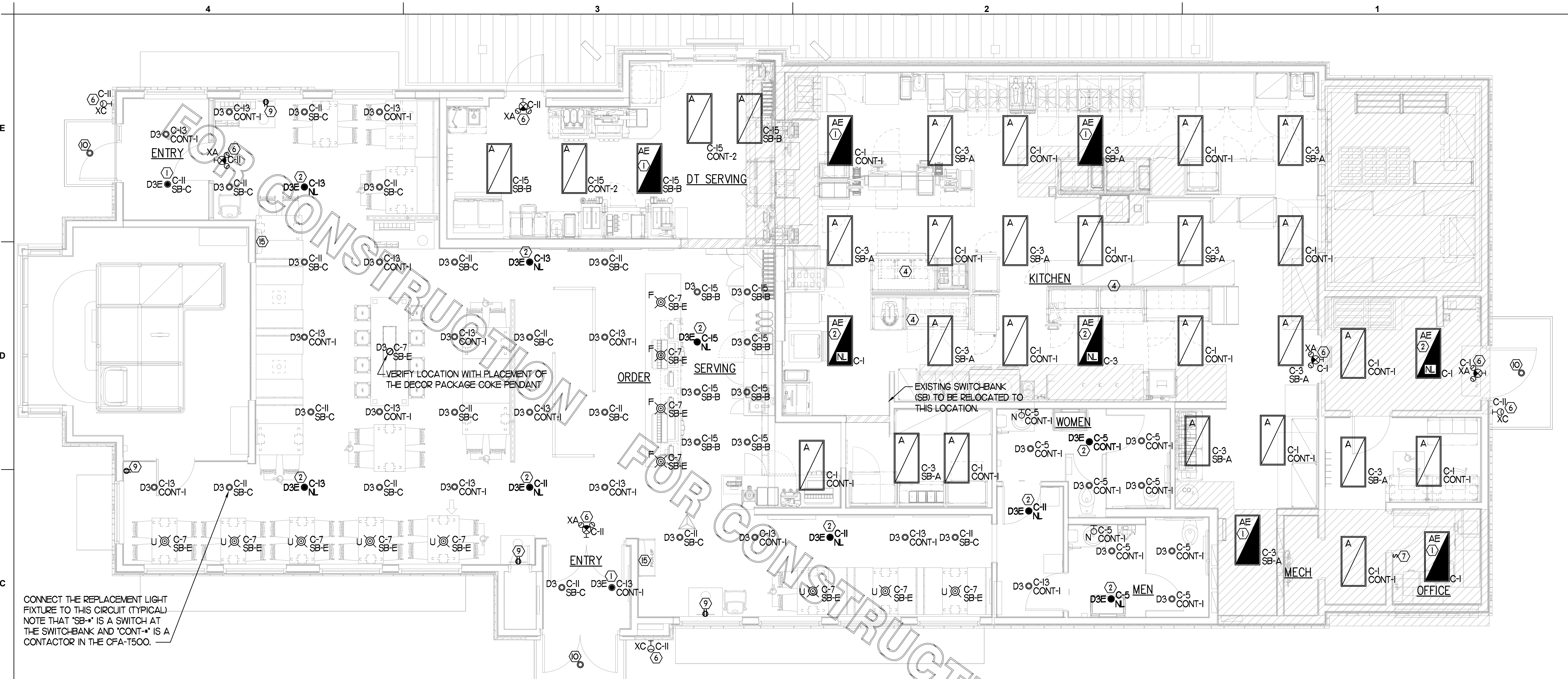
- 1 EXISTING LIGHTING FIXTURE TO REMAIN. CLEAN AND RELAMP THE FIXTURE AND RECONNECT TO THE EXISTING BRANCH CIRCUIT.
- 2 EXISTING LIGHTING FIXTURE TO BE RELOCATED. SEE LIGHTING PLAN FOR NEW LOCATION.
- 3 EXISTING LIGHTING FIXTURE TO BE REMOVED AND REPLACED. SEE THE LIGHTING FLOOR PLAN.
- 4 EXISTING LIGHTING 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 RELOCATE EXISTING ELECTRICAL ITEMS AS NECESSARY TO NEWLY FURRED OUT WALL AND REPLACE WITH TAMPER-RESISTANT USB CHARGING TYPE DEVICE.
- 8 EXISTING ELECTRICAL ITEMS TO BE REMOVED AND/OR RELOCATED. SEE THE POWER PLAN FOR REUSE OF THE EXISTING CIRCUITS.
- 9 DISCONNECT POWER TO EXISTING BUILDING SIGN.
- 10 REMOVE EXISTING SOFFIT RECEPTACLE.
- 11 DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL ASSOCIATED WITH WALK IN COOLER/FREEZER.
- 12 REMOVE ALL EXISTING ELECTRICAL IN LOFT ABOVE WALK IN COOLERS, LIGHTS, RECEPTACLES, ETC.
- 13 SEE SHEETS E21 & E22 FOR NEW LOCATIONS OF EXISTING SWITCH-BANK AND SECURITY KEYPADS.
- 14 NOT USED.

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

FOR CONSTRUCTION

FOR CONSTRUCTION



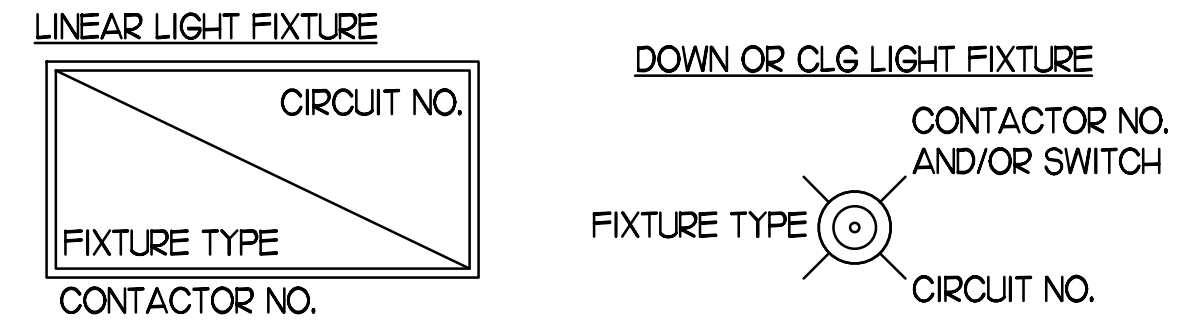
CONNECT THE REPLACEMENT LIGHT FIXTURE TO THIS CIRCUIT (TYPICAL) NOTE THAT "SB-*" IS A SWITCH AT THE SWITCH-BANK AND "CONT-*" IS A CONTACTOR IN THE CFA-1500.

VERIFY LOCATION WITH PLACEMENT OF THE DECOR PACKAGE COKE PENDANT

EXISTING SWITCH-BANK (SB) TO BE RELOCATED TO THIS LOCATION.

3 KEYNOTES (APPLY TO THIS SHEET ONLY)

1. CONNECT FIXTURE SO THAT BATTERY PACK IS NOT SWITCHED WITH LIGHTS, BUT ALL LAMPS ARE SWITCHED.
2. CONNECT FIXTURE SO THAT LAMP AND EMERGENCY BATTERY PACK ARE NOT SWITCHED. 'NL' ADJACENT TO FIXTURE INDICATES THAT FIXTURE SHALL BE ON 24 HOURS.
3. THE EXISTING EXTERIOR WALL-MOUNTED FIXTURE TO BE REPLACED. CONNECT REPLACEMENT TO THE EXISTING CIRCUIT.
4. 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.
5. PROVIDE 20A, 120V TAMPER-RESISTANT, USB CHARGING TYPE DUPLEX RECEPTACLE OUTLETS (ARROW-HART #TR7756-B) IN THE DINING AREA AND REPLACE THE EXISTING DINING AREA DUPLEX RECEPTACLES WITH THIS TYPE. CONNECT THE NEW DEVICES TO B-29 (20A) UNLESS OTHERWISE NOTED.
6. CONNECT FIXTURE TO CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS. THIS FIXTURE SHALL NOT BE SWITCHED.
7. PROVIDE A WALL SWITCH LINE VOLTAGE OCCUPANCY SENSOR EQUIVALENT TO SENSOR SWITCH #WSD-WH.
8. 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 FREEZERS WALL. LED LIGHT FURNISHED WITH THE UNIT BY THE EQUIPMENT SUPPLIER.
9. PROVIDE TAMPER-RESISTANT DUPLEX RECEPTACLE AT STANDARD HEIGHT FOR FUTURE COMPACTING TRASH CAN ON A DEDICATED 20 AMP CIRCUIT. USE CIRCUITS C-8, C-10, AND C-14.
10. CONNECT THE INTEGRAL CANOPY FIXTURE TO C-12 VIA THE EXISTING DUSK-TO-DAWN CIRCUIT IN THE CFA-1500.
11. CONNECT THE "OK" FIXTURE TO C-12 VIA THE EXISTING DUSK-TO-DAWN CIRCUIT IN THE CFA-1500.
12. COORDINATE CONNECTION OF REPLACEMENT SIGNAGE TO EXISTING CKT.
13. CONNECT FIXTURE TO EXISTING MOTION SENSOR IN ROOM.
14. 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.
15. PROVIDE SINGLE-GANG RECESSED BOX FOR DIRECT CONNECTION OF FLY LIGHT. COORDINATE MOUNTING HEIGHT AND CONNECT TO CIRCUIT B-31.



6 LIGHT FIXTURE NOMENCLATURE DETAIL

NO SCALE

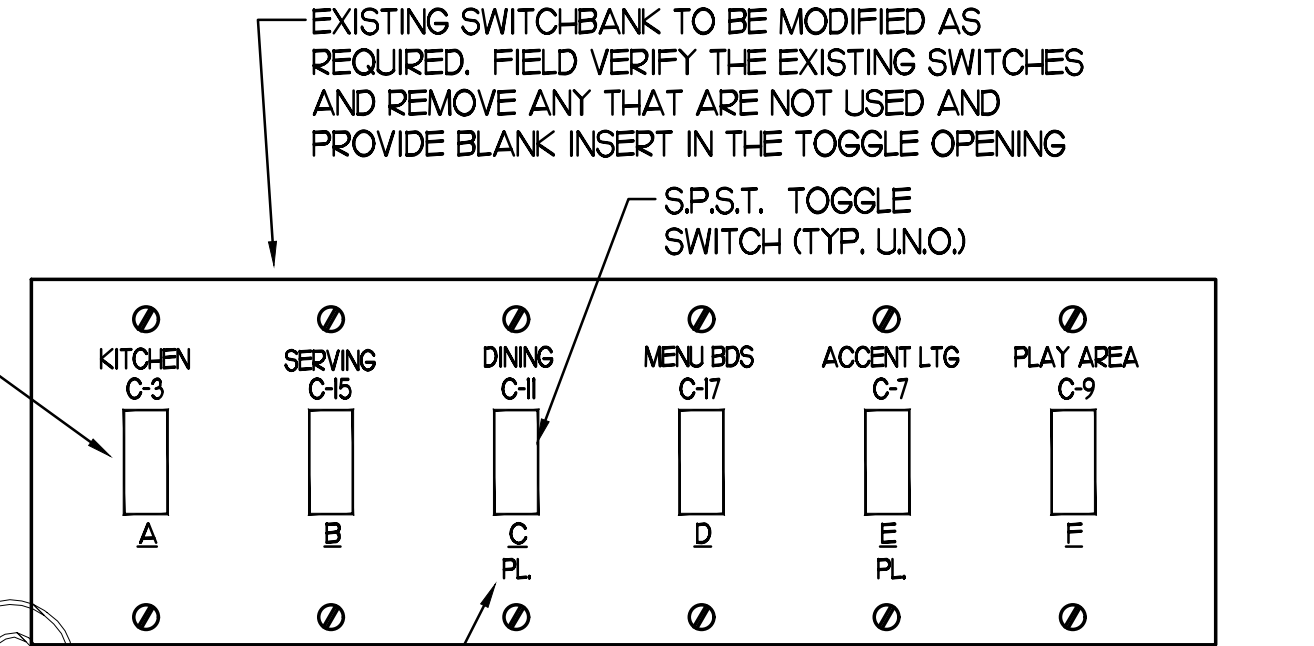
2 LIGHTING FIXTURE (LUMINAIRE) SCHEDULE - CHICK-FIL-A REMODEL STORE #2111

MARK	MANUFACTURER	CATALOG NUMBER	NO. LAMPS/TYPE	WATTS	VOLTS	MOUNTING	REMARKS
A	COOPER/METALLUX	24FP6440C	INTEGRAL WITH FIXTURE	59.4	120	RECESSED	KITCHEN AREA, 2X4' LED PANEL TROFFER, 4000K COLOR TEMP
AE	COOPER/METALLUX	24FP6440C-EL14W	INTEGRAL WITH FIXTURE	59.4	120	RECESSED	SAME AS 'A' WITH EMERGENCY BATTERY PACK. SEE PLAN NOTES ABOUT LAMP SWITCHING
BI	METALLUX	2VT3-LD5-LNV-L840-CDI-SSL-U	INTEGRAL WITH FIXTURE	32	120	SURFACE	MOUNT LIGHT TO BTM OF OVER-HEAD WIRE SHELVING WITH CORD & PLUG
D3	COOPER/HALO	HC6-20-DOIO-HM6-12-830-6I-ND-C	INTEGRAL WITH FIXTURE	211	120	RECESSED	PUBLIC AREA, 6' DIAMETER LED DOWNLIGHT
D3E	COOPER/HALO	HC6-20-DOIO-HEM14-HM6-12-830-6I-ND-C	INTEGRAL WITH FIXTURE	211	120	RECESSED	SAME AS 'D3' WITH EMERGENCY BATTERY PACK
F	COOPER/HALO	SLD5L6-06-9S-1E-MW-R	INTEGRAL WITH FIXTURE	8.7	120	RECESSED	ORDER AREA, 6' LED DOWNLIGHT. FIELD SELECT COLOR TEMP/DIMMABLE.
GI	COOPER/METALLUX	4SLSTP4040DD-LNV	INTEGRAL WITH FIXTURE	44	120	SURFACE	4760 LUMEN 4 FOOT LENSED LED STRIPLIGHT
N	MINKA	4531-267B	LEDIA19/B27/D	11	120	WALL	LAVATORY WALL SCONCE SHADE POINTED DOWN W/ LED LAMP & CL ON LAVATORY
U	BESA LIGHTING	BES00298-060	FURNISHED	7.5	120	PENDANT	MONO-POINT PENDANT, RED FRIT GLASS, BRONZE CABLE & CANOPY, 6'-6" AFF
XA	COOPER/SURE-LITES	APCH-TR	INTEGRAL WITH FIXTURE	411	120	WALL	EXIT SIGN WITH BATTERY PACK AND TWO INTEGRAL ADJUSTABLE LAMP-HEADS
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-36L-3K-DO-U-DB	FURNISHED	25	120	WALL	DOWN LED EXTERIOR WALL SCONCE. SEE ELEVATIONS FOR MOUNTING HEIGHT
OK	HUBBELL	LNC-5LU-3K-34	FURNISHED	129	120	WALL	LED WALLPACK W/ CENTERLINE OF FIXTURE AT 8'-0" ABV 0'-0" (FINISH FLOOR LINE)

NOTES:
 1. LUMINAIRES UTILIZING DOUBLE-ENDED LAMPS AND CONTAIN BALLASTS THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS EITHER INTERNAL OR EXTERNAL TO EACH LUMINAIRE PER NEC 410.10(C)(6).
 2. THE LIGHTING FIXTURE PACKAGE IS AVAILABLE THROUGH A NATIONAL ACCOUNT PROGRAM. REFER TO THE ELECTRICAL SPECIFICATIONS SHEET, SECTION C1600 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.

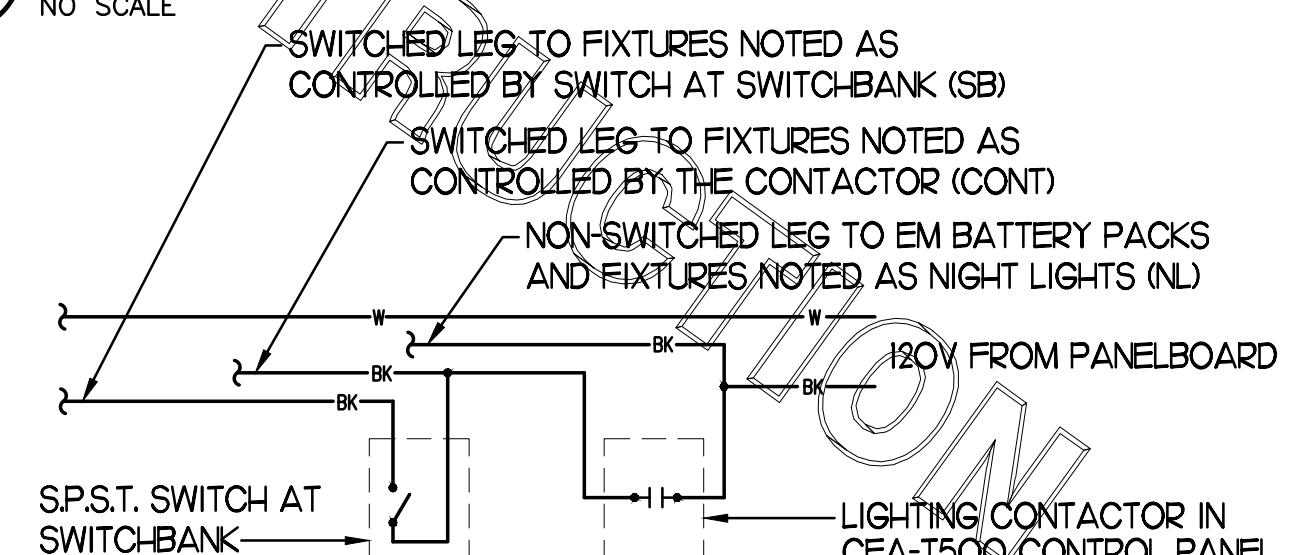
1 LIGHTING PLAN

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



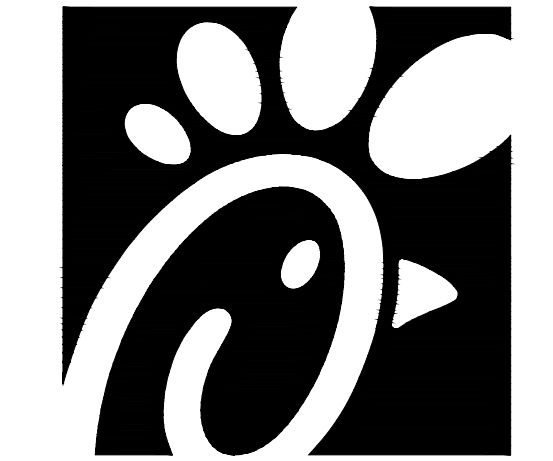
4 RELOCATED SWITCH BANK "SB" DETAIL

NO SCALE



5 TYPICAL LIGHTING CONTROL DETAIL

NO SCALE



Chick-fil-A

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 Atlanta, Georgia 30349

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 Nashville, Tennessee 37214
 Telephone: (615) 255-5203



CHICK-FIL-A
VILLA RICA
 85 COMMERCE DR.
 VILLA RICA, GA 30180

FSR#02111

BUILDING TYPE / SIZE: S06C
 RELEASE: V04.23

REVISION SCHEDULE
 NO. DATE DESCRIPTION

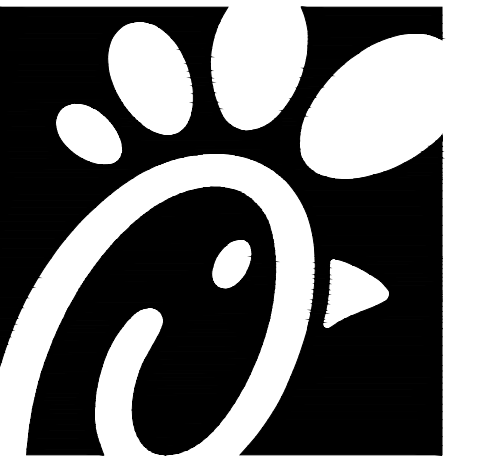
CONSULTANT PROJECT # 23145.HF.R
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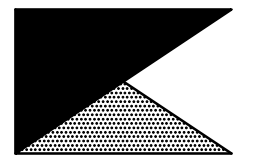
SHEET LIGHTING PLAN

SHEET NUMBER

E2.1



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BUILDING TYPE / SIZE: S06C
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SHEET LIGHTING COMCHECK

SHEET NUMBER

E5.1

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 2015 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Mark Kurzynske, P.E. _____ Signature _____ Date _____
Name - Title _____

Project Title: Chick-fil-A #2111 Report date: 12/18/23
Data filename: Page 2 of 7

COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information
Energy Code: 2015 IECC
Project Title: Chick-fil-A #2111
Project Type: Alteration

Construction Site: 85 Commerce Drive, Villa Rica, Georgia 30180
Owner/Agent: Chick-fil-A, 5200 Buffington Road, Atlanta 30349
Designer/Contractor: Kurzynske & Associates, 2705 Lebanon Pike - Suite One, Nashville 37214, 615-255-5203

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts
1-Kitchen & DT Serving (Common Space Types:Food Preparation)	2144	1.21	2594
2-Restrooms (Common Space Types:Restrooms)	278	0.98	272
3-Dining Area (Common Space Types:Dining Area - Family Restaurant)	1848	0.89	1645
4-Electrical Room (Common Space Types:Electrical/Mechanical)	173	0.95	164
5-Office (Common Space Types:Office - Enclosed)	72	1.11	80
6-Storage (Common Space Types:Storage >=1000 sq.ft.)	275	0.63	173
Total Allowed Watts =			4929

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Watt. (C X D)	E
Kitchen & DT Serving (Common Space Types: Food Preparation, 2144 sq.ft.)				
LED 1/A/E: LED Troffer: Other:	1	26	59	1544
LED 2/D3/D3E: Downlight: Other:	1	8	21	169
LED 8: Surface Light: Other:	1	4	9	36
Restrooms (Common Space Types: Restrooms, 278 sq.ft.)				
LED 2: D3/D3E: Downlight: Other:	1	9	21	190
LED 5: Vanity Sconce: Other:	1	2	11	22
Dining Area (Common Space Types: Dining Area - Family Restaurant, 1848 sq.ft.)				
LED 2: D3/D3E: Downlight: Other:	1	37	21	781
LED 9: U: Pendant: Other:	1	8	8	60
Electrical Room (Common Space Types: Electrical/Mechanical, 173 sq.ft.)				
LED: A/A/E: LED Troffer: Other:	1	3	59	178
Office (Common Space Types: Office - Enclosed, 72 sq.ft.)				
LED: A/A/E: LED Troffer: Other:	1	1	59	59
Storage (Common Space Types: Storage >=1000 sq.ft., 275 sq.ft.)				
LED: A/A/E: LED Troffer: Other:	1	5	59	297
Total Proposed Watts =			3336	

Project Title: Chick-fil-A #2111 Report date: 12/18/23
Data filename: Page 1 of 7

COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2015 IECC

Requirements: 0.0% were addressed directly in the COMcheck software. Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req. ID	Plan Review	Complies?	Comments/Assumptions
C103.2 (PR4) ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C103.2 (PR8) ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

Project Title: Chick-fil-A #2111 Report date: 12/18/23
Data filename: Page 4 of 7

COMcheck Software Version COMcheckWeb

Exterior Lighting Compliance Certificate

Project Information
Energy Code: 2015 IECC
Project Title: Chick-fil-A #2111
Project Type: Alteration
Exterior Lighting Zone: 2 (Neighborhood business district (LZ2))

Construction Site: 85 Commerce Drive, Villa Rica, Georgia 30180
Owner/Agent: Chick-fil-A, 5200 Buffington Road, Atlanta 30349
Designer/Contractor: Kurzynske & Associates, 2705 Lebanon Pike - Suite One, Nashville 37214, 615-255-5203

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Entry (Entry canopy)	3442 ft ²	0.25	Yes	860
Total Tradable Watts (a) =				860
Total Allowed Watts =				860
Total Allowed Supplemental Watts (b) =				600

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

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Watt. (C X D)	E
Entry (Entry canopy, 3442 ft²): Tradable Wattage				
LED 2: DN light: by others: LED Other Fixture Unit 13W:	1	14	74	1036
Total Tradable Proposed Watts =			1036	

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 2015 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

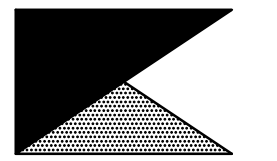
Name - Title _____ Signature _____ Date _____

Project Title: Chick-fil-A #2111 Report date: 12/18/23
Data filename: Page 3 of 7

FOR CONSTRUCTION



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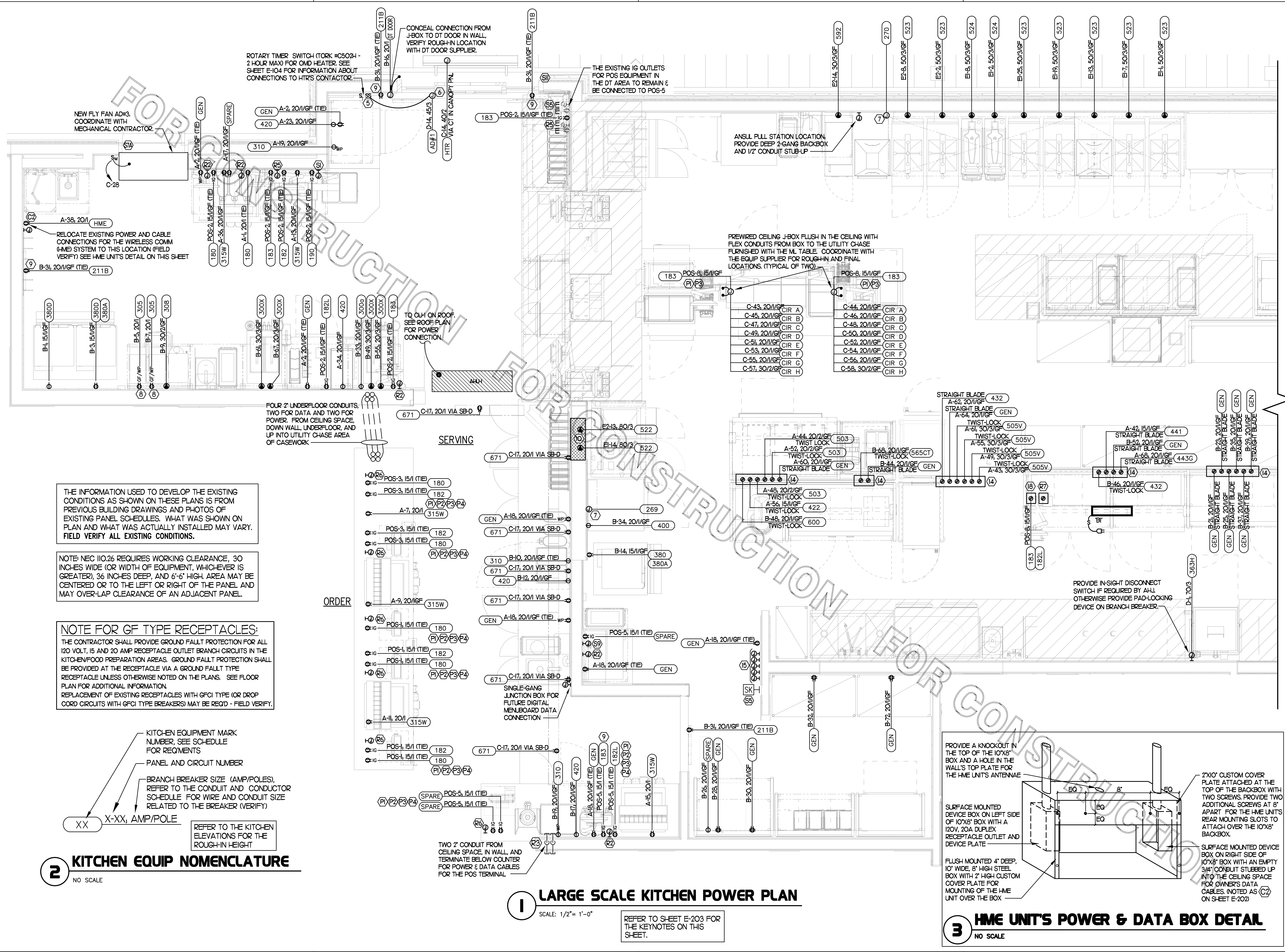
BUILDING TYPE / SIZE: S06C
 RELEASE: V04.23

REVISION SCHEDULE
 NO. DATE DESCRIPTION

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 SHEET
 LARGE SCALE KITCHEN POWER
 SHEET NUMBER

E2.2



2 KITCHEN EQUIP NOMENCLATURE
 NO SCALE

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

3 HME UNITS POWER & DATA BOX DETAIL
 NO SCALE

REFER TO SHEET E-203 FOR THE KEYNOTES ON THIS SHEET.

CONSTRUCTION

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 #340-4NS VIBRATING 4" DIAMETER BELL. BELL SHALL BE RATED AT 120 VOLTS.
- 4 CONNECT AS REQUIRED TO GY 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 UNITS SUPPLIER FOR THE ROUGH-IN REQUIREMENTS AND ANY CONTROL WIRING.
- 7 PROVIDE 3#12 IN 1/2" CONDUIT BETWEEN THE T-500 CONTROL PANEL AND THE ANSUL SYSTEM PANEL. SEE ANSUL SYSTEM WIRING DIAGRAM FOR ADDITIONAL INFORMATION.
- 8 PROVIDE GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE RECEPTACLE IN COMPLIANCE WITH THE NEC REQUIREMENT FOR KITCHENS. IF NOT NOTED AS GFCI, THEN THE BREAKER IS TO BE GFCI TYPE.
- 9 PROVIDE DUPLEX RECEPTACLE (SEE ELEVATIONS FOR MFG HT) IN AN ARLINGTON #DVF2W DOUBLE-GANG RECESSED BOX FOR THE FLY SYSTEM ITEMS. DO NOT CUT THE CORSET FURNISHED WITH THE UNIT, BUT COIL THE CORD ON THE BACK OF THE UNIT AND TUCK INTO THE BACKBOX.
- 10 THE OUTLETS FOR THE OPEN FRYERS (ITEM #522) ARE FURNISHED BY THE EXHAUST HOOD SUPPLIER AND INSTALLED BY THE CONTRACTOR.
- 11 TWO 2" TELEPHONE SERVICE ENTRANCE CONDUITS, AND ONE 3" ISP SERVICE CONDUIT. EXTEND WITH PULL STRING FROM THE J-BOX TO THE UTILITY SOURCE. INSTALL IN THE SAME TRENCH AS THE NEW SECONDARY ELECTRICAL SERVICE CONDUITS.
- 12 LOCKABLE SINGLE POLE SWITCH SHALL SERVE AS THE LOCAL "IN-SIGHT" MEANS OF DISCONNECT FOR EQUIPMENT ITEM AS NOTED. THE SWITCH SHALL BE COOPER #S2993 AND INSTALLED PER THE DETAILS ON SHEET E12.
- 13 PROVIDE TWO 6H X 6W X 4D J-BOXES (ONE FOR TELEPHONE AND ONE FOR ISP) AT 6'-6" AFF AND EXTEND A 2" CONDUIT WITH PULL STRING FROM EACH J-BOX INTO THE ACCESSIBLE CEILING SPACE. PROVIDE A 36" X 36" X 3/4" PLYWOOD BACKBOARD ON THE WALL ABOVE THE J-BOXES (AT THE CEILING) FOR USE BY THE ISP. PROVIDE A COPPER GROUND BAR AT THE BOTTOM OF THE BACKBOARD WITH A #6 AWG INSULATED CU GROUNDING CONDUCTOR IN A 3/4" FROM THE GROUND BAR TO THE BUILDING'S ELECTRICAL SERVICE GROUNDING ELECTRODE SYSTEM (GES). THE GROUND BAR SHALL HAVE TAPS FOR USE BY THE TELEPHONE AND ISP UTILITY COMPANIES AND FOR THE #6 COMMUNICATIONS GROUNDING CONDUCTOR TO THE GES. PROVIDE A 15 AMP ISOLATED GROUND (IG) ORANGE-FACED DUPLEX RECEPTACLE IN THE WALL BESIDE THE BACKBOARD. CONNECT TO CIRCUIT POS-12 (5A/1P BRANCH BREAKER), AND LABEL THE RECEPTACLE "FOR FIBER TO CABLE MODEM USE ONLY".
- 14 OVER-HEAD EQUIPMENT POWER (OEP) DROP CORD RECEPTACLES FROM A FLUSH MOUNTED CEILING OEP BOX. PROVIDE A C-S OEP ASSEMBLY #2360-1000. ASSEMBLY WILL CONSIST OF A FLUSH CEILING OUTLET BOX, TWIST-LOCK PENDANT RECEPTACLES, STRAIGHT BLADE PENDANT RECEPTACLES, CORDS, STRAIN RELIEF, AND TWIST-LOCK PLUGS. CONTACT BRIDGID DEFRANCESI 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 & SET/MOUR MODEL #FS075-U-GH5 OR EQUIVALENT.
- 15 PROVIDE FIVE 2-GANG DEEP BOXES (2" MIN) FOR INSTALLATION OF DUCT DETECTOR REMOTE ANNUNCIATORS BY MECHANICAL. THE DUCT SMOKE REMOTE ANNUNCIATORS ARE PROVIDED TO THE ELECTRICIAN WITH THE SUNCOAST ELECTRONICS PACKAGE OF GEAR AND CONTROLS. EXTEND 1/2" CONDUIT FROM EACH BOX AND STUB ABOVE CEILING.
- 16 PROVIDE A 120V CONNECTION TO THE 50VA MOTORIZED DAMPER IN THE DUCTWORK SERVING THE SERVICE AREA. COORDINATE WITH MECHANICAL CONTRACTOR.
- 17 PROVIDE GFCI PROTECTION FOR DISHWASHER #363H USING LITTELFUSE SHOCK BLOCK CFCI PRODUCT SB5060-021-0. COORDINATE MOUNTING OF THE DEVICE ABOVE PANELBOARD.
- 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 IG (ORANGE) RECEPTACLE OUTLETS. OUTLET BOX TO BE MOUNTED TO THE OVER-HEAD SHELVING AT THE PRINTER AND MONITOR MOUNTING BRACKET.
- 19 VERIFY EXISTING ELECTRICAL REQUIREMENTS IN OUT-OF-SCOPE AREAS AND CONNECT ALL EXISTING ELECTRICAL DEVICES/EQUIPMENT TO NEW ELECTRICAL PANELS.

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 RETROFIT STYLE DOUBLE-GANG RINGS (CARLON #SC200RR) WITH STAINLESS STEEL COVER PLATE AND HOLE IN PLATE FOR EXISTING AUDIO, DETECTOR LOOP. PROVIDE 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:

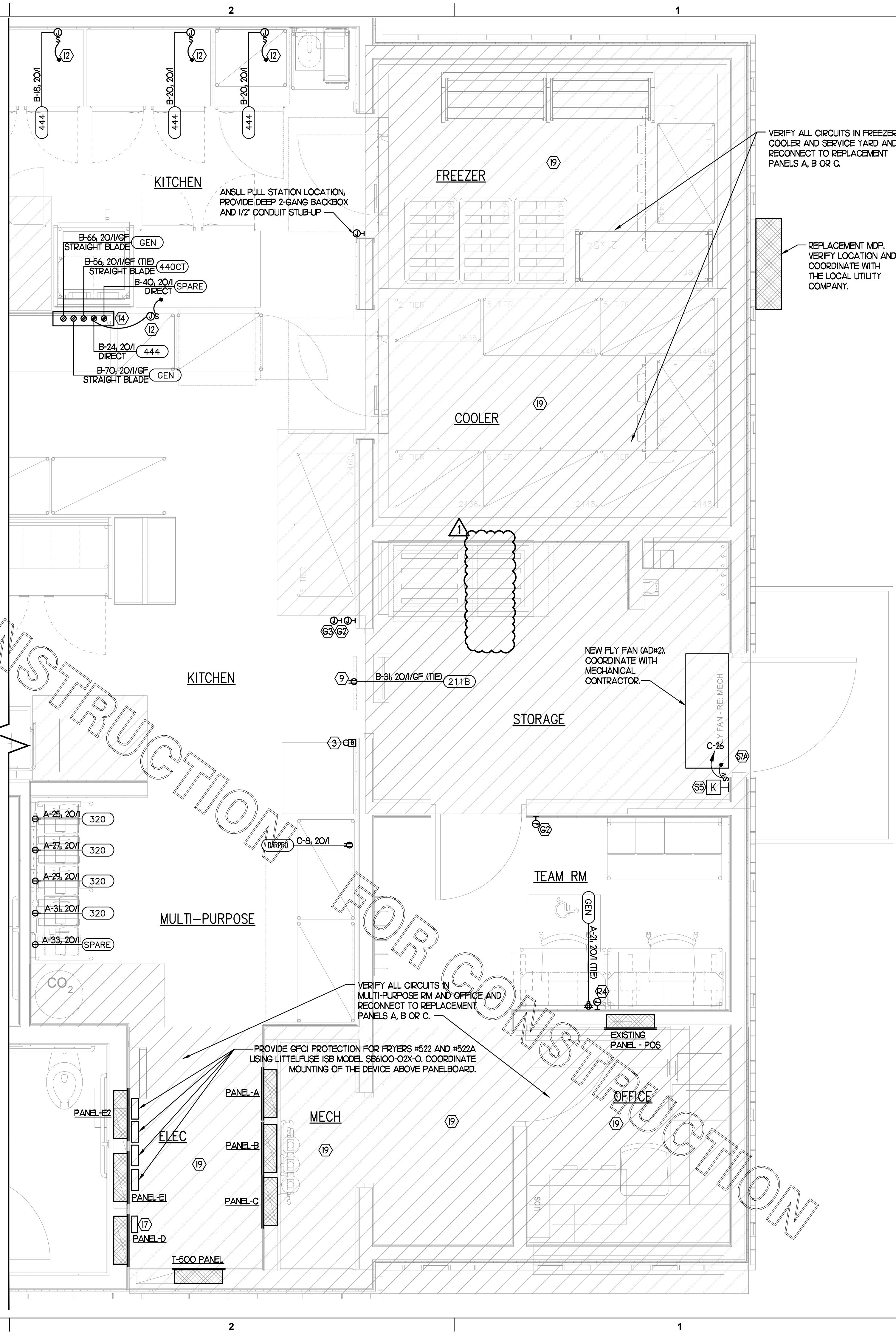
- 1 PROVIDE SINGLE GANG JUNCTION BOX AND STAINLESS STEEL COVER PLATE WITH 7/8" HOLE IN CENTER. EXTEND 1" E.C. UP IN WALL TO ABOVE ACCESSIBLE CEILING.
- 2 PROVIDE 4W X 4H X 3D FLUSH JUNCTION BOX WITHOUT COVERPLATE. EXTEND 2" RIGID CONDUIT UP TO ABOVE ACCESSIBLE OFFICE CEILING AREA AND PROVIDE BUSHING ON CONDUIT END.
- 3 PROVIDE A 4W X 4H X 3" D JUNCTION BOX WITHOUT COVERPLATE AND EXTEND A 2" CONDUIT DOWN AND BELOW GRADE TO EACH OF THE SITES 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 WEATHER-PROOF JUNCTION BOX AND STAINLESS STEEL COVER 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 WIG/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 62.
- 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.

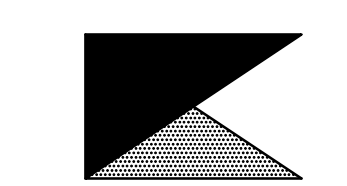
7 KEY NOTES - POS SYSTEM:

- 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.



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VILLA RICA, GA 30180

FSR#02111

BUILDING TYPE / SIZE: S06C
RELEASE: v04.23

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
1	01/04/24	Construction Coordination

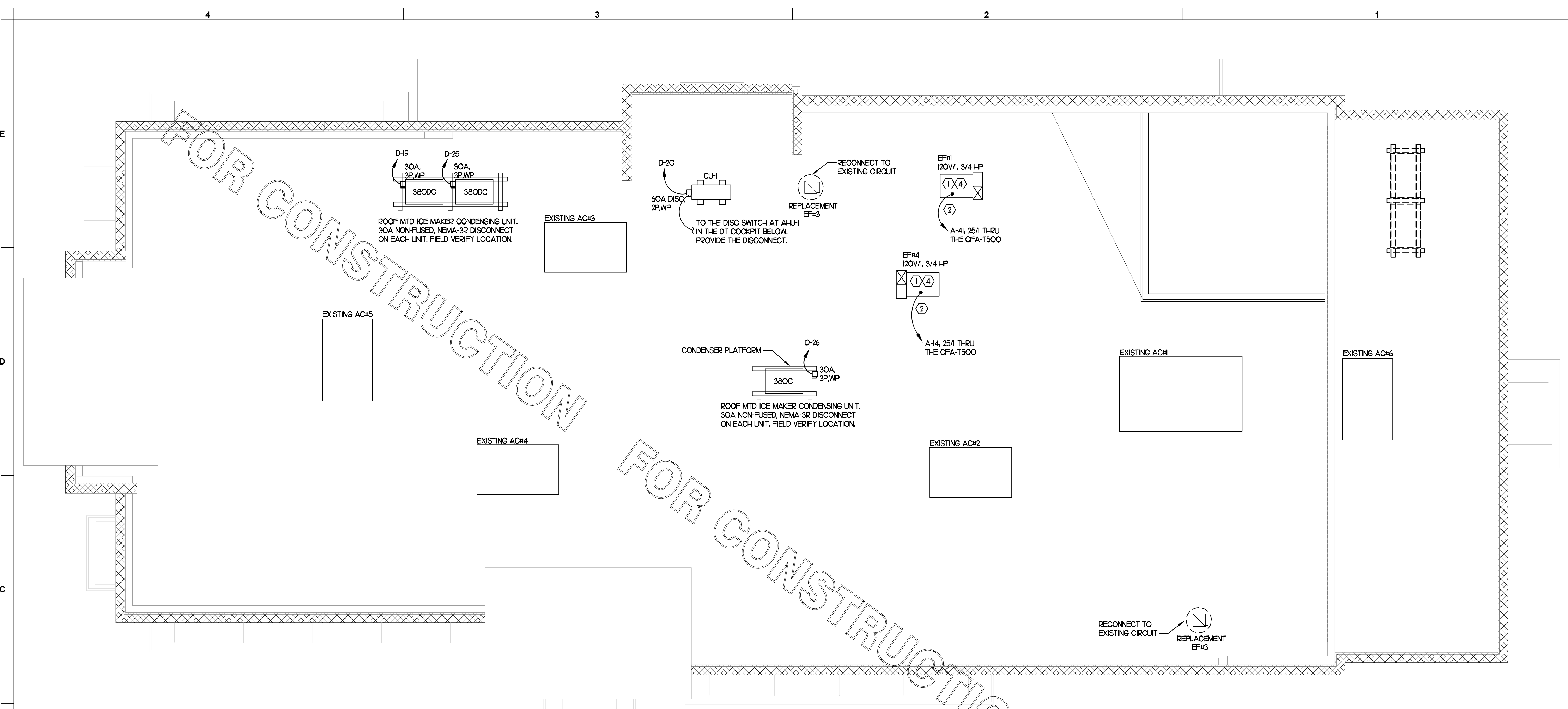
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SHEET
LARGE SCALE POWER PLAN

SHEET NUMBER

E2.3



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 BUILDING TYPE / SIZE: S06C
 RELEASE: v04.23

REVISION SCHEDULE

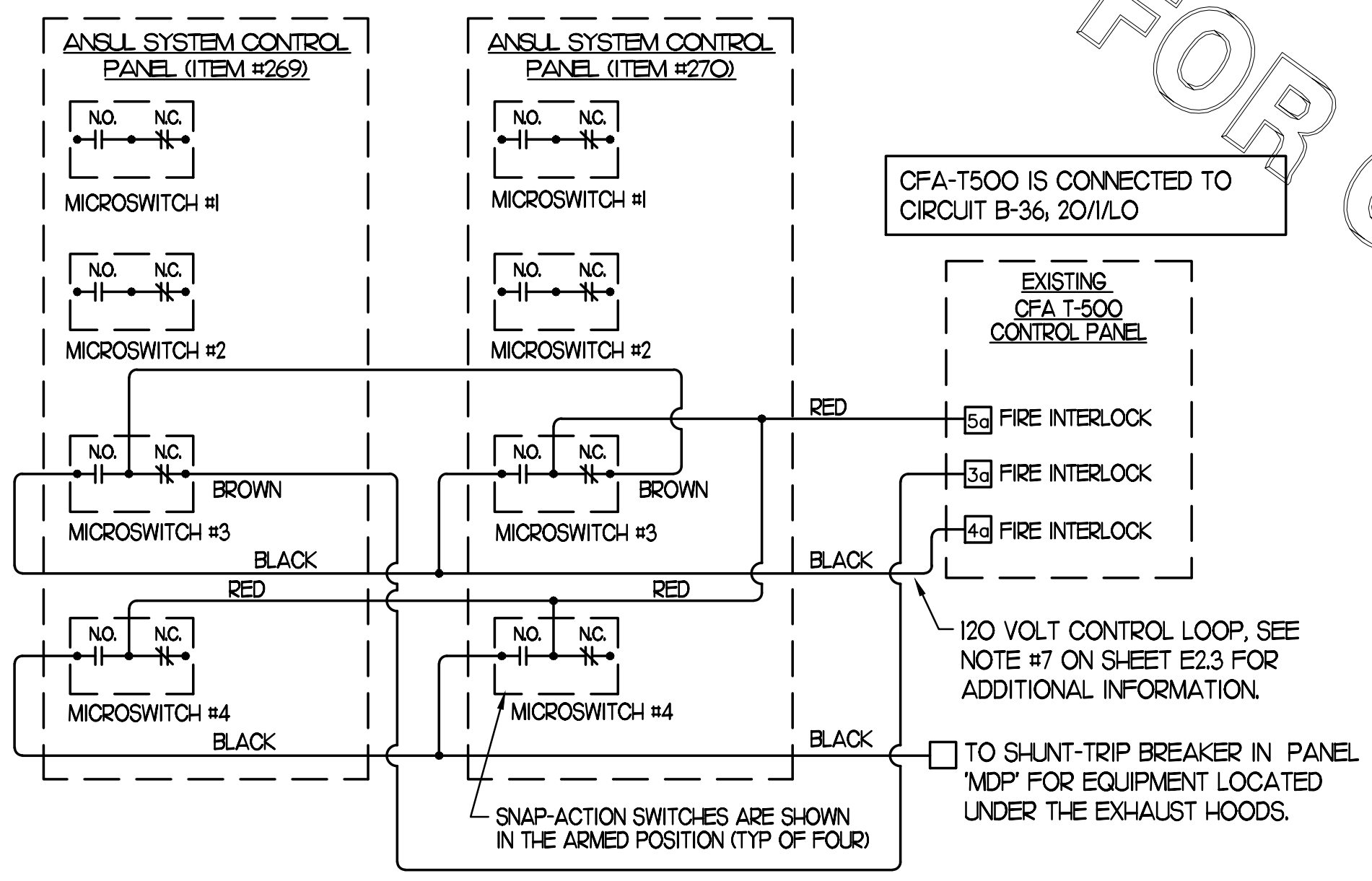
NO.	DATE	DESCRIPTION

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 SHEET
ROOF POWER PLAN
 SHEET NUMBER

E2.4

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



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

2 KEYNOTES (APPLY TO THIS SHEET ONLY)

- CONNECT EF#1, EF#2, AND 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 UNITS COMPRESSOR CONTACTOR TO THE EVAPORATOR COIL UNITS JUNCTION BOX BELOW. REFER TO E2.2 & E2.3 FOR LOCATION.
- CONVENIENCE OUTLET SUPPLIED WITH UNIT. PROVIDE POWER THROUGH CIRCUIT B-25. VERIFY CIRCUIT NUMBER.
- CONVENIENCE OUTLET SUPPLIED WITH UNIT AND UNIT POWERED.
- MOUNT DISCONNECT SWITCHES FOR WIC AND WIF CONDENSERS ON UNISTRUT WITH CONDUIT DOWN INTO CEILING SPACE BELOW THRU ROOF PENETRATION DEVICE (NOT THRU ROOF). PROVIDE FUSE SIZE PER MANUFACTURER REQUIREMENTS.

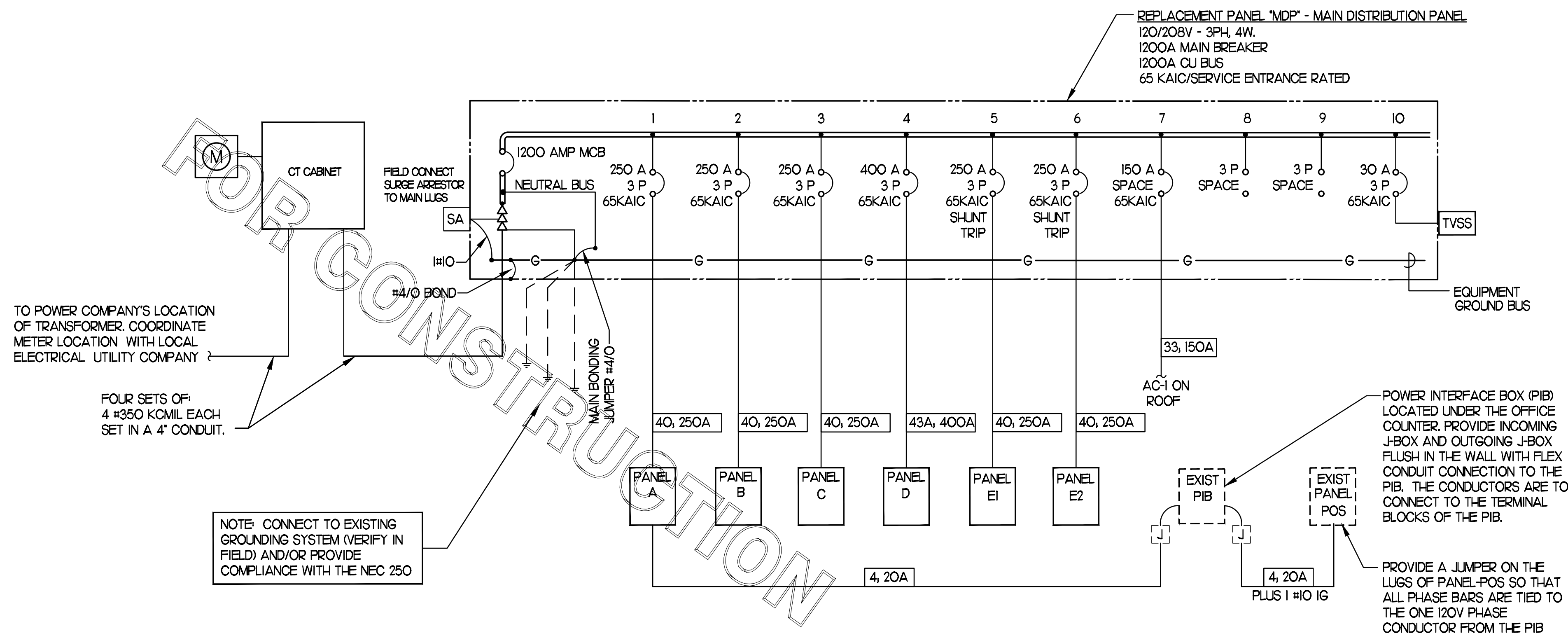
4 CFA-T500 CONTROL PANEL CONNECTION DIAGRAM
 NOT TO SCALE

CIR C-1	CONTACTOR-1 30A 4-POLE	KITCHEN LTG	SPARE	CONTACTOR-6 30A 4-POLE	SPARE
CIR C-3	120 VOLT COIL (STORE SWITCH ON AND OFF)	KITCHEN LTG	SPARE	120 VOLT COIL (P/CELL/TC ON & SWITCH OFF)	SPARE
CIR C-5	SPARE	RESTROOM LTG & EF-3	SPARE	SPARE	SPARE
CIR C-7	SPARE	SPARE	SPARE	SPARE	SPARE
CIR C-9	CONTACTOR-2 30A 4-POLE	ACCENT LTG	SPARE	CONTACTOR-7 30A 4-POLE	SPARE
CIR C-11	120 VOLT COIL (STORE SWITCH ON AND OFF)	DINING LTG	SPARE	120 VOLT COIL (P/CELL/TC ON & SWITCH OFF)	SPARE
CIR C-13	SPARE	DINING LTG	SPARE	SPARE	SPARE
CIR C-15	SPARE	SERVING LTG	SPARE	SPARE	SPARE
CIR C-2	CONTACTOR-3 30A 4-POLE	BLDG. SIGNAGE	CIR A-62	CONTACTOR-8 30A 4-POLE	RECIRCULATING PUMP
CIR C-4	120 VOLT COIL (P/CELL ON AND SWITCH OFF)	BLDG. SIGNAGE	CIR C-38	120 VOLT COIL (STORE SWITCH ON AND OFF)	DT MEN/BOARDS
SPARE	SPARE	SPARE	SPARE	SPARE	SPARE
SPARE	SPARE	SPARE	SPARE	SPARE	SPARE
CIR C-37	CONTACTOR-4 30A 4-POLE	MAIN ID SIGN	CIR C-12	CONTACTOR-9 30A 4-POLE	SEC/FLAGPOLE LTG
CIR C-39	120 VOLT COIL (P/CELL ON AND SWITCH OFF)	MAIN ID SIGN	SPARE	120 VOLT COIL (PHOTOCELL ON AND OFF)	SPARE
CIR C-41	SPARE	MAIN ID SIGN	SPARE	SPARE	SPARE
CIR C-19	SPARE	DIRECTIONAL SIGNS	SPARE	SPARE	SPARE
CIR C-18	CONTACTOR-5 30A 4-POLE	EXT. BLDG LIGHTING	CIR A-41	CONTACTOR-10 30A 4-POLE	EXHAUST FAN EF-1
CIR C-20	120 VOLT COIL (P/CELL ON AND SWITCH OFF)	EXT. BLDG LIGHTING	CIR A-14	120 VOLT COIL (SWITCH ON & OFF, ANSUL ON)	EXHAUST FAN EF-2
CIR C-22	SPARE	EXT. BLDG LIGHTING	SPARE	SPARE	SPARE
CIR C-24	SPARE	EXT. BLDG LIGHTING	SPARE	SPARE	SPARE
NOTES:			CIR A-4	CONTACTOR-11 30A 4-POLE	CAPTURE JET (C.J) FANS
(1) VERIFY WITH SUNCOAST ENVIRONMENTAL CONTROLS' SHOP DRAWINGS			SPARE	120 VOLT COIL (SWITCH ON & OFF, ANSUL OFF)	SPARE
(2) ONLY THE "HOT" CONDUCTOR OF EACH CIRCUIT SHALL BE RUN THRU THE CONTACTOR.			SPARE	SPARE	SPARE
(3) ANY TAPS OR WIRING CONNECTIONS OTHER THAN TO THE TERMINALS SHALL BE DONE IN A JUNCTION BOX OUTSIDE OF THIS CABINET.			SPARE	SPARE	SPARE

3 ANSUL SYSTEM PANEL WIRING DIAGRAM
 NOT TO SCALE

REPLACEMENT PANEL-A														
PANELBOARD DESCRIPTION				BREAKER OPTIONS				LOADS						
PANELBOARD NAME: A				ARC-FAULT: AF				KVA PHASE A 29.84						
MANUFACTURER / TYPE: SQ-D / N00D				GROUND FAULT: GF				KVA PHASE B 28.05						
VOLTS: 208 / 120				HADR: HA				KVA PHASE C 29.89						
PHASE / WIRE: 3 / 4				HID LIT RATED: HD				AMPS PHASE A 243.7						
MAIN TYPE / CU BUS AMPS: MLO / 250 AMP				HIGH MAG LOAD: HM				AMPS PHASE B 233.8						
AC SERIES RATING: 65/10KA				ISOLATED GROUND: IG				AMPS PHASE C 249						
MOUNTING: FLUSH				LOCK-ON: LO				KVA CONNECTED 87.77						
NEAR RATING: 1				SHUNT TRIP: ST				KVA DIVERSIFIED 68.24						
QUANTITY OF SECTIONS: 1				SWITCH RATED: SW				AMPS CONNECTED 243.6						
								AMPS DIVERSIFIED 189.4						
PHI	CR	LOAD	EO	LOAD	LOAD	CR	LOAD	LOAD	LOAD	CR	LOAD	LOAD	PHI	
Notes	NO.	DESCRIPTION	NO.	TYPE	KVA	%P/O	KVA	TYPE	NO.	DESCRIPTION	NO.	TYPE	NO.	
1	R	TELEPHONE DT VIDEO	190	R	0.360	20/1	A	20/1/GF	0.720	R	GEN OUTLETS	2	A	
3	R	OFFICE GEN & MUSIC	0.720	R	0.720	20/1	B	20/1/GF	1.000	M1	CAPTURE JET FANS	4	A	
5	R	OFFICE GEN & PRINTER	0.900	R	0.900	20/1	C	20/1/GF	0.600	R	JUICER STATION	6	A	
A	K	SODA DISPENSER	315W	K	1.200	20/1/GF	A	20/1	1.440	MS	WATER HEATER	8	A	
A	K	SODA DISPENSER	315W	K	1.200	20/1/GF	B	20/1/GF	1.440	MS	POS PANEL (THRU UPS)	10	A	
A	K	SODA DISPENSER	315W	K	1.200	20/1/GF	C	20/1	1.440	R	EX. PLAY AREA OUTLET	12	A	
A	K	SODA DISPENSER	315W	K	1.200	20/1/GF	A	25/1	1.656	M1	EF#4	14	A	
A	K	SODA DISPENSER	315W	K	1.200	20/1/GF	B	20/1/L0	0.540	R	SECURITY SYSTEM	16	A	
A	K	OUTLET FOR FUTURE DISP	K	1.200	20/1/GF	C	20/1/GF	1.080	R	GEN OUTLETS	18	A		
A	R	19' GEN OUTLET	R	0.180	20/1/GF	A	20/1	1.258	X		20	A		
A	R	21 TRAINING DESK OUTLET	R	0.360	20/1/GF	B	15/3/L0	1.258	X	449	WALK-IN COOLER	22	A	
A	X	23 U.C. REFRIGERATOR	420	X	0.564	20/1/GF	C	20/1	1.140	X		24	A	
A	K	CARBONATOR	320	K	0.744	20/1	A	20/1/GF	1.956	X		26	A	
A	K	CARBONATOR	320	K	0.744	20/1	B	35/3/L0	2.221	X	410	WALK-IN FREEZER	28	A
A	K	CARBONATOR	320	K	0.744	20/1	C	20/1	2.221	X		30	A	
A	K	CARBONATOR	320	K	0.744	20/1	A	20/1/GF	0.500	HT	FREEZER HEAT TAPE	32	B	
A	K	CARBONATOR	320	K	0.744	20/1	B	20/1/GF	0.564	X	420	U.C. REFRIGERATOR	34	A
A	K	CARBONATOR	320	K	0.744	20/1	C	20/1/GF	1.200	K	315W	SODA DISPENSER	36	A
A	K	EX. BOOSTER PUMP	MT	1.440	20/2	A	20/1	0.540	MS	HME COMMUNICATIONS	38	A		
A	MS	39 GEN OUTLETS/DAMPER XF	MS	0.360	20/1	B	20/1	1.920	MS	FUTURE AIR COMPRESSOR	40	A		
A	EF#1	41 EF#1	EF#1	1.656	25/1	C	15/1/GF	1.080	X	441	REFRIG TABLE	42	A	
A	K	43 SPARE	K	2.640	20/1	A	20/2/GF	1.250	K	503	EGG COOKER	44	A	
A	K	45 MULTI-COOK OVEN	K	2.640	30/3/GF	C	20/2/GF	1.250	K	503	EGG COOKER	46	A	
A	K	47 SPARE	K	2.640	30/3/GF	A	20/2/GF	1.250	K	503	EGG COOKER	48	A	
A	K	49 MULTI-COOK OVEN	K	2.640	30/3/GF	B	20/2/GF	1.250	K	503	EGG COOKER	50	A	
A	K	51 MULTI-COOK OVEN	K	2.640	30/3/GF	A	20/2/GF	1.250	K	503	EGG COOKER	52	A	
A	K	53 SPARE	K	2.640	30/3/GF	B	20/2/GF	1.250	K	503	EGG COOKER	54	A	
A	K	55 SPARE	K	2.640	30/3/GF	C	15/1/GF	0.804	X	422	REFRIG EQUIP STAND	56	A	
A	K	57 MULTI-COOK OVEN	K	2.640	30/3/GF	B	20/1/GF	0.180	R	184	DROP CORD OUTLET	58	A	
A	K	59 SPARE	K	2.640	30/3/GF	A	20/1/GF	0.180	R	184	DROP CORD OUTLET	60	A	
A	K	61 SPARE	K	2.640	30/3/GF	B	20/1/GF	0.756	X	432	WORKTOP REFRIG	62	A	
A	K	63 MULTI-COOK OVEN	K	2.640	30/3/GF	C	20/1/GF	0.180	R	184	DROP CORD OUTLET	64	A	
A	K	65 SPARE	K	2.640	30/3/GF	A	20/1	1.440	MS	RECIRC. PUMP	66	A		
A	R	67 GEN OUTLETS	R	0.36	20/1/GF	B	20/1	0.900	X	443	REFRIGERATOR	68	A	
A	R	69 GEN OUTLETS	R	0.36	20/1/GF	A	20/1	0.900	X		70	A		
A	R	71 SPARE	R	0.36	20/1	B	20/1	0.900	X		72	A		
A	R	73 SPARE	R	0.36	20/1	A	20/1	0.900	X		74	A		
A	R	75 SPARE	R	0.36	20/1	B	20/1	0.900	X		76	A		
A	R	77 SPARE	R	0.36	20/1	C	20/1	0.900	X		78	A		
A	R	79 SPARE	R	0.36	20/1	A	20/1	0.900	X		80	A		
A	R	81 SPARE	R	0.36	20/1	B	20/1	0.900	X		82	A		
A	R	83 SPARE	R	0.36	20/1	C	20/1	0.900	X		84	A		
*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	6.900	PER(>10KVA@50%)	=	5.900									
MISCELLANEOUS	MS	7.140	1.25	=	8.925									
SINGLE PHASE MOTOR	M1	7.192	1.25	=	8.990									
KITCHEN EQUIPMENT	K	51.300	0.65	=	33.345									
KITCHEN REFRIG EQUIPMENT	X	14.742	0.65	=	9.582									
TOTAL		87.774			68.242									

REPLACEMENT PANEL-B														
PANELBOARD DESCRIPTION				BREAKER OPTIONS				LOADS						
PANELBOARD NAME: B				ARC-FAULT: AF				KVA PHASE A 21.73						
MANUFACTURER / TYPE: SQ-D / N0				GROUND FAULT: GF				KVA PHASE B 24.68						
VOLTS: 208 / 120				HADR: HA				KVA PHASE C 22.91						
PHASE / WIRE: 3 / 4				HID LIT RATED: HD				AMPS PHASE A 161.1						
MAIN TYPE / CU BUS AMPS: MLO / 250 AMP				HIGH MAG LOAD: HM				AMPS PHASE B 205.7						
AC SERIES RATING: 65/10KA				ISOLATED GROUND: IG				AMPS PHASE C 190.9						
MOUNTING: FLUSH				LOCK-ON: LO				KVA CONNECTED 66.31						
NEAR RATING: 1				SHUNT TRIP: ST				KVA DIVERSIFIED 48.1						
QUANTITY OF SECTIONS: 1				SWITCH RATED: SW				AMPS CONNECTED 192.4						
								AMPS DIVERSIFIED 133.5						
PHI	CR	LOAD	EO	LOAD	LOAD	CR	LOAD	LOAD	LOAD	CR	LOAD	LOAD	PHI	
Notes	NO.	DESCRIPTION	NO.	TYPE	KVA	%P/O	KVA	TYPE	NO.	DESCRIPTION	NO.	TYPE	NO.	
A	R	1 INTERIOR ICE MAKER	3800	R	0.720	15/1/GF	A	20/1	0.360	EL	REFUSE ENCLOSURE	2	A	
A	R	3 INTERIOR ICE MAKER	3800	R	0.720	15/1/GF	B	20/1/GF	1.090	K	5630	SANDWICH SLIDE	4	A
A	R	5 TEA BREWER	305	R	1.650	20/1	C	20/1/GF	0.548	K	5635	SANDWICH SLIDE	6	A
A	R	7 TEA BREWER	305	R	1.650	20/1	A	20/1/GF	0.884	X	421	U.C. REFRIGERATOR	8	A
A	R	9 COFFEE MAKER	308	R	2.000	30/2/GF	B	20/1/GF	0.984	K	310	LEMONADE BUBBLER	10	A
A	R	11 COFFEE MAKER	308	R	2.000	30/2/GF	A	20/1/GF	0.564	X	420	U.C. REFRIGERATOR	12	A
A	R	13 FRY STATION	560	R	1.840	20/1/GF	A	15/1/GF	0.600	X	380	INTERIOR ICE MAKER	14	A
A	R	15 FRY STATION	560	R	1.840	20/1/GF	B	20/1	0.500	MS	S.T. DOOR	16	A	
A	R	17 U.C. REFRIGERATOR	420	R	0.564	20/1/GF	C	20/1	1.920	X	444	TRAINING CABINET	18	A
A	R	19 DOUBLE JUICE DISPENSER	310	R	0.984	20/1/GF	A	20/1	1.920	X	444	TRAINING CABINET	20	A
A	R	21 DROP CORD OUTLET	R	0.180	20/1/GF	B	20/1	1.920	X	444	SINGLE TRAINING CAB.	22	A	
A	R	23 DROP CORD OUTLET	R	0.180	20/1/GF	A	20/1	1.920	X	444	TRAINING CABINET	24	A	
A	R	25 DROP CORD OUTLET	R	0.180	20/1/GF	B	20/1/GF	0.960	X	404	SPARE FOR FREEZER	26	A	
A	R	27 EX. DINING GEN. OUTLETS	R	1.080	20/1	C	20/1/GF	0.360	R		TMS QUAD OUTLET	28	A	
A	R	29 REFRIGERATOR	443	R	0.920	15/1/GF	C	20/1/GF	0.360	R		TMS QUAD OUTLET	30	A
A	R	31 FLY SYSTEM	K	0.240	20/1/GF	A	20/1/GF	0.360	R		TMS QUAD OUTLET	32	A	
A	R	33 MILKSHAKE DISPENSER	300G	R	0.480	20/1/GF	B	20/1/GF	1.128	X	400	FRY FREEZER	34	A
A	R	35 DROP CORD OUTLET	R	0.180	20/1/GF	C	20/1/L0	1.000	MS		1-500/SHUNT TRIP	36	A	
A	R	37 DROP CORD OUTLET	R	0.180	20/1/GF	A	20/1/GF	1.128	X	400	FRY FREEZER	38	A	
A	R	39 DROP CORD OUTLET	R	0.180	20/1/GF	B	20/1	1.920	X	444	SPARE FOR TRAINING CAB	40	A	
A	R	41 GEN OUTLET	R	0.180	20/1/GF	C	20/1	0.720	R		GEN OUTLET/DOORBELL	42	A	
A	R	43 SPARE	R	0.180	20/1	A	20/1/GF	0.180	R		DROP CORD OUTLET	44	A	
A	R	45 SPARE	R	0.180	20/1	B	20/1/GF	0.360	R		432	WORKTOP REFRIG	46	A
A	R	47 SPARE	R	0.180	20/1	C	20/1/GF	0.960	K	600	FLOOR MIXER	48	A	
A	R	49 SPARE	R	0.180	20/1	A	20/1/GF	0.360	R		SPARE	50	A	
A	R	51 ICE DREAM MACHINE	300X	R	2.280	30/3/GF	B	20/1/GF	0.180	R		DROP CORD OUTLET	52	A
A	R	53 SPARE	R	2.280	30/3/GF	C	15/1/GF	0.360	X	440CT	ICE BATH BREADING TBL	54	A	
A	R	55 SPARE	R	2.280	30/3/GF	A	15/1/GF	0.180	X	440CT	ICE BATH BREADING TBL	56	A	
A	R	57 ICE DREAM MACHINE	300X	R	1.800	20/3/GF	B	20/1/GF	0.180	R	184	DROP CORD OUTLET	58	A
A	R	59 SPARE	R	1.800	20/3/GF	A	20/1/GF	0.180	R		DROP CORD OUTLET	60	A	
A	R	61 SPARE	R	1.800	20/3/GF	B	20/1/GF	0.180	R		DROP CORD OUTLET	62	A	
A	R	63 SPARE FOR ICE DREAM MACHINE	300X	R	2.280	30/3/GF	C	20/1/GF	0.840	X	442W	REFRIGERATOR	64	A
A	R	65 SPARE	R	2.280	30/3/GF	A	20/1/GF	0.180	R		DROP CORD OUTLET	66	A	
A	R	67 SPARE FOR ICE DREAM MACHINE	300X	R	1.800	20/3/GF	C	20/1/GF	1.200	K	565	FOOD COOKER/WARMER	68	A
A	R	69 SPARE FOR ICE DREAM MACHINE	300X	R	1.800	20/3/GF	B	20/1/GF	0.180	R		DROP CORD OUTLET	70	A
A	R	71 SPARE	R	1.800	20/3/GF	A	20/1/GF	0.360	R		TMS QUAD OUTLET	72	A	
A	R	7												



EXISTING SINGLE LINE DIAGRAM (VERIFY ALL EXISTING CONDITIONS)

NO SCALE

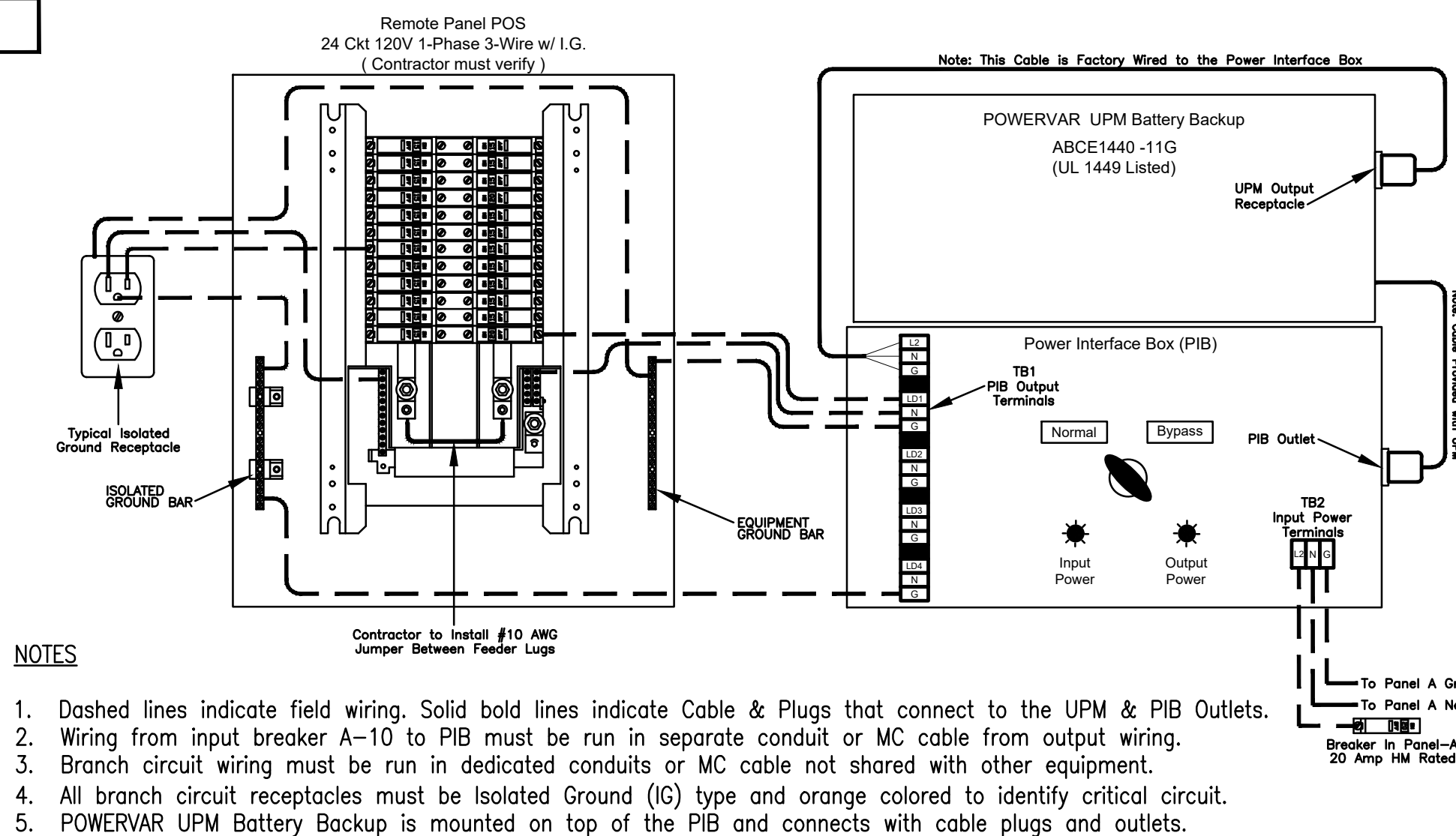
PANELBOARD DESCRIPTION		BREAKER OPTIONS		LOADS	
PANELBOARD NAME:	MDP	ARC-FAULT:	AF	KVA PHASE A	202.9
MANUFACTURER / TYPE:	SQ-D / I-LINE	GROUND FAULT:	GF	KVA PHASE B	209.4
VOLTS:	208 Y 120	HACR:	HA	KVA PHASE C	194.7
PHASE / WIRE:	3 / 4	HID LTG RATED:		AMPS PHASE A	1691
MAIN TYPE / CU BUS AMPS:	MCB / 1200A/3P	HIGH MAG LOAD:	HM	AMPS PHASE B	1745
AIC SERIES RATING:	65K	ISOLATED GROUND:	IG	AMPS PHASE C	1623
MOUNTING:	SURFACE	LOCK-ON:	LO	KVA CONNECTED	607
NEMA RATING:	3R	SHUNT TRIP:	ST	KVA DIVERSIFIED	389
QUANTITY OF SECTIONS:	1	SWITCH RATED:	SW	AMPS CONNECTED	1685
				AMPS DIVERSIFIED	1080

PHI	CIR NO.	LOAD DESCRIPTION	EQ NO.	LOAD TYPE	LOAD KVA	CIR BKR *A/P/O	PHI	CIR BKR *A/P/O	LOAD TYPE	EQ NO.	LOAD DESCRIPTION	CIR NO.	PHI	Notes
	1	PANEL-A			29.84	200/3	A	21.73			PANEL-B	2		
					28.05		B	24.68						
					29.89		C	22.73						
	3	PANEL-C			25.63	200/3	A	39.67			PANEL-D	4		
					28.99		B	39.67						
					18.64		C	37.66						
	5	PANEL-E1			35.90	400/3	A	33.72			PANEL-E2	6		
					37.80		B	33.72						
					35.66		C	33.72						
	7	AC-1			16.44	150/3	A				SPACE	8		
					16.44		B							
					16.44		C							
	9	SPACE				30/3	A				TVSS	10		
							B							
							C							

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

SEE ELECTRICAL LOAD SUMMARY FOR SERVICE AND MDP LOAD CALCULATIONS PER NEC 220.88

LOAD SUMMARY - STORE #2111	
(NOT ALL ELECTRIC RESTAURANT)	
THE FOLLOWING IS BASED ON NEC 220.88	
LOAD DESCRIPTION	KVA
LIGHTING	5.02
EXTERIOR LTG AND SIGNAGE	24.59
RECEPTACLES	15.00
MISCELLANEOUS	15.82
AIR CONDITIONING	120.30
ELECTRIC HEAT	17.80
SINGLE PHASE MOTORS	10.50
KITCHEN EQUIPMENT	320.77
KITCHEN REFRIGERATION EQUIPMENT	75.93
TOTAL CONNECTED KVA	605.72
IF TOTAL IS 0-200 KVA, THEN TOTAL LOAD 100%	0.00
IF TOTAL IS 201-325 KVA, THEN LOAD OVER 200 AT 50% + 200	0.00
IF TOTAL LOAD IS 326-800 KVA, THEN LOAD OVER 325 AT 45% + 262.5	388.83
IF TOTAL LOAD IS OVER 800 KVA, THEN LOAD OVER 800 AT 20% + 476.3	0.00
DIVERSIFIED AMPS AT 208 VOLT	1080.07



POWERVAR LAPC with PIB and Panel POS Wiring Diagram

NO SCALE

CONDUIT AND CONDUCTORS SCHEDULE																
Mark No.	OCP Device Amp/Poles	Conductors		Conductors			Raceway Size (nominal inches)									
		Total Ampacity	60d C	75d C	Phase Qty	Neutral Size	Min Eq Grd Size	No. Sets	Phase EMT	Neutral IMC	Equip RIGID	Grd PVC	With Isolated EMT	IMC	Ground PVC	
1	20/1	20	-	-	2	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75
2	20/2	20	-	-	3	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75
3	20/3	20	-	-	4	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75
4	25/1	30	-	-	2	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75
5	25/2	30	-	-	3	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75
6	25/3	30	-	-	4	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75
7	30/1	30	-	-	2	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75
8	30/2	30	-	-	3	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75
9	30/3	30	-	-	4	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75
10	40/1	40	-	-	2	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75
11	40/2	40	-	-	3	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75
12	40/3	40	-	-	4	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	1.00
13	50/1	55	-	-	2	6	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75
14	50/2	55	-	-	3	6	THHN	1	10	One	0.75	0.75	0.75	0.75	1.00	1.00
15	50/3	55	-	-	4	6	THHN	1	10	One	1.00	1.00	1.00	1.00	1.00	1.00
16	60/1	70	-	-	2	4	THW	1	8	One	1.00	1.00	1.00	1.00	1.25	1.00
17	60/2	70	-	-	3	4	THW	1	8	One	1.25	1.00	1.25	1.25	1.25	1.25
18	60/3	70	-	-	4	4	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25
19	70/1	70	-	-	2	4	THW	1	8	One	1.00	1.00	1.00	1.00	1.25	1.00
20	70/2	70	-	-	3	4	THW	1	8	One	1.25	1.00	1.25	1.25	1.25	1.25
21	70/3	70	-	-	4	4	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25
22	80/2	85	-	-	3	3	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25
23	80/3	85	-	-	4	3	THW	1	8	One	1.25	1.25	1.25	1.25	1.50	1.50
24	90/2	95	-	-	3	2	THW	1	8	One	1.25	1.25	1.25	1.25	1.50	1.50
25	90/3	95	-	-	4	2	THW	1	8	One	1.50	1.25	1.50	1.50	1.50	1.50
26	100/2	110	-	-	3	1	THW	1	6	One	1.50	1.50	1.50	1.50	2.00	2.00
27	100/3	110	-	-	4	1	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00
28	110/2	-	115	3	2	THW	1	6	One	1.25	1.25	1.25	1.25	1.50	1.25	
29	110/3	-	115	4	2	THW	1	6	One	1.50	1.25	1.50	1.50	1.50	1.50	
30	125/2	-	130	3	1	THW	1	6	One	1.50	1.50	1.50	1.50	2.00	2.00	
31	125/3	-	130	4	1	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	
32	150/2	-	150	3	1/0	THW	1	6	One	2.00	1.50	2.00	2.00	2.00	2.00	
33	150/3	-	150	4	1/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	
34	175/2	-	175	3	2/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	
35	175/3	-	175	4	2/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.50	2.50	
36	200/2	-	200	3	3/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.50	2.50	
37	200/3	-	200	4	3/0	THW	1	6	One	2.50	2.50	2.50	2.50	2.50	2.50	
38	225/2	-	230	3	4/0	THW	1	4	One	2.50	2.00	2.50	2.50	2.50	2.50	
39	225/3	-	230	4	4/0	THW	1	4	One	2.50	2.50	2.50	2.50	2.50	3.00	
40	250/3	-	255	4	250	THW	1	4	One	2.50	3.00	3.00	3.00	3.00	3.00	
41A	300/3	-	285	4	300	THW	1	4	One	3.00	3.00	3.00	3.00	3.00	3.00	
41B	300/3	-	310	4	350	THW	1	4	One	3.00	3.00	3.00	3.00	3.00	3.00	
42A	350/3	-	335	4	400	THW	1	4	One	3.00	3.50	3.50	3.50	3.50	3.50	
42B	350/3	-	380	4	500	THW	1	4	One	3.50	3.50	3.50	3.50	3.50	3.50	
43A	400/3	-	380	4	500	THW	1	3	One	3.50	3.50	3.50	3.50	3.50	3.50	
43B	400/3	-	400	4	3/0	THW	2	3	Two	2.50	2.50	2.50	2.50	2.50	2.50	
44A	600/3	-	570	4	300	THW	2	1	Two	3.00	3.00	3.00	3.00	3.00	3.00	
44B	600/3	-	620	4	350	THW	2	1	Two	3.00	3.00	3.00	3.00	3.00	3.50	
45A	800/3	-	760	4	500	THW	2	1/0	Two	3.50	3.50	3.50	3.50	3.50	3.50	
45B	800/3	-	820	4	600	THW	2	1/0	Two	4.00	4.00	4.00	4.00	4.00	4.00	
46	1000/3	-	1005	4	400	THW	3	2/0	Three	3.50	3.50	3.50	3.50	3.50	3.50	
47	1200/3	-	1240	4	350	THW	4	3/0	Four	3.50	3.50	3.50	3.50	3.50	4.00	
48	1600/3	-	1675	4	400	THW	5	4/0	Five	4.00	4.00	4.00	4.00	4.00	4.00	

Notes:

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

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

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

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

Omit Grounding conductor on Service Entrance Feeders.

Omit Neutral conductor on all Delta primary transformer feeders or 3 phase loads not requiring a neutral.

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



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FSR#02111

BUILDING TYPE / SIZE: S06C
RELEASE: v04.23

REVISION SCHEDULE
NO. DATE DESCRIPTION

CONSULTANT PROJECT # 23145.HF.R
PRINTED FOR CONSTRUCTION
DATE 12/20/2023
DRAWN BY BG

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SHEET SINGLE LINE RISER DIAGRAM

SHEET NUMBER

E3.2

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 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.

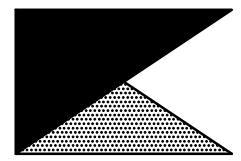
F. All separate grounding electrode conductors shall be bonded together to limit potential differences between them and between their associated wiring systems. This includes the power system, telephone system, etc.

2.03 FIELD QUALITY CONTROL

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



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FSR#02111

BUILDING TYPE / SIZE: S06C
RELEASE: V04.23

REVISION SCHEDULE
NO. DATE DESCRIPTION

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SHEET ELECTRICAL SPECIFICATIONS

SHEET NUMBER

E4.1

SECTION C16124
SUPPORTING DEVICES AND HANGERS

PART 1 - PRODUCTS

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

PART 2 - EXECUTION

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

SECTION C16140
WIRING DEVICES AND PLATES

PART 1 - PRODUCTS

- 1.01 WALL SWITCHES
- a. Shall be purchased from the National Accounts Vendor indicated on the plans.
- B. Ratings: 20 amps, 120/277 volts a.c. or as identified on drawings.
- C. Devices: (Cooper/Arrow Hart catalog numbers are listed unless noted otherwise):
 - 1. Single pole toggle switches:
 - 20 AMP device - #AH1221-GY (Kitchen) or #AH1221-B (Dining)
 - 20 AMP Pilot lights illuminated with load on - #AH1221-PL
 - 2. Double pole toggle switches:
 - 20 AMP device - #AH1222-GY (Kitchen) or #AH1222-B (Dining)
- 1.02 RECEPTACLES
- A. Shall be purchased from the National Accounts Vendor indicated on the plans.
- B. Devices: (Cooper/Arrow Hart catalog numbers are listed unless otherwise noted):
 - 1. Specification grade devices (grey device color in Kitchen, brown device color in Dining, and orange for IG type) to be 20 amp, 125 volts, a.c. receptacles:
 - Single (simplex) device: #1877-GY (Kitchen) or #1877-B (Dining)
 - Duplex device: #CR20-GY (Kitchen) or #CR20-B (Dining)
 - Tamper Resistant duplex: #TRCR20-B (Vestibules & Play Area)
 - Tamper Resistant USB Charger duplex: #TR7756-B (Dining)
 - GF (ground-fault circuit interrupter) duplex device: #VGF20-GY (Kitchen) or #VGF20-B (Dining)
 - IG (isolated ground) duplex device: #IG5362-RN (orange face)

1.03 SPECIAL DEVICES

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

1.04 WALL PLATES

- A. Provide Cooper/Arrow Hart, or approved equal, smooth satin stainless steel 302-SS series for switches and receptacles in the Kitchen areas. All other areas shall be brown Nylon plastic.
- B. Provide blank plates on all outlet boxes for future outlets, or outlets without devices. Plate style shall match device plates.
- C. Provide non-metallic weatherproof covers for duplex GF receptacles located outside or in wet locations that feature 'while-in-use' cover equivalent to Arrow Hart #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. Nonfusible switch assemblies: NEMA KS 1, General Duty Type for 208 volt load interrupter enclosed knife switch with externally operable handle interlocked to prevent opening front cover with switch in on position. Handle lockable in off position. Provide equipment ground lug in each switch.
- B. Enclosures: NEMA KS 1.
 1. Interior dry locations: Type 1.
 2. Exterior locations: Type 3R.

SECTION C16442
UTILITY SERVICE ENTRANCE AND DISTRIBUTION SYSTEM

PART 1 - GENERAL

- 1.01 SYSTEM DESCRIPTION
- A. The underground electrical system service characteristics shall be 208Y/120 volts, Three Phase, Four Wire service and shall extend from utility company transformer secondary.
- B. Metering of electrical usage shall be located as required by local electrical utility company. Coordinate requirements with local utility company.
- C. Distribution system originates at secondary of utility transformer and includes service entrance conduit and conductors, distribution equipment, lighting panelboards, utilization equipment, overcurrent devices, disconnecting means, controls, branch and feeder circuits, etc.

PART 2 - PRODUCTS

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

PART 3 - EXECUTION

- 3.01 EXAMINATION AND PREPARATION
- A. Coordinate exact locations of electrical service utility transformer, metering equipment, service lateral, etc. prior to commencement of installation. Contact engineer with conflicts prior to bid.
- B. Ensure pad mounted transformer is not located within roadway or sidewalk.
- C. Coordinate with local electrical utility for all utility company requirements and provide for the following items and any others required by the utility:
 1. Concrete pad for utility transformer with required dimensions and details.
 2. Primary underground conduit, excavation, and backfill requirements.
 3. Pay for all fees associated with establishment of electrical service.
 4. Furnish list of loads to the electrical utility company serving the facility.
 5. Verify that utility company clearances are provided on all sides of utility equipment.
- D. Ensure proper access to utility equipment is maintained.
- E. Provide pull rope, excavation in accordance with electrical utility company requirements, backfill and concrete envelope for primary in accordance with electrical utility company requirements. Turn conduits up riser pole as required, cap spare conduits 12 inches above grade with plumbers pipe cap.
- F. Provide secondary lugs on utility transformer and perform drilling and installation of lugs in accordance with utility requirements. Type of lugs shall be in accordance with electrical utility company requirements. Connect service conductor to transformer secondary lugs as directed by electrical utility.

SECTION C16500
LIGHTING FIXTURES (LUMINAIRES)

PART 1 - GENERAL

- 1.01 ACCEPTABLE MANUFACTURERS AND VENDORS
- A. Lighting fixtures indicated on lighting fixture schedule are to be purchased from the National Account Vendor for the region of the project (verify region designation with Owner's Representative):
 1. Accu-Serv Lighting - Atlantic region and Southeast region. Contact at Accu-Serv: Bob Harpring at 877-707-7378, fax - 502-961-0357, email - bharpring@accu-serv.com
 2. Villa Lighting - 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 contactors shall be Square-D, General Electric, Cutler-Hammer or Siemens of types and quantity shown on drawings, except those furnished with the switchgear as part of the National Account Program by Suncoast Environmental Controls (SEC).

1.04 EMERGENCY LIGHTING UNITS

- A. BATTERIES shall supply emergency power for lighting with minimum operating time of 1-1/2 hours.
- B. Emergency lighting shall be automatically operational upon normal utility power failure.

PART 3 - EXECUTION

- 3.01 INSTALLATION
- A. Lighting fixtures shall be structurally supported. Fluorescent fixtures mounted in suspended ceilings shall be supported by and attached to ceiling system as required by NEC Article 410. In addition, fluorescent troffers shall be supported at two opposite corners to building structure.
- B. Recessed fixtures in dropped ceiling areas shall be connected to power source using flexible conduit. Flexible conduit shall contain a separate insulated green No. 12 copper ground wire. Flexible conduit shall be connected to junction box and fixture. Green ground wire shall provide ground continuity between conduit system and fixture. Grounding conductors shall be permanently and mechanically connected between fixture and conduit system so as to be electrically continuous.
- C. Fixtures surface mounted on exposed tee bar ceilings shall use grip clamps on tee bars to support fixtures.
- D. Wire shall be continuous from splice in outlet box of building wiring system to lamp socket or ballast terminals.
- E. Maintain the integrity of enclosures on enclosed and gasketed fixtures. Minimize the number of enclosure penetrations and make such penetrations water and dust tight with appropriate gaskets and fittings.
- F. Concrete bases shall be provided for all exterior ground mounted or pole mounted fixtures.
- G. Install accessories furnished with each fixture.
- H. Wiring from pole bases to pole mounted luminaire shall be No. 12 with fuse protection provided by a 30 amp, 600 volt waterproof fuseholder with Bussman '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 C16506
SPECIAL SYSTEMS

PART 1 - GENERAL

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

PART 2 - PRODUCTS

- 2.01 MATERIALS
- A. Provide 4-11/16" square boxes, with plaster rings. Provide device plates for system outlets as specified in Section 16141. Provide separate conduit to nearest accessible ceiling space from each outlet.
- B. Cable shall be in conduit where installed in walls or inaccessible ceilings.
- C. Minimum conduit size shall be 3/4"

PART 3 - EXECUTION

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

SECTION C16597
TELEPHONE SERVICE

PART 1 - GENERAL

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

PART 2 - PRODUCTS

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

PART 3 - EXECUTION

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

CLOSE OUT DOCUMENT REQUIREMENTS

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

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



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FSR#02111

BUILDING TYPE / SIZE: S06C
RELEASE: V04.23

REVISION SCHEDULE
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SHEET ELECTRICAL SPECIFICATIONS

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CONSTRUCTION