



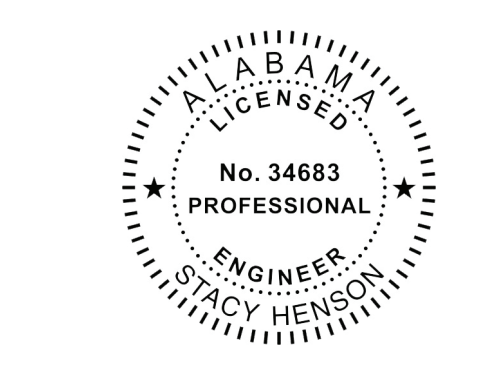
Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

INTERPLAN
INTERPLAN LLC
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ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY., STE. 4000
ALBAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:



CHICK-FIL-A
ALABASTER
125 Colonial
Promenade Parkway
Alabaster, AL 35007

FSR#01794

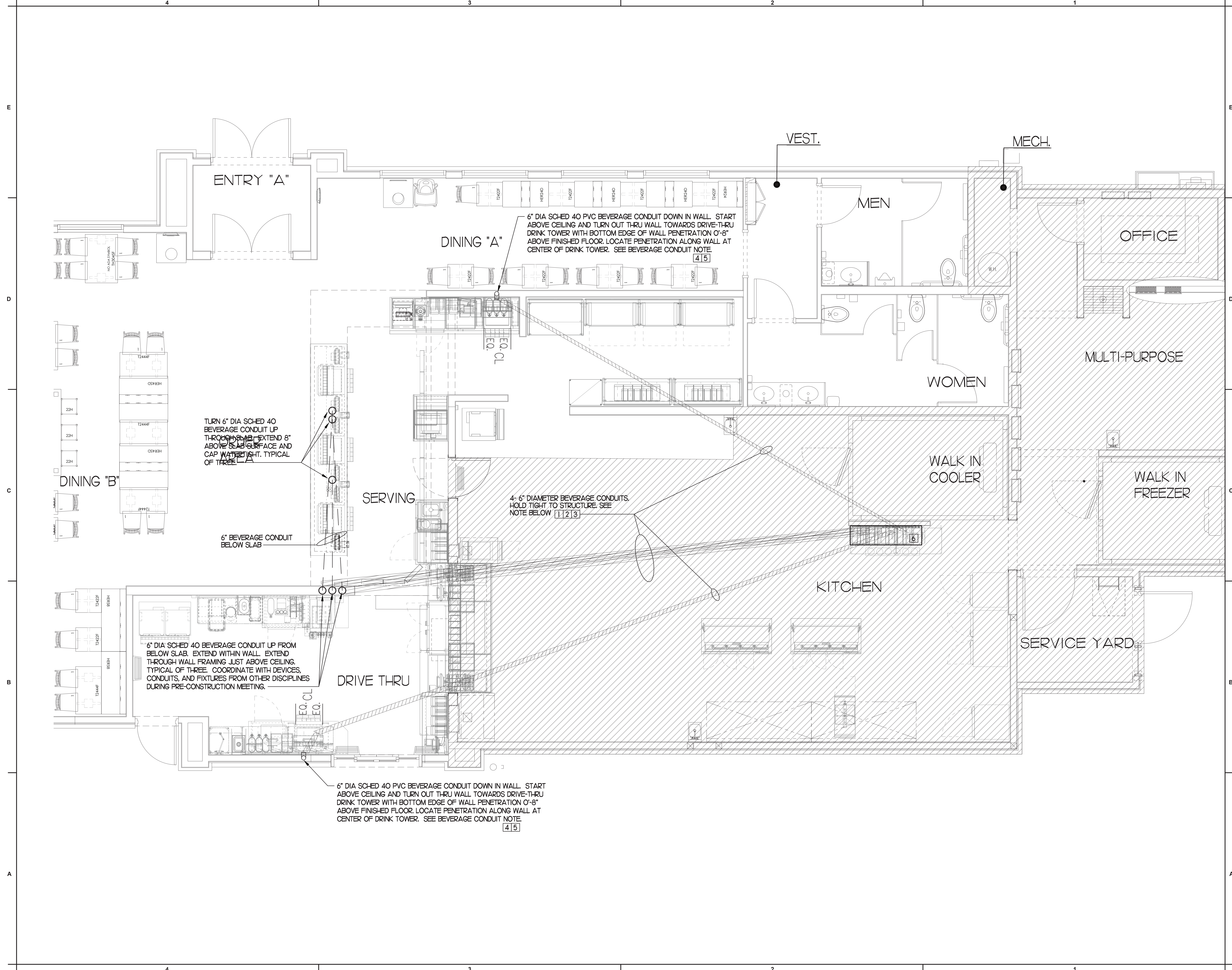
BUILDING TYPE / SIZE: S03.8-1C Reverse
RELEASE: 09.2021
PRINTED FOR: PERMIT
Project Status: PERMIT
REVISION SCHEDULE
NO. DATE DESCRIPTION

CONSULTANT PROJECT # 2021.0086
DATE 11.2021

DRAWN BY: JR
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SHEET
PLUMBING DETAILS &
BEVERAGE CONDUIT
SHEET NUMBER

P2.2
CHRHR - 11/19/2021 11:12:13 AM



ENTRY "A"

DINING "A"

DINING "B"

SERVING

DRIVE THRU

KITCHEN

WALK IN COOLER

WALK IN FREEZER

SERVICE YARD

MEN

WOMEN

OFFICE

VEST.

MECH.

6" 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. [4] [5]

TURN 6" DIA SCHED 40 BEVERAGE CONDUIT UP THROUGH SLAB. EXTEND 8" ABOVE SLAB SURFACE AND CAP WATER TIGHT. TYPICAL OF THREE.

6" BEVERAGE CONDUIT BELOW SLAB

4- 6" DIAMETER BEVERAGE CONDUITS. HOLD TIGHT TO STRUCTURE. SEE NOTE BELOW [1] [2] [3]

6" DIA SCHED 40 BEVERAGE CONDUIT UP FROM BELOW SLAB. EXTEND WITHIN WALL. EXTEND THROUGH WALL FRAMING JUST ABOVE CEILING. TYPICAL OF THREE. COORDINATE WITH DEVICES, CONDUITS, AND FIXTURES FROM OTHER DISCIPLINES DURING PRE-CONSTRUCTION MEETING.

6" 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. [4] [5]



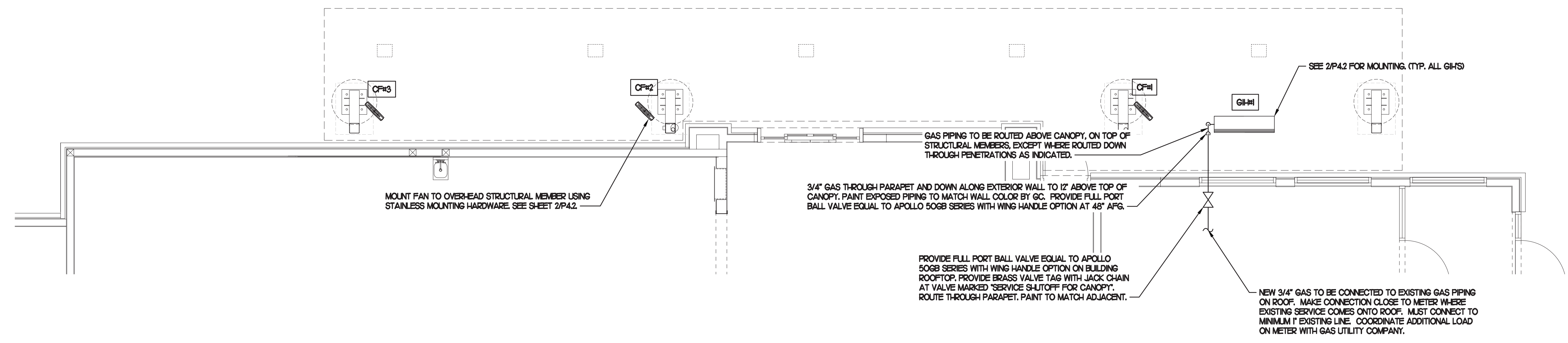
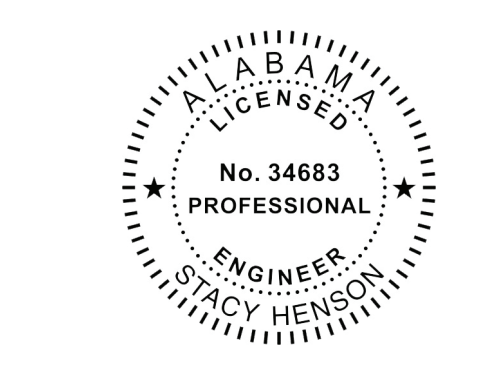
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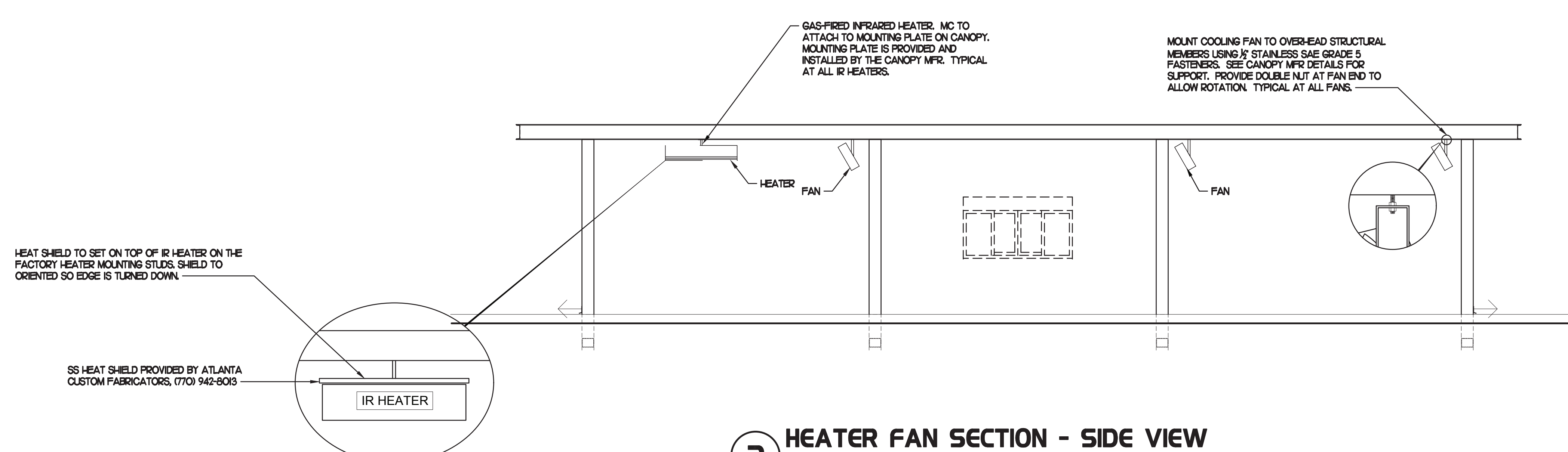
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ALBAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:



1 TIER 3 OUTSIDE MEAL DELIVERY CANOPY
1/4" = 1'-0"
NORTH



2 HEATER FAN SECTION - SIDE VIEW
NO SCALE

CHICK-FIL-A
ALABASTER
125 Colonial Promenade Parkway
Alabaster, AL 35007

FSR#01794

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OMD GAS PIPING PLAN
SHEET NUMBER



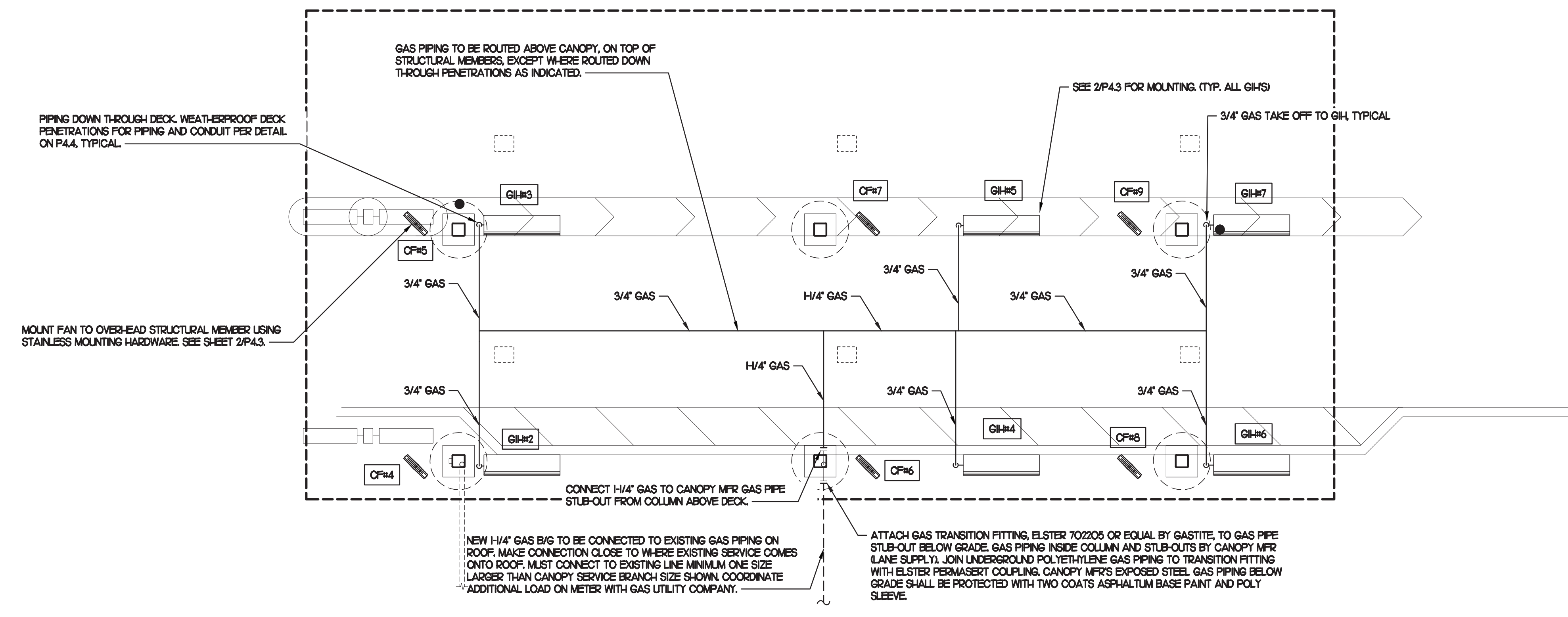
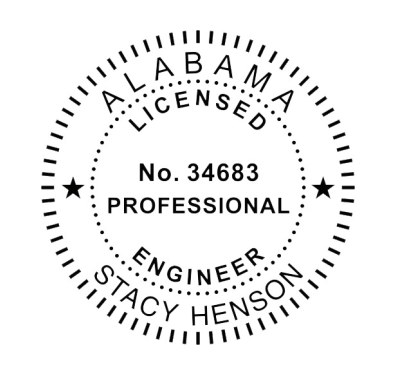
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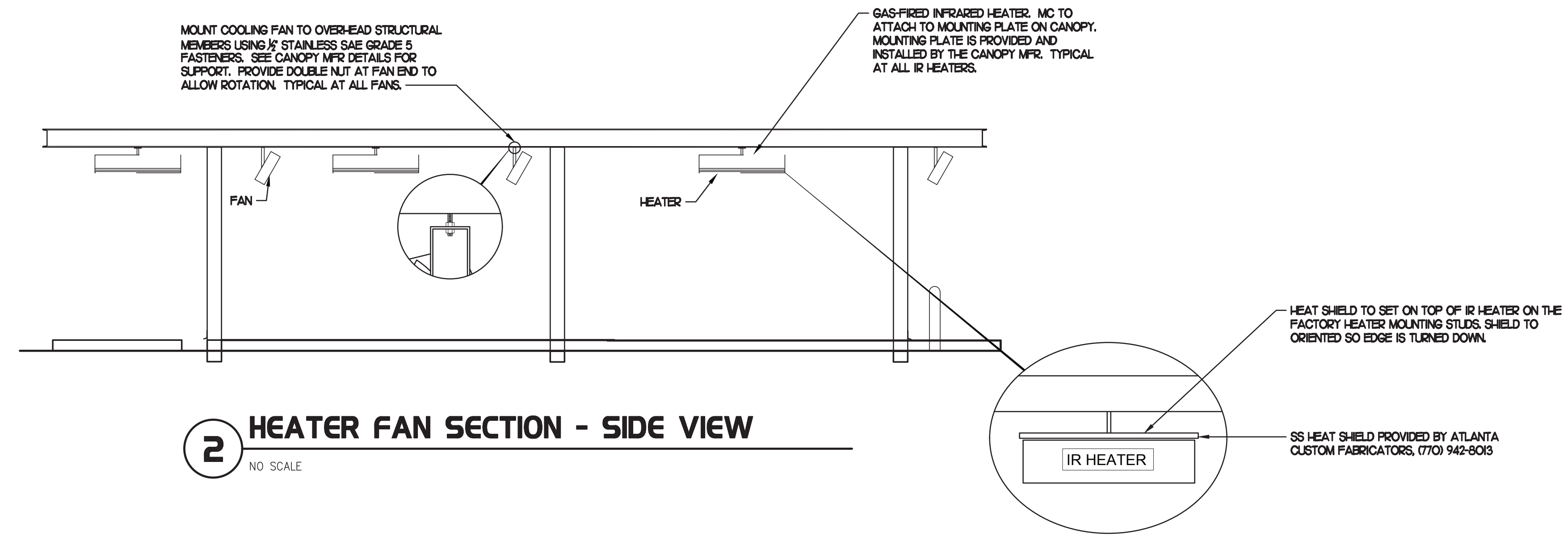
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ALBANY, GEORGIA 31707
407.645.5008

SEAL:



1 TIER 3 DOUBLE LANE ORDER CANOPY
1/4" = 1'-0"
NORTH



2 HEATER FAN SECTION - SIDE VIEW
NO SCALE

CHICK-FIL-A
ALABASTER
125 Colonial
Promenade Parkway
Alabaster, AL 35007

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SHEET
F2F GAS
PIPING PLAN
SHEET NUMBER

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GAS CONNECTION SCHEDULE	
EQUIPMENT	GAS LOAD
EXISTING AC#1	480,000 BTUS
EXISTING AC#2	235,000 BTUS
EXISTING AC#3	235,000 BTUS
EXISTING AC#4	235,000 BTUS
EXISTING AC#5	125,000 BTUS
EXISTING WATER HEATER	75,000 BTUS
NEW GAS HEATERS (7)	(7) 50,000 BTUS
TOTAL CONNECTED LOAD	1,735,000 BTUS

REMARKS:

- EQUIVALENT TO 1,735 CFH @ pressure drop 0.5 IN. W.C. W/ DEVELOP LENGTH OF 100 FT (METER TO GH#7)
- 7" w.c. DELIVERY PRESSURE.
- VERIFY GAS LOAD OF EXISTING EQUIPMENT.

GAS FIRED INFRARED HEATER SCHEDULE							
MARK	INPUT (MBH)	FRAME SIZE			MOUNTING TYPE	MODEL	MANUFACTURER
		LENGTH	WIDTH	DEPTH			
GIH	50.0	48"	13"	10"	BRACKET	2352-NG	SCHWANK

REMARKS:

- STEEL BURNER WITH CERAMIC BURNER TILES.
- STAINLESS STEEL LENS WITH BLOCK EMISSIVE COATING.
- PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. MOUNT TO CANOPY DECK, FACING DOWNWARD, 12" Laterally FROM THE SIDE OF THE HEATER
- MOUNTING BRACKET PROVIDED AND INSTALLED BY CANOPY MFR.
- PROVIDE HEAT SHIELD ABOVE EACH HEATER AT THE BOTTOM OF THE BRACKET.

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 DETAIL 3M2.1 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.

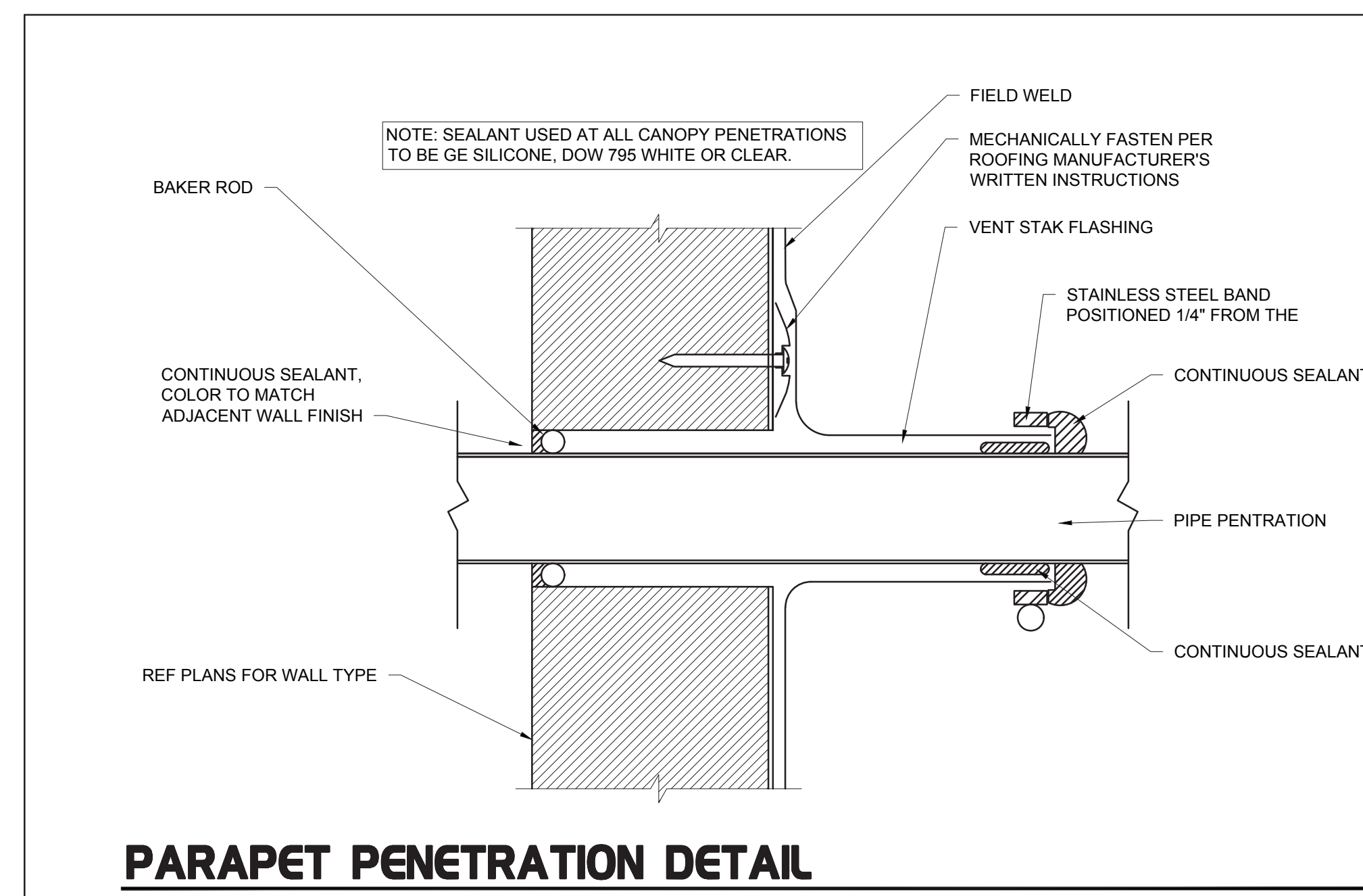
NOTE:
CONTRACTOR TO VERIFY EXISTING GAS SYSTEM CAN HANDLE NEW GAS LOAD. RESIZE AND INSTALL NEW GAS PIPING AS REQUIRED IF EXISTING GAS PIPING IS UNDERSIZED FOR NEW GAS LOAD AND PIPE LENGTH. FIELD VERIFY EXACT CONDITIONS PRIOR TO BID.

NATIONAL ACCOUNTS	
1	SCHWANK INFRARED HEATER PACKAGE - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE HEATER PACKAGE DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. HEATERS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.
2	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.

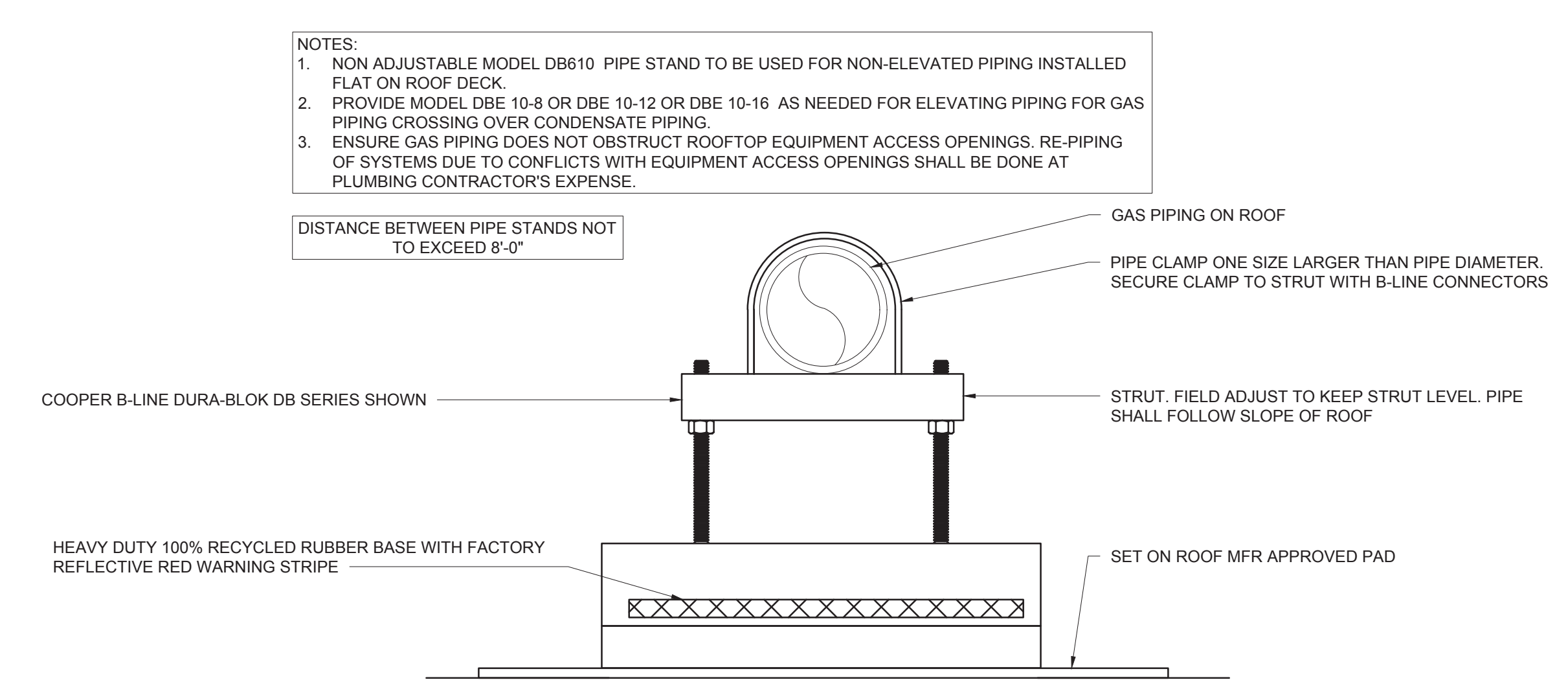
IMPORTANT NOTE - PLEASE READ
NUMBERS OF GAS INFRARED HEATERS AND CIRCULATING FANS WILL BE DETERMINED BY SITE-SPECIFIC CANOPY LAYOUT AND EQUIPMENT LOCATIONS, AS INDICATED ON ARCHITECTURAL PLANS.

GENERAL NOTES

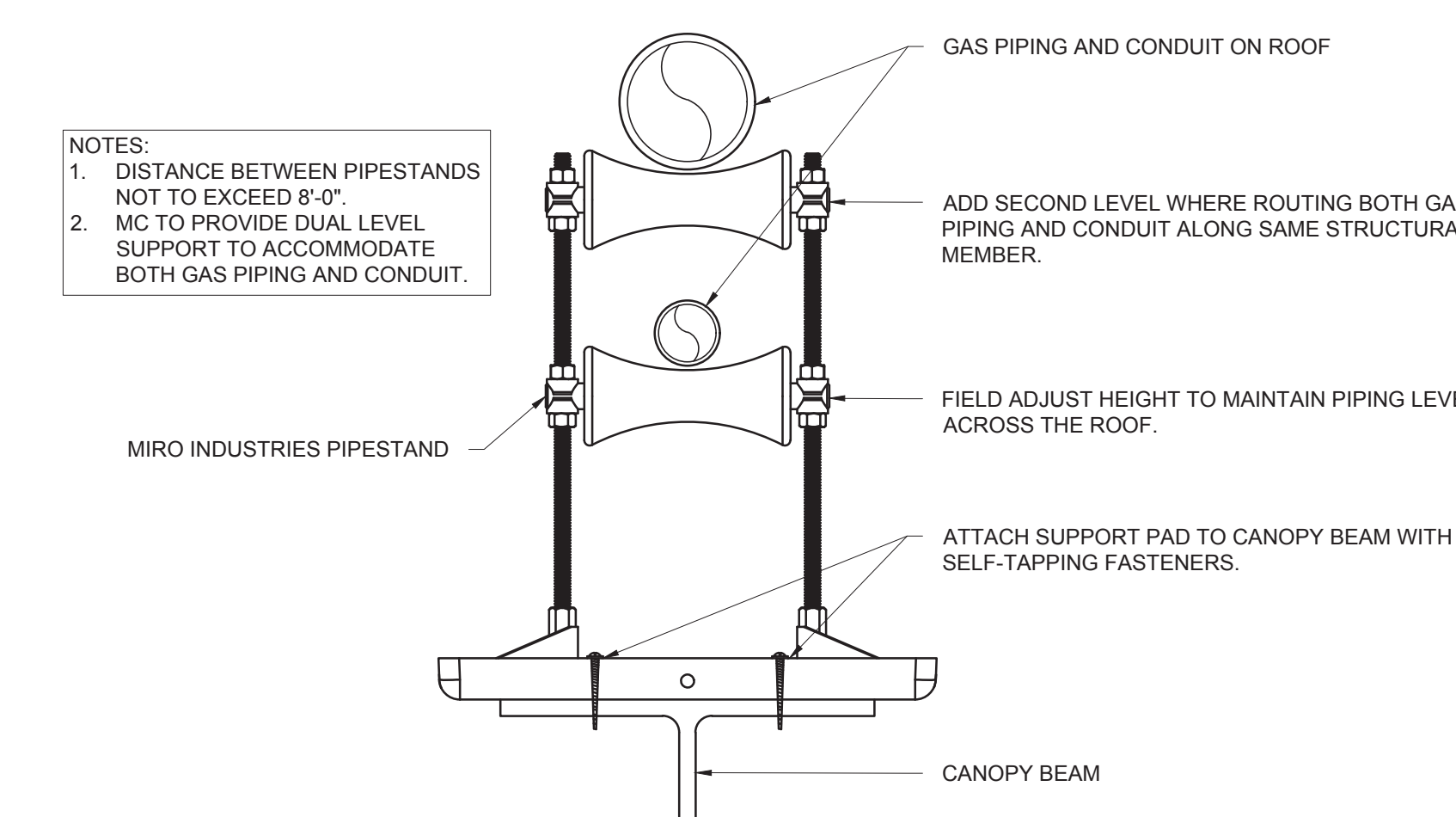
- COORDINATE NEW WORK WITH EXISTING CONDUIT, STRUCTURE AND PIPING. FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.
- COORDINATE LOCATION AND RESPONSIBILITIES FOR UNDERGROUND PIPING AND ASSOCIATED TRENCHING WITH GENERAL CONTRACTOR PRIOR TO START OF WORK.
- EXPOSED GAS PIPING SHALL BE PAINTED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



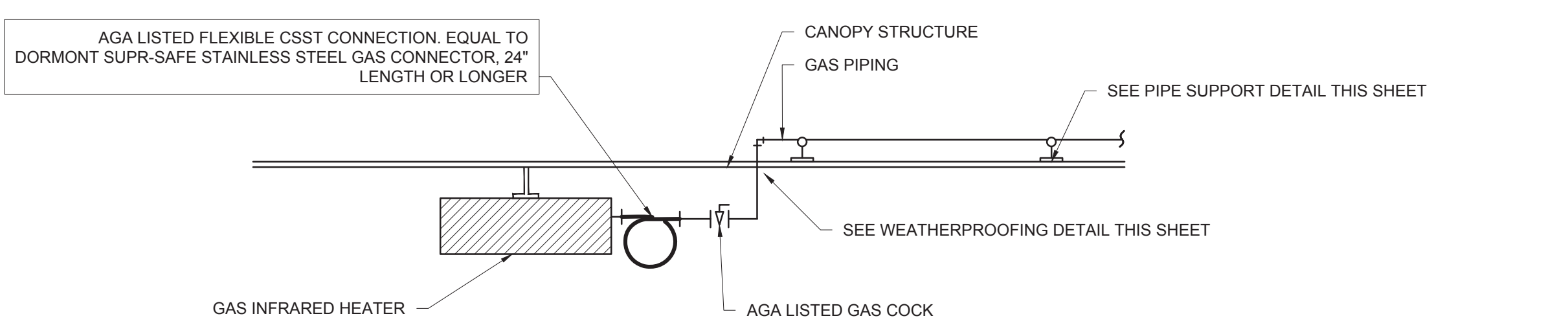
PARAPET PENETRATION DETAIL
NO SCALE



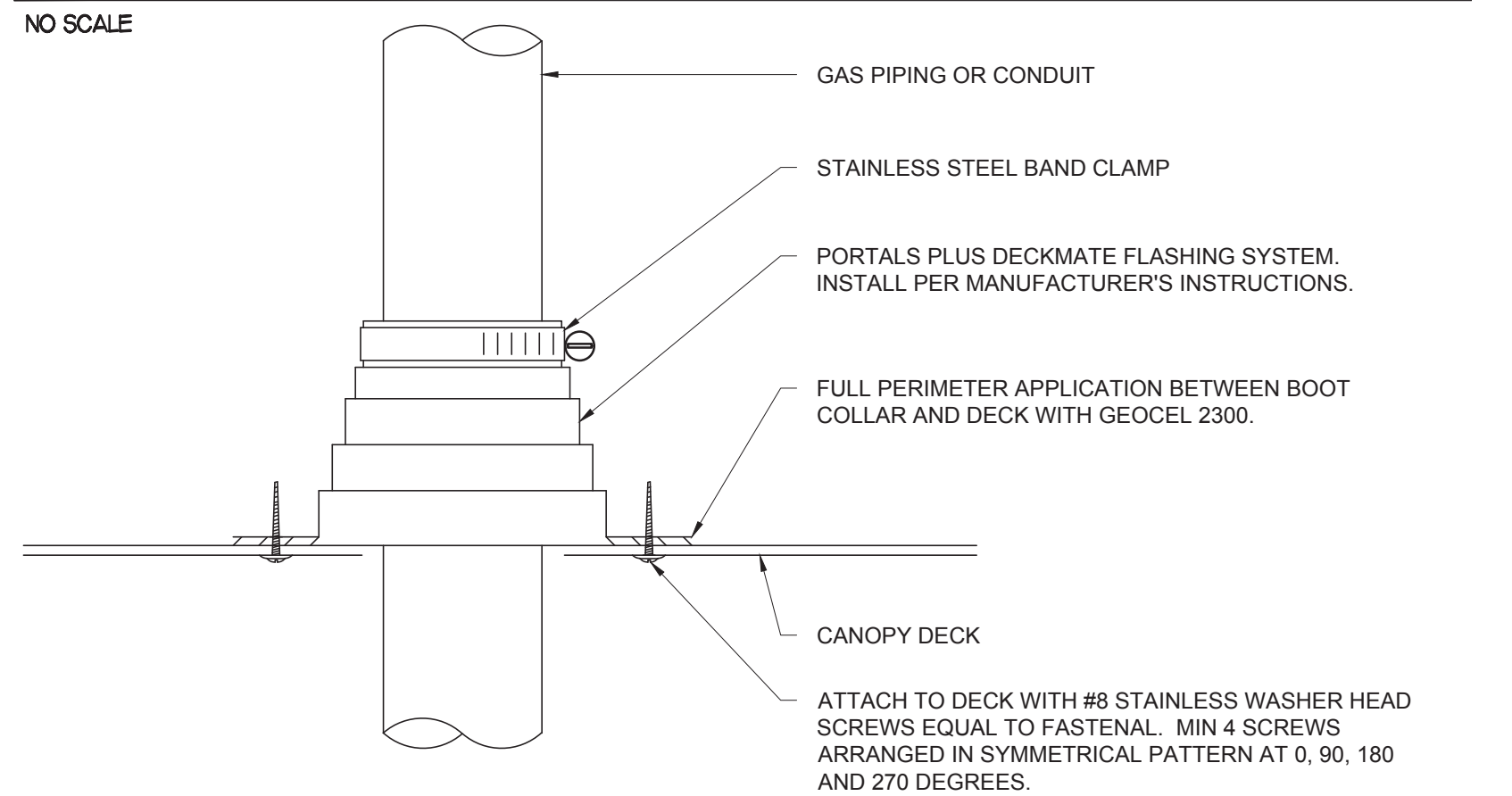
PIPING SUPPORT ON MAIN BUILDING ROOF
NO SCALE



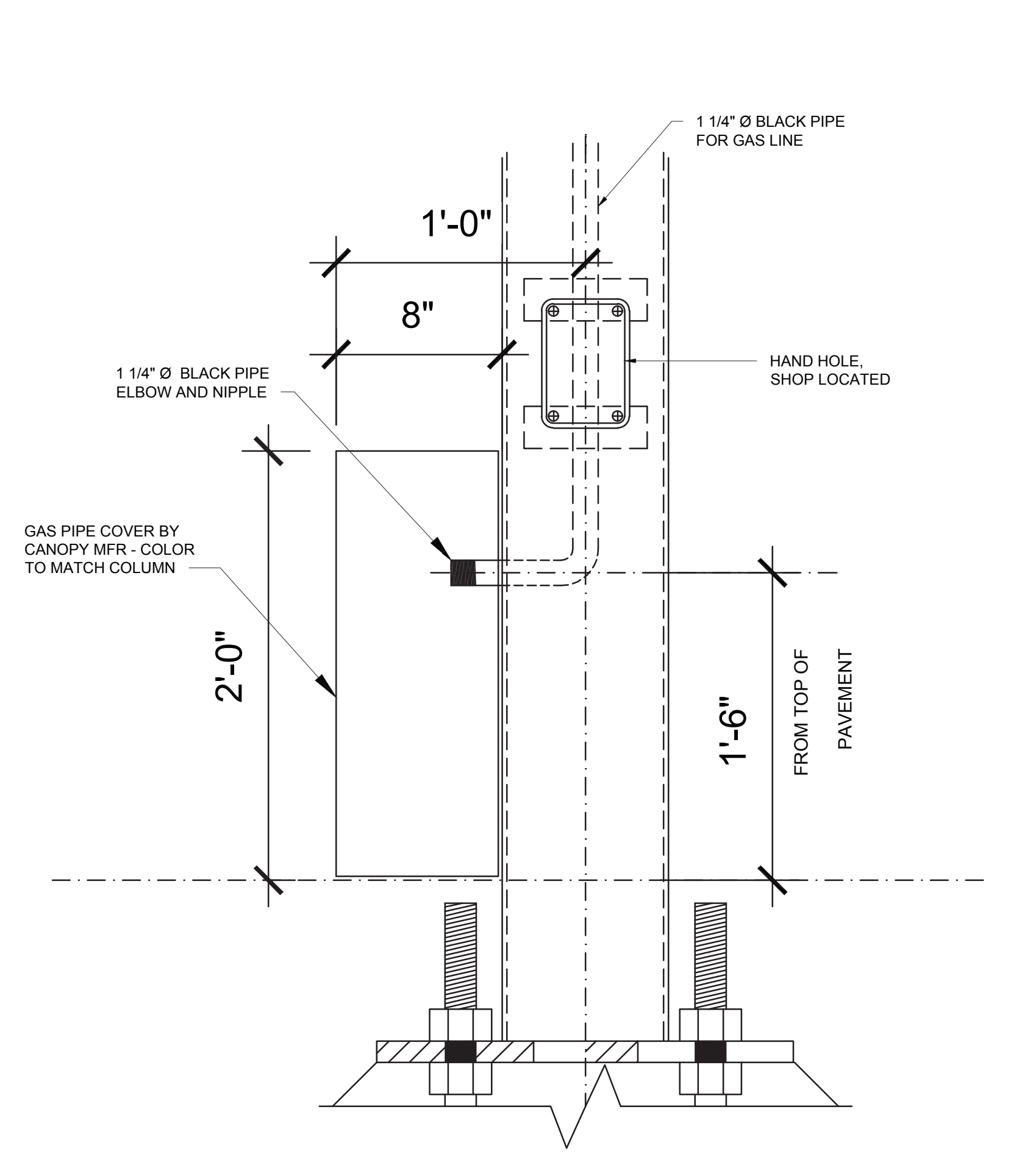
PIPING SUPPORT ON CANOPY
NO SCALE



GAS CONNECTION AT APPLIANCE
NO SCALE



WEATHER PROOFING AT CANOPY PENETRATION
NO SCALE



COLUMN GAS PIPE COVER
NO SCALE



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FSR#01794

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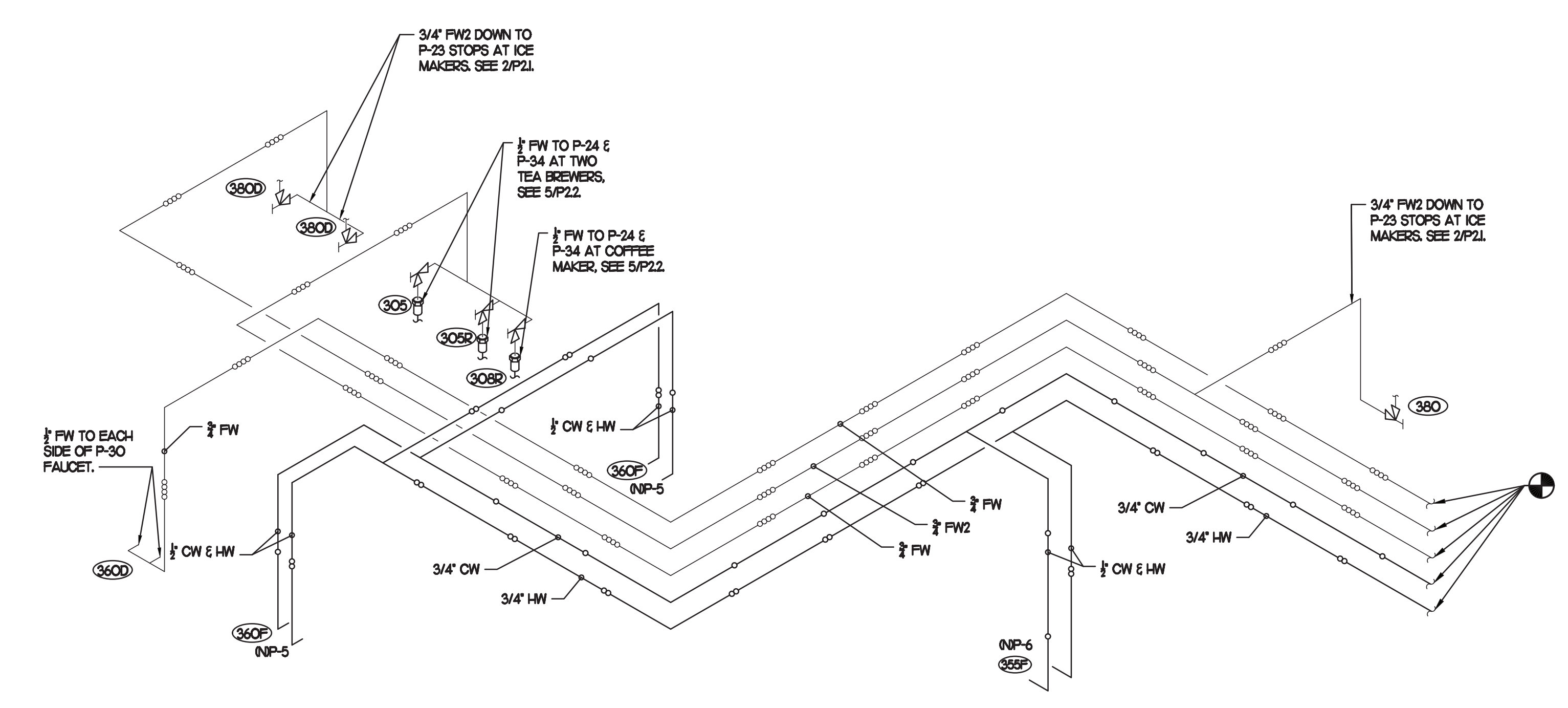
CANOPY DETAILS
SHEET NUMBER

P4.4
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PIPING LEGEND	
	CW - COLD WATER
	HW - HOT WATER
	TW - TEMPERED WATER
	FW - FILTERED WATER, TO P-30, CARBONATORS, COFFEE, AND TEA
	FW2 - FILTERED WATER, TO ICE MAKERS
	EXISTING PIPING

	KITCHEN EQUIPMENT NO. SEE KITCHEN EQUIPMENT SCHEDULE FOR EQUIPMENT DESCRIPTIONS.
--	--



1 WATER RISER DIAGRAM
NO SCALE

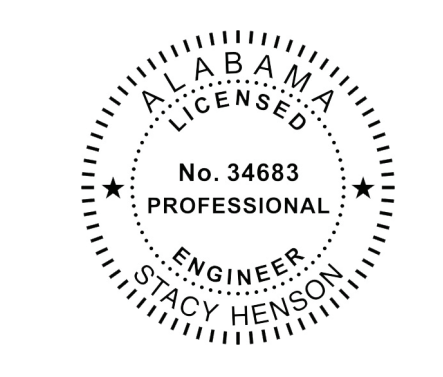


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WATER RISER DIAGRAM
SHEET NUMBER

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I. SECTION C1500 - 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 BLENDED GOLD CPVC. HOT AND COLD PIPING WITHIN WALLS BEHIND KITCHEN HOODS SHALL BE COPPER.
- B. POTABLE WATER PIPING BELOW SLAB AND OUTSIDE BELOW GRADE SHALL BE TYPE 'K' SOFT ANNEALED SEAMLESS. NO JOINTS SHALL BE ALLOWED BELOW SLAB. POTABLE WATER PIPING BELOW GRADE SHALL BE SLEEVED FOR ITS ENTIRE LENGTH WITH POLY SLEEVE AS MADE BY IPS WATER-TITE. ALL SLAB PENETRATIONS SHALL BE SLEEVED WITH POLY SLEEVE TO PROTECT PIPING FROM CORROSION BY CONCRETE.
- C. COPPER PIPE FITTINGS SHALL BE WROUGHT COPPER SWEEP PATTERN FITTINGS SOLDERED USING 95-5 LEAD-FREE SOLDER MEETING ASTM B-32 OR BRAZED WITH SIL-FOS. SOLDER FLUXES SHALL MEET ASTM B-813 AND SHALL BE LEAD FREE. BRAZING FLUXES SHALL MEET AWS FB3-A OR FB3-C.
- D. WATER PIPING DOWNSTREAM OF SOFT DRINK CARBONATORS SHALL BE PROVIDED AND INSTALLED BY LOCAL SOFT DRINK VENDOR.
- E. CPVC FITTINGS FOR PIPING SHALL BE SOLVENT WELD TYPE MEETING ASTM D-2846 WITH CEMENTS MEETING ASTM F-493 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURERS RECOMMENDATIONS. FOR CPVC PIPING INSTALLATION, WALL STUBS AT FIXTURES AND EQUIPMENT SHALL BE COPPER AND SHALL BE SERIES 630-C. CPVC-TO-COPPER STUB OUT ELBOWS BY SIOUX CHEF.

- 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. EXCEPT GALVANIZED WATER HEATER NIPPLES IF INTERNALLY PROTECTED WITH TEFLON OR POLYMER CORROSION-RESISTANT COATING.)
- G. ALL HVAC CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC DWV AS MANUFACTURED BY CHARLOTTE PIPE AND MEETING ASTM D-1784, D-1785 AND D-2665.
- H. U.O. ALL SANITARY WASTE, VENT, STORM DRAINAGE PIPING AND FITTINGS INSIDE THE BUILDING, ABOVE AND BELOW GRADE, AND FOR ROOFTOP CONDENSATE, SHALL BE SIMILAR WALL SCHEDULE 40 PVC DWV AS MANUFACTURED BY CHARLOTTE PIPE AND MEETING ASTM D-2665 AND D-2649. 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.O.

- I. DWV PIPE AND FITTINGS WITHIN WALLS BEHIND KITCHEN HOODS SHALL BE SERVICE WEIGHT HUBLESS CAST IRON WITH SLEEVE, SHIELD, AND DRAWBACK JOINTS MEETING ASTM A-888 AND ASTM C-564.
- J. PVC-DWV FITTINGS FOR PIPING SHALL BE SOLVENT WELD TYPE INSIDE AND UNDERSLAB MEETING ASTM D-2665, D-3311 AND F-186. CEMENTS SHALL MEET ASTM D-2584 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURERS 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 2" THICK INSULATION FOR ALL ABOVE SLAB COLD WATER, FILTERED WATER, CONDENSATE PIPING, AND HORIZONTAL RAIN WATER CONDUCTORS INSIDE THE BUILDING. PIPING INSULATION SHALL BE KNAUF 1000F 25/50 FIBERGLASS PIPE COVERING, WHITE KRAFT PAPER VAPOR BARRIER (02 PERMS) BONDED TO ALUMINUM FOIL AND REINFORCED WITH GLASS FIBERS. MAXIMUM THERMAL CONDUCTIVITY OF 0.23 AT 75F. LONGITUDINAL LAP SHALL BE SELF SEALING. INSULATION FOR WALK-IN COOLER/FREEZER CONDENSATE PIPING SHALL BE ARMAFLEX AP ARMAFLEX WITH MINIMUM 3/2" WALL THICKNESS.

- L. PIPE INSULATION AND COVERINGS SHALL HAVE A RATING OF NOT GREATER THAN 25 FLAME SPREAD, NO HIGHER THAN 50 SMOKE DEVELOPED, AND NO MORE THAN 50 FUEL CONTRIBUTED. THE ONLY EXCEPTION SHALL BE ARMAFLEX AP WHEN SPECIFIED, WHICH SHALL NOT EXCEED 100 SMOKE DEVELOPED.
- M. A PVC 25/50 PRE-FORMED COVER SHALL BE PROVIDED AT ALL INSULATED PIPING FITTINGS EQUAL TO PROTO PVC CORP LOSMOKE, 800-875-7788.
- N. ALL NATURAL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL MEETING ASTM A53 WITH SCREWED OR WELDED FITTINGS AND GASKET TYPE UNIONS AND FLANGES. FOR SCREWED PIPING, PIPING SHALL BE JOINED WITH BLACK 150 POUND MALLEABLE IRON SCREWED FITTINGS AS ALLOWED BY LOCAL AUTHORITY. CONTRACTOR SHALL VERIFY THE NEED FOR WELDED PIPING AS REQUIRED BY THE LOCAL GAS CODE AND/OR APPLICABLE LOCAL ORDINANCES AND AMENDMENTS.

- O. EXPOSED SUPPORTS AND ATTACHMENTS SHALL BE STAINLESS STEEL, CHROME OR CHROME PLATED. GALVANIZED ATTACHMENTS WILL NOT BE ACCEPTED.
- P. USE MATERIALS SPECIFIED ON THESE PLANS. SUBSTITUTIONS ARE ALLOWED ONLY IF SPECIFIED MATERIALS ARE UNAVAILABLE. PRODUCT SUBSTITUTIONS WILL NOT BE ACCEPTED WITHOUT PRIOR APPROVAL. ALL WATER PIPING, FITTINGS, FIXTURES AND ACCESSORIES SHALL BE CERTIFIED LEAD FREE AS DEFINED IN, AND PER THE INTENT OF, THE "REDUCTION IN LEAD IN DRINKING WATER ACT."

PART II - EXECUTION (C15100)

2.01 TRENCHING (C15100)

- A. EXCAVATION, BACKFILLING, AND TRENCH WORK SHALL BE DONE IN ACCORDANCE WITH LATEST O.S.H.A. AND APPLICABLE SAFETY STANDARDS.
- B. PROVIDE NECESSARY SHORING AND CLEANING TO KEEP TRENCHES IN GOOD WORKING CONDITION, INCLUDING PUMPING OUT WATER.
- C. IN MOSTLY ROCK MATERIAL, TRENCHES SHALL BE EXCAVATED TO 6" BELOW THE ELEVATION OF THE BOTTOM OF THE PIPES. AFTER EXCAVATION, TRENCH SHALL THEN BE FILLED TO THE PROPER ELEVATION WITH CRUSHED LIMESTONE GRAVEL. SHALL BE REMOVED FROM UNDER PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH BOTTOM.
- D. IN MOSTLY EARTH OR SAND MATERIAL, TRENCHES SHALL BE EXCAVATED TO 6" BELOW THE ELEVATION OF THE BOTTOM OF THE PIPES. AFTER EXCAVATION, TRENCH SHALL THEN BE FILLED TO THE PROPER ELEVATION WITH FINE SAND OR GRAVEL. TRENCH BOTTOM SHALL BE REMOVED AT PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH BOTTOM.
- E. BACKFILLING AND TAMPING SHALL BE CAREFULLY DONE BY HAND SIMULTANEOUSLY ALONG BOTH SIDES OF THE PIPE USING ROCK FREE EARTH, CRUSHED STONE OR SAND UNTIL THE PIPE IS COVERED TO A DEPTH OF AT LEAST 12". BACKFILL SHALL BE ACCOMPLISHED IN SUCCESSIVE 6" LAYERS. THE REST OF THE FILL-UP TO THE TOPSOIL LAYER MAY BE GRAVEL OR ROCK FREE EARTH.

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

2.02 INSTALLATION (C15100)

- A. WATER PIPING IN EXTERIOR WALL SHALL BE INSTALLED ON THE HEATED SIDE OF WALL INSULATION.
- B. EXPOSED HOT AND COLD WATER TRIM FITTINGS AND ACCESSORIES IN FINISHED AREAS SHALL BE CHROME FINISHED.
- C. ACCEPTABLE METHODS OF PIPE SUPPORT WITHIN WALLS SHALL BE THE SUMNER SYSTEM, POSIFIX, STAKFIX, PIPEFIX, HOLDRITE OR CHANNEL.
- D. PROVIDE J.R. SMITH OR APPROVED EQUAL SHOCK ABSORBERS #5005 THRU 5050 SIZE AS RECOMMENDED BY MANUFACTURER INSTALLED ON HOT AND COLD WATER BRANCH LINES CONTAINING SINGLE LEVER FAUCETS, FLUSH VALVES OR EQUIPMENT WITH QUICK CLOSING VALVES BETWEEN THE LAST TWO FIXTURES AS SHOWN ON THE CONTRACT DRAWINGS. SHOCK ABSORBERS SERVICING FIXTURES WITH FLUSH VALVES SHALL BE SECURELY ANCHORED IN THEIR VERTICAL POSITION.
- E. SANITARY WASTE LINES SHALL BE UNIFORMLY GRADED TO ELEVATIONS SHOWN. IF NO ELEVATIONS ARE GIVEN, SEWERS SHALL BE PITCHED NOT LESS THAN 1/4" PER FOOT FOR ALL PIPING 2-1/2" IN DIAMETER AND SMALLER AND 1/8" PER FOOT FOR ALL PIPING 3" IN DIAMETER AND LARGER.
- F. STORM PIPING SHALL BE SLOPED AT 1/2" 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	1/2
3 TO 6	3/8

- H. HANGERS FOR PIPING GREATER THAN 1" SHALL PASS OVER THE INSULATION. PROVIDE SADDLES FOR INSULATED PIPING.
- I. INSULATION SHALL BE APPLIED WITH JOINTS TIGHTLY BUTTED. OPEN CRACKS, VOIDS AND DEPRESSIONS SHALL BE FILLED WITH HYDRAULIC SETTING CEMENT, LAPPING MATCHING THE FINISH SHALL BE PASTED NEATLY OVER JOINTS. FITTINGS AND VALVES SHALL BE INSULATED WITH THE SAME TYPE.
- J. PROVIDE AND INSTALL A CUT-OFF VALVE, UNION AND FULL SIZE DIRT LEG AT CONNECTION TO EACH GAS-FIRED PIECE OF EQUIPMENT. INSTALL PIPING AT AND AROUND EQUIPMENT SO AS TO NO WAY OBSTRUCT EQUIPMENT ACCESS PANELS AND/OR ACCESS DOORS.
- K. COORDINATE ABOVE-CEILING PIPING LOCATIONS AND ROUTING WITH HVAC CONTRACTOR AND M-SHEETS PRIOR TO INSTALLATION. ALL MAIN DUCT TRUNK LOCATIONS SHALL TAKE PRIORITY. PIPING MAY REQUIRE REMOVAL AND REINSTALLATION AT PLUMBING CONTRACTORS' 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 GAS PAINT TO PIPING BURIED UNDERGROUND.

2.03 TESTING (C15100)

- A. POTABLE WATER PIPING SHALL BE PRESSURE TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.
- B. THE POTABLE WATER SYSTEM SHALL BE FLUSHED OUT PROGRESSIVELY BY OPENING OUTLETS AND FLOWING WATER UNTIL IT RUNS CLEAR. AFTER PIPE CLEANING IS COMPLETED, THE STRAINERS SHALL BE REMOVED, CLEANED, AND REPLACED. THEN THE ENTIRE POTABLE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.
- C. THE SANITARY WASTE SYSTEM SHALL BE FLUSHED OUT PROGRESSIVELY WITH FLOWING WATER UNTIL IT RUNS CLEAR.
- D. THE ENTIRE SANITARY WASTE SYSTEM AND STORM DRAINAGE SYSTEM SHALL BE PRESSURE TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.
- E. NATURAL GAS PIPING SHALL BE LEAK TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

PART III - MANUFACTURERS

- 3.01 PRODUCTS - PIPING SYSTEMS, ETC (C15100)
 - A. HYDRANTS, CARRIERS, DRAINS, AND SHOCK ABSORBERS: JAY R. SMITH, JONES STEPHENS CORP, WATTS ZURN, OR JOSAM.
 - B. ALTERNATE FIXTURES: ONLY AS SHOWN ON PLANS. APPROVED JAY R. SMITH (JRS), WATTS (WTS), AND ZURN (ZRN) 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 BENKE.
 - F. FLOOR SINKS: ZURN WITH ALUMINUM SEDIMENT BUCKETS. NO SUBSTITUTIONS ALLOWED.

2. PLUMBING FIXTURES

RESTROOM FIXTURES (C15405)

- P-1 WATER CLOSET: TOTO MODEL CT705LUNHOI BOWL WITH 128 GPF, TET-4 LNC # 320P ECO-POWER FLUSH VALVE AND SC534 SEAT, NO SUBSTITUTIONS. WHITE, FLOOR MOUNTED, FLUSH VALVE TYPE, VITREOUS CHINA, 1/2" TOP SPLD, 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 CT705LUNHOI BOWL WITH 128 GPF TET432CP ECO-POWER FLUSH VALVE AND SC534 SEAT, NO SUBSTITUTIONS. H.C. ACCESSIBLE, WHITE, FLOOR MOUNTED, 17-1/2" HIGH FLUSH VALVE TYPE, VITREOUS CHINA, 1/2" TOP SPLD, 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 UT445J URINAL WITH TEU1 UA 12HC, Q1/2 GPF SELF SUSTAINED HYDROPOWER SELF-GENERATING ELECTRONIC SENSOR-OPERATED FLUSH VALVE, VITREOUS CHINA, 3/4" TOP SPLD, SENSOR OPERATED WITH MANUAL OVERRIDE BUTTON, INTERNAL VALVE FILTER PROTECTION, PLEASE SEE NATIONAL ACCOUNT INFORMATION ON THIS SHEET FOR PRICING OF TOTO PRODUCTS.
- P-4 LAVATORY FAUCET: BUILT-IN COUNTERTOP LAVATORY PROVIDED BY OWNER; TOTO MODEL TEL 105-D10ET # CP ECO-POWER SENSOR HOT/COLD FAUCET WITH THERMOSTATICALLY CONTROLLED ASSE 1070 MIXING VALVE FAUCET, 0.09 GALLONS PER CYCLE, NO SUBSTITUTIONS. PROVIDE MCGUIRE LF775 SUPPLY WITH STOP, MCGUIRE B57WC GRID DRAIN WITH OFFSET TAILPIECE, MCGUIRE 8872 POLISHED CHROME P-TRAP, P-TRAP SHALL BE PARALLEL WITH BACK WALL, PROVIDE A TOLERCO INC. HANI LAV-GUARD INSULATION KITS MODEL'S 10E-Z AND 10E-Z-2. 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 AND FAUCET WITH 1.0 GPM AERATOR FURNISHED BY OWNER; CONTRACTOR SHALL INSTALL WALL HUNG, STAINLESS STEEL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE LF775 SUPPLIES WITH STOPS AND A MCGUIRE 892 POLISHED CHROME P-TRAP, ADJUST FAUCET OUTLET TEMPERATURE TO 110 DEGREES F OR HIGHER AS REQUIRED BY LOCAL JURISDICTION.
- P-6 SERVING COUNTER DROP IN SINK ROUGH IN SINK AND FAUCET WITH 1.0 GPM AERATOR FURNISHED BY OWNER; CONTRACTOR SHALL INSTALL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE 892 POLISHED CHROME P-TRAP AND MCGUIRE LF775 STOPS WITH 20" CHROME PLATED 3/8" COPPER RISER, 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 T65 BRASS MODEL B-2345 FAUCET WITH OSRAMA SPRING CHECK VALVE CARTRIDGES, HOSE THREAD SPOUT OUTLET, TOP BRACE, ADJUSTABLE INLET SPREAD FROM 3" TOP 8", INCLUDE T65 BRASS MODEL 43-072 HOSE THREAD X 3/4" FEMALE NPT CHROME ADAPTOR, NO SUBSTITUTIONS, SEE ALSO P-6.
- P-8 VEGETABLE PREP SINK ROUGH-IN SINK AND FAUCET WITH 0.65 GPM SPRAY HEAD FURNISHED BY OWNER; CONTRACTOR SHALL INSTALL SINK AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE LF708 STOPS AND BRASSAFAST 3/4" CHROME PLATED 1/2" CO COPPER RISERS MODEL 3-36AC, ASSEMBLE AND MOUNT TWO HANDLE FAUCET WITH PRE-RINSE SPRAY ARM. INSTALL ADD-ON FAUCET WITH 18" SPOUT AT BASE OF PRE-RINSE RISER. SEE K-SHEET ELEVATIONS, PROVIDE 1/2" SCHED 80 PVC (PIPE AND FITTINGS) INDIRECT WASTE MAINFOLD FROM SINK BASIN TO FLOOR SINK P-38, NO P-TRAP REQUIRED. INSTALL CLEANOUT AT TURN.
- P-9 FOUR COMPARTMENT POT SINK ROUGH-IN SINK AND FAUCETS WITH 0.65 GPM SPRAY HEAD FURNISHED BY OWNER; CONTRACTOR SHALL INSTALL SINK, ASSEMBLE & MOUNT TWO FAUCETS, AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE LF708 STOPS AND BRASSAFAST 3/4" CHROME PLATED 1/2" CO COPPER RISERS MODEL 3-36AC, ASSEMBLE AND MOUNT ONE TWO-HANDLE FAUCET WITH PRE-RINSE SPRAY, INSTALL ADD-ON FAUCET WITH 18" SPOUT AT BASE OF PRE-RINSE RISER, ASSEMBLE AND MOUNT ONE TWO-HANDLE FAUCET WITH DOUBLE JOINT SPOUT ON OPPOSITE SIDE. SEE K-SHEET ELEVATIONS FOR FAUCET LOCATIONS. PROVIDE 1/2" SCHED 80 PVC (PIPE AND FITTINGS) INDIRECT WASTE MAINFOLD FROM EACH SINK BASIN TO FLOOR SINK P-38, NO P-TRAPS REQUIRED. PROVIDE CLEANOUT AT EACH END.
- P-10 FLOOR DRAIN (3") JONES STEPHENS CORP D53-144 PVC BODY, BRONZE SPLD WITH 8" DIAMETER NICKEL BRONZE STRAINER, ALT. (LRS) 210-H-F-NB, (WTS) FD103-A8-60, (ZRN) FRO8NP35-C.
- P-11 WALL HYDRANT (NON-FREEZE): WOODFORD MODEL 67-C AUTOMATIC CIRCULATING WALL HYDRANT WITH DUAL CHECK BFF, ASSE 1052 APPROVED, WALL CLAMP, POLISHED BRASS FINISH, "C" STYLE INLET, SEE WALL HYDRANT NOTES ON 1P2-H FOR WALL THICKNESS AT WALL HYDRANTS, ALT. (WTS) HY-42.
- P-12 FUNNEL DRAIN (3") JR. SMITH 3510L3 FUNNEL-CEPTOR 3" INDIRECT WASTE RECEIVER WITH NICKEL BRONZE STRAINER AND FUNNEL. PROVIDE 6" SQUARE F12 STRAINER WITH 4" ROUND FUNNEL AT WALK-IN COOLER, ALT. (WTS) FD103-M6-F4-1, (ZRN) 21415-3N-65-4.
- P-13A FLOOR SINK (POT SINK) ZURN MODEL 2190-KC-1-3N-1-23 CAST IRON INDIRECT WASTE RECEIVER WITH 1/2" DIAMETER FLASHING CLAMP, 8" DEEP, ALUMINUM SEDIMENT BUCKET, AND NO GRATE, NO SUBSTITUTIONS.
- P-13B FLOOR SINK (VEGETABLE SINK) ZURN MODEL 2190-KC-3N-1-23 CAST IRON INDIRECT WASTE RECEIVER WITH FLASHING CLAMP, 8" SQ. BODY, ALUMINUM SEDIMENT BUCKET, AND NO GRATE, NO SUBSTITUTIONS.
- P-14 CLEANOUTS INSIDE BUILDING: JR. SMITH 4053L CLEANOUT WITH 6-1/2" SQUARE NICKEL BRONZE TOP AND TAPER THREAD BRONZE FLUS. SEE PLAN FOR SIZE, ALT. (PIPE DIA) (WTS) CO-20X-F-S, (ZRN) 21400-XN-T-F-P.
- P-15 CLEANOUTS OUTSIDE BUILDING: JR. SMITH 425L SERIES EXTRA HEAVY DUTY CAST IRON CLEANOUT, "C": CAST IN COVER, ABS FLUG, SPEED) SET OUTLET, ALT. (PIPE DIA) (WTS) CO-X00-MF + CO-38X, (ZRN) 21474-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 OUTLETS AND QUARTER TURN LEVER HANDLE, PROVIDE WITH TWO (2) FORGED BRASS 3/4" MP X 3/4" MALE GARDEN HOSE THREAD ADAPTERS, PLUMBEST MODEL 620-003 OR EQUAL, PROVIDE WITH ONE ASSE 101 APPROVED CHROME PLATED VACUUM BREAKER (WOODFORD MODEL 34H-C1 OR EQUAL). FOR INSTALLATION AT MOP SINK, SEE 4P2-1, 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 LFN56M, 3/4" CONNECTION.
- P-18 EXPANSION TANK: STATE INDUSTRIES MODEL ETC-5X, ACCEPTANCE 3.05 GALLONS AT 40 PSI PRECHARGE, 3/4" CONNECTION, ALTERNATE MODELS SIZED PER WATER HEATER MANUFACTURER RECOMMENDATIONS ARE ACCEPTABLE.
- P-19 EXISTING WATER HEATER TO REMAIN.

- P-20 THERMOMETER: PROVIDE THERCO MODEL 8834-04-04 3" DIAL TYPE THERMOMETER WITH BOTTOM 1/2" N.P.T. CONNECTION, 4" STEM AND 0 DEG F TO 200 DEG F RANGE, LEAD FREE.

- P-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. LF0007MOT 1/2" DUAL CHECK MODULAR TYPE BACKFLOW PREVENTER MEETING ASSE 105 AND ANWA C510-92, WHERE REQUIRED BY LOCAL AUTHORITY, USE THE RP2 TYPE BFF SHOWN BELOW, ALT. (ZRN) 112-350XL.

REDUCED PRESSURE ZONE (RPZ) TYPE:
WATTS NO. LF0009M2 1/2" MODULAR TYPE WITH TEST PORTS AND INTERMEDIATE RELIEF VALVE MEETING ASSE 105 AND ANWA C510-92, PROVIDE WATTS NO. 909-AG-C AIR GAP DEVICE, ALT. (ZRN) 112-975XL2.

- P-22 MOP SINK CHECK VALVES: T65 BRASS 1/2" MODEL B-CVW-2 BALL CHECK.
- P-23 UTILITY CONNECTION (ICEMAKERS) PROVIDE A MCGUIRE MODEL LFH5T06SB LEAD-FREE CHROME WHEEL ANGLE STOP, 1/2" FIP INLET AND OUTLET, PROVIDE CHROME WALL ESCUTCHEON. INSTALL WITH BFF P-34. SEE DETAIL 3P2-1 FOR PIPING AT ICE MAKERS.
- P-24 UTILITY CONNECTION (COFFEE & TEA BREWERS) PROVIDE A MCGUIRE MODEL LFH5T06SB LEAD-FREE CHROME WHEEL ANGLE STOP, 1/2" FIP INLET AND OUTLET, PROVIDE CHROME WALL ESCUTCHEON. INSTALL WITH BFF P-34.

- P-25 SHOCK ABSORBER: JR. SMITH FIGURE 5005 THROUGH 5050, SIZE AS RECOMMENDED BY MANUFACTURER, ALT. (WTS) SSA + SSB, (ZRN) 21700-100 + 21700-300.

- P-26 FUNNEL DRAIN (3") JR. SMITH 3510L3 FUNNEL-CEPTOR 3" INDIRECT WASTE RECEIVER WITH NICKEL BRONZE STRAINER AND FUNNEL. PROVIDE 6" SQUARE F22 STRAINER WITH 3.25"X 8.25" OBLONG FUNNEL, ALT. (WTS) FD103-A8-G-1, (ZRN) 21415-3N-65-CP.

- P-26A TRAP SEAL PROTECTOR: PREVENT TRAP GROUND MODEL TG3H 3" TRAP SEAL INSERT FOR INTERIOR INSTALLATION AND REPLACEMENT THROUGH STRAINER. PROVIDE AT P-35 FLOOR DRAINS IN RESTROOMS, P-37 FLOOR DRAINS DINING ROOM, AND P-26 FUNNEL DRAINS IN MECH ROOM. TRAP GUARDS TO BE USED ALONG WITH MECHANICAL TRAP PRIMERS. PROVIDE PROSET MODEL TG33-ZURN WHEN USING ZURN FLOOR FIXTURES.

- P-27 WATER PRESSURE GAUGE: THERCO MODEL 600B, 2-1/2" ROUND, BOTTOM OUTLET WITH 1/4" N.P.T. CONNECTION AND 0 TO 100 PSI RANGE.

- P-28 BALL VALVE: NIBCO MODEL 4660-2, 3/4", WITH IPS INLET AND OUTLET.

- P-29 ICE MACHINE TRENCH DRAIN: ZURN STAINLESS DRAINS. TR12-0FA-X STAINLESS STEEL TRENCH DRAIN, 145" X 1/2", STAINLESS STEEL SEDIMENT CLIP AND STAINLESS STEEL SEPARATED LADDER GRATE 00X-DRAIN WIDTH, 183/67/48" PROVIDED BY H.C.O. NO SUBSTITUTIONS.

- P-30 FILTERED WATER FAUCET: (FAUCET PROVIDED BY OWNER) TWO-HANDLE WALL MOUNT FAUCET WITH SWING SPOUT. MOUNT ON WALL AS SHOWN ON K-SHEETS. PIPE FILTERED WATER TO BOTH SIDES OF FAUCET, CONNECT TO SUPPLY PIPING WITH BRASS OR CHROME NIPPLES, GALVANIZED NOT ALLOWED.

- P-31 DUMPSTER POST HYDRANT (NON-FREEZE): WOODFORD MODEL Y2 LEVER TYPE POST HYDRANT, 3/4 HOSE CONNECTION, LOCKABLE LEVER HANDLE, BRASS CASING, BRASS OPERATING ROD, ASSE 1052 APPROVED AND 24" DEPTH OF BURR.

- P-32 DUMPSTER PAD DRAIN: JR. SMITH FIGURE NO. 2280C03 3" FLOOR DRAIN WITH 7-1/2" HINGED CAST IRON SLOTTED GRATE AND SEDIMENT BUCKET, PROVIDED AND INSTALLED BY SITE CONTRACTOR, ALT. (ZRN) Z560-3N-1.

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

- P-34 DISPENSER BACKFLOW PREVENTER: WATTS MODEL WMLF7R22Z ASSE 1034 BATED WITH 1/2" FIP INLET AND OUTLET, DUAL CHECK TYPE. PROVIDE 1/2" DIA X 2" LONG CHROME NIPPLE AT BFF INLET AND OUTLET, PROVIDE T65 BRASS MODEL B-010 CHROME WALL BRACKET.

- P-35 FLOOR DRAIN (3") JONES STEPHENS CORP D50-064 PVC BODY, BRONZE SPLD WITH 6" DIAMETER NICKEL BRONZE STRAINER. SEE DWG PH FOR DRAINS IN RESTROOMS REQUIRING 1/2" TRAP PRIMER CONNECTION, ALT. (WTS) FD103-A8-60, (ZRN) FRO8NP35-C.

- P-36 BEVERAGE TOWER INDIRECT RECEIVER (3") JONES STEPHENS CORP D53-144 PVC BODY, BRONZE SPLD WITH 8" DIAMETER NICKEL BRONZE STRAINER, ALT. (LRS) 210-H-F-NB, (WTS) FD103-A8-60, (ZRN) FRO8NP35-C.

- P-37 FLOOR DRAIN (3") JONES STEPHENS CORP D50-076 PVC BODY, BRONZE SPLD WITH 6" SQUARE NICKEL BRONZE STRAINER, PROVIDE 1/2" TRAP PRIMER CONNECTION FOR DINING ROOM DRAINS, ALT. (WTS) FD103-M6-7-60, (ZRN) FRO8NP35-C.

- P-38 HOT WATER CIRCULATING PUMP: TACO MODEL 006-SC7-1FC, 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 LC605016 (NO VAC-AQUA-STAT), WITH ADJUSTABLE SETPOINT, MOUNTED DIRECTLY ON PIPE (ALL PROVIDED BY H.C.O.) SET SHUT-OFF TEMPERATURE AT 190 DEG F.

- P-39 2" PRESSURE REDUCING VALVE: WATTS NO. H4223-SB WITH BUILT-IN BYPASS FEATURE. SET NO FLOW CONDITION AT 70 PSI, ALT. (ZRN) SERIES 500XLYSBR.

- P-40 WYE STRAINER WITH #100 SCREEN: 2" WATTS LF7775M3, BRONZE WYE STRAINER WITH T-THREADED CONNECTION AND TAPPED RETAINER CAP. PROVIDE #100 MESH SCREEN. PROVIDE WATTS 1/2" BD-10 BRASS BOLLER DRAIN WITH BRASS STREET ELBOW, MALE END SIZED FOR CONNECTION TO WYE STRAINER RETAINER CAP OUTLET TAP.

- P-41 DISHWASHER SUPPLY VALVES (CHAMPION) FULL-PORT LEAD-FREE STAINLESS STEEL BALL VALVES PROVIDED BY H.C.O. WITH SPLIT-RING BRACKET, CHROME FITTINGS, PIPE NIPPLES AND ESCUTCHEON AS DETAILED ON 2P-302.

- P-42 EMERGENCY THERMOSTATIC MIXING VALVE (EMERGENCY EYEWASH) BRADLEY MODEL S19-2000 FX8 THERMOSTATIC TEMPERING VALVE, ANSI Z358.1 CERTIFIED FOR EMERGENCY FIXTURES, ASSE 1071 COMPLIANT, WITH DIAL THERMOMETER, INLET CHECK STOPS, ADJUSTABLE SETPOINT, ACCURATE WITHIN +/- 3 DEG F, INCLUDES INTEGRAL COLD WATER BYPASS WITH POSITIVE HOT WATER SHUT-OFF WHEN COLD WATER SUPPLY IS LOST, FACTORY SETPOINT OF 85 DEG F, MOUNTING BRACKET INCLUDED, FACTORY ASSEMBLED AND TESTED, ROUGH BRASS FINISH, NO SUBSTITUTIONS, CONTACT CHICK-FIL-A NATIONAL ACCOUNTS AT HAYNES, JONES & CADBURY FOR PRICING AND DELIVERY.

- P-43 SUPPLY VALVE (RE-THERMALIZER) FULL-PORT LEAD-FREE STAINLESS STEEL BALL VALVE PROVIDED BY H.C.O. WITH SPLIT-RING BRACKET, CHROME FITTINGS, PIPE NIPPLES AND ESCUTCHEON AS DETAILED ON 3P-302.

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



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PLUMBING SPECIFICATIONS
SHEET NUMBER

LIGHTING FIXTURE (LUMINAIRE) SCHEDULE - CHICK-FIL-A									
MARK	MANUFACTURER	CATALOG NUMBER	NO. LAMPS/TYPE	SYL LAMP NO.	WATTS	VOLTS	MOUNTING	REMARKS	
A	LITHONIA	2GTL-472L-A12125V-EZ1-LP840	INTEGRAL WITH FIXTURE	-	52.3	120	RECESSED	2'X4' STATIC LED TROFFER RATED 7200 LUMENS, 4000K COLOR TEMP	
AE	LITHONIA	2GTL-472L-A12125V-EZ1-LP840-EL14L	INTEGRAL WITH FIXTURE	-	52.3	120	RECESSED	SAME AS 'A' WITH EMERGENCY BATTERY PACK. SEE PLAN NOTES ABOUT LAMP SWITCHING	
A2	LITHONIA	2RTBS-217-MNOLT-B5NP	2-F017/835/XP/SS/ECO	22491	34	120	RECESSED	2'X2' STATIC TROFFER, SMOOTH SIDE OF PRISMATIC LENS DOWN.	
A3	LITHONIA	2PM3NGB-2-17-9-LD-MVOLT-GE10IS	2-F017W T8 (24")	-	34	120	RECESSED	2'X2' STATIC TROFFER, SMOOTH SIDE OF PRISMATIC LENS DOWN.	
A3E	LITHONIA	2PM3NGB-2-17-9-LD-MVOLT-GE10IS-EL14	2-F017W T8 (24")	-	34	120	RECESSED	SAME AS 'A3' WITH EMERGENCY BATTERY PACK. SEE PLAN NOTES ABOUT LAMP SWITCHING	
B1	METALUX	2V13-LDS-UNV-L840-CD1-SSL-U	INTEGRAL WITH FIXTURE	-	35	120	SURFACE	MOUNT LIGHT TO BTM OF OVERHEAD WIRE SHELVING & PROVIDE CORD & PLUG	
B3	CON-TECH	UF228-P WITH PLUG & CORDSET	1-FP28/835/ECO	20901	31	120	SURFACE	REFER TO SHEET E2.4, KEYNOTE #11, FOR ADDITIONAL INFORMATION.	
D1	LITHONIA	REAL6C06/MW/1000L/30K/955C-LP6LN	FURNISHED	-	14.2	120	RECESSED	LED DOWNLIGHT WITH WHITE TRIM	
D2	LITHONIA	REAL6C06/BZ/1000L/30K/955C-LP6LN	FURNISHED	-	14.2	120	RECESSED	LED DOWNLIGHT WITH BRONZE TRIM - USED ONLY IN WOOD OR COLORED CLGS	
D3	LITHONIA	LDN6-30/20-L06AR-LSS-MVOLT	FURNISHED	-	22.6	120	RECESSED		
D3E	LITHONIA	LDN6-30/20-L06AR-LSS-MVOLT-EL	FURNISHED	-	22.6	120	RECESSED		
D	LITHONIA	2RTL4-48L-EZ1-LP830DGA24	LED	-	48	120	RECESSED	2'X4' VOLUMETRIC RECESSED LIGHTING SYSTEM WITH DRYWALL GRID ADAPTER	
DE	LITHONIA	2RT4-48-EZ1-EL14L-lp830/9924	LED	-	48	120	RECESSED	SAME AS 'D' WITH EMERGENCY BATTERY PACK. SEE PLAN NOTES ABOUT LAMP SWITCHING	
F	MEYDA	162165	LED	-	8.5	120	SURFACE	EGG LIGHT ABOVE SERVING COUNTER	
G	LITHONIA	C-132-AL-MVOLT-OS10IS	1-F028/835/XP/SS/ECO	22178	25	120	SURFACE	STRIP FLUORESCENT WITH LOW TEMP BALLAST, MOUNT WITHIN AWNING ON FRAME	
G1	LITHONIA	C-232-AL-MVOLT-OS10IS-WGCUN	2-F028/835/XP/SS/ECO	22178	50	120	WALL	STRIP FLUORESCENT WITH LOW TEMP BALLAST AND WIREGUARD, MTD ABOVE DOOR FRAME	
J	LITHONIA	CA-132-MVOLT-OS10IS	1-F028/835/XP/SS/ECO	22178	25	120	WALL	MOUNT ABOVE DOOR FRAME	
J1	LITHONIA	Z-132-MVOLT-OS10IS	1-F028/835/XP/SS/ECO	22178	32	120	COVE	MOUNT IN MENUBOARD COVE AND PROVIDE TUBE GUARDS ON LAMPS	
J2	LITHONIA	AV-G232-MDR-ASY-MVOLT-OS10IS	2-F028/835/XP/SS/ECO	22178	50	120	RECESSED	1'X4' ASYMMETRIC WITH LIGHT DIRECTED TOWARDS THE CENTER OF THE ROOM	
K2	JUNO / INDY	MS302-WH/HB-28/T5621/HB-28 142776	LED	PHILLIPS	28	120	RECESSED	WHITE HOUSING 2 LAMP MULTI-SPOT WITH LED RETROFIT LAMPS, AIM AS DIRECTED	
K4	JUNO / INDY	MS302-WH/HB-28/T5621/MSS70BL	2-12PAR30S/END/F22/27K	PHILLIPS	24	120	RECESSED	SAME AS K2 WITH BLACK HOUSING - USED ONLY IN WOOD OR COLORED CLGS	
L	LITHONIA	VSL-232-MVOLT-DL-OS10IS	2-F028/835/XP/SS/ECO	22178	50	120	SURFACE	LOW PROFILE DAMP LOCATION FLUORESCENT.	
MS	LEVITON	PS110-10W	N/A	-	4	120	WALL	MOTION SENSOR ON FLUSH BACKBOX, PROVIDE COVERPLATE W/ CENTER THREADED KNOCKOUT	
M	LITHONIA	2GT8-G-232-A12V-MVOLT-OS10ISH	2-F028/835/XP/SS/ECO	22178	50	120	RECESSED	SAME AS 'A' EXCEPT WITH TWO LAMPS. SEE PLAN NOTES ABOUT LAMP SWITCHING.	
ME	LITHONIA	2GT8-G-232-A12V-MVOLT-OS10ISH-EL	2-F028/835/XP/SS/ECO	22178	50	120	RECESSED	SAME AS 'A' EXCEPT WITH TWO LAMPS. SEE PLAN NOTES ABOUT LAMP SWITCHING.	
N	MINKA	4531-2878	1-CF19EL/MINI-TWIST/2700	29396	19	120	WALL	"COW BELL" LAVATORY WALL SCIENCE WITH SHADE POINTED DOWN	
P1	MEYDA	142776	2-CF19EL/MINI-TWIST/2700	29396	38	120	PENDANT	PEACH BASKET PENDANT WITH BTM AT 6'-6" AFF ABV TABLE, 7'-6" OTHERWISE	
Q	TROY	KF14856-1	FURNISHED	-	43	120	PENDANT	CUSTOM 48"X12"X12" COCA-COLA BOTTLE PENDANT, BTM AT 6'-3" AFF	
R	LITHONIA	2RTL4-48L-EZ1-LP830	LED	-	48	120	RECESSED	2'X4' VOLUMETRIC RECESSED LIGHTING	
RE	LITHONIA	2RTL4-48L-EZ1-EL14L-LP830	LED	-	48	120	RECESSED	SAME AS R WITH EMERGENCY BATTERY PACK	
S	LITHONIA	RTL2-33L-EZ1-LP830	LED	-	33	120	RECESSED	2'X2' VOLUMETRIC RECESSED LIGHTING	
SE	LITHONIA	RTL2-33L-EZ1-EL14L-LP830	LED	-	33	120	RECESSED	SAME AS S WITH EMERGENCY BATTERY PACK	
U	BESA LIGHTING	BES00298-060	FURNISHED	-	7.5	120	PENDANT	RED FRIT GLASS, BRONZE CABLE & CANOPY, 6'-6" AFF	
CON-TECH		LA-17A-P	N/A	-	-	-	120	TRACK	PENDANT ADAPTER FOR CON-TECH 'LT SERIES' LIGHTING TRACK
U1	CON-TECH	LT-4 OR 8-P TRACK, LA9 END FEED, LA2 MINI-CONNECTORS AND LA-17A-P PENDANT ADAPTORS					120	CEILING	LIGHTING TRACK WITH ACCESSORIES AS REQ'D, LENGTH AS NOTED
V	VISUAL COMFORT	SL2923BZ	1-LED8A19/DIM/O/827	78935	8	120	WALL	BOSTON LIBRARY LIGHT WITH RETROFIT LED LAMP, MOUNT BACKBOX AT 86" AFF	
XA	LITHONIA	LHQM-S-W-1-R-120	INTEGRAL WITH FIXTURE	-	4	120	WALL	EXIT SIGN WITH BATTERY PACK AND TWO INTEGRAL ADJUSTABLE LAMPHEADS	
XB	CHLORIDE	CX66	INTEGRAL WITH FIXTURE	-	3	120	CEILING	WHITE THERMOPLASTIC BATTERY PACK UNIT WITH TWO LAMPHEADS	
XC	LITHONIA	AFN-BN-EXT (TWO LAMP UNIT)	INTEGRAL WITH FIXTURE	-	21	120	WALL	EXTERIOR WALL MOUNTED EMERGENCY LIGHTING UNIT, LOCATE NEAR EGRESS DOOR	
OB	LUMUX	SL563SS-PL26-120	1-CFTR26W/CX240/827	20767	31	120	SEMI-REC	7 INCH DIAMETER TEMPERED FROSTED LENS WITH STAINLESS STEEL GRID & POLYMER HOUSING	
OC	LITHONIA	TFR-400M-TA-TB-SCWA-IS-LPI	1-M400/PS/U	64321	456	120	PIPE	FLOODLIGHT MTD ON ROOF ON 2" PIPE SUPPORT (BY OTHERS) AND AIMED AT FLAG AFTER DARK	
OD	LITHONIA	DSX0-LED-40C-1000-40K SERIES (DISTRIBUTION TYPES TO BE DETERMINED BY THE REGIONAL TEAM SPECIFIC TO THE SITE.)	FURNISHED	-	138	120	POLE	COORDINATE WITH THE SPECIFIC SITE CONDITIONS FOR DISTRIBUTION TYPE(S) AND POLE STYLE & HEIGHT. REFER TO THE ELECTRICAL SITE PLAN FOR FURTHER INFORMATION.	
* OG								REFER TO SHEET ES2.1 (PHOTOMETRIC PLAN) FOR THE SITE SPECIFIC LIGHTING FIXTURE USED IN LIEU OF TYPE OD WHEN REQUIRED.	
OH	LITHONIA	L3LED-T24/40PA-TRMW-30K-90CRI	FURNISHED	-	11.2	120	RECESSED	4" OPEN CLEAR DIFFUSER DOWNLIGHT WITH 3000K, 93 CRI, 600LUMEN	
OJ	SECURITY LTD	RWSC-72LLED-UD-DB-UNV-3K (DARK BRONZE)	FURNISHED	-	25	120	WALL	UP/DOWN DECORATIVE EXTERIOR WALL SCIENCE, SEE ELEVATIONS FOR MOUNTING HEIGHT	
OK	LITHONIA	TWA-50M-120-LP1	FURNISHED	-	12.9	120	WALL	CENTERLINE OF FIXTURE AT 8'-0" ABV 0'-0" (FINISH FLOOR LINE)	

NOTES:
1. LUMINAIRES UTILIZING DOUBLE-ENDED LAMPS AND CONTAIN BALLASTS THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS EITHER INTERNAL OF EXTERNAL TO EACH LUMINAIRE PER NEC 410.130(G).
2. THE LIGHTING FIXTURE PACKAGE IS AVAILABLE THROUGH A NATIONAL ACCOUNT PROGRAM. REFER TO SHEET E4.2, SECTION 16500 FOR VENDOR INFORMATION.
3. THE FLUORESCENT BALLAST CATALOG NUMBER INDICATES OSRAM AND ALL LAMP DESIGNATIONS ARE FOR OSRAM/SYLVANIA PER A NATIONAL ACCOUNT AGREEMENT.
4. THE ASTERISK (*) BESIDE THE FIXTURE MARK IN THE ABOVE SCHEDULE INDICATES THE FIXTURE IS A NON-PROTOTYPICAL LIGHT FIXTURE PER THE CFA NATIONAL HERITAGE PROTOTYPE.

2 ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	MTG HT AFF TO CL	SYMBOL	DESCRIPTION	MTG HT AFF TO CL
LIGHTING FIXTURES			MISCELLANEOUS SYMBOLS		
	SURFACE MTD FLUORESCENT LIGHTING FIXTURE			GROUND	
	RECESSED FLUORESCENT LIGHTING FIXTURE			MOTOR	
	SURFACE MTD FLUORESCENT OR HID LIGHTING FIXTURE			EXHAUST FAN MOTOR	
	RECESSED FLUORESCENT OR HID LIGHTING FIXTURE			JUNCTION BOX	
	WALL MOUNTED LIGHTING FIXTURE. SEE LIGHTING FIXTURE SCHEDULE (FLUORESCENT OR HID, FIXTURE)	AS NOTED		CONDUIT AND WIRE MARK NUMBER, REFER TO CONDUCTORS AND CONDUIT SCHEDULE FOR SIZE	
	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		KITCHEN EQUIPMENT MARK NUMBER, REFER TO KITCHEN EQUIPMENT SCHEDULE FOR REQUIREMENTS	
	CEILING MOUNTED EXIT SIGN. SHADING INDICATES FACES. PROVIDE WITH CHEVRON DIRECTIONAL ARROWS WHERE INDICATED ON PLANS PROVIDED WITH BATTERY PACK.			NOTE NUMBER	
	COMBO EXIT WITH TWO LAMP-HEADS. SEE LIGHTING FIXTURE SCHEDULE			HOOD EXTINGUISHING ANSUL FULL STATION	
	WALL MOUNTED EMERGENCY BATTERY PACK LIGHTING FIXTURE	AS NOTED		SMOKE DETECTORS REMOTE STATUS INDICATOR W/ 1/2" CONDUIT STUB-UP	
	CEILING MOUNTED EMERGENCY BATTERY PACK LIGHTING FIXTURE			PUSH-BUTTON	
	FLUORESCENT STRIP LIGHTING FIXTURE			BELL TYPE AS NOTED ON PLANS	
	WALLWASHER STYLE RECESSED DOWNLIGHT, AIM LIGHT TOWARD WALL			PHOTO-ELECTRIC CELL	
ABBREVIATIONS					
	RECESSED LIGHTING FIXTURE WITH EMERGENCY BATTERY PACK		AFF	ABOVE FINISHED FLOOR	
	PENDANT LIGHTING FIXTURE	AS NOTED	AFG	ABOVE FINISHED GRADE	
	LIGHTING TRACK WITH TRACK HEADS		AHJ	AIR HANDLING UNIT	
WIRING DEVICES					
	120 VOLT DUPLEX RECEPTACLE, 20 AMPS LUON.	18"	C	CONDUIT	
	120 VOLT DUPLEX AT SPECIAL MOUNTING HEIGHT, 20 AMPS LUON.	44" LUON	CL	CENTER-LINE	
	120 VOLT QUADRAPLEX RECEPTACLE, 20 AMPS LUON.	18" LUON	EF	EXHAUST FAN	
	120 VOLT QUADRAPLEX AT SPECIAL MOUNTING HEIGHT, 20 AMPS LUON.	44"	FLA	FULL LOAD AMPS	
	120 VOLT SIMPLEX RECEPTACLE, 20 AMPS LUON.	18" LUON	GF/GFI	GROUND FAULT CIRCUIT INTERRUPTER	
	SINGLE SPECIAL PURPOSE RECEPTACLE WITH VOLTS, AMPS, AND PHASE AS NOTED, NEMA CONFIGURATION AS REQUIRED BY EQUIPMENT	18" LUON	GND/GRD	GROUND	
	RECEPTACLE MOUNTED ON CORP DROP, 120 VOLT, 20 AMP, LUON, OUTLET BOX FLUSH WITH CEILING		HT	HEIGHT	
	SINGLE POLE TOGGLE SWITCH	48"	IG	ISOLATED GRD, PROVIDE ORANGE DEVICE WHEN ADJACENT TO WIRING DEVICE	
	DOUBLE POLE TOGGLE SWITCH	48"	MOCP	MAXIMUM OVER-CURRENT PROTECTION	
	THREE WAY TOGGLE SWITCH	48"	MJA	MAKE UP AIR UNIT	
	MANUAL MOTOR STARTER SWITCH (W/ NEMA 3R)	48"	NEC	LOCALLY ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70)	
	SWITCH WITH PILOT LIGHT (ON WHEN SWITCH IS ON)	48"	NL	NIGHT LIGHT (ON 24 HOURS)	
	KEY OPERATED SWITCH	48"	OC	ON CENTER	
	CEILING OCCUPANCY SENSOR		POS	POINT OF SALE EQUIPMENT	
	WALL OCCUPANCY SENSOR		RTU	ROOF TOP UNIT	
NOTES: RECEPTACLES ON A DEDICATED CIRCUIT (THAT IS, NO OTHER LOAD CONNECTED TO THE BRANCH CIRCUIT) SHALL HAVE AMPACITY RATING NOT LESS THAN THE AMPERAGE OF THE CIRCUIT BREAKER SERVING THE DEVICE.					
CONDUIT/RACEWAYS					
	CONDUIT CONCEALED ABOVE CEILING OR IN WALL			TELEPHONE OUTLET	18" LUON
	CIRCUIT HOMERUN TO PANELBOARD WITH MINIMUM 2#12, #126, 3/4" C			TELEPHONE OUTLET AT SPECIAL MOUNTING HEIGHT	60" LUON
	CONDUIT TURNING UP		NOTE: EACH TELEPHONE OUTLET (FLOOR OR WALL MOUNTED) SHALL BE PROVIDED WITH A 3/4" EMPTY CONDUIT, WITH PULL WIRE, TO ACCESSIBLE CEILING SPACE.		
	CONDUIT TURNING DOWN		CCTV / SECURITY SYSTEM		
	CONDUIT CONCEALED IN OR BELOW SLAB (OUTSIDE + UNDERGROUND)			CLOSED CIRCUIT TELEVISION CAMERA	
	FLEXIBLE LIGHT FIXTURE W/HP, SIX FOOT MAXIMUM LENGTH			SECURITY ALARM KEYPAD	
	METAL CLAD CABLE ASSEMBLY - ONLY WHERE INDICATED ON DWGS OR SPECS			SECURITY ALARM HOLD-UP BUTTON	
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.					
MULTIPLE IPH CIRCUITS MAY OCCUPY THE SAME CONDUIT IN ACCORDANCE WITH THE NEC, MAXIMUM OF THREE AND OF DIFFERENT PHASES.					
LOW VOLTAGE AND CONTROL WIRING SHALL BE IN SEPARATE CONDUIT FROM POWER WIRING.					
DISTRIBUTION EQUIPMENT					
	NON-FUSIBLE SAFETY SWITCH SIZE AND TYPE AS NOTED ON PLANS (AMP/POLES/ENCLOSURE OR ON SCHEDULE, NEMA 1 ENCLOSURE UNLESS NOTED W/FP FOR NEMA 3R ENCLOSURE)	6'-6"			
	FUSIBLE SAFETY SWITCH SIZE AND TYPE AS NOTED ON PLANS (AMP/POLES/FUSE AMPS/ENCLOSURE OR ON SCHEDULE, NEMA 1 ENCLOSURE UNLESS NOTED W/FP FOR NEMA 3R)	6'-6"			
	FLUSH MOUNTED LIGHTING PANELBOARD	6'-6"			
	SURFACE MOUNTED LIGHTING PANELBOARD	6'-6"			
	TRANSFORMER, PROVIDE SECONDARY GROUNDING PER NEC	6'-6"			
	ENCLOSED CIRCUIT BREAKER, SIZE AND TYPE AS NOTED (AMPS/POLES/ENCLOSURE NEMA 1 ENCLOSURE IF NOT NOTED), W/ NEMA 3R				
6'-6" DISTANCE IS TO TOP-MOST DISCONNECTING DEVICE OR HIGHEST POSITION OF OPERATING HANDLE OF DISCONNECTING DEVICE					

THE EXHAUST HOOD SYSTEM AND COOKING APPLIANCES SHALL BE INTERCONNECTED SO THAT OPERATING ANY OF THE COOKING APPLIANCES AUTOMATICALLY ACTIVATES THE HOOD SYSTEM.

CONTRACTOR SHALL PROVIDE SUNCOAST DUCT HEAT SENSOR & CONTROL SYSTEM PACKAGE MODEL #TS2-OIO 120VAC DIGITAL TEMPERATURE SWITCH IN COMPLIANCE WITH THE 507.11 OF FBCM INTERLOCKED WITH THE EXISTING SUNCOAST CONTROL PANEL.

3 SIGNAGE COORDINATION NOTE

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



Chick-fil-A

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

INTERPLAN
INTERPLAN LLC
AR0011595
CA 8660

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALBANY, GEORGIA 31707
407.645.5008

SEAL:



CHICK-FIL-A
ALABASTER
125 Colonial Promenade Parkway
Alabaster, AL 35007

FSR#01794

BUILDING TYPE / SIZE: S03.8-1C Reverse
RELEASE: 09.2021
PRINTED FOR: PERMIT

Project Status: PERMIT

REVISION SCHEDULE

NO. DATE DESCRIPTION

CONSULTANT PROJECT # 2021.0086
DATE 11.2021

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SHEET SCHEDULES AND DETAILS

SHEET NUMBER

E-I-I

CHRRR - 11/19/2021 11:12:15 AM



Chick-fil-A

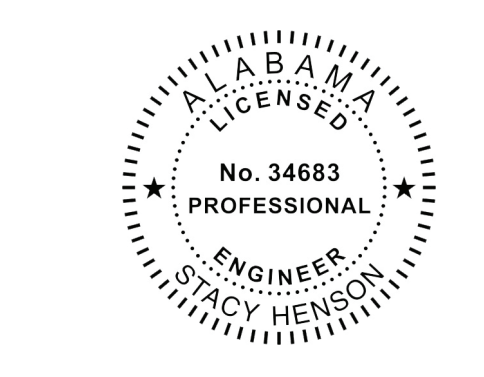
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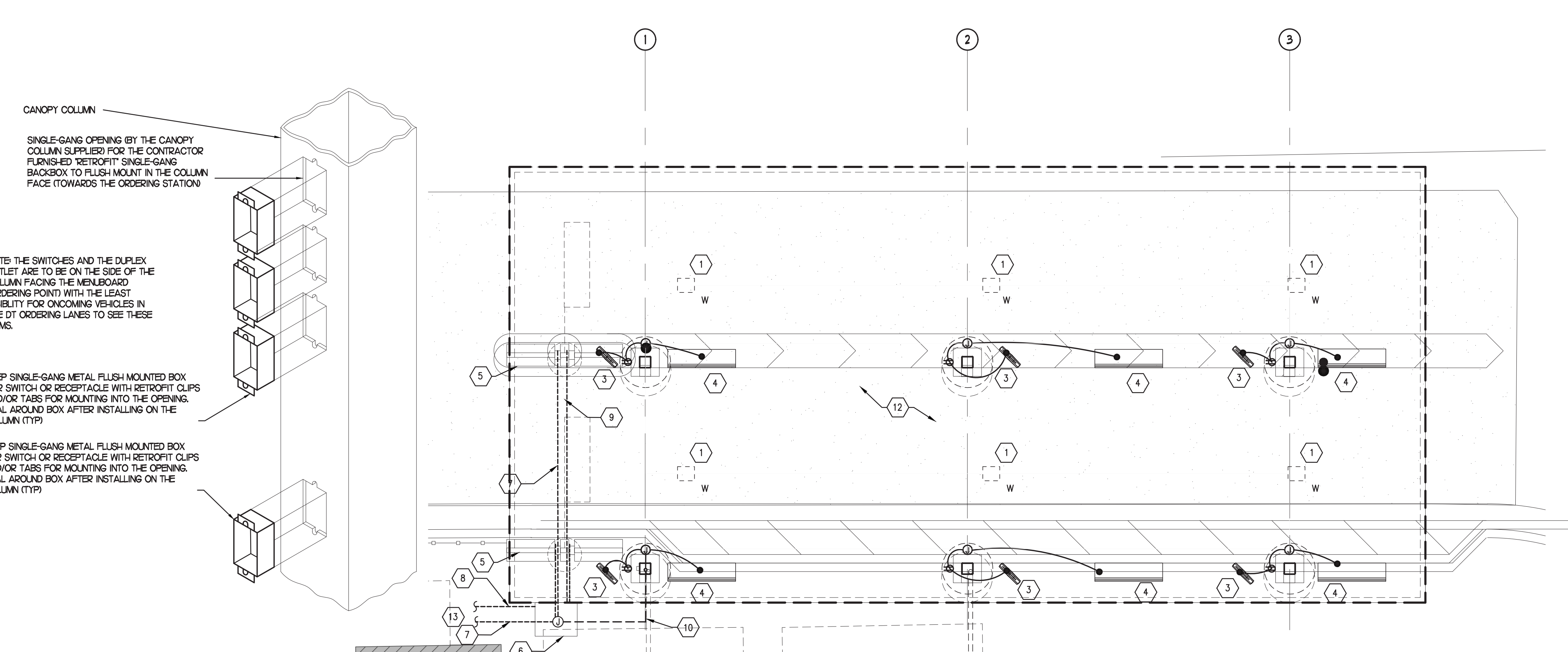
CHICK-FIL-A
ALABASTER
125 Colonial
Promenade Parkway
Alabaster, AL 35007

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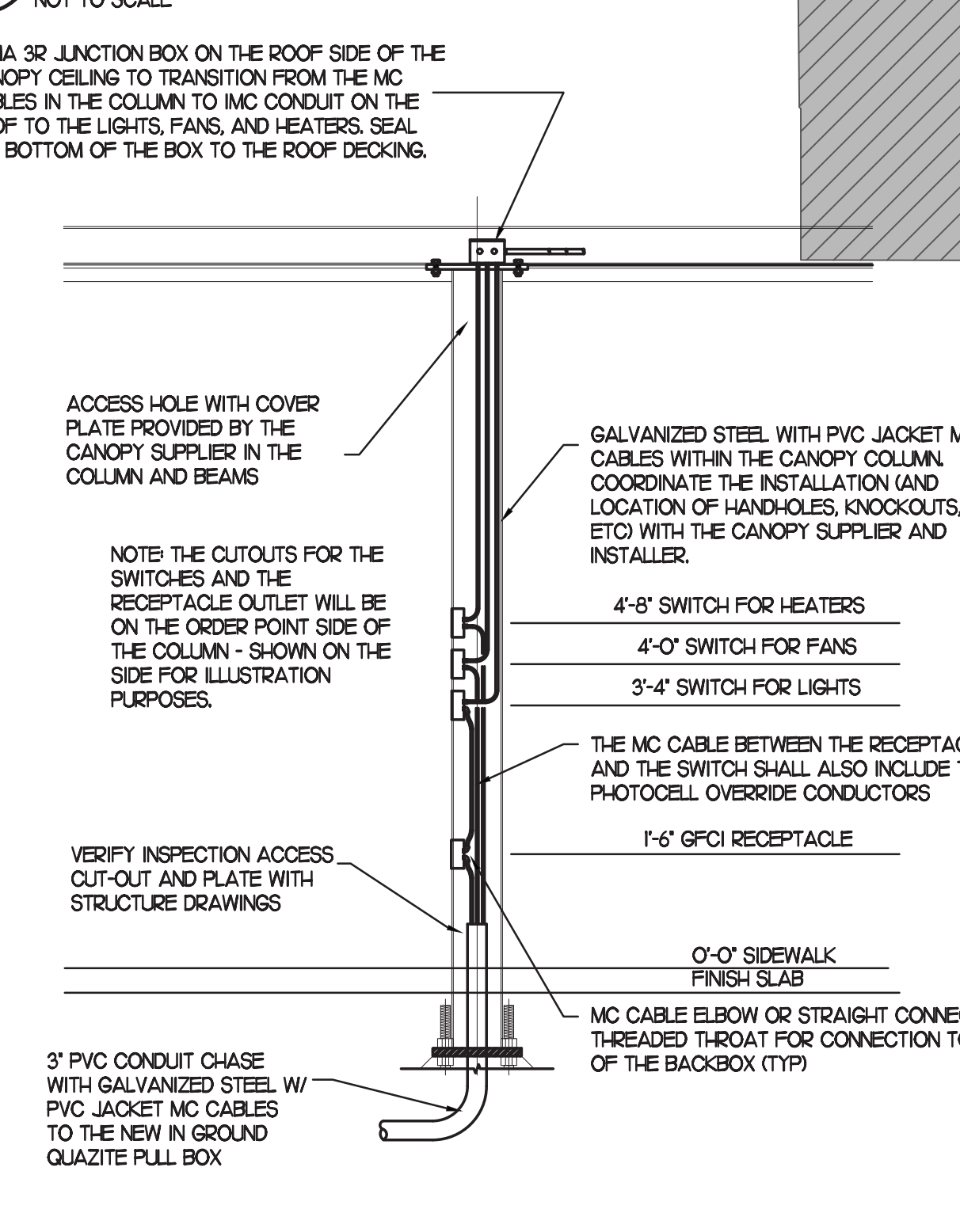
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DATE 11.2021
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ORDER CANOPY
POWER AND LGT
SHEET NUMBER
EJIA
CHICK-FIL-A

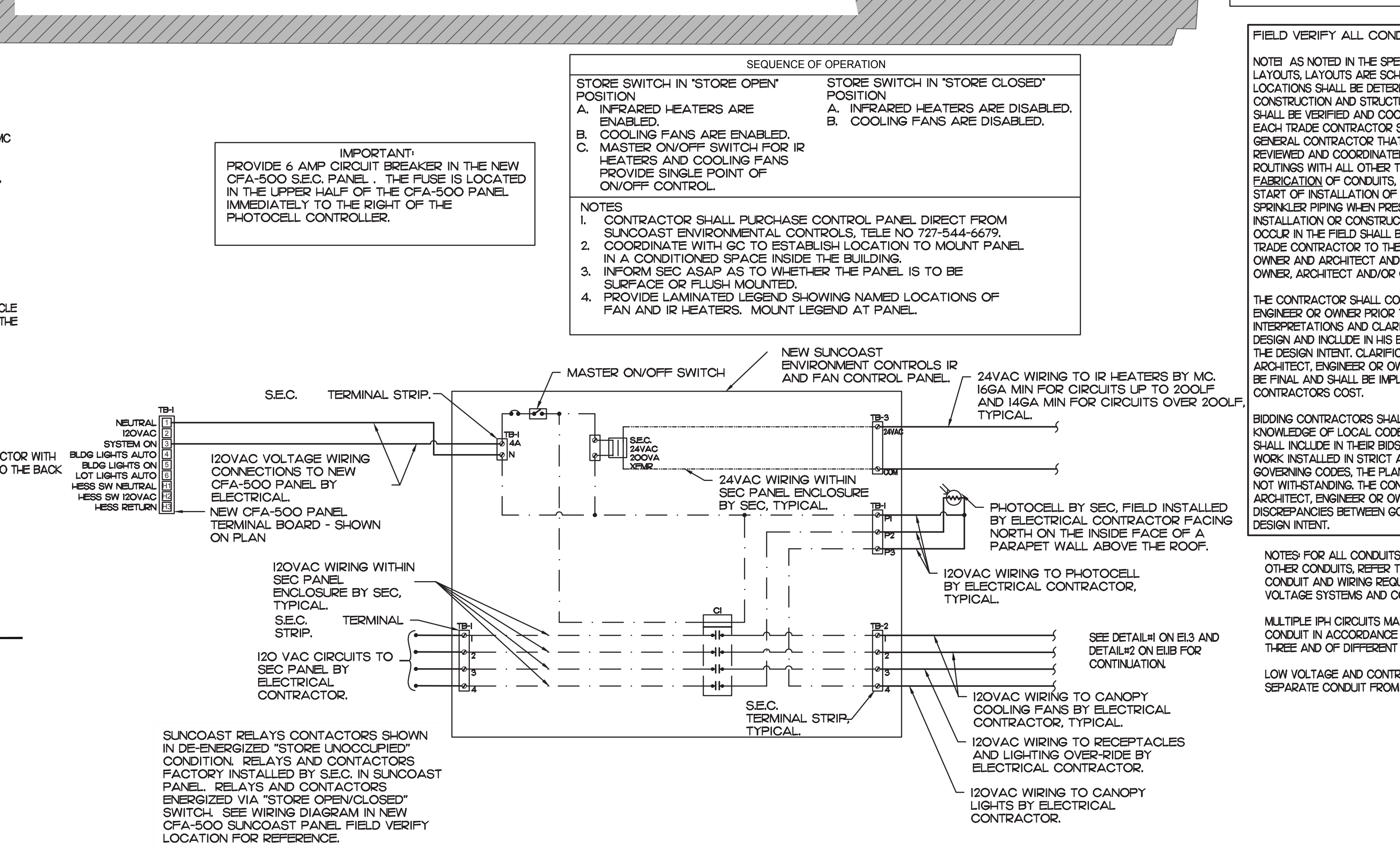


1 ORDER CANOPY POWER AND LIGHTING PLAN
1/4"=1'-0"
NORTH

4 CANOPY COLUMN ISOMETRIC
NOT TO SCALE



3 SECTION - ORDER CANOPY COLUMN
NOT TO SCALE



2 SUNCOAST PANEL WIRING DIAGRAM DBL LANE ORDER POINT-INFRA-RED HEATERS, COOLING FANS
1/4"=1'-0"

LEGEND
--- UNDERGROUND
--- ABOVE GROUND

FIELD VERIFY ALL CONDITIONS

NOTE: AS NOTED IN THE SPECIFICATIONS, ALL WIRING LAYOUTS SHALL BE DETERMINED BY THE CONSTRUCTION AND STRUCTURE OF THE BUILDING AND SHALL BE VERIFIED AND COORDINATED IN THE FIELD. EACH TRADE CONTRACTOR SHALL VERIFY WITH THE GENERAL CONTRACTOR THAT HE HAS THOROUGHLY REVIEWED AND COORDINATED ALL LOCATIONS AND ROUTINGS WITH ALL OTHER TRADES PRIOR TO FABRICATION OF CONDUITS, DUCTS, OR PIPING, AND START OF INSTALLATION OF SAME INCLUDING SPRINKLER PIPING WHEN PRESENT ON JOB. ANY INSTALLATION OR CONSTRUCTION CONFLICTS WHICH OCCUR IN THE FIELD SHALL BE RESOLVED BY THE TRADE CONTRACTOR TO THE SATISFACTION OF THE OWNER AND ARCHITECT AND AT NO EXPENSE TO THE OWNER, ARCHITECT AND/OR GENERAL CONTRACTOR.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS WHICH OCCUR IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTOR'S COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES. THE PLANS AND SPECIFICATIONS NOT WITHSTANDING, THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

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.

MULTIPLE PHASE CIRCUITS MAY OCCUPY THE SAME CONDUIT IN ACCORDANCE WITH THE NEC, MAXIMUM OF THREE AND OF DIFFERENT PHASES.

LOW VOLTAGE AND CONTROL WIRING SHALL BE IN SEPARATE CONDUIT FROM POWER WIRING.

KEYED NOTES

- 1. CEILING LIGHT PROVIDED BY CANOPY SUPPLIER AND INSTALLED BY EC.
- 2. NOT USED.
- 3. AIR CIRCULATING FAN (WITH INTEGRAL ON-OFF SWITCH) PROVIDED BY OTHERS. PROVIDE A GFCI DUPLEX OUTLET (WITH IN-USE WP COVER PLATE) FLUSH MTD. IN CUT-OUT FOR FANS PLUS 2 COND. LOCATE CUT-OUT AT TOP OF COLUMN ON DOWNSTREAM SIDE.
- 4. INFRARED GAS HEATER WITH INTEGRAL ON-OFF SWITCH PROVIDED BY OTHERS.
- 5. MENUBOARD PROVIDED BY OTHERS.
- 6. PROVIDE IN-GROUND QUASITE 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. 2" UNDERGROUND SCH40 PVC CONDUIT FOR OWNERS AUDIO SYSTEM / DETECTOR LOOP CABLES.
- 9. 1" EMPTY UNDERGROUND SCH40 PVC CONDUIT FOR OWNERS AUDIO SYSTEM / DETECTOR LOOP CABLES.
- 10. INSTALL UNDERGROUND 3" SCH40 PVC CONDUIT UP INTO THE CANOPY COLUMN WITH TYPE MC CABLE (GALVANIZED STEEL WITH PVC JACKETS) RUN WITHIN FOR THE 120V POWER FOR LIGHTS, 120 VOLT POWER FOR FANS, AND 24 VOLT POWER FOR THE INFRARED GAS HEATERS.
- 11. PROVIDE ONE DUPLEX GFCI (WITH IN-USE WP COVER PLATE) AND THREE 120V SINGLE-POLE SWITCHES (EACH WITH HUBBELL H8W5150 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 DETAIL H ON ELS AND CANOPY COLUMN DETAIL ON THIS SHEET FOR FURTHER INFORMATION. ALL SURFACE MOUNTED ITEMS AND COVER PLATE TO BE FIELD PAINTED MATTE BLACK. INSTALL BLANK COVERPLATE WHEN HEATERS ARE NOT INSTALLED AND THE THIRD SWITCH IS NOT REQUIRED.
- 12. 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. ALL EXPOSED ELECTRICAL BOXES TO BE NEMA 3R CAST-METAL.
- 13. PROVIDE ONE (1) HSCU EQUIPMENT GROUND TO BE BONDED TO CANOPY STRUCTURE PER MANUFACTURERS RECOMMENDATIONS.

LEGEND
SEC. SUNCOAST ENVIRONMENTAL CONTROLS SUPPLIES OR TERMINAL CONTROL PANELS
MC MECHANICAL CONTRACTOR
EC ELECTRICAL CONTRACTOR
--- LOW VOLTAGE BY MECHANICAL CONTRACTOR
--- 6 GA. MIN. LOW VOLTAGE WIRING BY SUNCOAST
--- HIGH VOLTAGE BY ELECTRICAL CONTRACTOR
--- HIGH VOLTAGE BY SUNCOAST

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

NOTE: THE OUTLETS FOR THE SWITCHES AND THE RECEPTACLE OUTLET WILL BE ON THE ORDER POINT SIDE OF THE COLUMN - SHOWN ON THE SIDE FOR ILLUSTRATION PURPOSES.

VERIFY INSPECTION ACCESS OUT-OUT AND PLATE WITH STRUCTURE DRAWINGS

3" PVC CONDUIT CHASE WITH GALVANIZED STEEL W/ PVC JACKET MC CABLES TO THE NEW IN GROUND QUASITE PULL BOX

MC CABLE ELBOW OR STRAIGHT CONNECTOR WITH THREADED THROAT FOR CONNECTION TO THE BACK OF THE BACKBOX (TYP)

0'-0" SIDEWALK FINISH SLAB

1'-6" GFCI RECEPTACLE

THE MC CABLE BETWEEN THE RECEPTACLE AND THE SWITCH SHALL ALSO INCLUDE THE PHOTOCELL OVERRIDE CONDUCTORS

4-8" SWITCH FOR HEATERS
4-0" SWITCH FOR FANS
5-4" SWITCH FOR LIGHTS

ACCESS HOLE WITH COVER PLATE PROVIDED BY THE CANOPY SUPPLIER IN THE COLUMN AND BEAMS

CANOPY COLUMN

SINGLE-GANG OPENING BY THE CANOPY COLUMN SUPPLIER FOR THE CONTRACTOR FURNISHED RETROFIT SINGLE-GANG BACKBOX TO FLUSH MOUNT IN THE COLUMN FACE TOWARDS THE ORDERING STATION

NOTE: THE SWITCHES AND THE DUPLEX OUTLET ARE TO BE ON THE SIDE OF THE COLUMN FACING THE MENUBOARD (ORDERING POINT) WITH THE LEAST VISIBILITY FOR ONCOMING VEHICLES IN THE DT ORDERING LANES TO SEE THESE ITEMS.

DEEP SINGLE-GANG METAL FLUSH MOUNTED BOX FOR SWITCH OR RECEPTACLE WITH RETROFIT CLIPS AND/OR TABS FOR MOUNTING INTO THE OPENING. SEAL AROUND BOX AFTER INSTALLING ON THE COLUMN (TYP)

DEEP SINGLE-GANG METAL FLUSH MOUNTED BOX FOR SWITCH OR RECEPTACLE WITH RETROFIT CLIPS AND/OR TABS FOR MOUNTING INTO THE OPENING. SEAL AROUND BOX AFTER INSTALLING ON THE COLUMN (TYP)

IMPORTANT: PROVIDE 6 AMP CIRCUIT BREAKER IN THE NEW CFA-500 SEC. PANEL. THE FUSE IS LOCATED IN THE UPPER HALF OF THE CFA-500 PANEL IMMEDIATELY TO THE RIGHT OF THE PHOTOCELL CONTROLLER.

SEQUENCE OF OPERATION
STORE SWITCH IN 'STORE OPEN' POSITION
A. INFRARED HEATERS ARE ENABLED.
B. COOLING FANS ARE ENABLED.
C. MASTER ON/OFF SWITCH FOR IR HEATERS AND COOLING FANS PROVIDE SINGLE POINT OF ON/OFF CONTROL.

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

120VAC VOLTAGE WIRING CONNECTIONS TO NEW CFA-500 PANEL BY ELECTRICAL.
NEW CFA-500 PANEL TERMINAL BOARD - SHOWN ON PLAN

120VAC WIRING WITHIN SEC PANEL ENCLOSURE BY SEC. TYPICAL.
120 VAC CIRCUITS TO SEC PANEL BY ELECTRICAL CONTRACTOR.

SUNCOAST RELAYS CONTACTORS SHOWN IN DE-ENERGIZED 'STORE UNOCCUPIED' CONDITION. RELAYS AND CONTACTORS FACTORY INSTALLED BY SEC. IN SUNCOAST PANEL. RELAYS AND CONTACTORS ENERGIZED VIA 'STORE OPEN/CLOSED' SWITCH. SEE WIRING DIAGRAM IN NEW CFA-500 SUNCOAST PANEL. FIELD VERIFY LOCATION FOR REFERENCE.

24VAC WIRING TO IR HEATERS BY MC. 16GA MIN FOR CIRCUITS UP TO 200LF AND 14GA MIN FOR CIRCUITS OVER 200LF. TYPICAL

24VAC WIRING WITHIN SEC PANEL ENCLOSURE BY SEC. TYPICAL

PHOTOCELL BY SEC. FIELD INSTALLED BY ELECTRICAL CONTRACTOR FACING NORTH ON THE INSIDE FACE OF A PARAPET WALL ABOVE THE ROOF.

120VAC WIRING TO PHOTOCELL BY ELECTRICAL CONTRACTOR, TYPICAL

120VAC WIRING TO CANOPY COOLING FANS BY ELECTRICAL CONTRACTOR, TYPICAL

120VAC WIRING TO RECEPTACLES AND LIGHTING OVER-RIDE BY ELECTRICAL CONTRACTOR.

120VAC WIRING TO CANOPY LIGHTS BY ELECTRICAL CONTRACTOR.

SEE DETAIL H ON ELS AND DETAIL 2 ON EIB FOR CONTINUATION

SEC. TERMINAL STRIP, TYPICAL

NEW SUNCOAST ENVIRONMENTAL CONTROLS IR AND FAN CONTROL PANEL

MASTER ON/OFF SWITCH

SEC. TERMINAL STRIP

NEUTRAL 120VAC SYSTEM ON

BLDG LIGHTS AUTO

LOT LIGHTS AUTO

HESS SW NEUTRAL

HESS SW 120VAC

HESS RETURN

120VAC WIRING WITHIN SEC PANEL ENCLOSURE BY SEC. TYPICAL

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SEC. TERMINAL STRIP

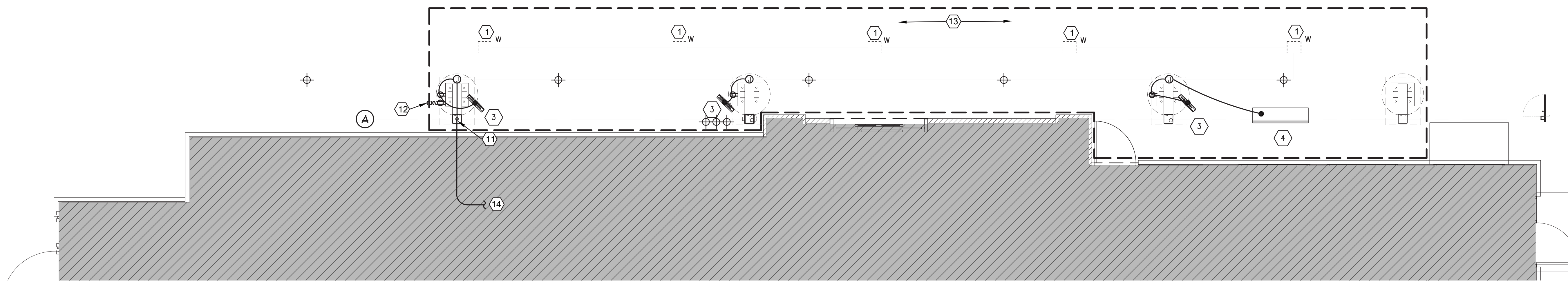
NEUTRAL 120VAC SYSTEM ON

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LOT LIGHTS AUTO

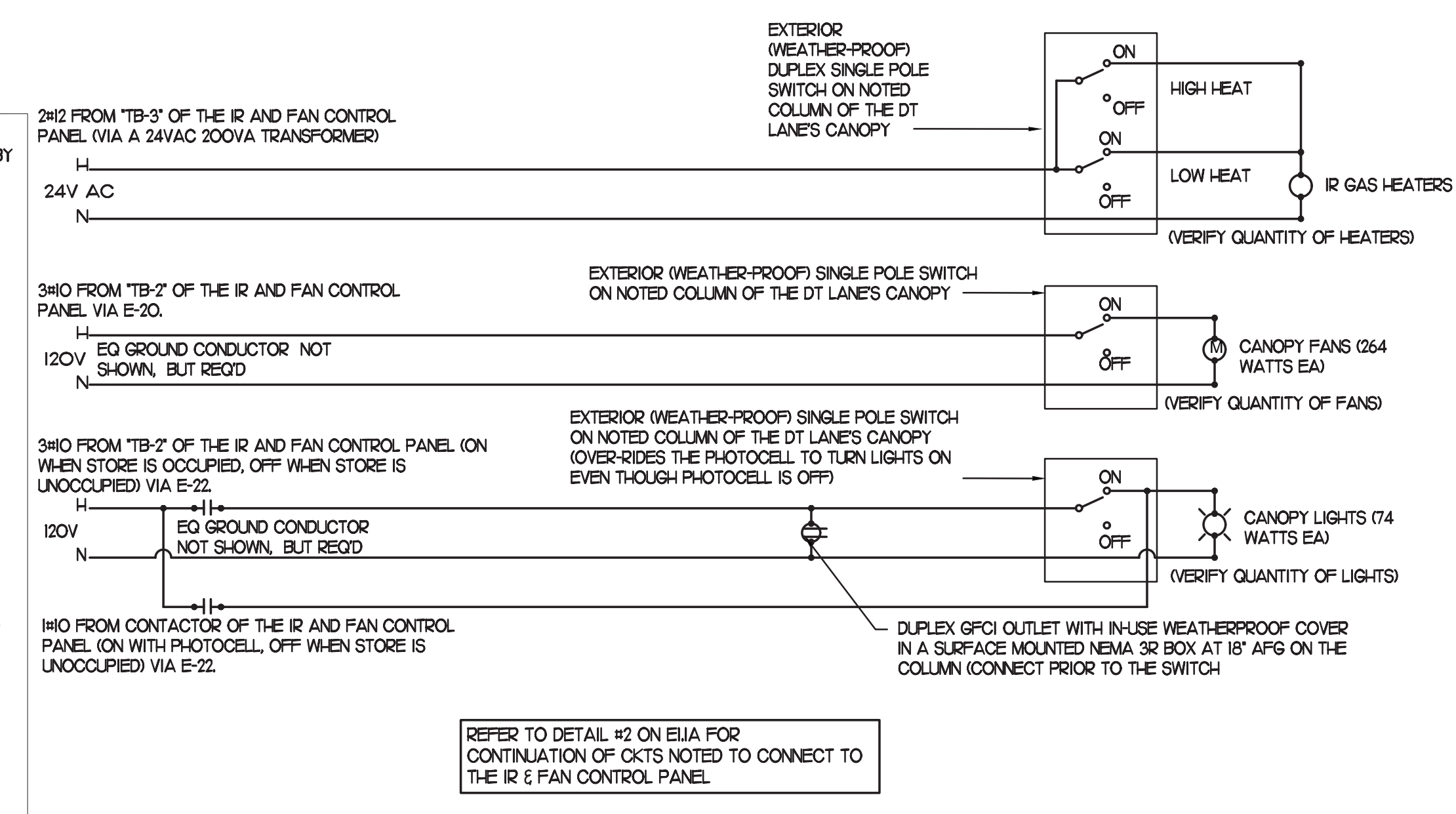
HESS SW NEUTRAL

HESS SW 120VAC

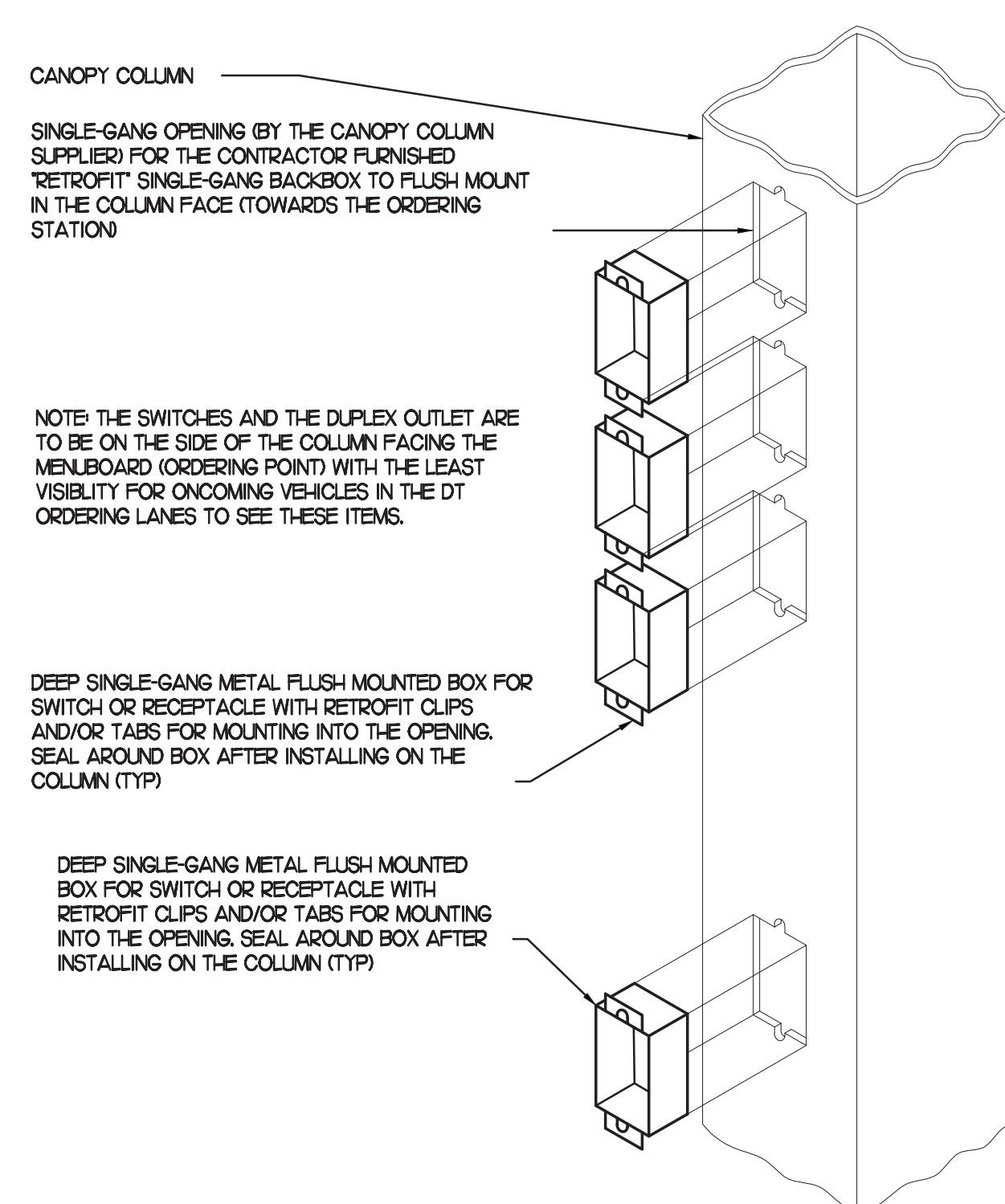


1 ORDER MEAL DELIVERY (OMD) CANOPY POWER PLAN
 1/4" = 1'-0"

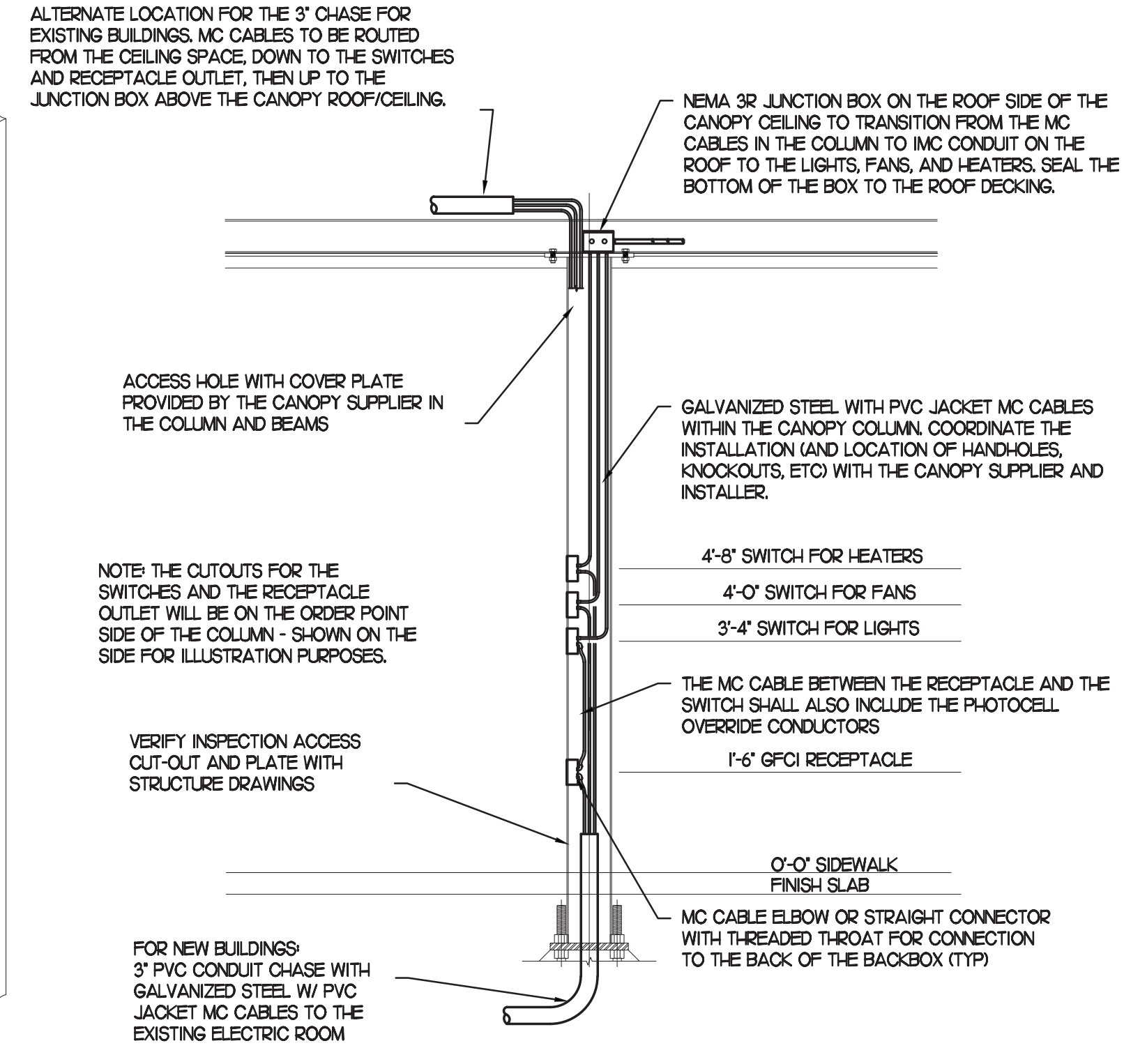
- ELECTRICAL KEYNOTES (EXISTING BUILDING)**
- CEILING LIGHT PROVIDED BY CANOPY SUPPLIER AND INSTALLED BY EC. REFER TO LIGHTING FIXTURE SCHEDULE ON E11A FOR MORE INFORMATION.
 - NOT USED.
 - AIR CIRCULATING FAN (WITH INTEGRAL ON-OFF SWITCH) PROVIDED BY OTHERS. FANS TO BE HARDWIRED IN APPROPRIATE CONDUIT ABOVE CANOPY.
 - INFARED GAS HEATER WITH INTEGRAL ON-OFF SWITCH PROVIDED BY OTHERS.
 - THRU NOT USED.
 - AT EXISTING BUILDINGS STUB A 3" CHASE THRU THE EXTERIOR WALL FROM THE CEILING SPACE ABOVE THE KITCHEN TO ABOVE THE CANOPY'S COLUMN FOR THE MC CABLE POWER CIRCUITS TO GO THRU THE COLUMN MOUNTED SWITCHES AND OUTLET.
 - PROVIDE ONE DUPLEX GFCI (WITH IN-USE WP COVER PLATE) AND TWO 120V SINGLE-POLE SWITCHES (EACH WITH HUBBELL #RW51470 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. INSTALL BLANK COVERPLATE WHEN HEATERS ARE NOT INSTALLED AND THE THIRD SWITCH IS NOT REQUIRED.
 - 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. ALL EXPOSED ELECTRICAL BOXES TO BE NEMA 3R CAST-METAL.
 - PROVIDE ONE (Ø80C) EQUIPMENT GROUND TO BE BONDED TO CANOPY STRUCTURE PER MANUFACTURER'S RECOMMENDATIONS.



2 MEAL DELIVERY CANOPY POWER WIRING SCHEMATIC
 NO SCALE



4 CANOPY COLUMN ISOMETRIC
 NOT TO SCALE



3 SECTION - CANOPY COLUMN
 NOT TO SCALE



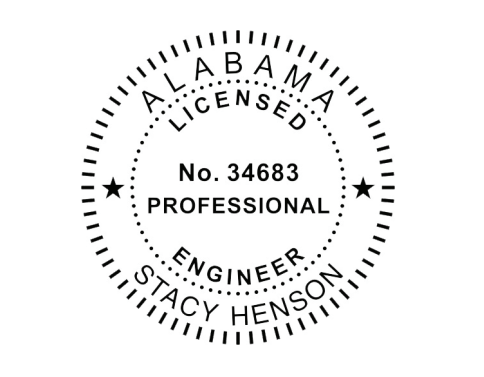
Chick-fil-A
 Chick-fil-A
 5200 Buffington Road
 Atlanta, Georgia
 30349-2998

INTERPLAN
 INTERPLAN LLC
 ARO011595
 CA 8660

ARCHITECTURE
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 ALAMONTE SPRINGS, FL 32701
 407.645.5008

SEAL:



CHICK-FIL-A
ALABASTER
 125 Colonial Promenade Parkway
 Alabaster, AL 35007

FSR#01794

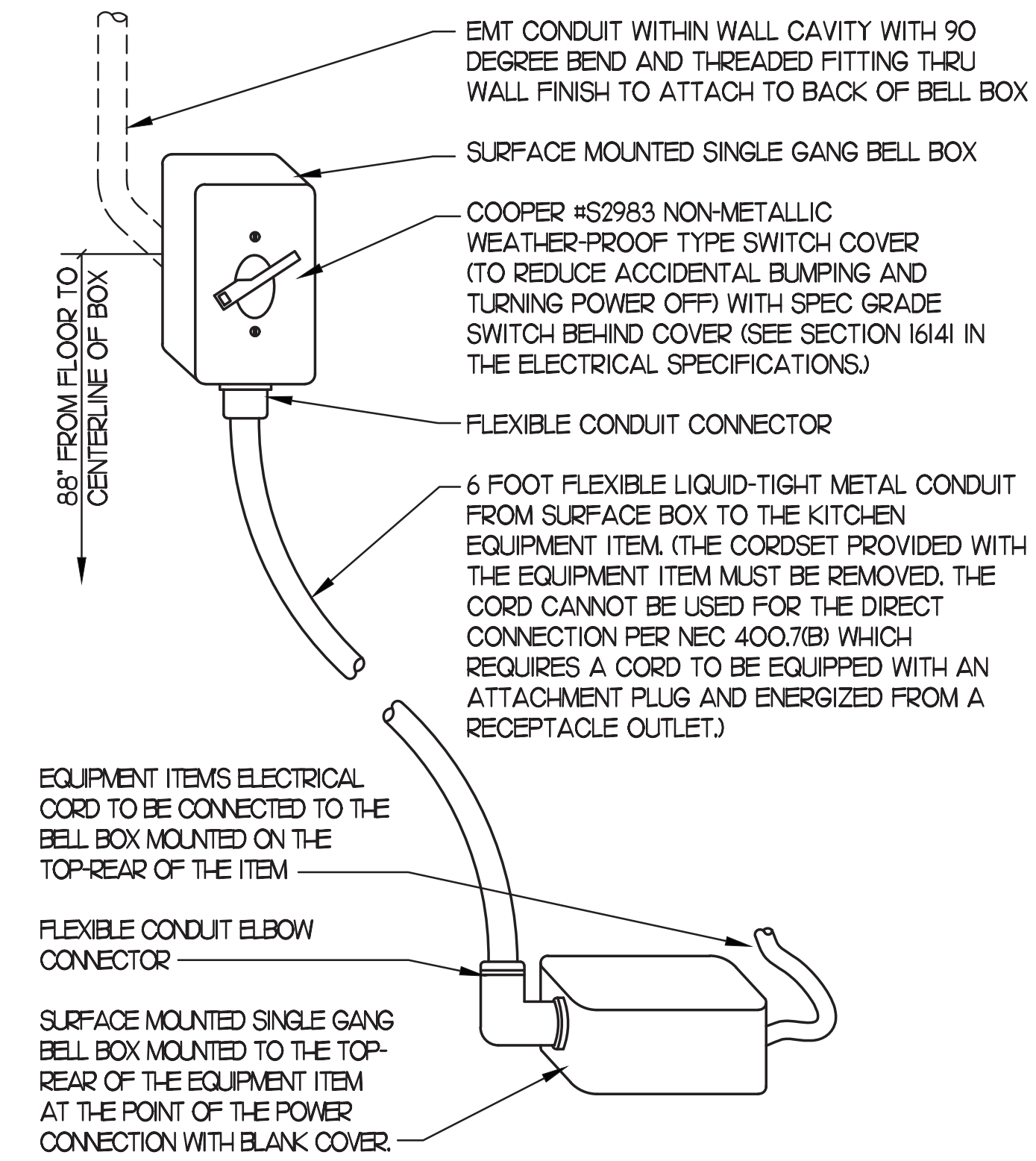
BUILDING TYPE / SIZE: S03.8-1C Reverse
 RELEASE: 09.2021
 PRINTED FOR: PERMIT
 Project Status: PERMIT

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

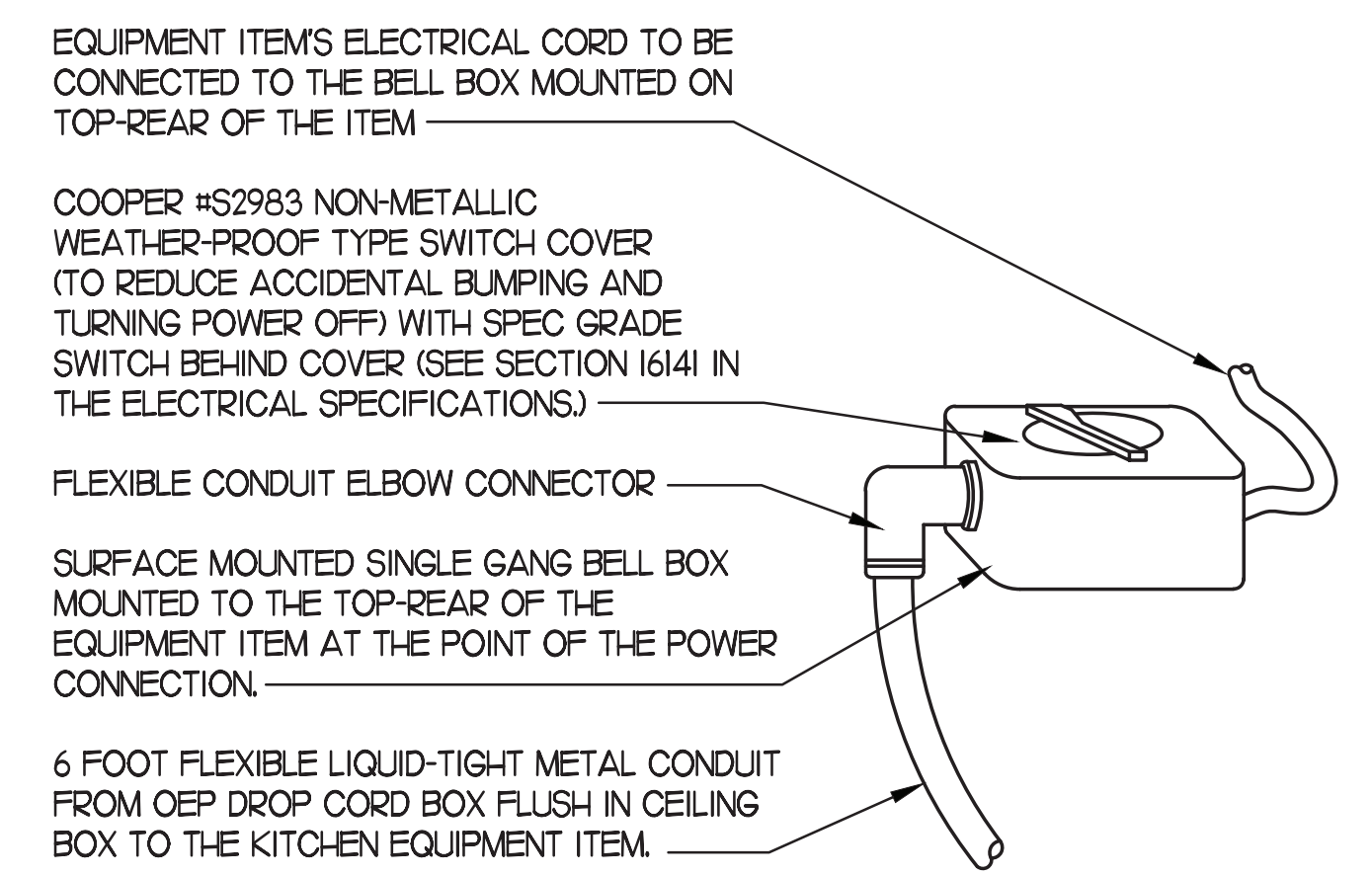
CONSULTANT PROJECT # 2021.0086
 DATE 11.2021
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 SHEET
OMD CANOPY POWER PLAN
 SHEET NUMBER

KITCHEN EQUIPMENT SCHEDULE - CHICK-FIL-A 508-V8.2 EDITION1

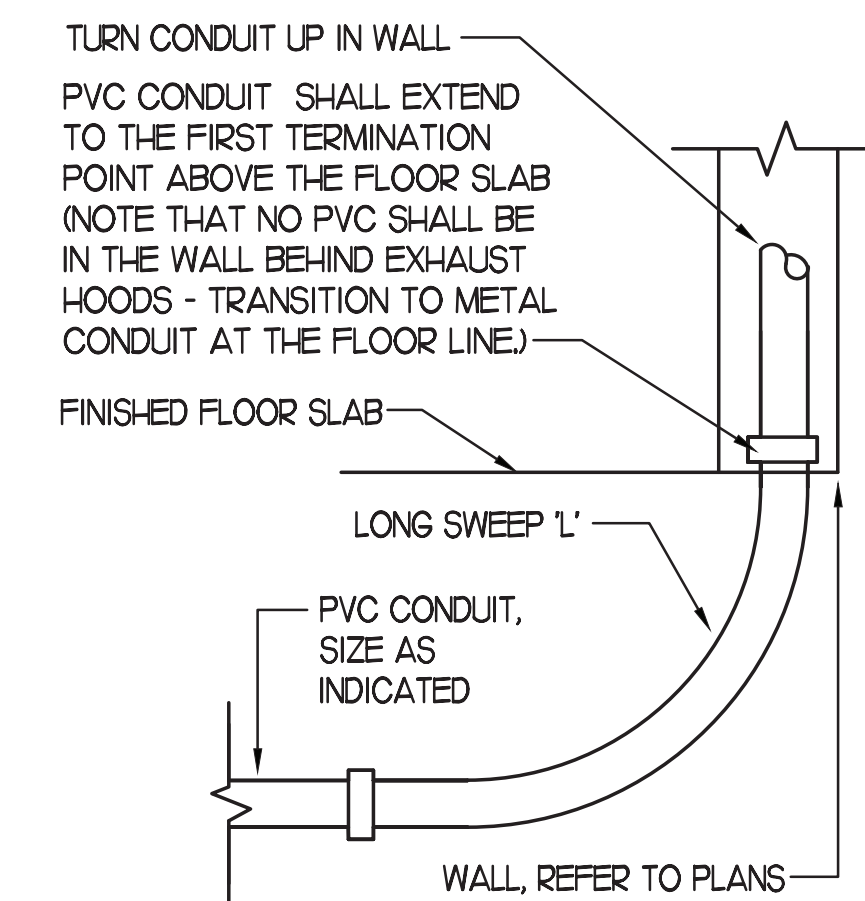
REQ UR ES N°/ OF WIR ING	ITEM NO.	EQUIPMENT	MANUFACTURER	ELECTRICAL					NEMA CONFIG	COOPER/ARROW HART (UON) RECEP. CAT. NO.	Wire/Conduit MARK NO.	(ALL ITEMS BY CHICK-FIL-A UNLESS OTHERWISE NOTED)
				VOLT	PH	WI RE S	KW	AMP				
	180R	ORDER REGISTER	EQUIPMENT TO BE REUSED/RELOCATED						VERIFY			
	182	RECEIPT PRINTER	EQUIPMENT TO BE REUSED/RELOCATED						VERIFY			
	182L	LABEL PRINTER	RADIANT KITCHEN PRODUCTION SYSTEM	120	1				NEMA 6-20P			
	183R	ORDER MONITOR	EQUIPMENT TO BE REUSED/RELOCATED						VERIFY			
	183	ORDER MONITOR	RADIANT KITCHEN PRODUCTION SYSTEM	120	1	2		0.125	NEMA 5-20R			
	184R	IPAD	EQUIPMENT TO BE REUSED/RELOCATED						VERIFY			
	190R	DRIVE-THRU VIDEO MONITOR	EQUIPMENT TO BE REUSED/RELOCATED						VERIFY			
	211B	FLY SYSTEM	GENUS COBRA MODEL #107000-00	120	1	2		0.078	0.65	NEMA 5-15R	1	PROVIDED BY CFA WAREHOUSE - CLOCK STYLE RECEPTACLE REQUIRED MOUNTED ON ITEM #300bR
	300aR	MILKSHAKE BASE DISPENSER	EQUIPMENT TO BE REUSED/RELOCATED						VERIFY			
	300XR	DOUBLE BARREL ICE CREAM MACHINE	EQUIPMENT TO BE REUSED/RELOCATED						VERIFY			
	305	TEA BREWER	EQUIPMENT TO BE REUSED/RELOCATED						VERIFY			
	308dR	DRY & DAIRY DISPENSER	EQUIPMENT TO BE REUSED/RELOCATED						VERIFY			
	308R	SINGLE COFFEE MAKER	EQUIPMENT TO BE REUSED/RELOCATED						VERIFY			
	310R	DOUBLE JUICE DISPENSER	EQUIPMENT TO BE REUSED/RELOCATED						VERIFY			
	315W	10-HEAD DRINK TOWER/ICE BIN	LANGER #85-23710-111-07 MODEL 2300	120	1	2			10.0	NEMA 5-20R	1	DUPLEX RECEPTACLE REQUIRED FOR EACH BEVERAGE TOWER
	320	TURBO CARBONATOR	LANGER #85-1923-03	115	1	2			6.2	NEMA 5-20R	1	ORDER (3) #44231, (2) #44233, (5) DR. PEPPER PUMPS, & (2) #15274SN-01
	363	DISHWASHER	EQUIPMENT TO BE REUSED/RELOCATED						VERIFY			
	380X	ICE MACHINE	FOLLETT HORIZON CHEWBLET MODEL #HMF1650RBT	120	1	2			6	NEMA 5-15R	1	INSTALLED ON ITEM #380 - PROVIDE WITH 35' LINE SETS AIR COOLED UNIT, G.C. SHALL PLACE AND INSTALL CONDENSER ON ROOF - NOT SHOWN ON DRAWING
	380Z	ICE MACHINE REMOTE CONDENSING UNIT	EQUIPMENT TO BE REUSED/RELOCATED						VERIFY			
	400R	SGL SECTION REACH-IN FREEZER	EQUIPMENT TO BE REUSED/RELOCATED						VERIFY			
	420R	SGL UNDERCOUNTER REFRIGERATOR	EQUIPMENT TO BE REUSED/RELOCATED						VERIFY			
	421	DOUBLE UNDERCOUNTER REFRIGERATOR	TRAUlsen MODEL #UHT48-ZOF	120	1	2	.48	5.7		NEMA 5-20R	1	ORDER ON 4" CASTERS ELECTRICIAN TO CHANGE (1) PLUG TO TWIST LOCK ON ITEM #105
	432R	REFRIGERATED WORK TABLE	EQUIPMENT TO BE REUSED/RELOCATED						VERIFY			
	560	FRY HOLDING STATION	BKI MODEL #FW-15BB	120	1	2	1.84	15.4		NEMA 5-20R	1	ON ITEM #105
	560S	FRY HOLDING STATION	EQUIPMENT TO BE REUSED/RELOCATED						VERIFY			
	560R	FRY HOLDING STATION	EQUIPMENT TO BE REUSED/RELOCATED						VERIFY			
	562A	HIGH DENSITY HOT HOLDING TOWER	EQUIPMENT TO BE REUSED/RELOCATED						VERIFY			
	563S	SANDWICH SLIDE	BKI MODEL #SM-2624R	120	1	2	.548	4.56		NEMA 5-20R	1	6' CORD & PLUG - PLACED ON ITEM #105
	564	PRODUCT HOLDING CABINET	DUKE MODEL #FWM3-24CF6-120	120	1	2	1.6	13.3		NEMA 5-15R	1	LOCATED IN ITEM #120b - FRANKE TABLE CIRCUIT #7 & #14
	564A	PRODUCT HOLDING CABINET	EQUIPMENT TO BE REUSED/RELOCATED						VERIFY			
	565C	FOOD COOKER/ WARMER	EQUIPMENT TO BE REUSED/RELOCATED						VERIFY			
	580H	MULTI-USE HOLDING CABINET	DUKE MODEL #MUHC-52-120	120	1	2	2.88	24		NEMA 15-30R	7	PROVIDE WITH TWIST LOCK PLUG
	669R	OFFICE SAFE	EQUIPMENT TO BE REUSED/RELOCATED						VERIFY			
	671	FLAT-VU MENU BOX	C3 LIGHTING SOLUTIONS SIZE B	120	1	2	.054	.45		NEMA 5-20R	1	VERIFY MENU BOARD LAYOUT



2 KITCHEN EQUIP DIRECT CONNECTION
NOTE TO SCALE WALL MOUNT CONDITION



3 KITCHEN EQUIP DIRECT CONNECTION
NOTE TO SCALE DROP CORD - ISLAND MOUNT CONDITION



4 INTERIOR PVC CONDUIT DETAIL
NOTE TO SCALE

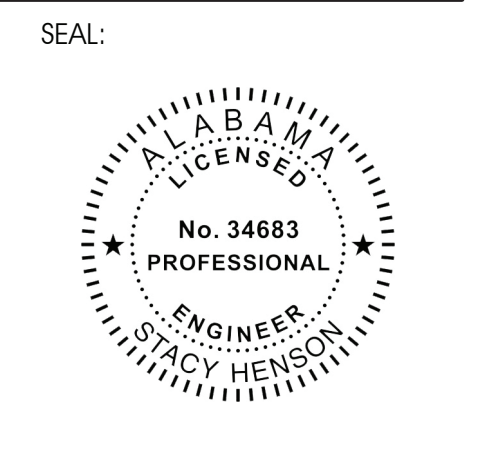


Chick-fil-A
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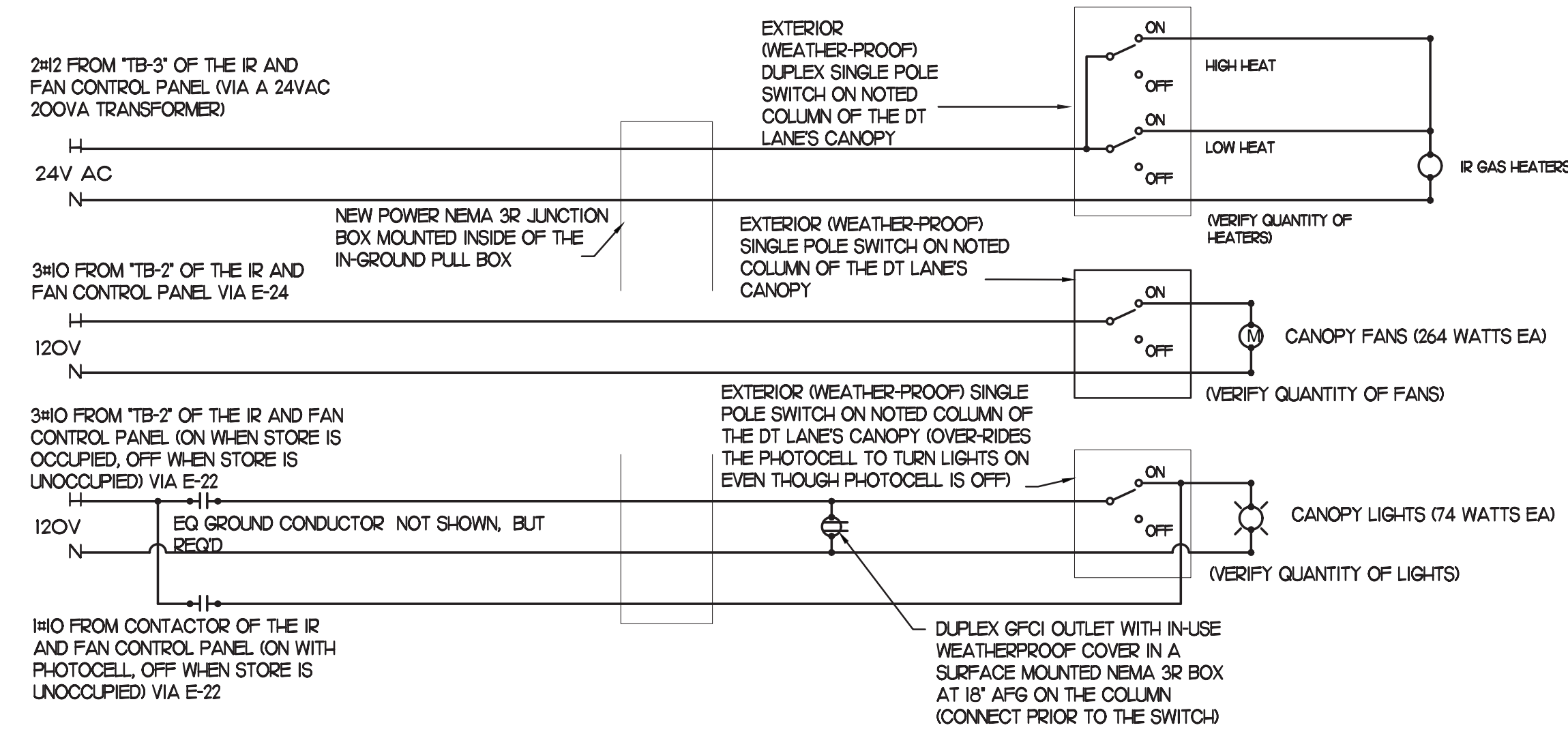


CHICK-FIL-A
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Alabaster, AL 35007

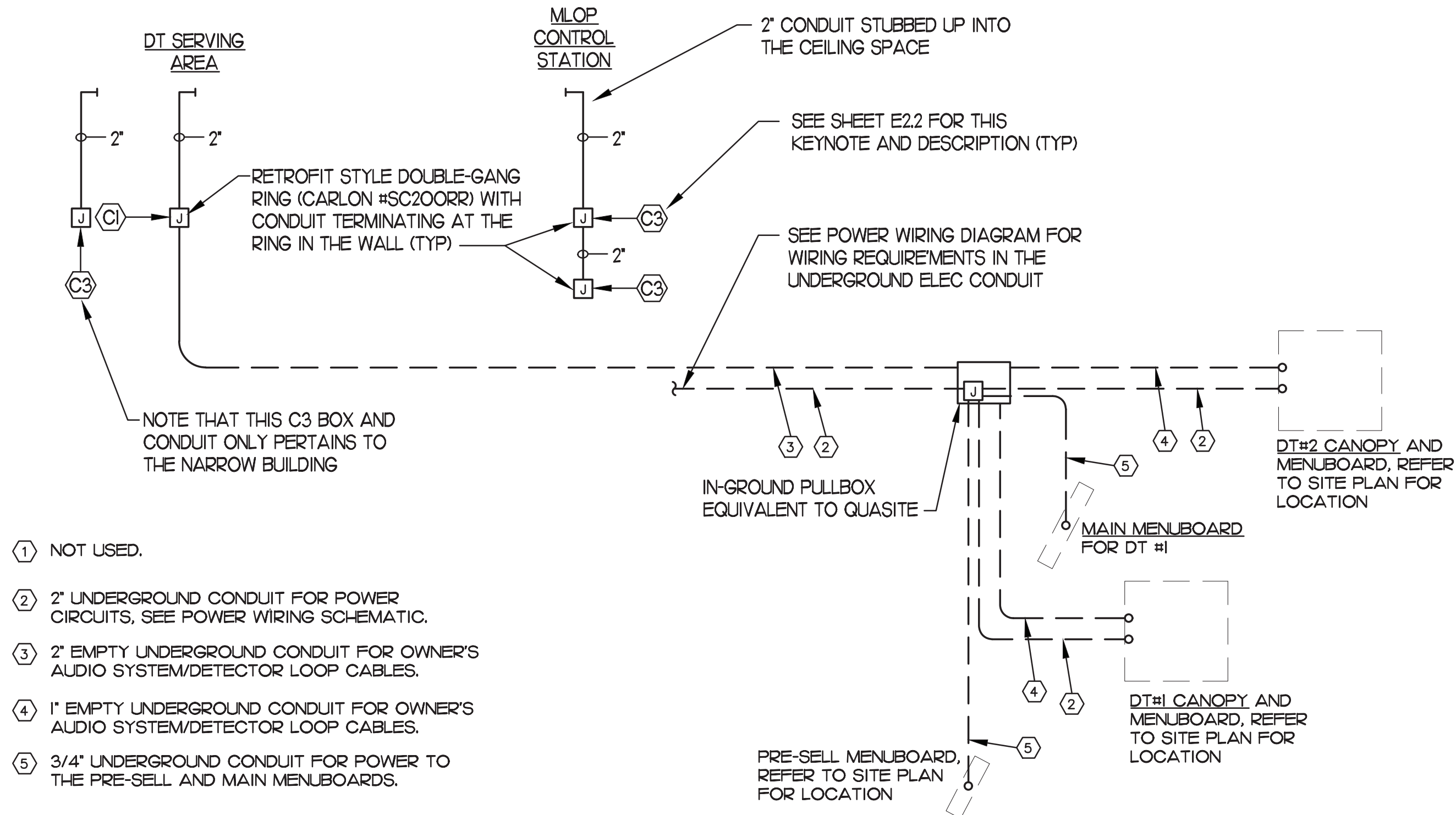
FSR#01794

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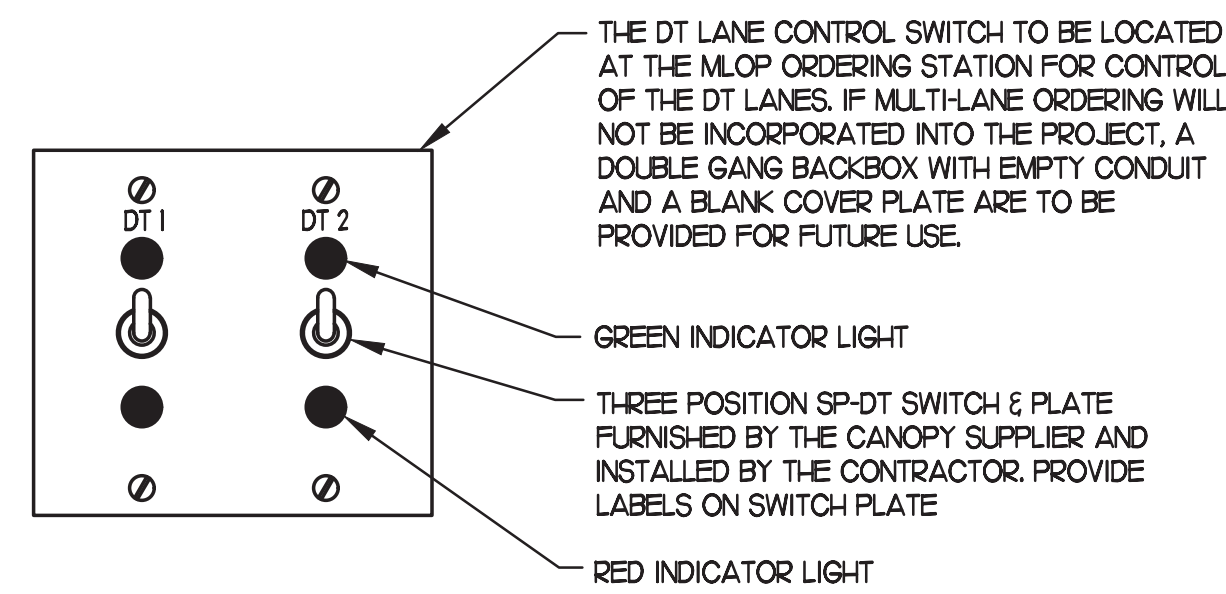
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EQUIP. SCHEDULE
AND DETAILS
SHEET NUMBER



2 MULTI-LANE ORDER POINT (MLOP) DRIVE-THRU REQUIREMENTS

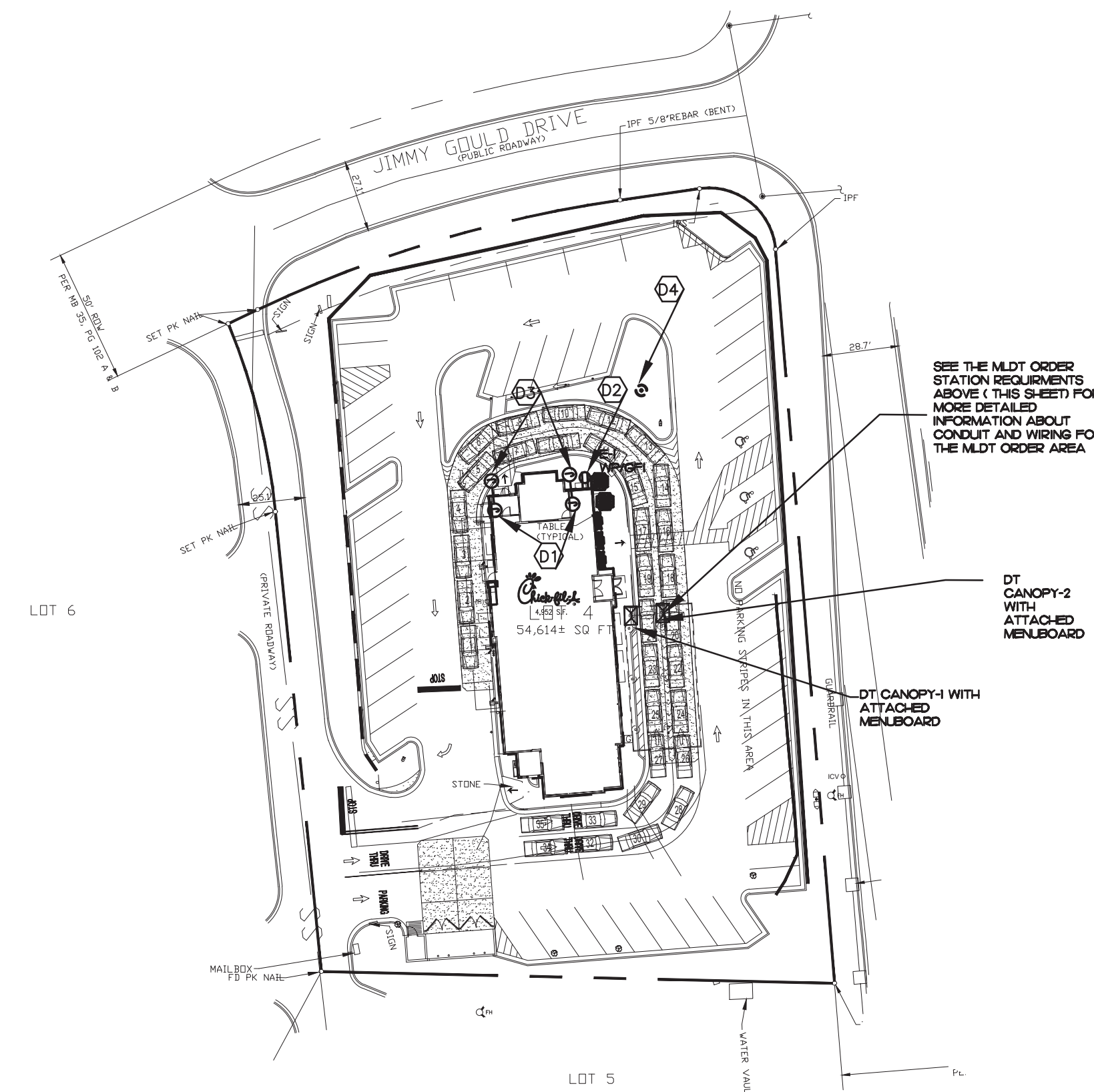


1 MULTI-LANE DRIVE-THRU ORDER AREA CONDUIT REQUIREMENTS



3 POSITION DT LANE CONTROL STATION

NO SCALE



3 ELECTRICAL SITE PLAN SCALE 3/8"=1'-0"



Chick-fil-A

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Atlanta, Georgia
30349-2998

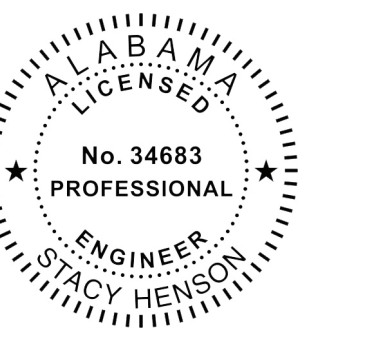
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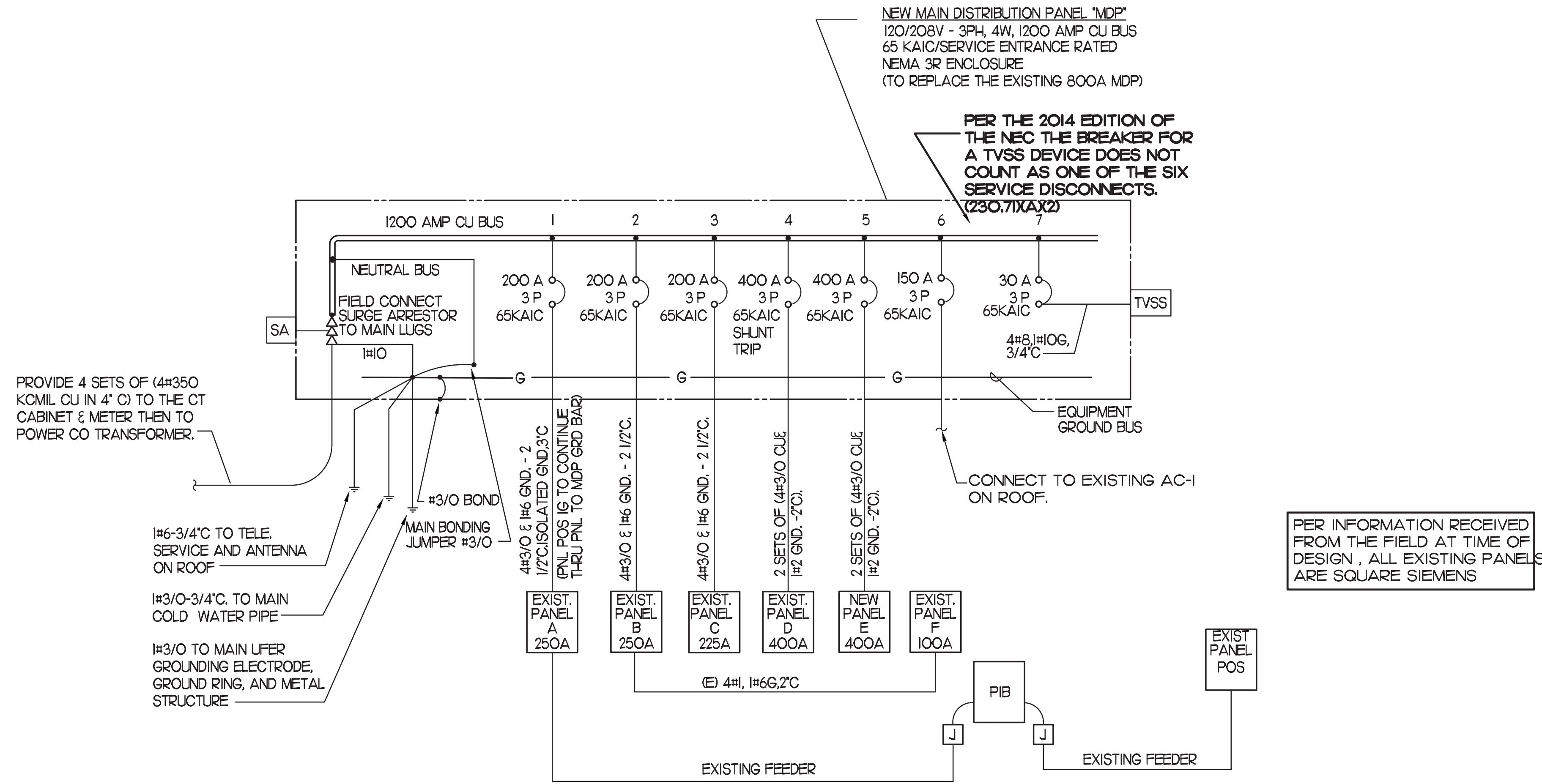
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DRIVE-THRU ORDER AREA
SHEET NUMBER

EI3
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VOLTAGE DROP CALCULATIONS

CIRCUIT	VOLTS (L-N)	VOLTS (L-L)	PHASE	AMPS	CIRCUIT WRES	SYSTEM p.f	WIRE SIZE (AWG or kcmil)	WIRE TYPE (CU, AL)	CONDUIT TYPE (STL, PVC, AL)	ONE-WAY LENGTH (FT.)	INCREMENTAL VOLTAGE DROP (volts)	INCREMENTAL VOLTAGE DROP (%)	TOTAL V.D. FROM SOURCE (volts)	TOTAL V.D. AT LOAD (%)
TRANSFORMER	PANEL MDP	208	3	992.0	4	0.90	350	CU	PVC	36	0.80	0.4%	0.80	0.4%
PANEL MDP	PANEL C	208	3	207.0	1	0.90	250	CU	STL	60	1.53	0.7%	2.33	1.1%

1 SINGLE LINE DIAGRAM

3 SINGLE LINE DIAGRAM NOTES

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

4 SWITCHGEAR AND CONTROL EQUIPMENT NOTES:

- PURCHASE PANELBOARDS, SURGE ARRESTOR, AND TVSS FROM ONE OF THE TWO NATIONAL ACCOUNTS VENDORS (SEE SHEET E4.2 SECTION C16440, PANELBOARDS) PROVIDING SIEMENS OR SQUARE D EQUIPMENT NO SUBSTITUTIONS ALLOWED
- PURCHASE CONTROL PANEL "CPA-1500" OR ANY ADDITION SUB PANELS FROM SUNCOAST ENVIRONMENTAL, INC. (NO SUBSTITUTIONS ALLOWED) ALL EQUIPMENT IN THE CONTROL PANEL SHALL BE INSTALLED, WIRED AND CONNECTED AT THE FACTORY, INCLUDING AUTOMATIC LIGHTING CONTROL SYSTEM, LIGHTING RELAYS, HVAC STARTERS, POWER SUPPLIES, MISCELLANEOUS RELAYS AND CONTROLS, AND THERMOSTATS.
CONTACT: SCOTT DYER (877)544-6679.
CONTRACTOR SHALL PROVIDE PANEL FEEDERS A, B, C, D, E, F & POS BRANCH CIRCUIT CONDUIT AND WIRE, AND INSTALL ALL EQUIPMENT AS REQUIRED.
ALL BREAKERS AND PANELS SHALL BE SIEMENS OR SQUARE D, DEPENDING ON THE CHICK-FIL-A REGION THE STORE IS LOCATED.
SQUARE D EQUIPMENT: CONTACT GRAY BAR.
SIEMENS EQUIPMENT: CONTACT SUNCOAST.
SCOTT DYER (877)544-6679.
TVSS AND SURGE ARRESTOR UNITS SHALL BE MOUNTED DIRECTLY ADJACENT TO THE SIDE OF THE MAIN DISTRIBUTION PANEL IN NEMA 3R ENCLOSURES. CLOSE NIPPLE THE UNITS TO THE SIDE OF THE PANEL. PROVIDE CONNECTION OF TVSS UNIT TO BREAKER IN PANEL. CONNECT SURGE ARRESTOR TO MAIN INCOMING LUGS OF THE PANEL. CONNECT USING MINIMUM LENGTH OF WIRE WITHOUT SHARP BENDS IN THE WIRE AND NOT BE LENGTHENED FROM WIRE LENGTH PROVIDED WITH THE TVSS OR SURGE SUPPRESSOR DEVICE.

LOAD SUMMARY
(NOT ALL ELECTRIC RESTAURANT)

THE FOLLOWING IS BASED ON NEC 2005-220.88 / 2008-220.88 / 2011-220.88/2014-220.88/2017-220.88

LIGHTING	36423
RECEPTS TO 10 KVA	10000
RECEPTS REMAINING	1602
SPACE HEATING	0
AIR CONDITIONING	107584
NON-SEASONAL MOTORS	11936
WATER HEATER	800
KITCHEN EQUIPMENT	276230
CONTINUOUS LOADS	0
NON-CONTINUOUS LOADS	0
TOTAL CONNECTED KVA	444.6 KVA
IF TOTAL IS 0-200 KVA, THEN TOTAL LOAD 100%	
IF TOTAL IS 201-325 KVA, THEN LOAD OVER 200 AT 50% + 200	
IF TOTAL LOAD IS 326-800 KVA, THEN LOAD OVER 325 AT 45% + 262.5 kva 316.3	
IF TOTAL LOAD IS OVER 800 KVA, THEN LOAD OVER 800 AT 20% + 476.3	
DIVERSIFIED AMPS AT 208 VOLT	878.0 AMPS

2 CONDUIT AND CONDUCTORS SCHEDULE (Based on 2005, 2008, 2011, 2014 and 2017 NEC)

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

Notes:

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

NEC Table 310.16 (310.15(B)(16)) in 2014 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.

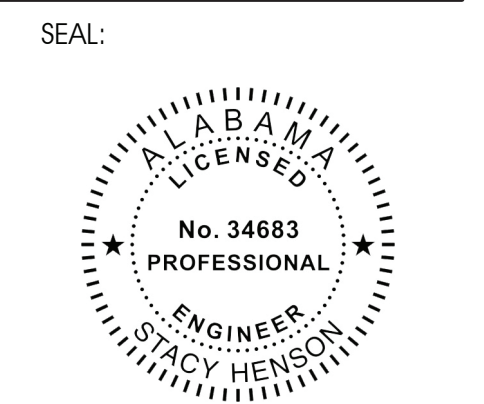
The above conductors are not calculated for Voltage Drop. Any circuits that exceed 100 feet shall be calculated by the installer to have less than a three percent voltage drop on feeders and five percent on branch circuits per the NEC.



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



INTERPLAN LLC
AR0011595
CA 8660
ARCHITECTURE
ENGINEERING
PERMITTING



CHICK-FIL-A
ALABASTER
125 Colonial Promenade Parkway
Alabaster, AL 35007

FSR#01794

BUILDING TYPE / SIZE: S03.8-1C Reverse
RELEASE: 09.2021
PRINTED FOR: PROJECT STATUS PERMIT
REVISION SCHEDULE: NO. DATE DESCRIPTION

CONSULTANT PROJECT # 2021.0086
DATE 11.2021
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SHEET SINGLE LINE RISER DIAGRAM
SHEET NUMBER

**SECTION C16100
ELECTRICAL GENERAL PROVISIONS**

PART 1 - GENERAL

- A. 1.01 WORK INCLUDED
 - B. Provide all materials, labor and equipment required to furnish and install a complete electrical system as indicated on drawings and as specified herein.
 - C.
 - D. 1.02 REGULATORY REQUIREMENTS
 - E. Equipment furnished shall be UL listed where such label is available. Installation shall conform to UL standards where applicable.
 - F.
 - G. 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.
 - H.
 - I. all references shall be made to the Florida building code FBCB (6th edition) ; FBCEC (6th edition) and NEC 2014
- 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 Carlton, 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 isolated ground (green + yellow stripe) conductor for isolated ground circuits (POS System), fitting 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 fittings.

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

1.02 ELECTRICAL METALLIC TUBING (EMT)

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

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

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

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

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

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

- C. Shall not be concealed in walls.

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

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

- 1.07 MC (METAL-CLAD) CABLE
- A. MC Cable may be used, concealed above ceiling and in walls, when allowed by local codes and article 330 of the national electrical code for the connection of the Point Of Sales (POS) system equipment only.

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

**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 fer alloy. 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.

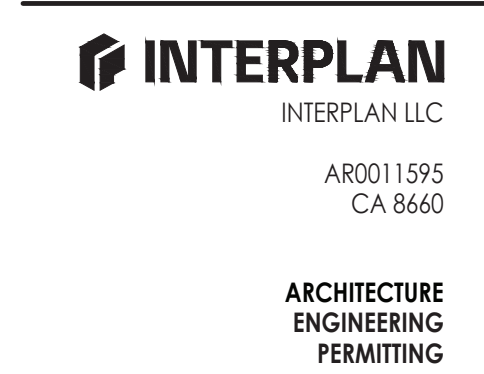
- E. Install #6 awg copper grounding conductor from ground bar in main telephone box to grounded neutral bus in main distribution panel.

- 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.

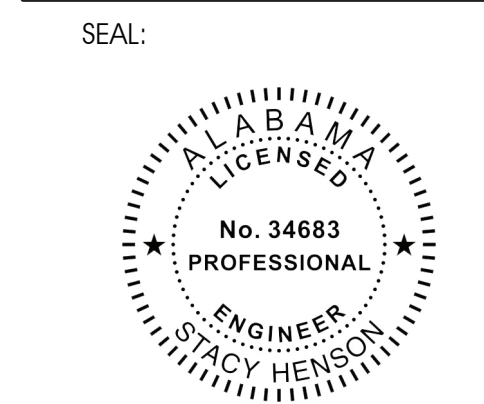
- 2.03 FIELD QUALITY CONTROL
- A. Inspect grounding and bonding system conductors and connections for tightness and proper installation.



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FSR#01794

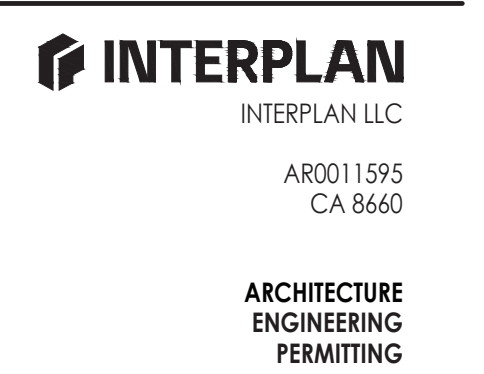
BUILDING TYPE / SIZE: S03-8-1C Reverse
RELEASE: 09.2021
PRINTED FOR: PERMIT
Project Status PERMIT
REVISION SCHEDULE
NO. DATE DESCRIPTION

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DATE 11.2021
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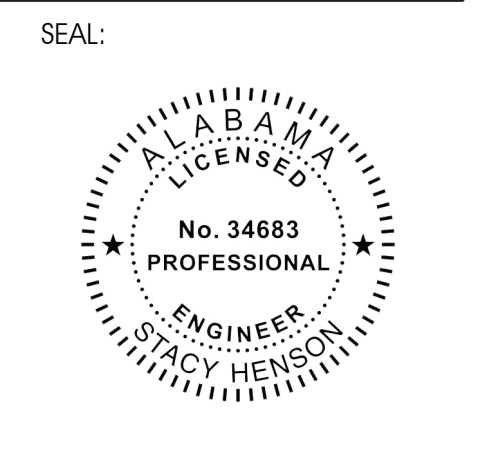
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FSR#01794

BUILDING TYPE / SIZE: S03.8-1C Reverse
 RELEASE: 09.2021
 PRINTED FOR: PROJECT STATUS PERMIT

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

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. Operating and maintenance manuals will be provided to owner by electrical contractor in accordance to section C405.6.4.2 of FBCEC.
4. A complete narrative of how each system is intended to operate.

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DATE	11.2021
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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 Electrical 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: #RC20-GY (Kitchen) or #RC20-B (Dining)
 Tamper resistant duplex device: #TR8200-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 'white-in-use' cover equivalent to Arrow Hart #WIU-1.

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

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

PART 2 - EXECUTION

2.01 INSTALLATION

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

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

SECTION C16440
PANELBOARDS

PART 1 - PRODUCTS

1.01 MANUFACTURER (VIA CHICK-FIL-A NATIONAL ACCOUNTS PROGRAM)

- A. Siemens (West, Midwest and Southwest Regions) from Suncoast Environmental Controls (SEC) , Scott DYER (877) 544-6679.
 B. Square-D (Northeast, Atlantic, and Southeast Regions) from Accu-serv, 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 - North 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 - Central region, Southwest region, and West region. Contact at Villa Lighting: Dave Christnell at 800-325-0963, fax- 314-531-8720, email - daveco@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 'Limiter' fuse of ampere rating 3 times the load current.

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

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

SECTION C16596
SPECIAL SYSTEMS

PART 1 - GENERAL

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

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

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

PART 2 - PRODUCTS

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

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

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

PART 3 - EXECUTION

3.01 INSTALLATION

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

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

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

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

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

SECTION C16597
TELEPHONE SERVICE

PART 1 - GENERAL

1.01 WORK INCLUDED

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

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

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

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

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

PART 2 - PRODUCTS

2.01 MATERIALS

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

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

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

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

PART 3 - EXECUTION

3.01 INSTALLATION

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

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

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

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

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

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

CLOSE OUT DOCUMENT REQUIREMENTS

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

1. Submittal data stating equipment rating and selected options for each piece of equipment requiring maintenance.
2. Operation manuals and maintenance manuals for each piece of equipment requiring maintenance. Required routine maintenance actions shall be clearly identified.
3. Operating and maintenance manuals will be provided to owner by electrical contractor in accordance to section C405.6.4.2 of FBCEC.
4. A complete narrative of how each system is intended to operate.