



Chick-fil-A

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

INTERPLAN
INTERPLAN LLC

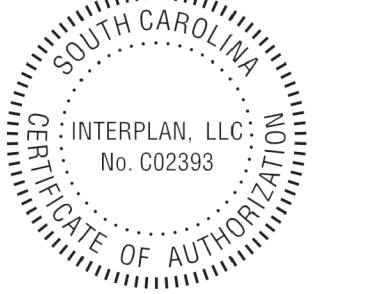
ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALAMONTE SPRINGS, FL 32701
407.645.5038

SEAL:



CORPORATE SEAL:



CHICK-FIL-A
CENTRE POINTE FSU
4926 CENTRE POINTE DR.
NORTH CHARLESTON, SC 29418

FSR#01936

BUILDING TYPE / SIZE: S06-C-R

RELEASE: 2023-004

PRINTED FOR: CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	10/2023	ISSUE FOR CONSTRUCTION
2	10/2023	CP REVISION
3	01/2024	CONSTRUCTION UPDATE
4	01/2024	GREASE TRAP UPDATE

CONSULTANT PROJECT # 2022.0771

DATE 03/13/23

DRAWN BY SE

CHECKED BY DAK

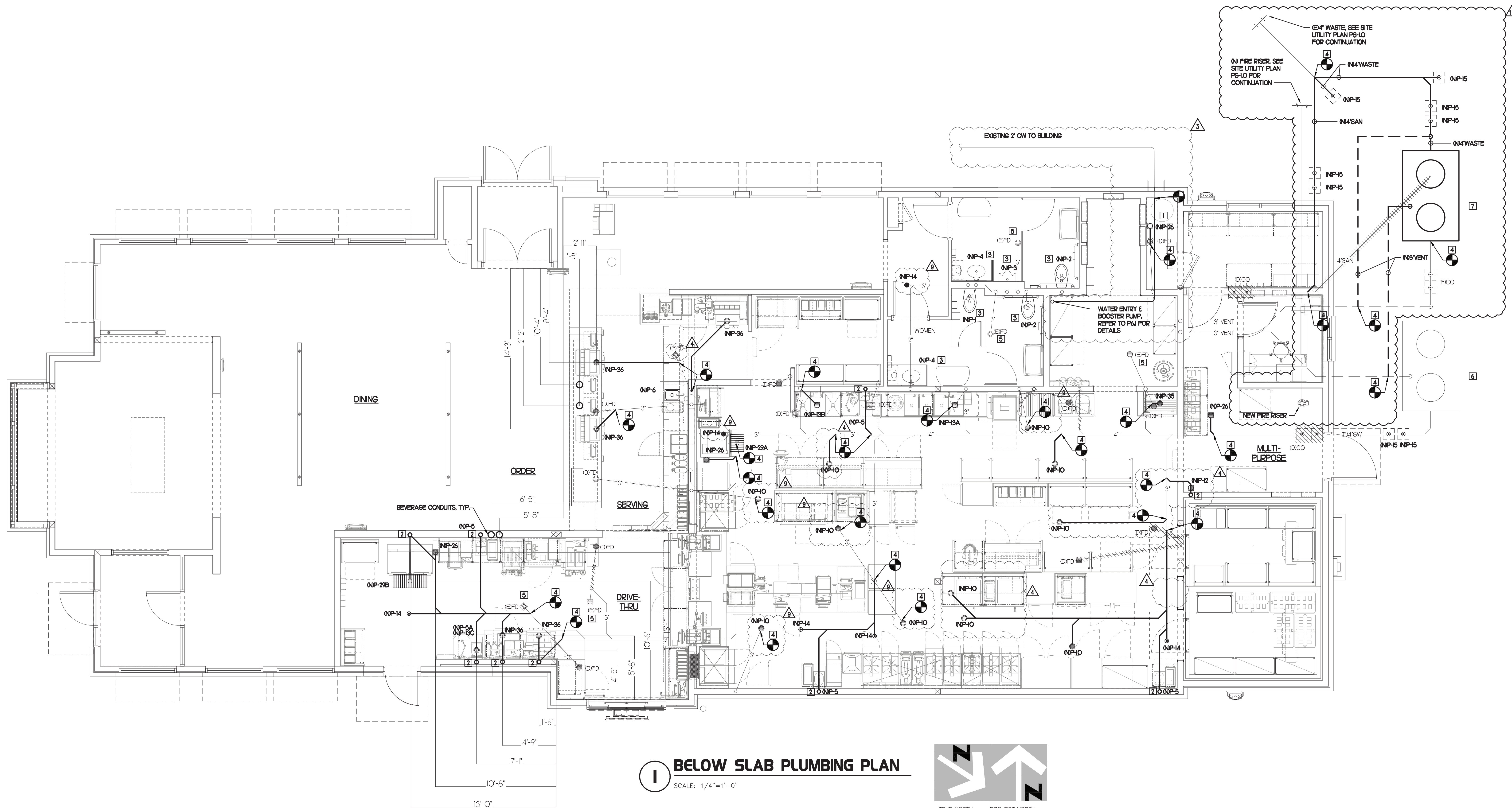
DATE 03/13/23

SHEET NO.

BELOW SLAB PLUMBING PLAN

SHEET NUMBER

P1.1



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

PLUMBING KEY NOTES

- 1 RELOCATED P-19 WATER HEATER
- 2 PROVIDE NEW 2" VENT IN WALL. MAKE FINAL PLUMBING MODIFICATIONS.
- 3 CONNECT NEW RESTROOM FIXTURE TO EXISTING SANITARY WASTE LINE.
- 4 CONNECT TO EXISTING WASTE LINE AS INDICATED, VERIFY FALL, FLOW DIRECTION AND CONNECTING INVERTS.
- 5 GENERAL CONTRACTOR TO CHECK EXISTING FLOOR DRAIN FOR PROPER CONNECTION TO AND FUNCTION OF EXISTING TRAP PRIMER AND TRAP PRIMER CONNECTING VALVE. IF PROPER WORKING CONDITIONS ARE NOT MET, OWNER TO PROVIDE NEW SNAKE DRAIN TO REMOVE ANY EXISTING BLOCKAGES RESPONSIBLE FOR BACKUP/ODOR ISSUES.
- 6 EXISTING GREASE TRAP TO REMAIN.
- 7 NEW 1500 GALLON GREASE TRAP. SEE 2/P-11 FOR MORE INFORMATION AND PS-10 FOR EXACT LOCATION.

LEGEND

- EX EXISTING
- NEW NEW
- RELOCATED
- DEMOLISHED
- FS FLOOR SINK
- HS HAND SINK
- FD FLOOR DRAIN
- HD HUB DRAIN
- POINT OF DISCONNECTION
- POINT OF CONNECTION
- KITCHEN EQUIPMENT TAG
- PIPING TO BE REMOVED

2. SHEET NOTES

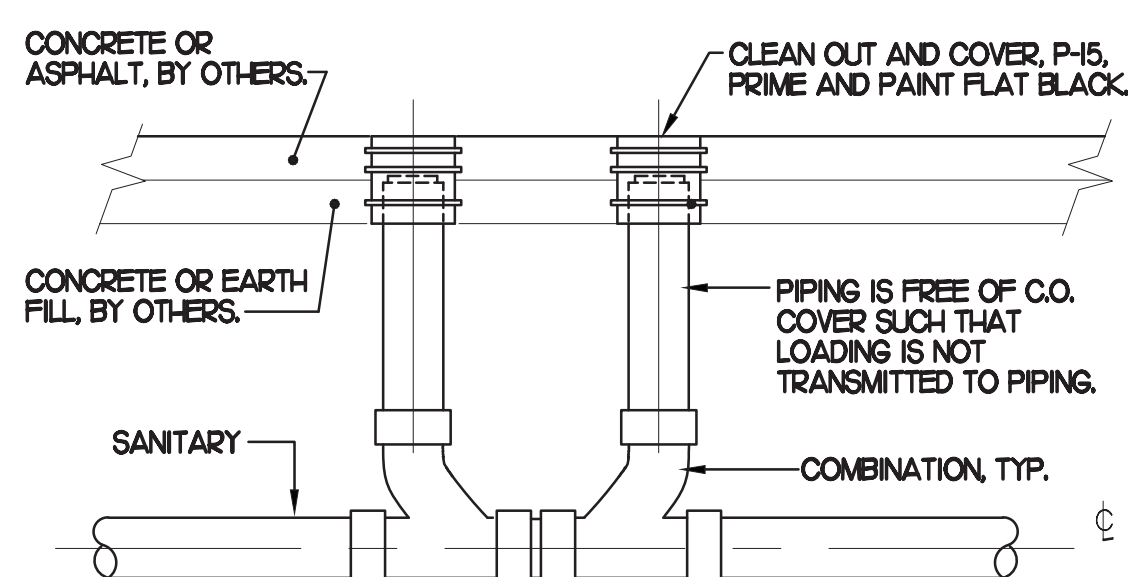
- 1 COORDINATE INSTALLATION OF SANITARY PIPING WITH FOOTINGS IN THE FIELD. SLEEVE PENETRATIONS IN FOOTINGS WITH PVC.
- 2 WHERE REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION PROVIDE SAFE-WASTE SYSTEM AS OUTLINED IN STATE AND LOCAL CODE AMENDMENTS.
- 3 ALL VENT PIPING TO BE 1/2" DIAMETER UNO. SEE 1/P-11 FOR VENT LAYOUT.

FIELD VERIFY ALL CONDITIONS

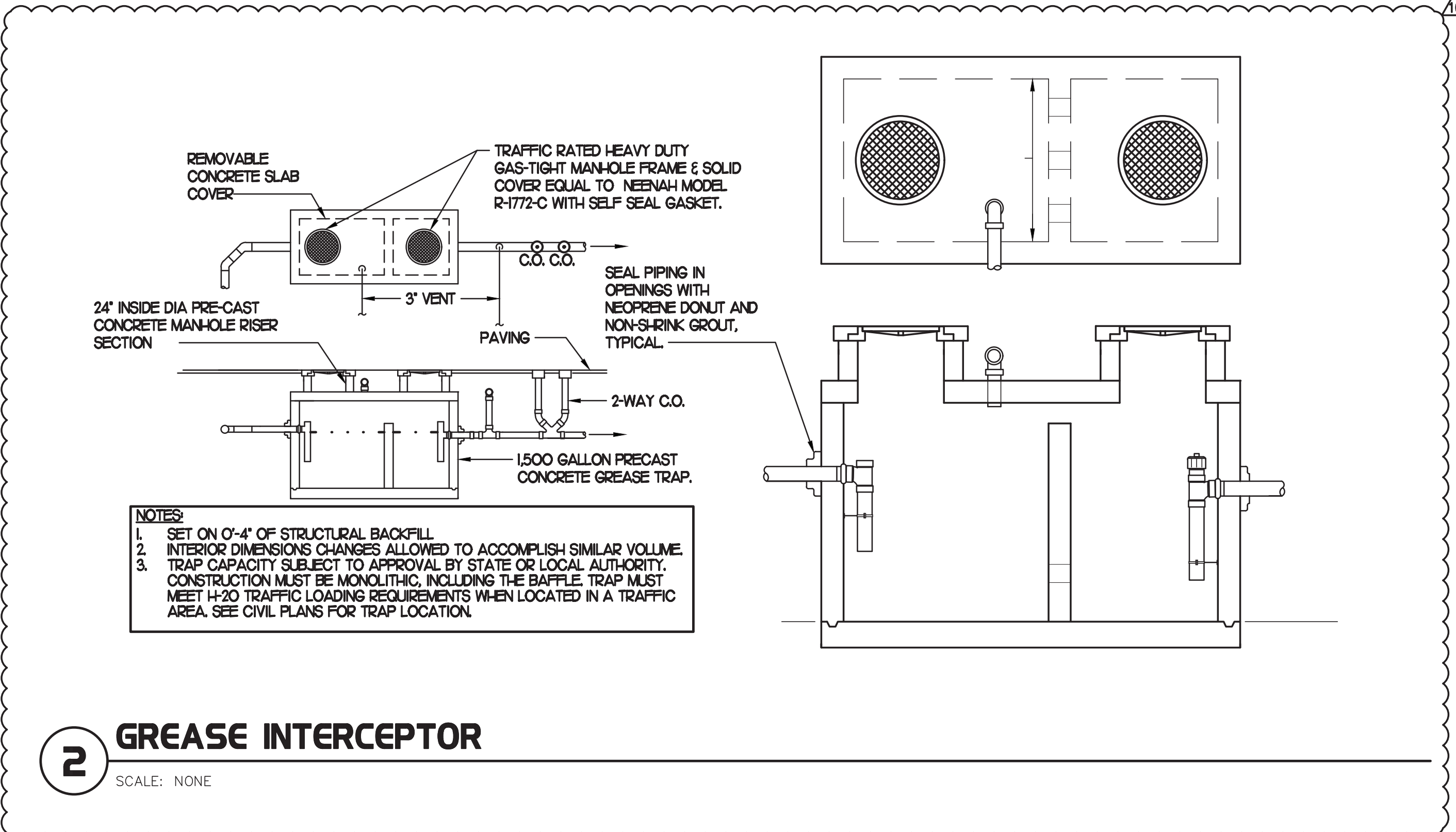
NOTE: AS NOTED IN THE SPECIFICATIONS, ALL WIRING LAYOUTS, PIPING LAYOUTS AND DUCT LAYOUTS ARE SCHEMATIC. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONSTRUCTION AND STRUCTURE OF THE BUILDING AND SHALL BE VERIFIED AND COORDINATED IN THE FIELD. EACH TRADE CONTRACTOR SHALL VERIFY WITH THE GENERAL CONTRACTOR 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 OF THE DESIGN AND INCLUDE 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.

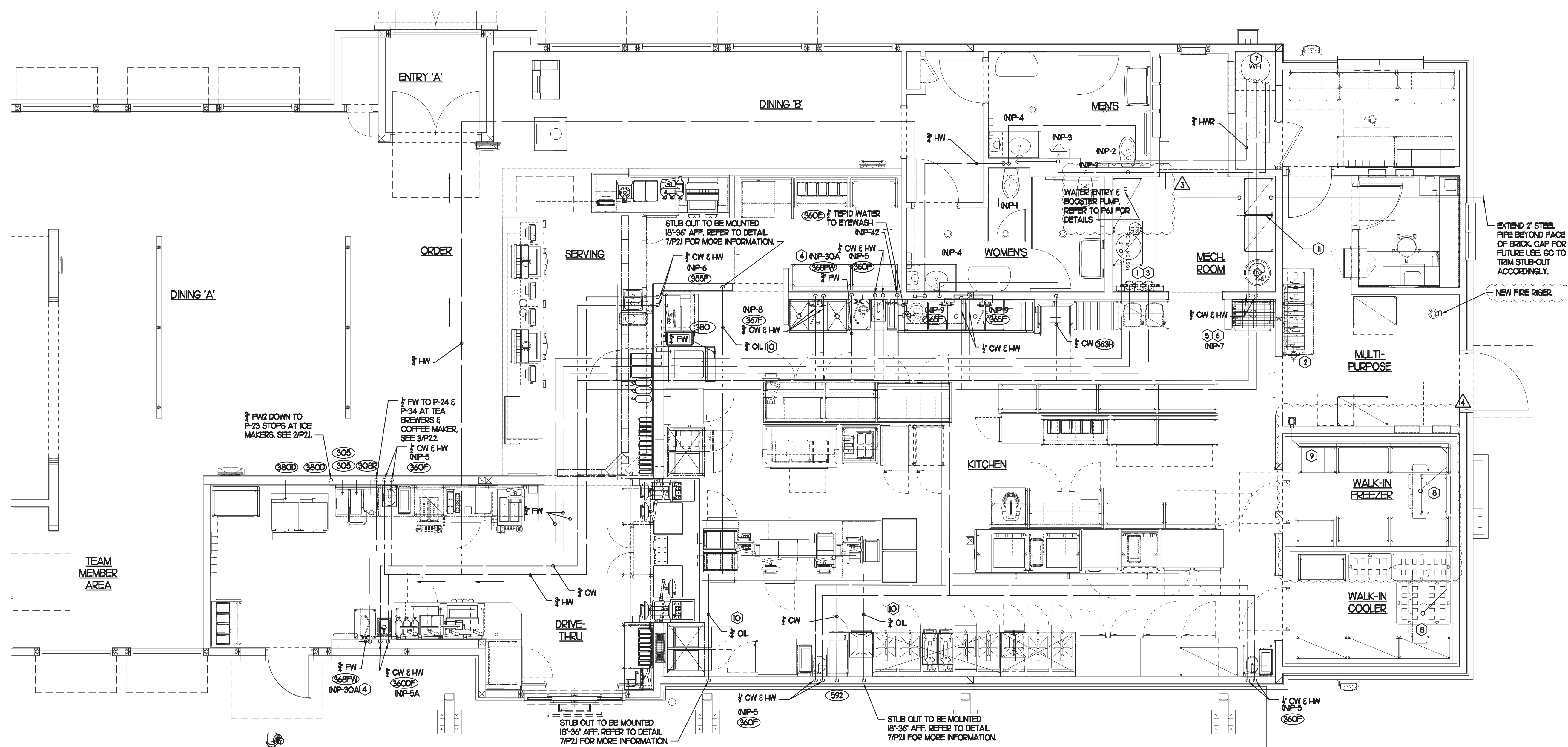
BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES. THE PLANS AND SPECIFICATIONS NOT WITHSTANDING, THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT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



3 SAN. C.O. OUTSIDE BUILDING
SCALE: NONE



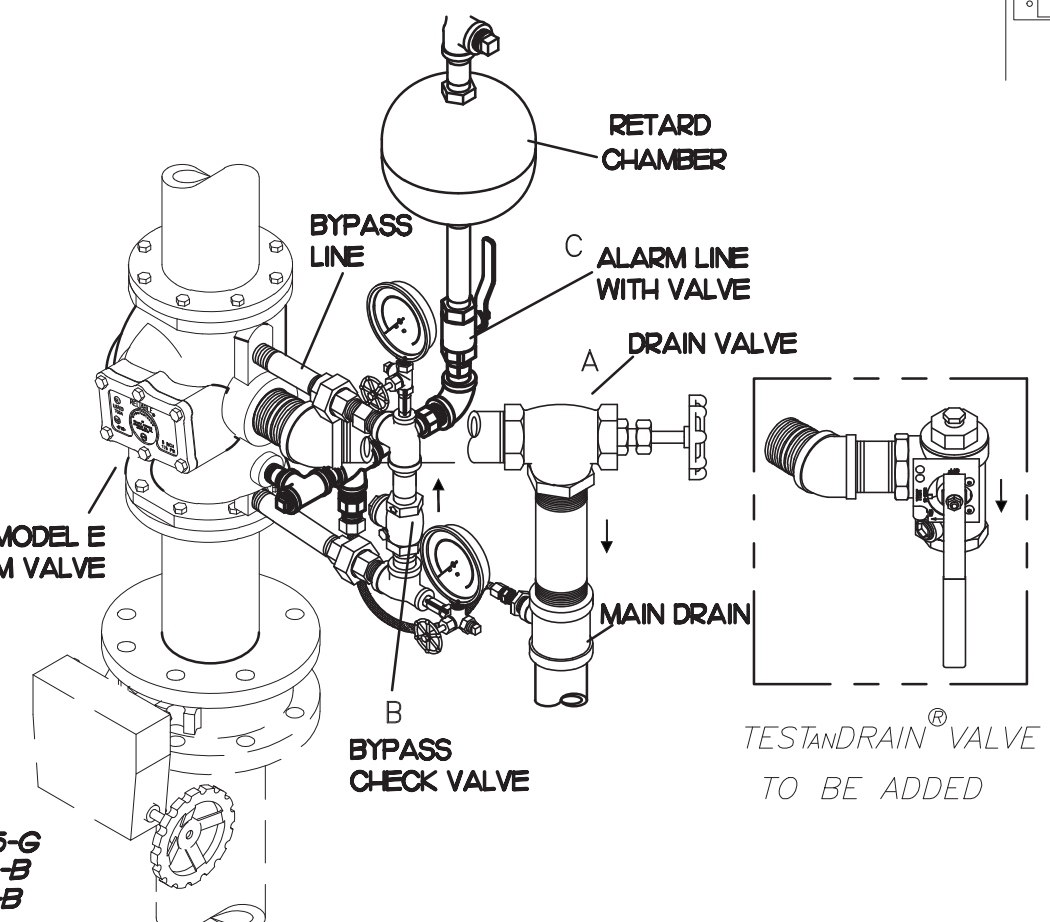
2 GREASE INTERCEPTOR
SCALE: NONE



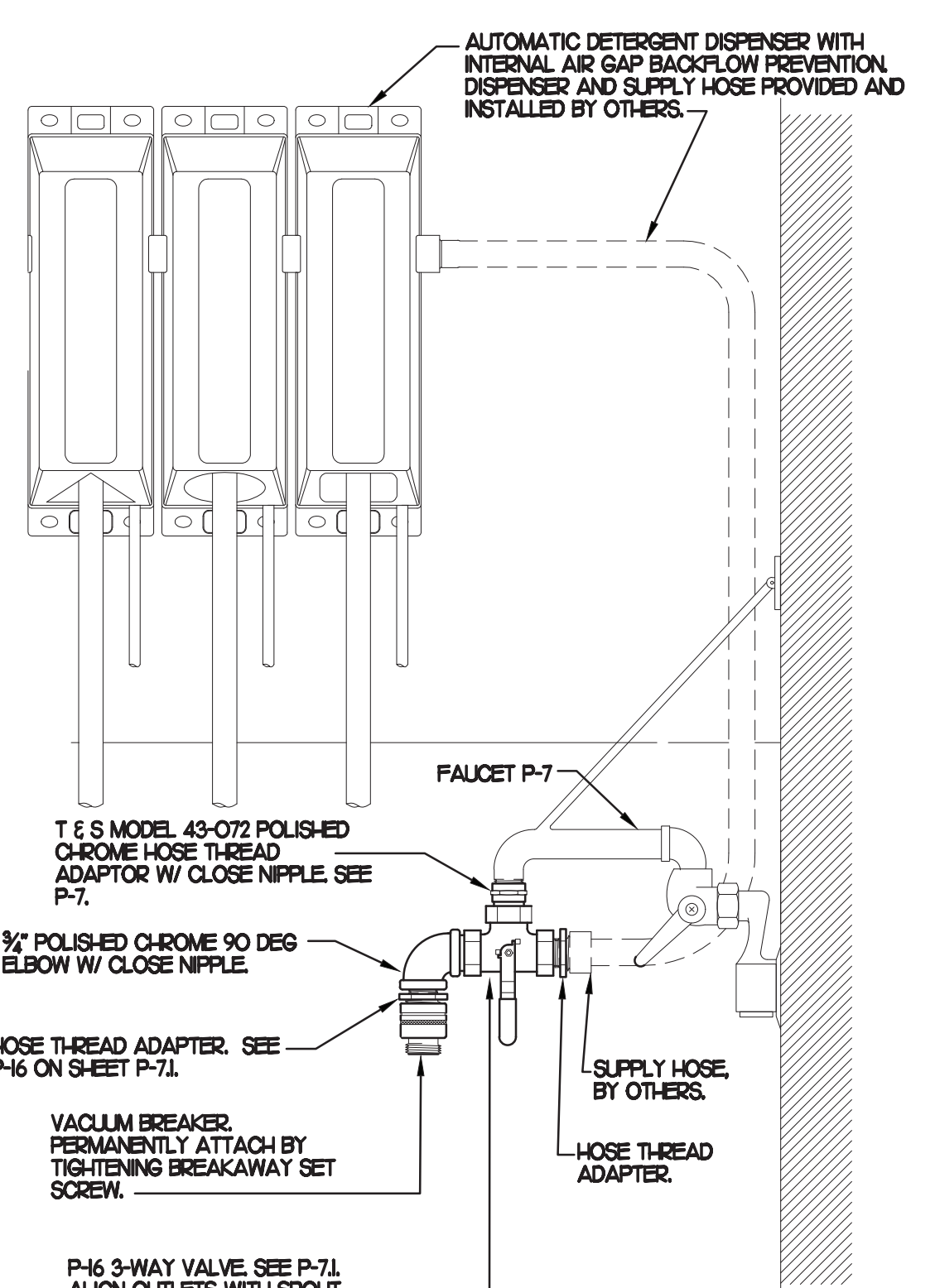
PIPING LEGEND	
---	CW - COLD WATER
---	HW - HOT WATER
---	TW - TEMPERED WATER
---	FW - FILTERED WATER, TO P-30, CARBONATORS, COFFEE, TEA, AND ICE MAKERS
---	---
---	EXISTING PIPING

KEY NOTES

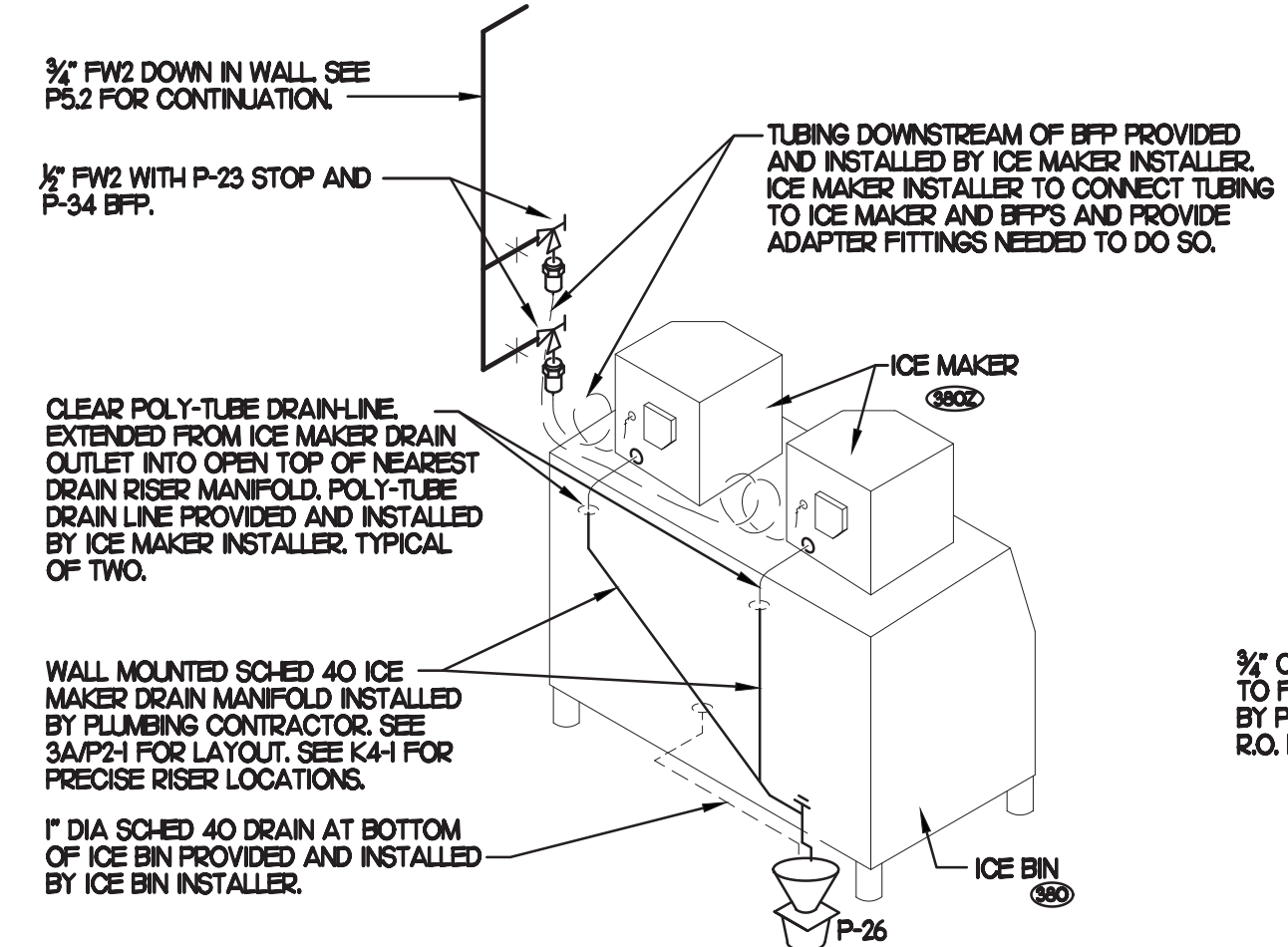
- PROVIDE NEW WATER FILTERS TO REPLACE EXISTING. VERIFY EXACT LOCATION AND CONNECTIONS PRIOR TO BID & CONSTRUCTION. SEE DETAILS.
- OWNER PROVIDED, PLUMBER INSTALLED STOP/BYPASS PANEL. SEE K-SHEET ELEVATIONS FOR EXACT LOCATION. PROVIDE EXPOSED 3/4" BALL VALVE AT CONNECTION TO PANEL. CONNECT 1" DIA SCHED 40 PVC TO FACTORY PROVIDED COUPLING MOUNTED ON BACK WALL AND ROUTE BPP DRAIN TIGHT TO WALL TO 12" AFFR EIGHT (8) ASSE 1022 RATED BPPs. PIPING FROM BPPs TO CARBONATORS SHALL BE BY THE LOCAL SOFT DRINK VENDOR.
- RUN NEW FW AND FW2 FROM NEW WATER FILTERS, AND DEMOLISH ALL EXISTING FW AND FW2.
- 3/4" FW DROP TO TWO-HANDLE FAUCET, P-30A. MOUNT FAUCET ON WALL. SEE K-SHEETS FOR EXACT LOCATION. PIPE 1/2" FW TO EACH FAUCET INLET WITH 6" SPREAD. PROVIDE BALL VALVE ABOVE CEILING.
- 1/2" HW AND CW DROPS TO MOP SINK FAUCET SET P-7. PROVIDE BALL VALVE FOR EACH ABOVE CEILING WITH P-22 BALL CHECK VALVE IN EACH DROP.
- INSTALL P-16 3-WAY VALVE WITH BACKFLOW PREVENTER ON P-7 FAUCET SPOUT FOR CONNECTION TO ESCALAB DETERGENT DISPENSER. SEE DETAIL 5/P21.
- RELOCATED P-19 WATER HEATER.
- TURN 3/4" CONDENSATE PIPING OUT OF COOLER AND EXTEND OUTLET TO FLOOR SINK. SECURE PIPING TO COOLER WALL WITH RUBBER INSULATED PIPE CLAMPS TO PREVENT GALVANIC CORROSION. SEAL ALL PENETRATIONS IN WALLS WITH PERMAGUM CORD. TERMINATE ABOVE FUNNEL WITH ELBOW AND AIR GAP.
- 3/4" TYPE L COPPER, PROVIDE 12" OF FALL BEFORE PENETRATING WALL PANEL. COVER WITH 1-1/2" I.D. X 1/2" ARMARCEL A/P ARMAFLEX OVER HEAT TRACE CABLE.
- PROVIDE SCHEDULE 40 (BLACK OR GALVANIZED) STEEL PIPING BACK TO FUTURE DARPRO OIL TANK. PIPING TO BE ROUTED TO ALLOW AS MUCH FALL AS POSSIBLE TO THE TANK.
- TURN 3/4" AND 2" SCHEDULE 40 STEEL PIPE DOWN THROUGH CEILING FOR FUTURE DARPRO OIL TANK AND CAP ACCORDINGLY. PROVIDE CHROMED ESCUTCHEONS AT CEILING PENETRATIONS. 3/4" OIL LINE TO BE CAPPED 2" BELOW CEILING.



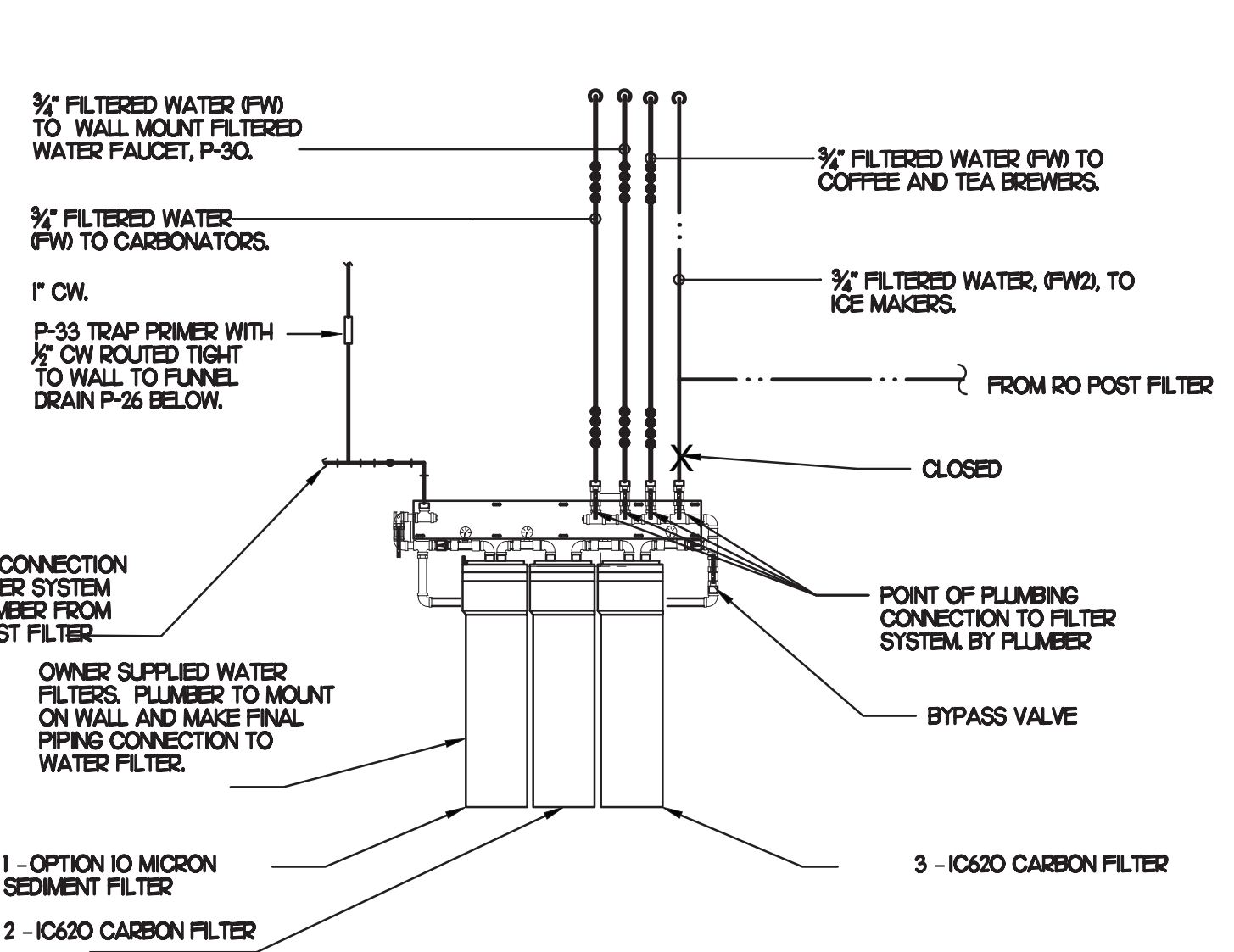
4 FIRE RISER DETAIL
NO SCALE



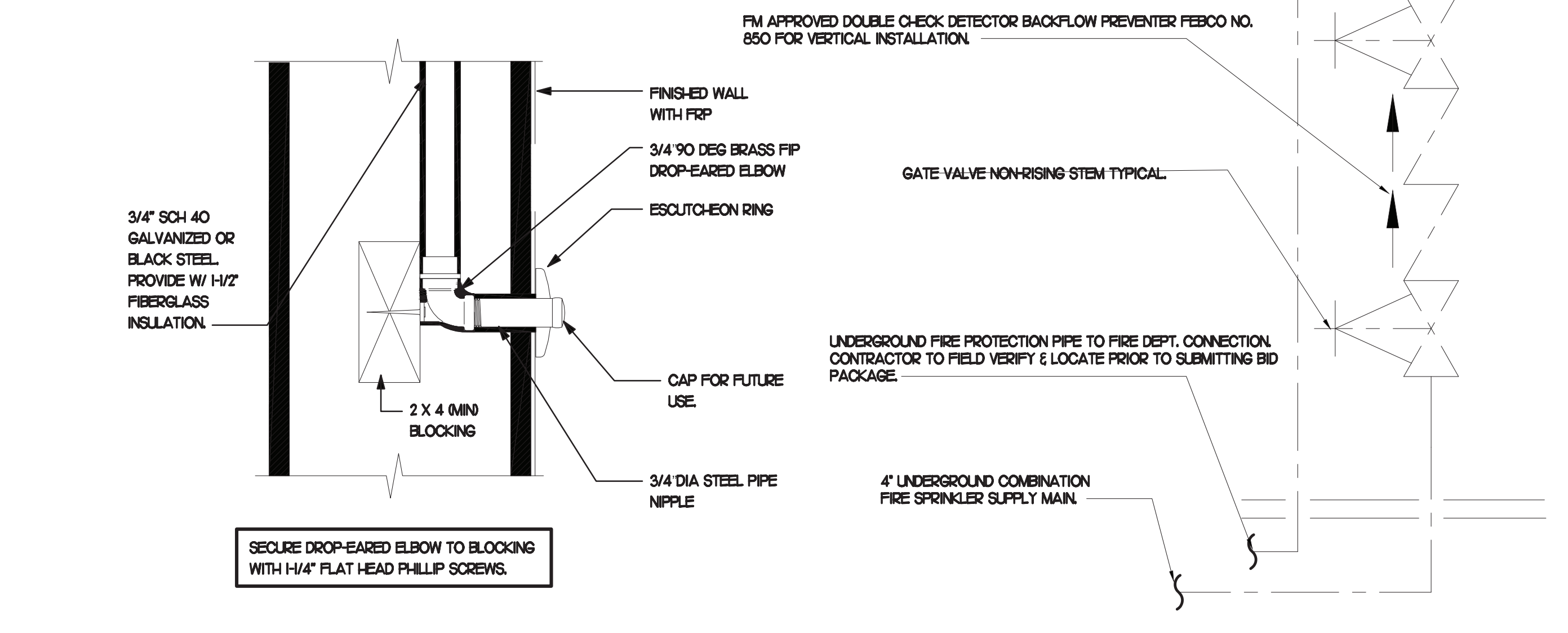
5 3-WAY VALVE AT MOP SINK
NO SCALE



2 ICE MACHINE PIPING
NO SCALE



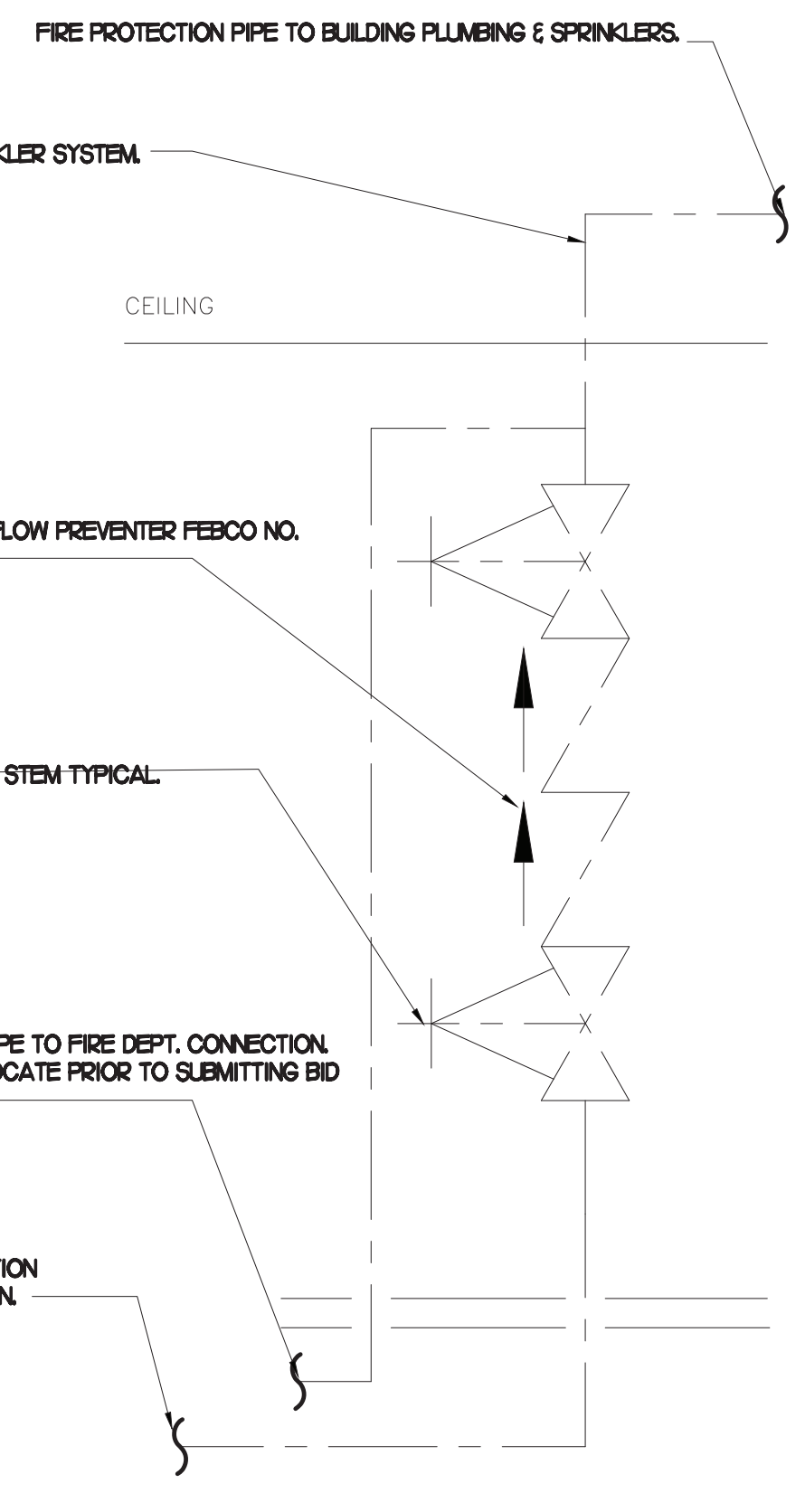
3 PIPING AT WATER FILTER
SCALE: 1/4"=1'-0"



7 DARPRO OIL PIPING SECTION WITHIN WALL
NO SCALE

SHEET NOTES

- COORDINATE VENT TERMINAL LOCATIONS WITH FRESH AIR HOODS ON ROOFTOP EQUIPMENT SO AS TO MAINTAIN MINIMUM 10'-0" CLEARANCE.
- HOLD ALL PIPING ABOVE THE CEILING TIGHT TO STRUCTURE. DUCT LOCATIONS TAKE PRIORITY. SEE DRAWING M1 FOR DUCT LAYOUT. COORDINATE CONFLICTS WITH GC.
- SEE K-SHEET ELEVATIONS FOR KITCHEN EQUIPMENT LOCATIONS.
- SEE SHEET P-22 FOR BEVERAGE CONDUIT PIPING.
- SEE RISER DIAGRAM (P/S) FOR VENT PIPING. SEE ROOF PLAN (P/4) FOR VENT THRU ROOF (VTR) LOCATION.
- COORDINATE ABOVE-CEILING PIPING LOCATIONS AND ROUTING WITH HVAC CONTRACTOR AND M-SHEETS PRIOR TO INSTALLATION. ALL MAIN DUCT TRUNK LOCATIONS SHALL TAKE PRIORITY. PIPING MAY REQUIRE REMOVAL AND REINSTALLATION AT PLUMBING CONTRACTOR'S EXPENSE IF PIPING OBSTRUCTS THE M-SHEET DUCT LAYOUT AS SHOWN OR PREVENTS ACCESS TO GREASE DUCT CLEANOUT OPENINGS.



5 FIRE RISER DETAIL
NO SCALE

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STATE OF ALABAMA
REGISTERED PROFESSIONAL ENGINEER
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CHICK-FIL-A
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NORTH CHARLESTON, SC 29418

FSR#01936
BUILDING TYPE / SIZE: S06-C-R
RELEASE: 2023-004
PRINTED FOR: CONSTRUCTION
REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	1/18/2023	ISSUE FOR COORDINATION
2	1/18/2023	CP REVISION
3	9/19/2024	CONSTRUCTION UPDATES

CONSULTANT PROJECT # 2022.0771
DATE 03/13/23
DRAWN BY SE
CHECKED BY DAK
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SHEET WATER PIPING PLAN AND DETAILS
SHEET NUMBER
P2.1



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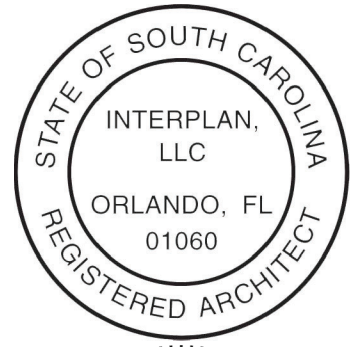
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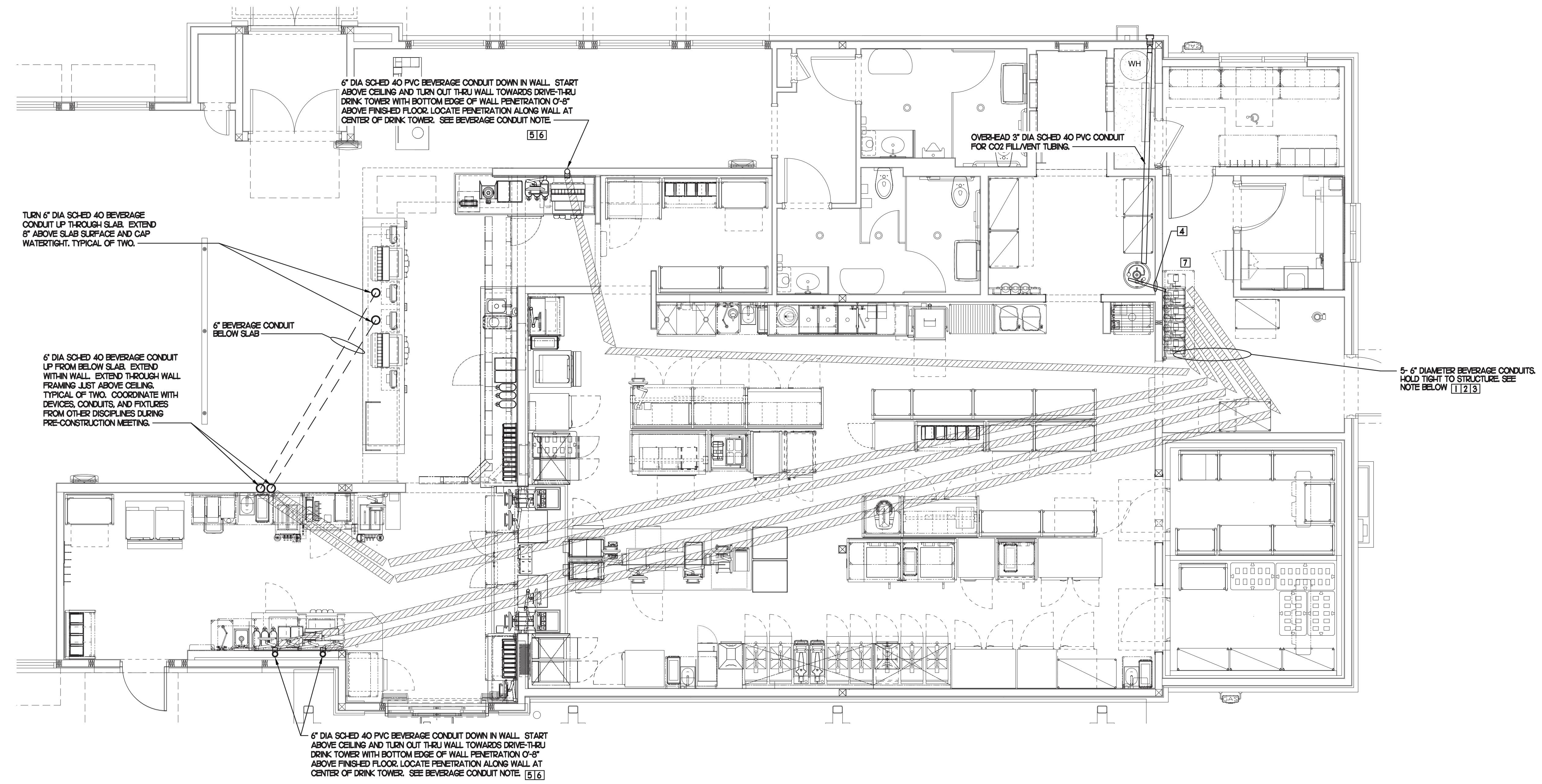
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SHEET PLUMBING DETAILS & BEVERAGE CONDUIT

SHEET NUMBER
P2.2

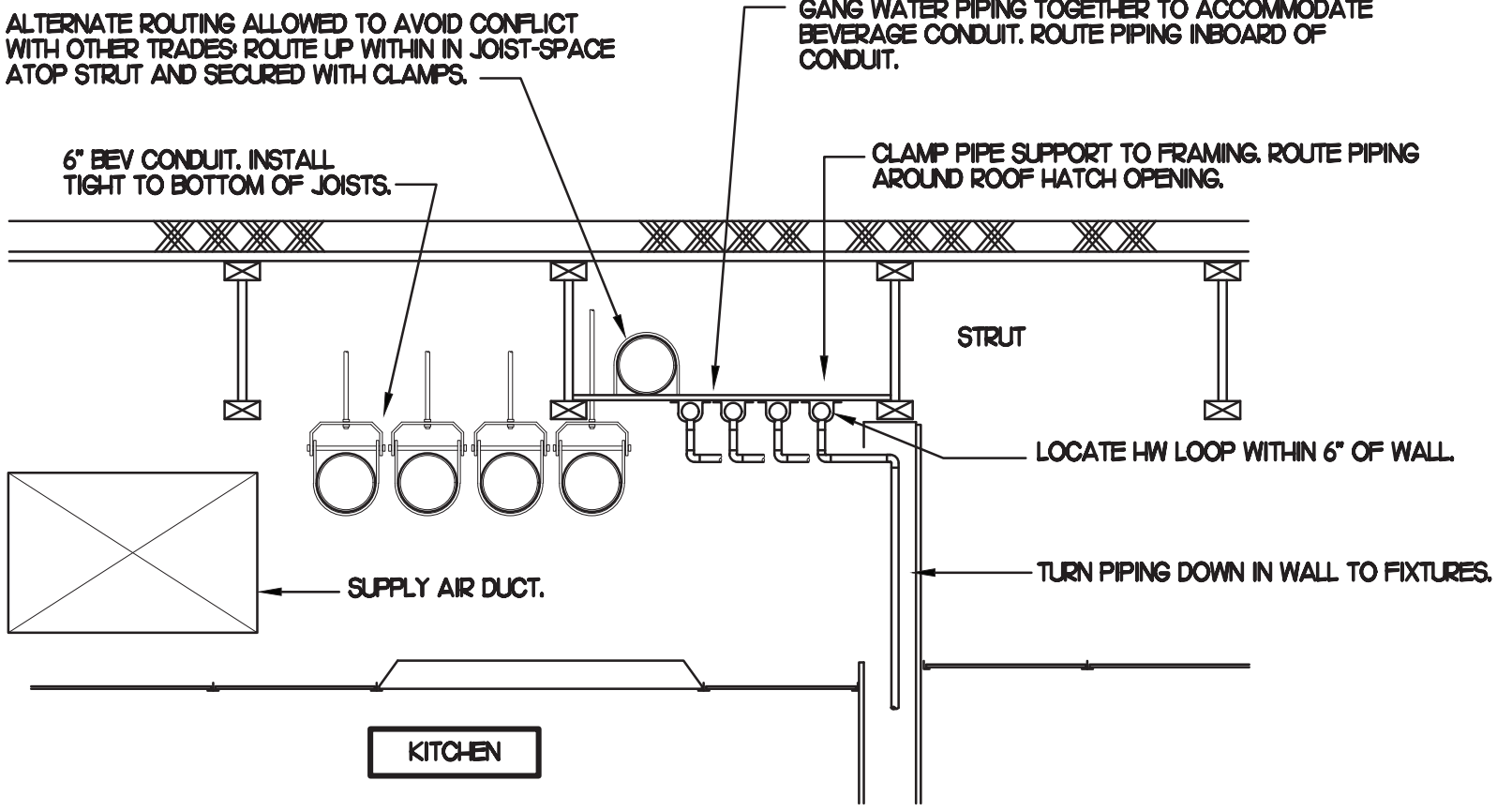
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BEVERAGE CONDUIT NOTES

- ROUTE BEVERAGE SYSTEM PIPING OVER-HEAD FROM THE BEVERAGE RACK TO DRINK TOWERS IN 6" DIA. SCH. 40 PVC CONDUITS. ALL CONDUIT SHALL BE HELD TIGHT TO STRUCTURE AND SUPPORTED WITH THREADED ROD AND CLEVIS WANGERS AT INTERVALS SHOWN IN SPECIFICATIONS FOR HORIZONTAL OVER-HEAD PIPING. COORDINATE ROUTING WITH THE GENERAL CONTRACTOR TO AVOID MECHANICAL AND ELECTRICAL SYSTEMS.
- COORDINATE ROUTING OF ALL CONDUITS WITH HVAC DUCT IN KITCHEN. SEE SHEET MH-U FOR LOCATION OF AC UNITS AND DUCT ROUTING.
- TURN THE 6" DIA. CONDUIT DOWN THROUGH THE CEILING AT THE BEVERAGE RACK AND PROVIDE CHROMED ESCUTCHEONS AT CEILING PENETRATIONS. TERMINATE OPPOSITE END ABOVE CEILING WHERE SHOWN ON PLANS.
- ROUTE 2" CO2 PIPE FROM NEW CO2 TANK TO NEW BB RACK.
- AT CONDUIT DROPS IN DRIVE-THRU AND SERVING AREA, PROVIDE 1/8" BEND FITTINGS WITH SHORT PIPE STUB AT BASE OF DROP. CUT STUB AND FITTING FLUSH WITH FINISHED WALL.
- FOR BEVERAGE CONDUIT DROPS AT WALLS WITH SHEATHING, PROVIDE APPROPRIATE FITTING TO EXTEND TOP OF PIPE DROP BEYOND FACE OF SHEATHING.
- NEW BB RACK WITH CARBONATORS AND PUMPS.

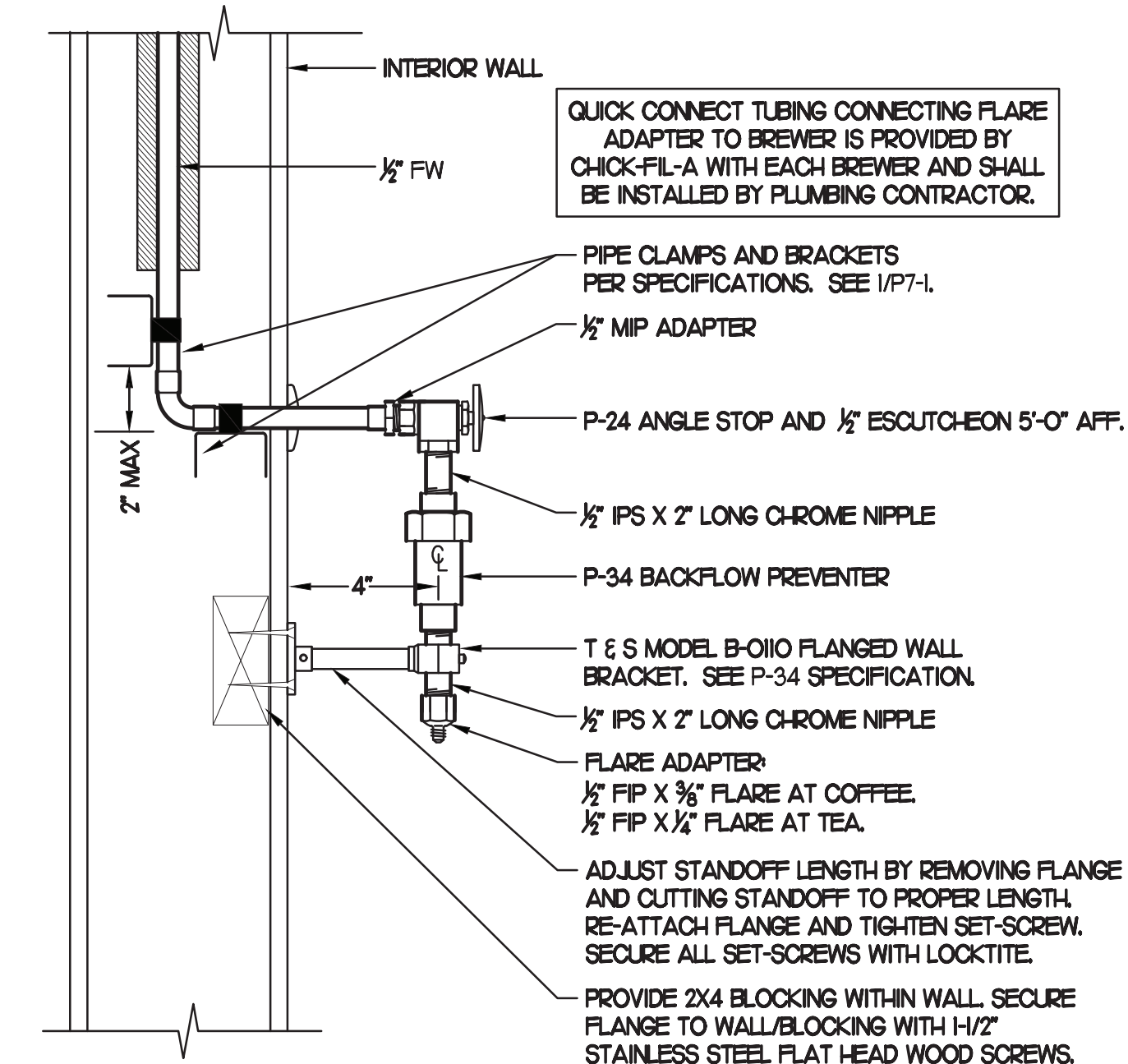
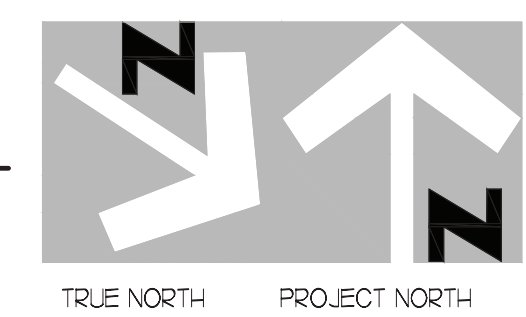
NOTE:
ALL BEVERAGE CONDUIT LAYOUTS ARE SCHEMATIC. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONSTRUCTION AND STRUCTURE OF THE BUILDING AND SHALL BE VERIFIED AND COORDINATED IN THE FIELD TO REVIEW ALL NEW & EXISTING EQUIPMENTS. EACH TRADE CONTRACTOR SHALL VERIFY WITH THE GENERAL CONTRACTOR THAT HAS THOROUGHLY REVIEWED AND COORDINATED ALL LOCATIONS AND ROUTINGS WITH ALL OTHER TRADES PRIOR TO INSTALLATION & FABRICATION OF CONDUITS, DUCTS, OR PIPING. RUN BEVERAGE CONDUITS AS STRAIGHT AS POSSIBLE AVOIDING EXISTING STRUCTURES, PIPING, DUCTS, & ALL EQUIPMENTS. 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.



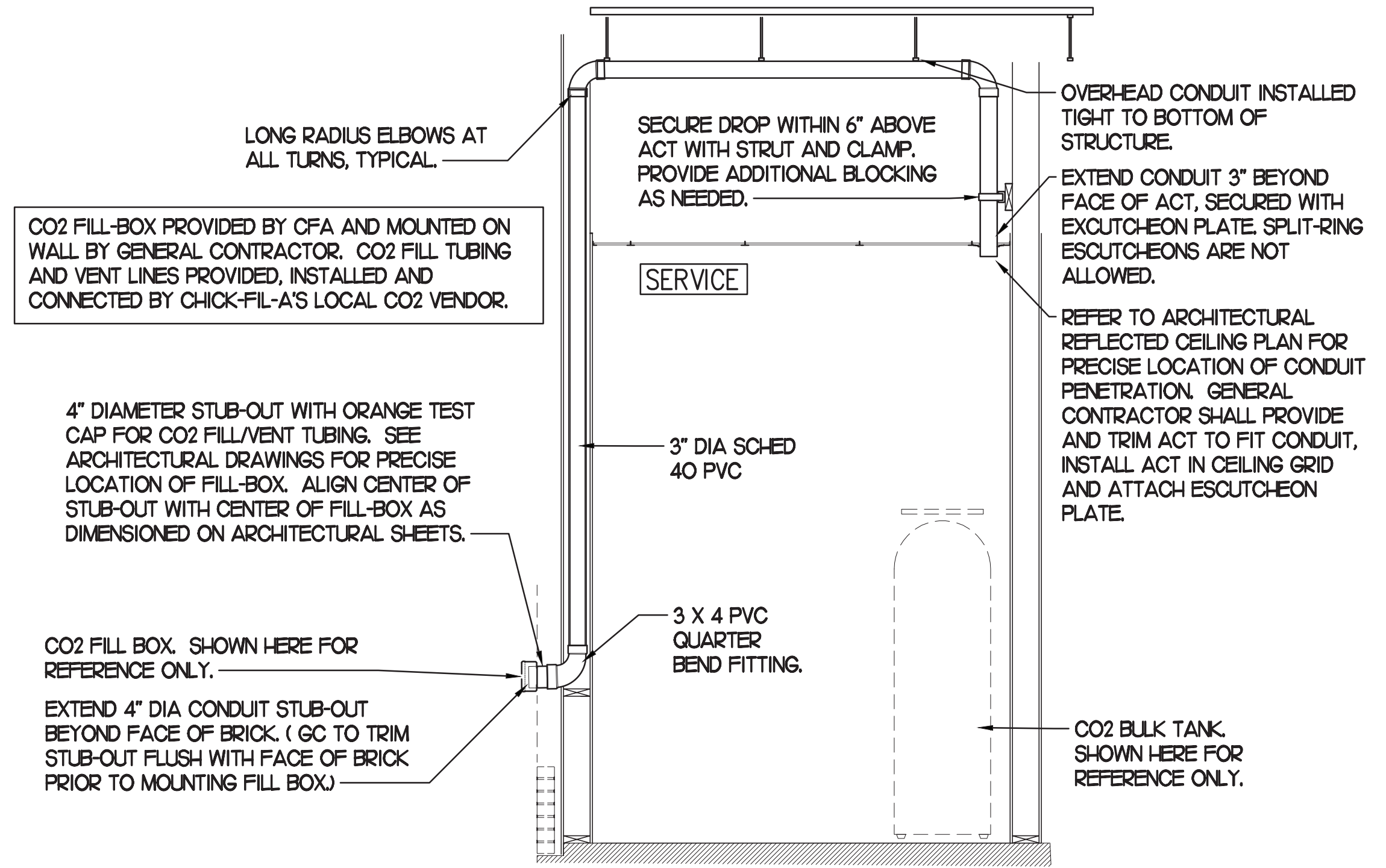
2 SECTION AT WET WALL
SCALE: NONE

1 BEVERAGE CONDUIT PLAN

1/4"=1'-0"



3 COFFEE & TEA BREWER STOP & BFP
SCALE: NONE



4 CO2 FILL/VENT CONDUIT AND FILL-BOX INSTALLATION
SCALE: NONE



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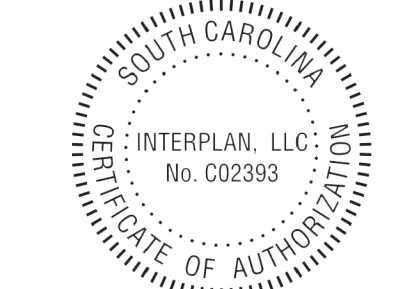
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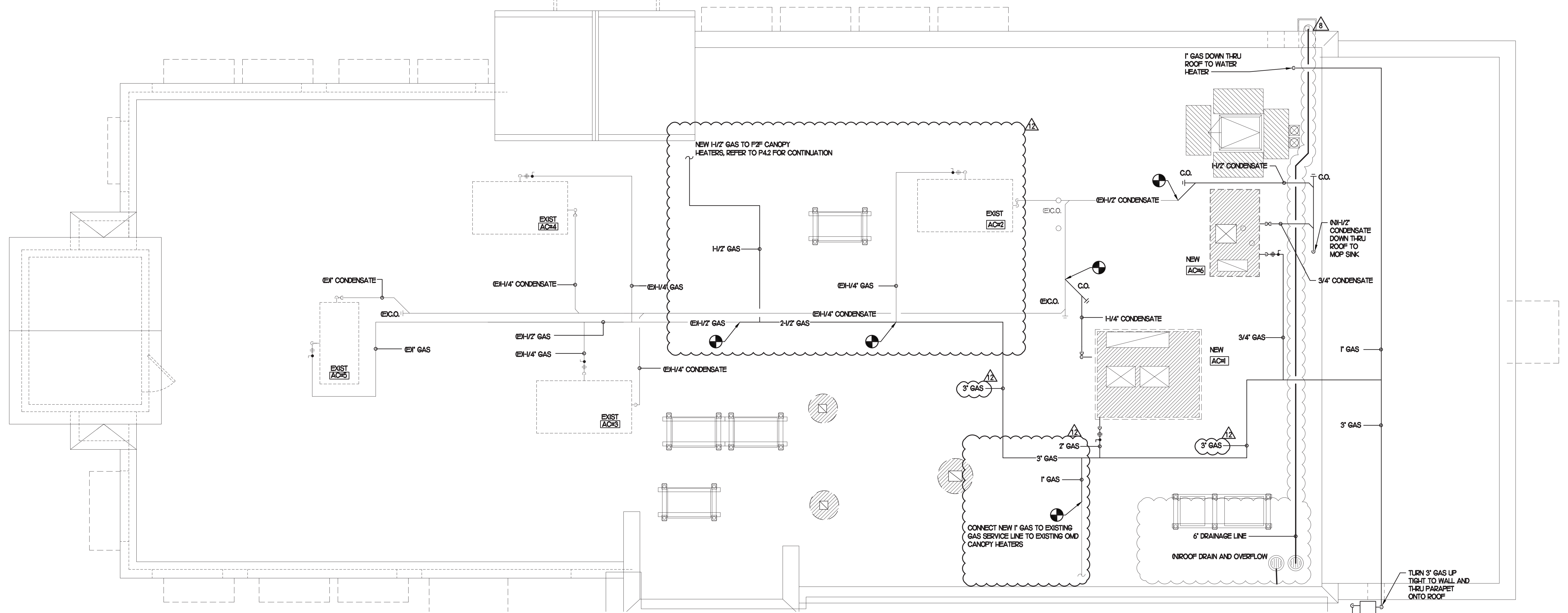
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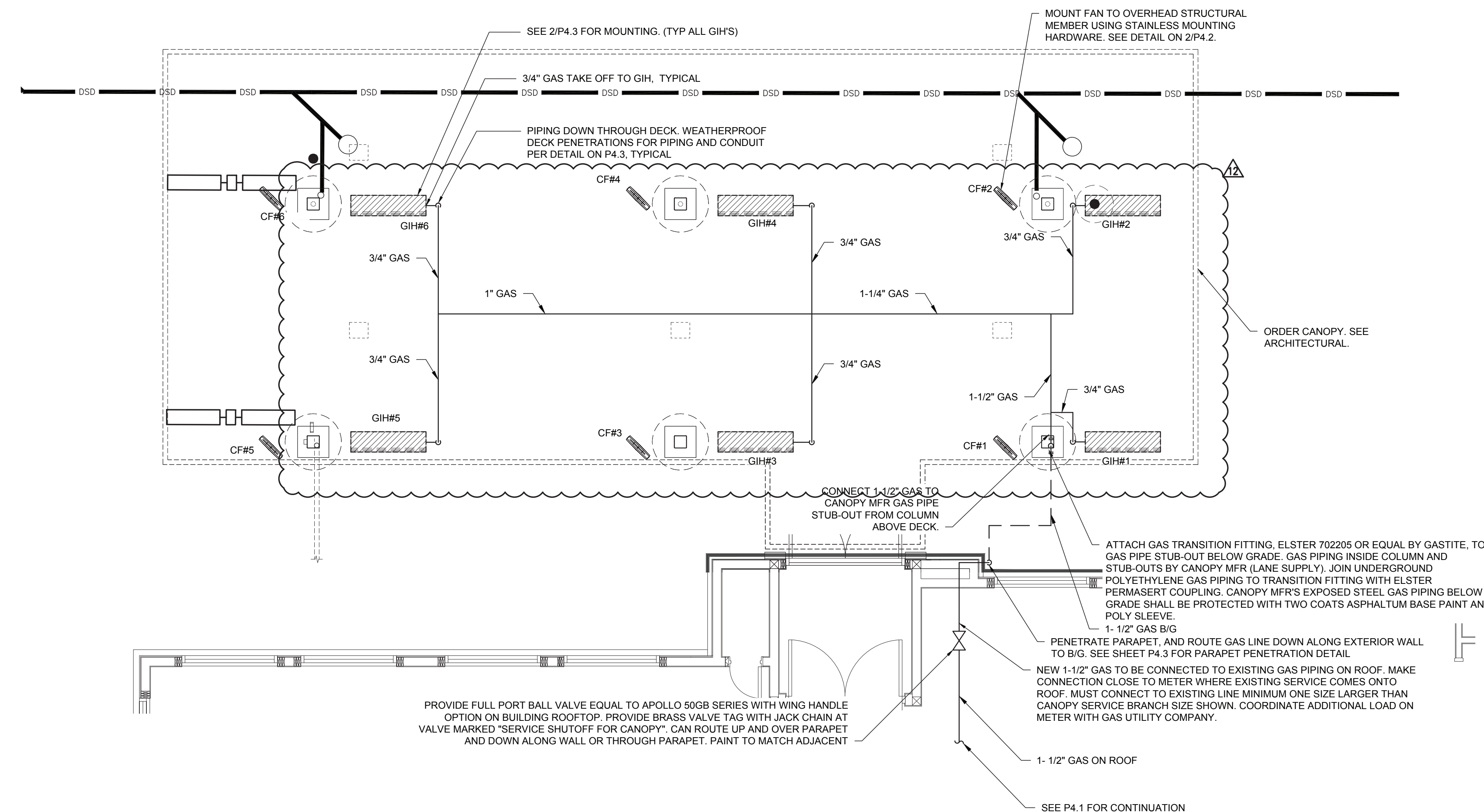
REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
8	01/09/24	REF
12	02/06/24	GAS UPDATE

CONSULTANT PROJECT # 2022.0771
DATE 03/13/23
DRAWN BY SE
CHECKED BY DAK
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SHEET ROOF PIPING PLAN

SHEET NUMBER
P4.1





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

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. USE ANTI-CORROSIIVE PAINT AND COORDINATE WITH CFA CONSTRUCTION MANAGER.

LEGEND	
CF#1	CIRCULATING FAN #1 (TYP)
GIH#1	GAS INFRARED HEATER #1 (TYP)
---	NEW GAS PIPING ABOVE GRADE
---	NEW GAS PIPING BELOW GRADE
BIG	BELOW GRADE
EC	ELECTRICAL CONTRACTOR
MC	MECHANICAL CONTRACTOR

FIELD VERIFY ALL CONDITIONS

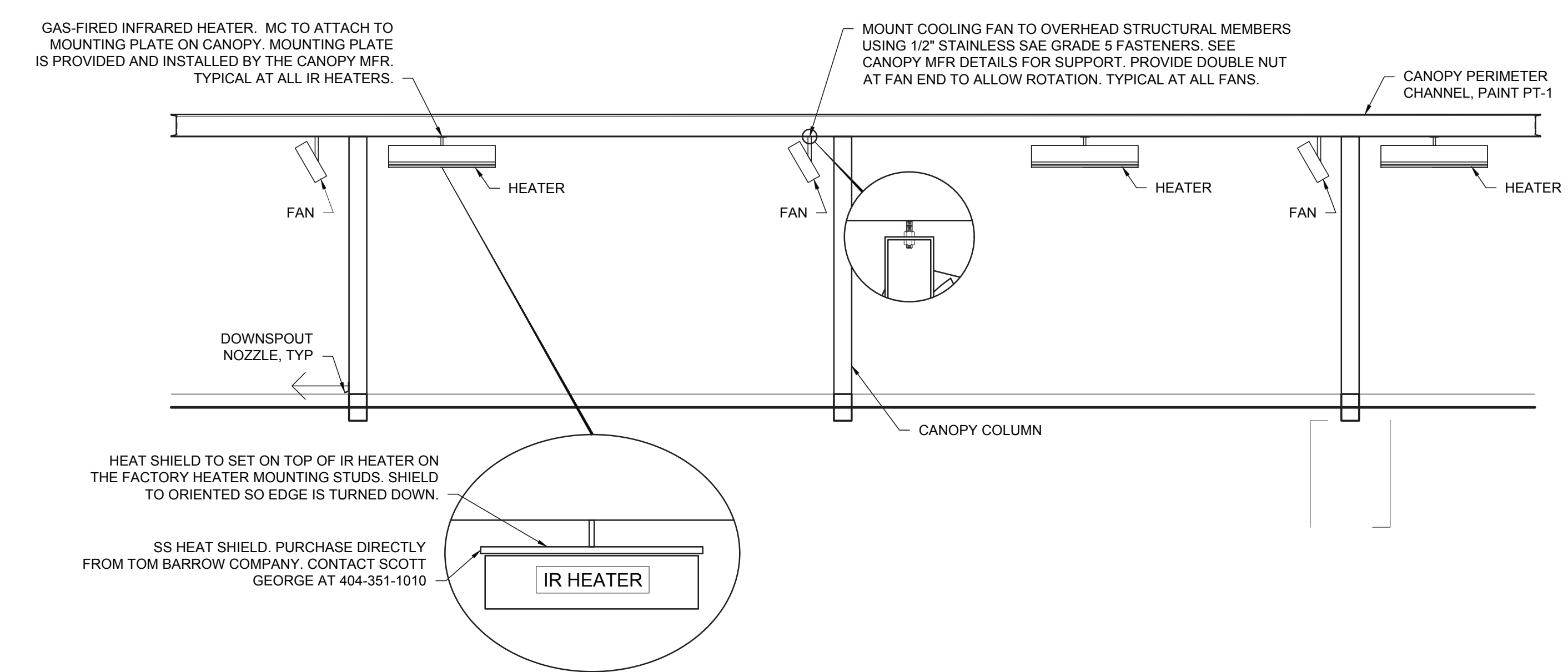
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NATIONAL ACCOUNTS

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



2 HEATER FAN SECTION
NO SCALE



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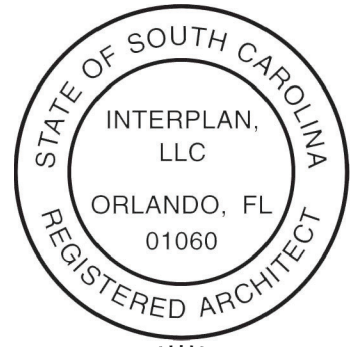
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REVISION SCHEDULE		
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12	02/08/24	GAS UPDATE

CONSULTANT PROJECT # 2022.0771
DATE 03/13/23
DRAWN BY SE
CHECKED BY DAK

SHEET F2F CANOPY GAS PIPING PLAN

SHEET NUMBER
P4.2

GAS CONNECTION SCHEDULE	
EQUIPMENT	GAS LOAD
NEW AC#1	480,000 BTU'S
EXISTING AC#2	240,000 BTU'S
EXISTING AC#3	240,000 BTU'S
EXISTING AC#4	240,000 BTU'S
EXISTING AC#5	125,000 BTU'S
NEW AC#6	65,000 BTU'S
WATER HEATER	75,000 BTU'S
EXISTING GAS HEATERS (2)	(2) 50,000 BTU'S
NEW GAS HEATERS (6)	(6) 50,000 BTU'S
TOTAL CONNECTED LOAD	1,865,000 BTU'S
REMARKS:	<ol style="list-style-type: none"> EQUIVALENT TO 1,865.0 CFH @ pressure drop 0.5 IN W.C. W/ DEVELOP LENGTH OF 216 FT (METER TO GH#6) 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	WB-N7-CM	SPACE-RAY
REMARKS							<ol style="list-style-type: none"> 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. HEAT SHIELD PROVIDED WITH THE SPACE-RAY HEATER PACKAGE. MOUNT HEAT SHIELD ABOVE EACH HEATER AT THE BOTTOM OF THE BRACKET, ALIGNED WITH THE CENTER OF FLAT MOUNTED HEATERS, AND ALIGNED OFF-CENTER FOR ANGLE MOUNTED HEATERS.

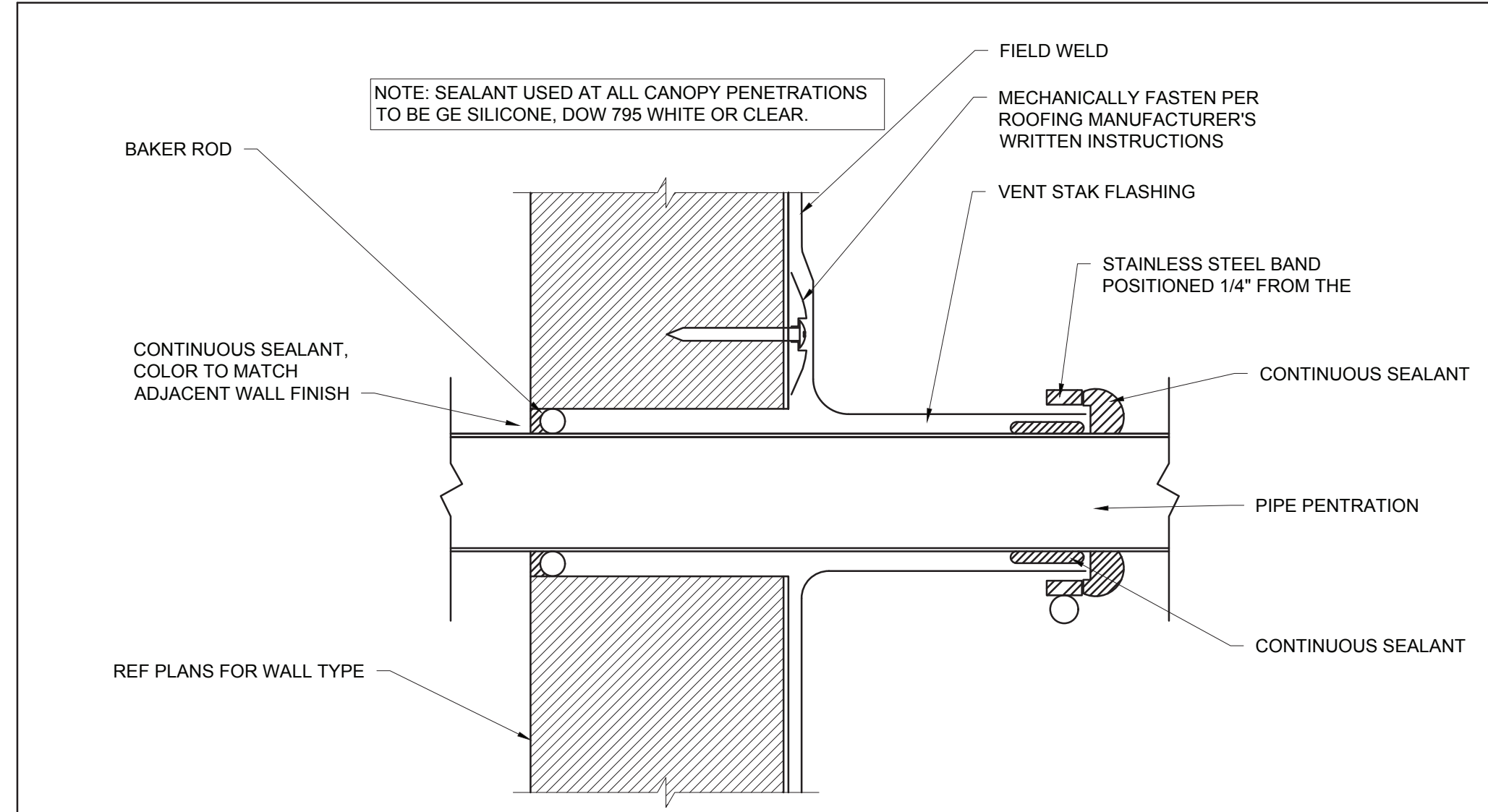
CIRCULATING FAN SCHEDULE					
MARK	CFM	RPM	HP	MODEL	MANUFACTURER
CF	5,750	1,625	1/8	U18TE-HD	TPI
REMARKS					
<ol style="list-style-type: none"> ALUMINUM PADDLE WITH STEEL HUB/SPIDER PROPELLER 360° ROTATING HEAD HORIZONTALLY AND VERTICALLY OSHA COMPLIANT DOUBLE LOCKING, COATED STEEL WIRE GUARD 3-SPEED, TOTALLY ENCLOSED, PERMANENTLY LUBRICATED BALL BEARING MOTOR FACTORY PRE-WIPE 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.

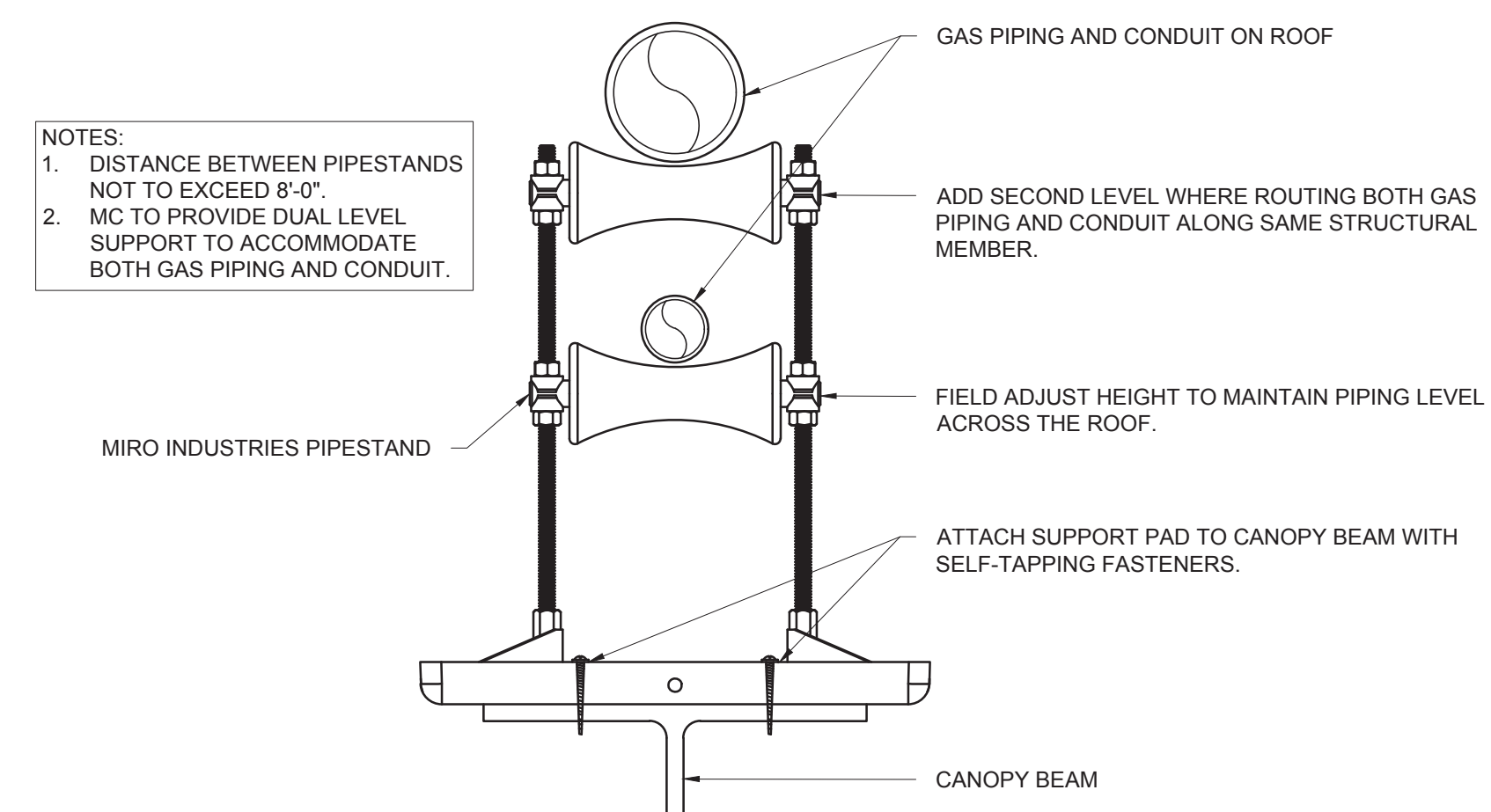
NATIONAL ACCOUNTS	
1	SPACE-RAY INFRARED HEATER PACKAGE - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE HEATER PACKAGE DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. HEATERS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.
2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

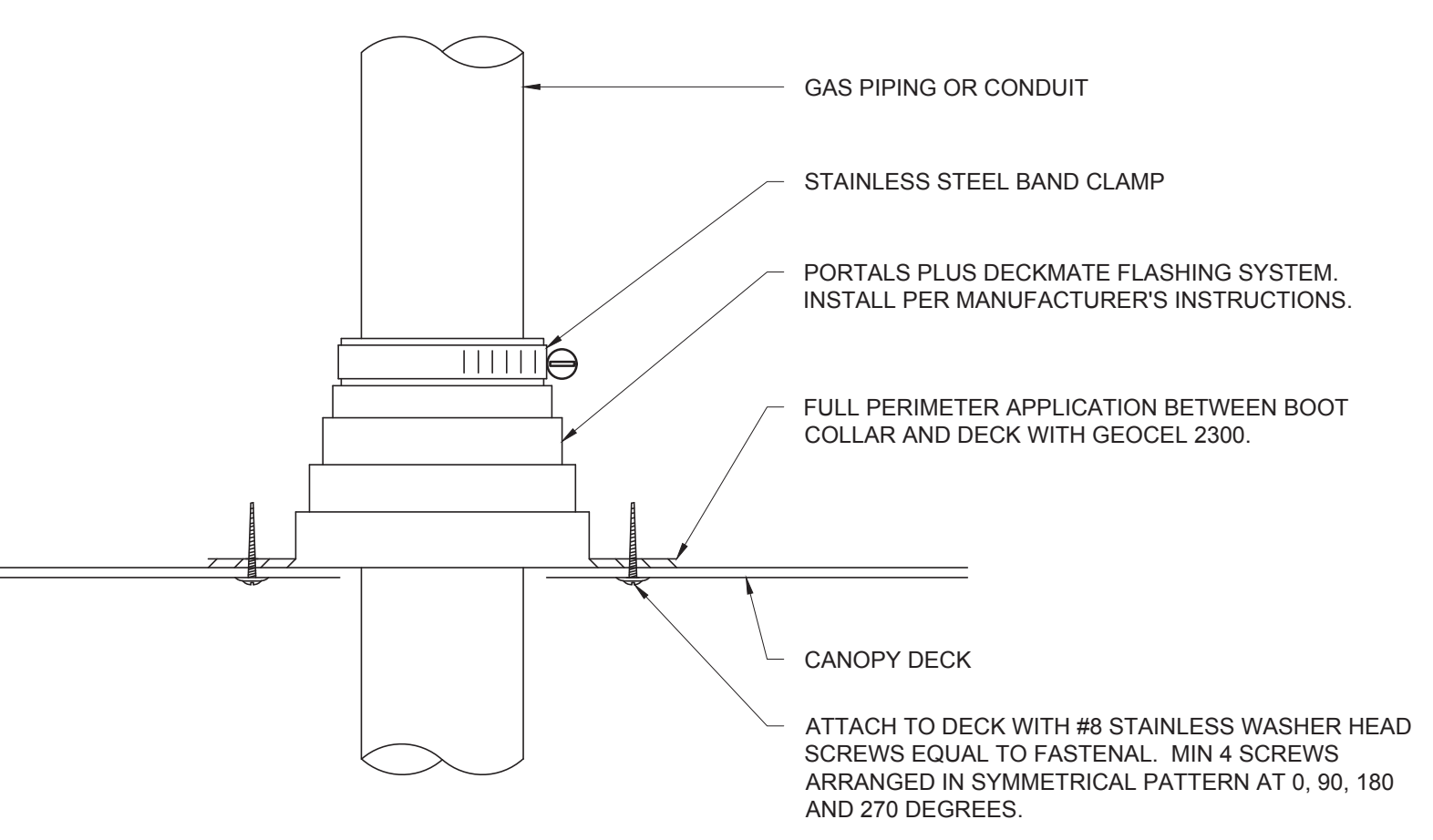
GENERAL NOTES
 1. COORDINATE NEW WORK WITH EXISTING CONDUIT, STRUCTURE AND PIPING. FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.
 2. COORDINATE LOCATION AND RESPONSIBILITIES FOR UNDERGROUND PIPING AND ASSOCIATED TRENCHING WITH GENERAL CONTRACTOR PRIOR TO START OF WORK.
 3. EXPOSED GAS PIPING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



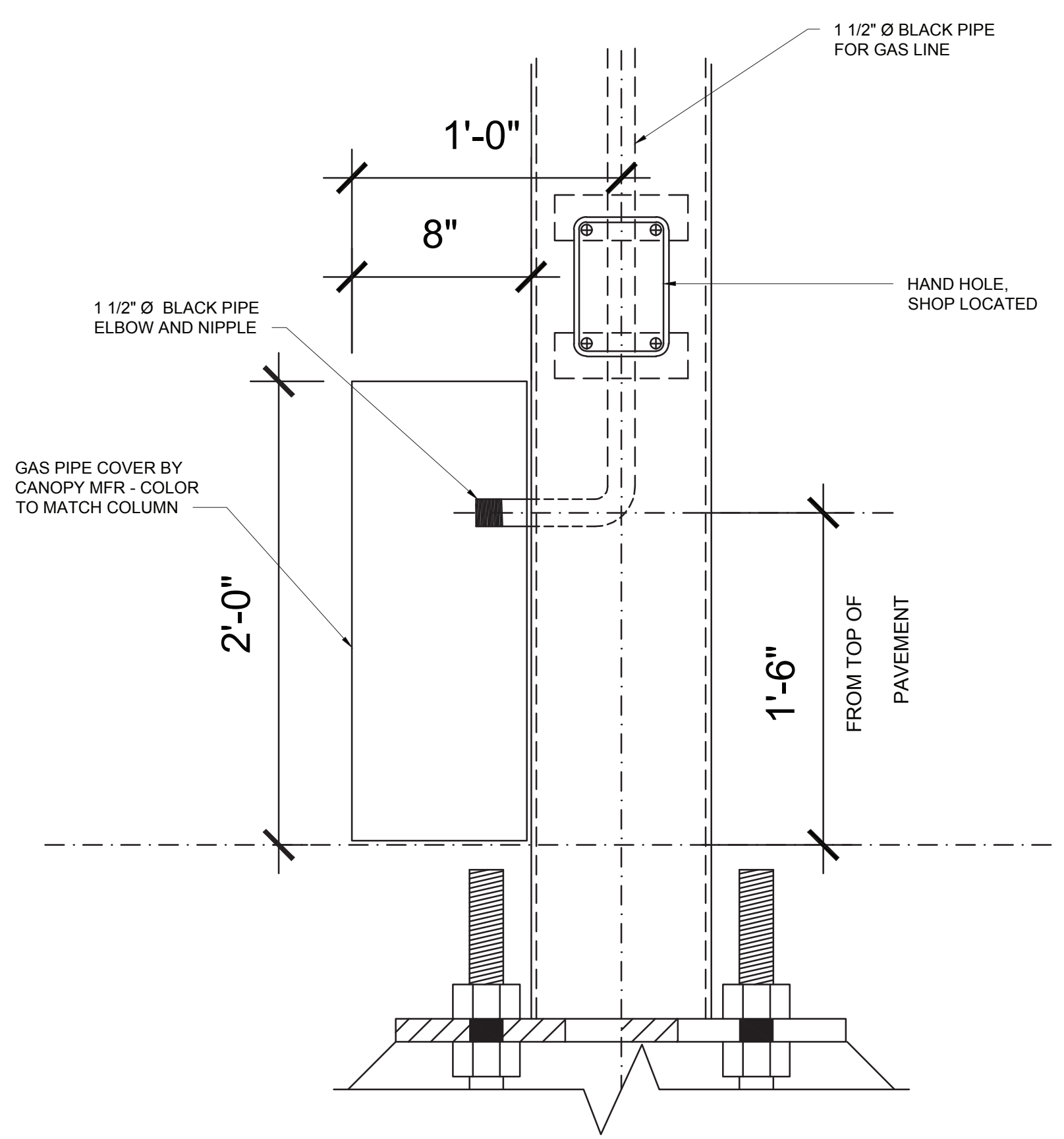
PARAPET PENETRATION DETAIL
NO SCALE



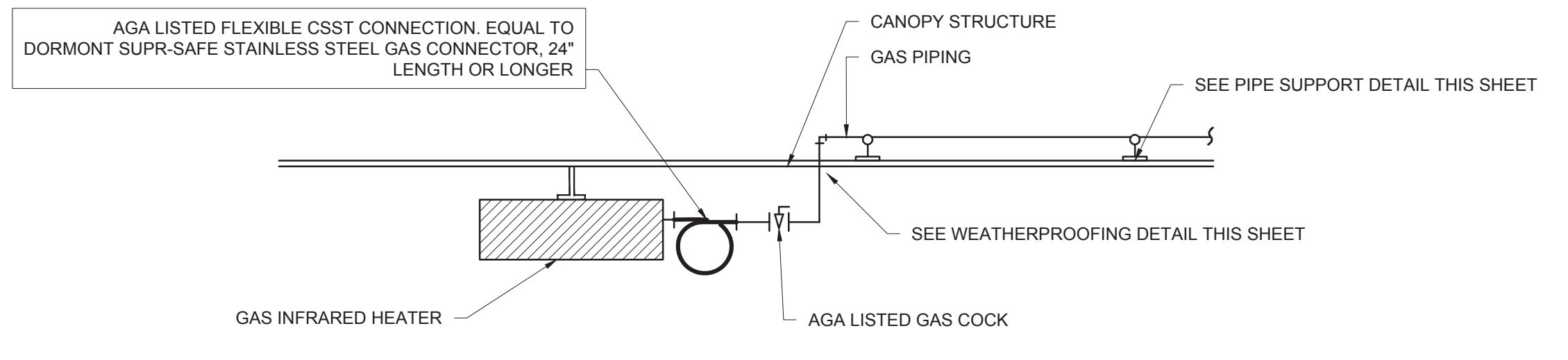
PIPING SUPPORT ON CANOPY
NO SCALE



WEATHER PROOFING AT CANOPY PENETRATION
NO SCALE



COLUMN GAS PIPE COVER
NO SCALE



GAS CONNECTION AT APPLIANCE
NO SCALE



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



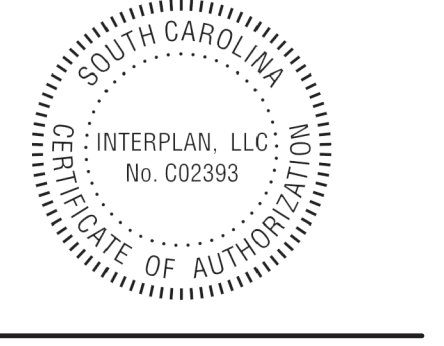
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PERMITTING

220 E. CENTRAL PKWY, STE 4000
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SEAL:



CORPORATE SEAL:



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 NORTH CHARLESTON, SC 29418

FSR#01936
 BUILDING TYPE / SIZE: S06-C-R
 RELEASE: 2023-004
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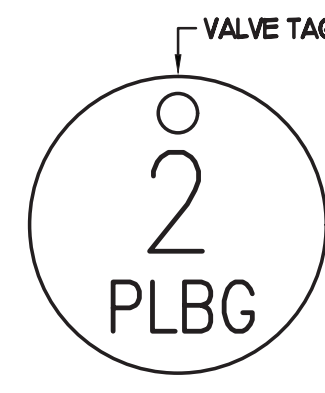
REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
1	03/13/23	ISSUE FOR PERMITS
2	03/13/23	GAS UPDATE

CONSULTANT PROJECT # 2022.0771
 DATE 03/13/23
 DRAWN BY SE
 CHECKED BY DAK
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 SHEET GAS PLUMBING DETAILS

SHEET NUMBER
P4.3

VALVE TAG LEGEND	
VALVE	VALVE POSITION
① MAIN WATER SHUT-OFF	NORMALLY OPEN
② MAIN DRAIN	NORMALLY CLOSED
③ ACCESSORY SHUT-OFF	NORMALLY OPEN
④ WATER FILTER INLET	NORMALLY OPEN
⑤ RECIRC PUMP ISOLATION VALVE	NORMALLY OPEN
⑥ WATER HEATER INLET	NORMALLY OPEN
⑦ RESTROOM & KITCHEN COLD WATER	NORMALLY OPEN
⑧ POST HYDRANT COLD WATER	NORMALLY OPEN
⑨ GAS TO WATER HEATER	NORMALLY OPEN
⑩ WATER HEATER OUTLET	NORMALLY OPEN

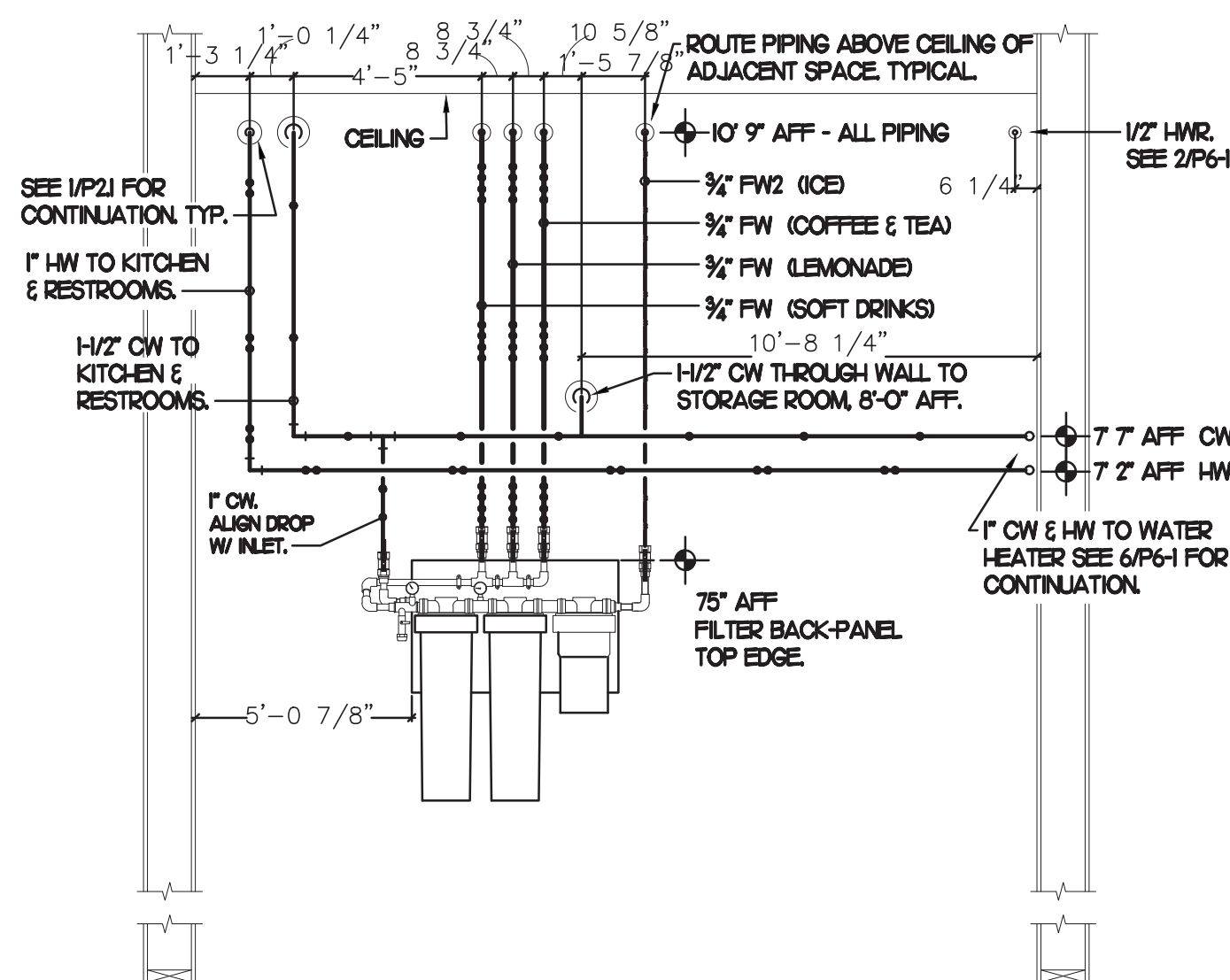
LAMINATE VALVE TAG LEGEND AND MOUNT PERMANENTLY WHERE SHOWN ON WATER HEATER DETAIL IN AN ALUMINUM FRAME EQUAL TO SETON #58524. SEE DETAIL 6P6-1.



② VALVE TAG SYMBOL AS SHOWN ON DETAIL THIS SHEET. PROVIDE 1/2" ROUND BRASS VALVE TAG WITH 1/2" HIGH BLACK FILLED LETTERING. EACH TAG SHALL INDICATE VALVE NUMBER AND WILL ALSO HAVE "PLBG" STAMPED ON THE TAG IN 1/4" HIGH BLACK FILLED LETTERING EQUAL TO SETON #M4506. HANG WITH BRASS JACK CHAIN ON VALVE HANDLE.

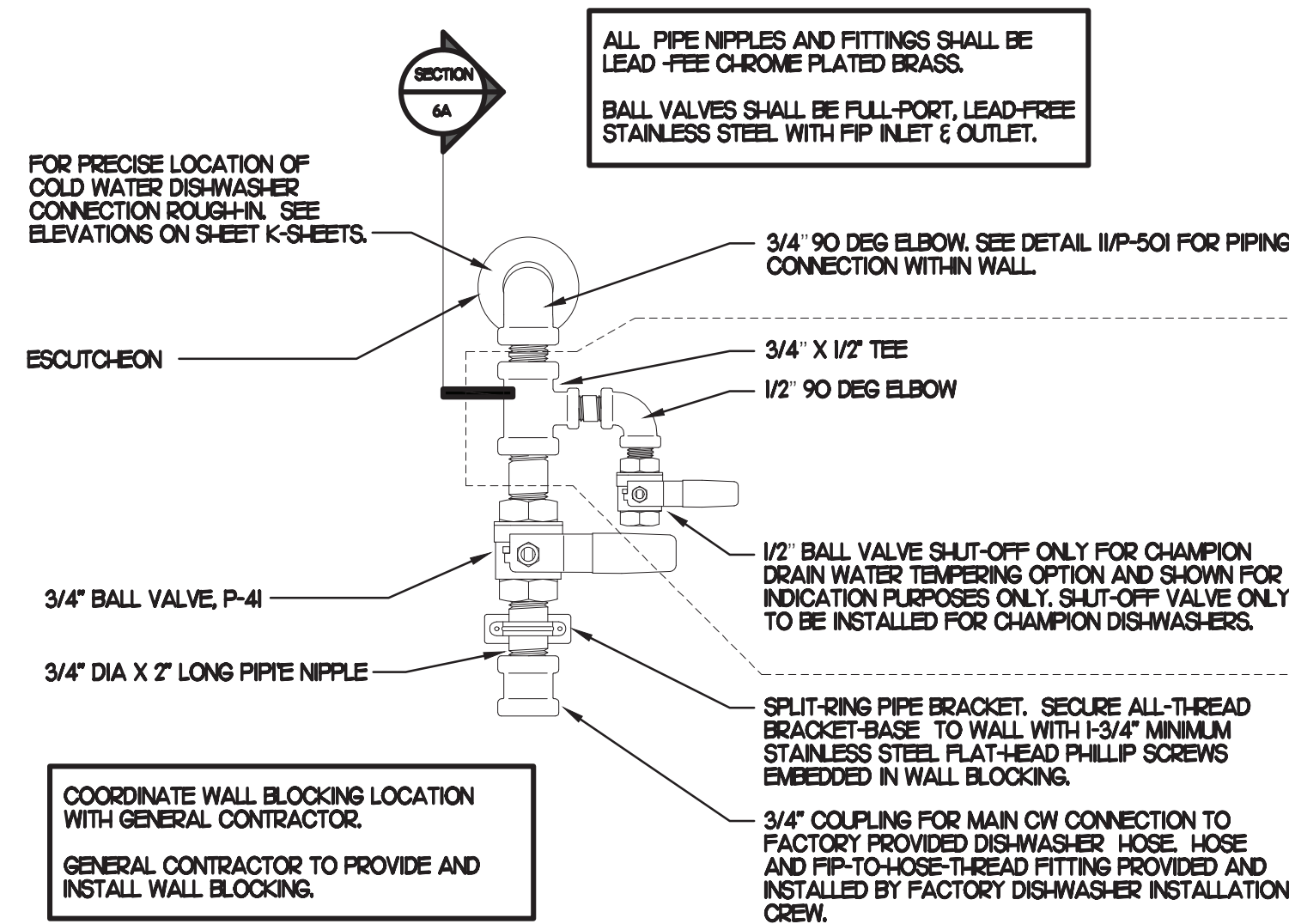
1 VALVE TAGS AND LEGEND

NO SCALE



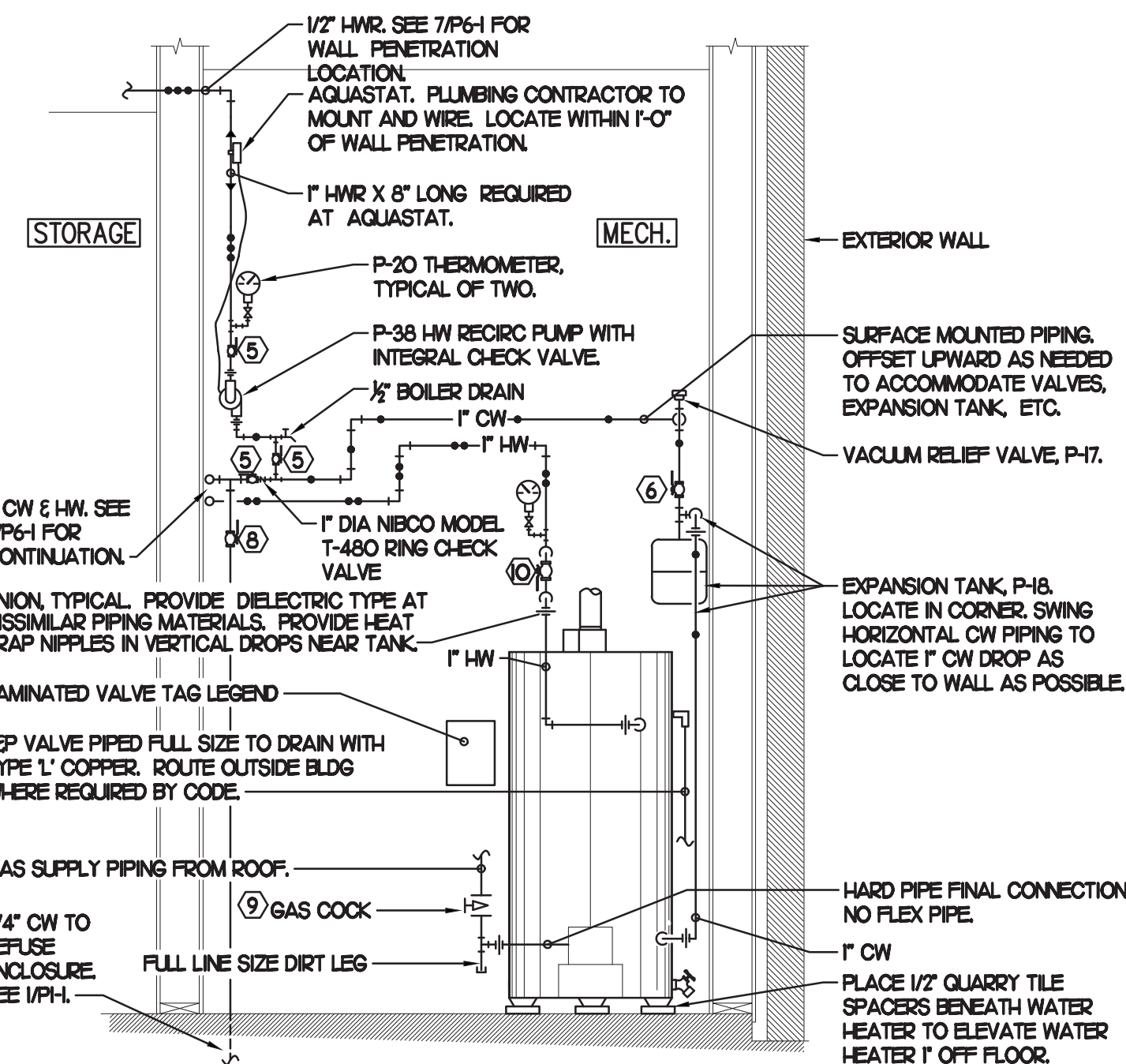
4 WATER PIPING LOCATIONS - MECH ROOM

NO SCALE



5 DISHWASHER SUPPLY VALVE ASSEMBLY

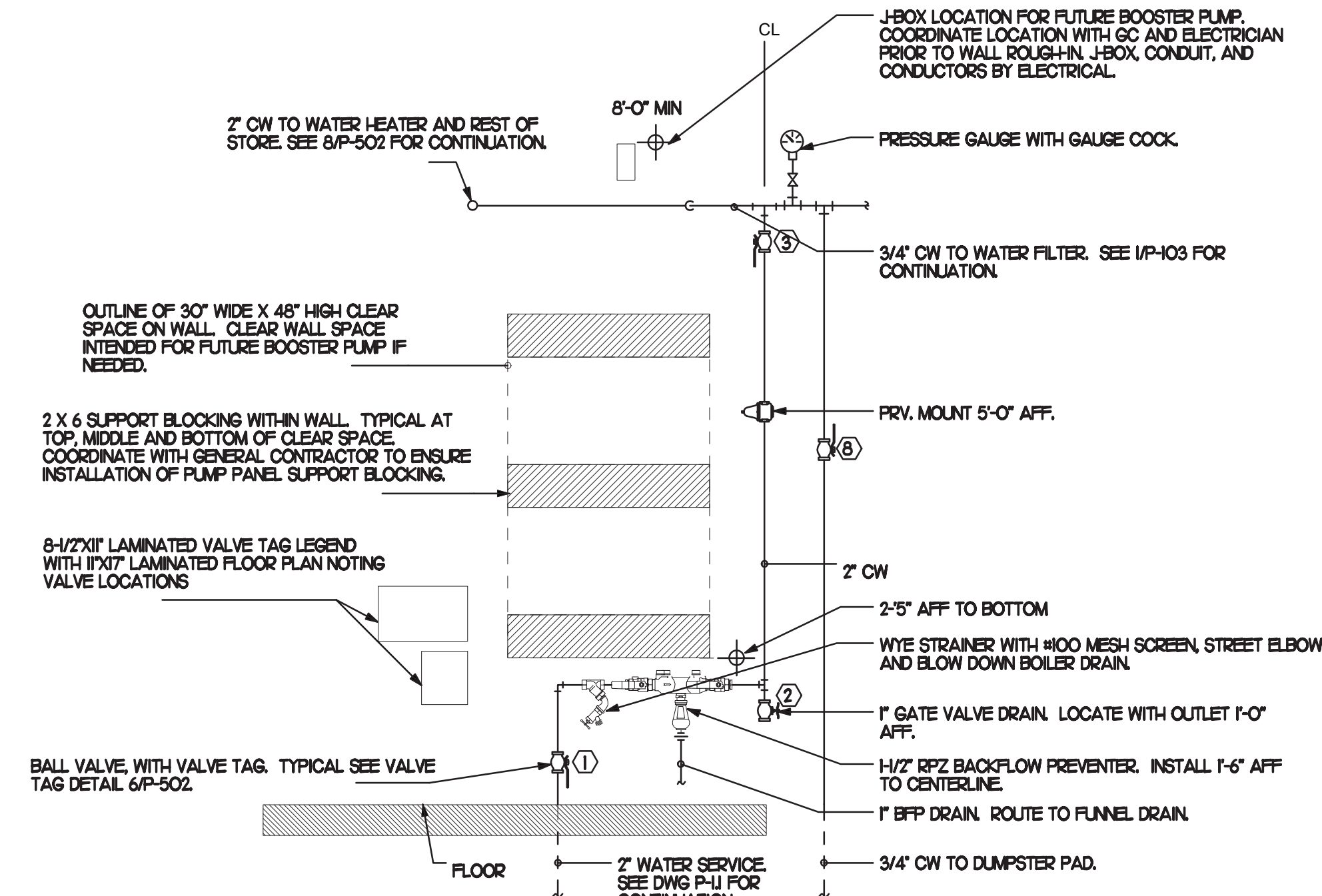
NO SCALE



2 PIPING AT WATER HEATER

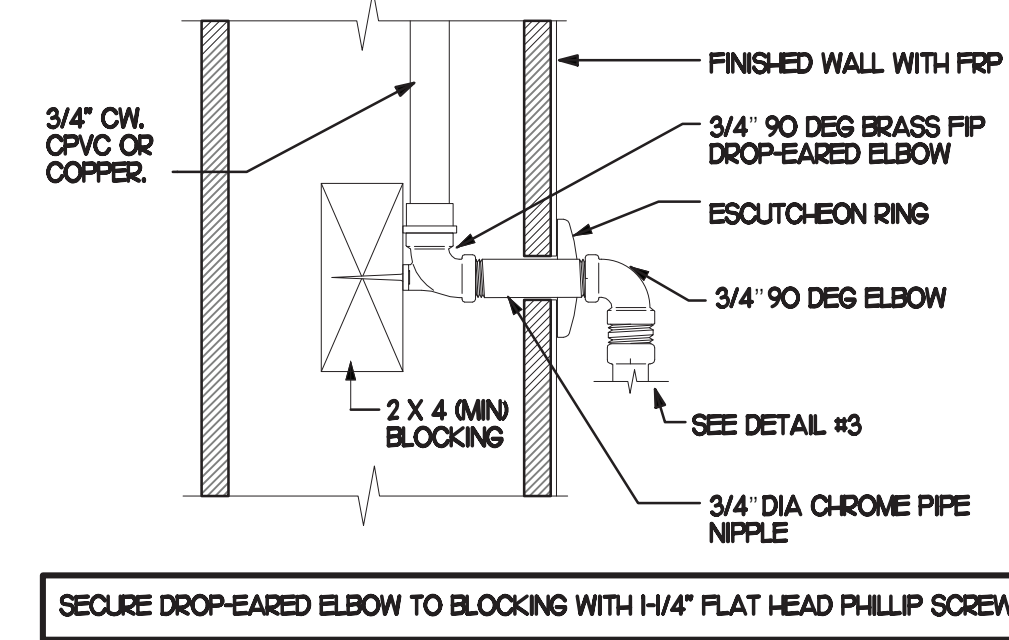
NO SCALE

NOTE OF SPECIAL IMPORTANCE
 1. LOCATIONS OF 2" CW RISER AND CLEAR SPACE ARE DIMENSIONED BECAUSE THEY ARE CRITICAL FOR THE FUTURE PUMP PANEL INSTALLATION.
 2. GENERAL CONTRACTOR SHALL ENSURE OTHER TRADES SHALL NOT INSTALL ANY OTHER BUILDING COMPONENT WITHIN CLEAR SPACE OR WITHIN 10" OF EDGES.



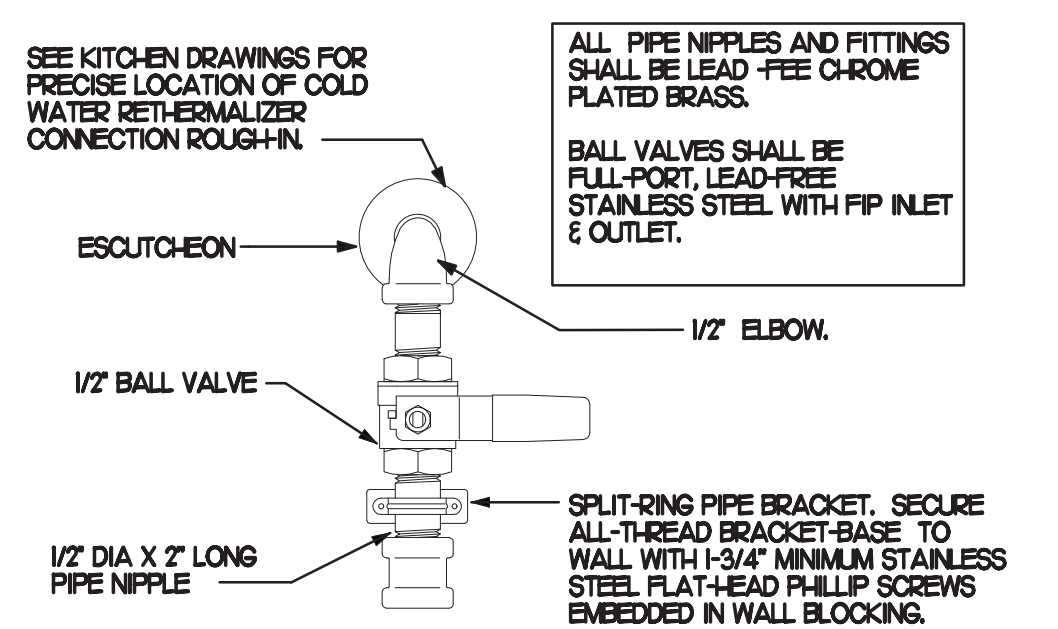
3 PIPING AT WATER SERVICE ENTRANCE IN MECHANICAL ROOM

NO SCALE



5A SECTION AT PIPING WITHIN WALL

NO SCALE



6 RETHERMALIZER SUPPLY VALVE

NO SCALE



Chick-fil-A

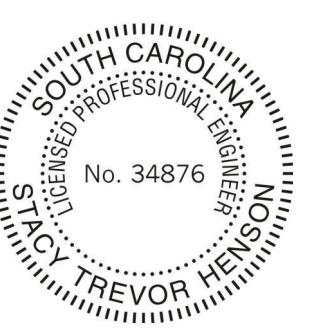
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 NORTH CHARLESTON, SC 29418

FSR#01936

BUILDING TYPE / SIZE: S06-C-R
 RELEASE: 2023-004

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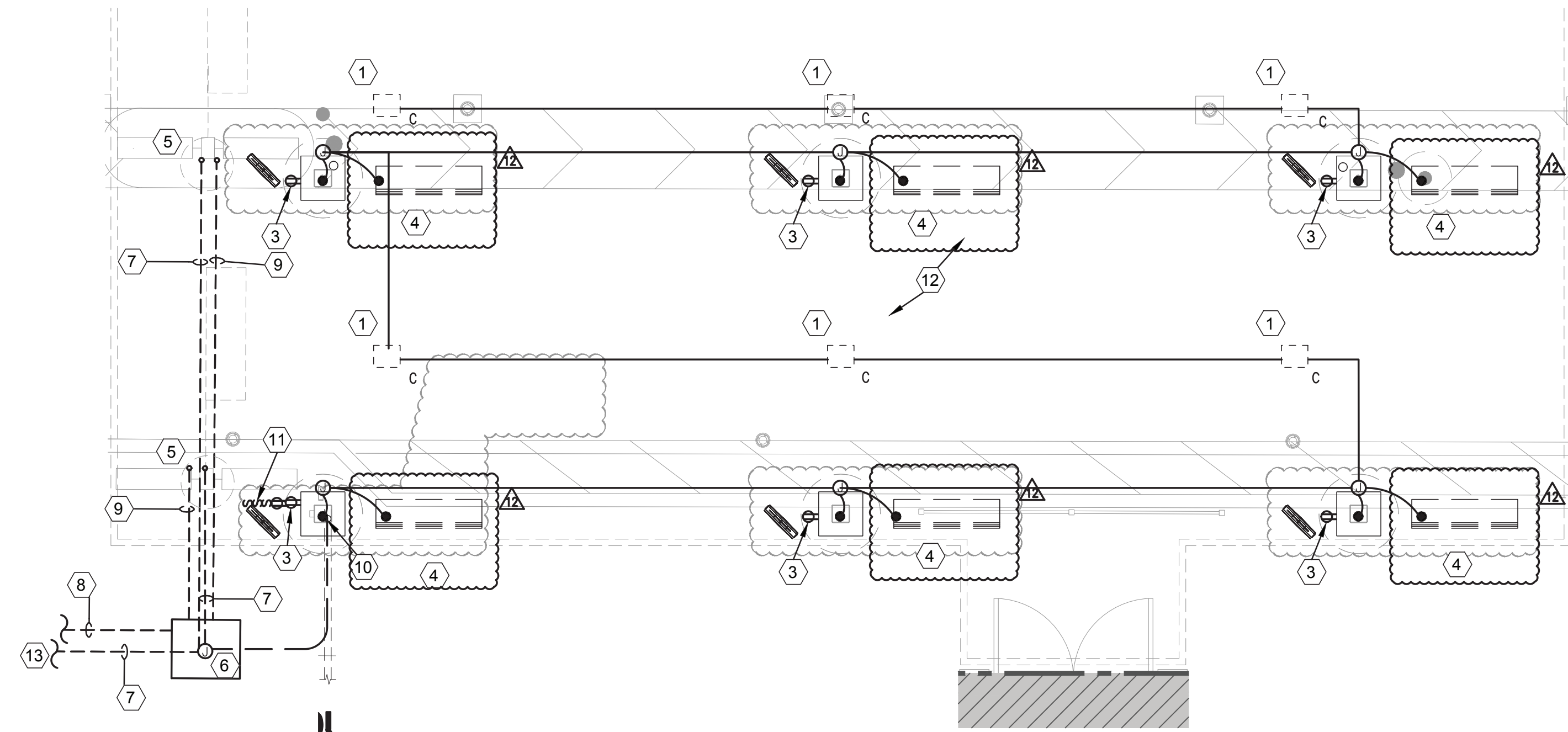
REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
1	11/03/23	ARCH/CHA COORDINATOR

CONSULTANT PROJECT # 2022.0771
 DATE 03/13/23
 DRAWN BY SE

CHECKED BY DAK
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SHEET PLUMBING DETAILS

SHEET NUMBER
P6.1

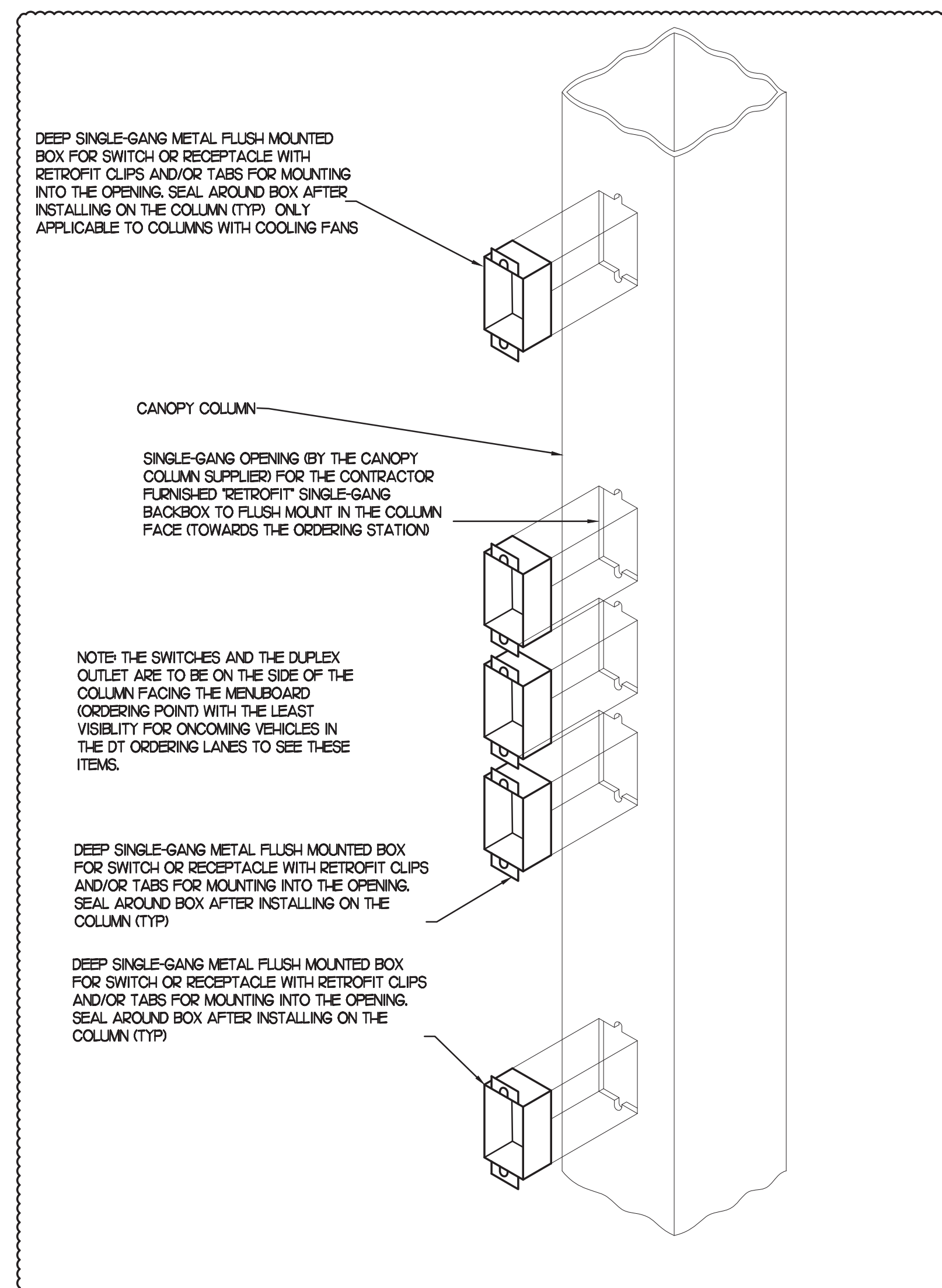


2 ORDER CANOPY POWER PLAN
SCALE: 1/4" = 1'-0"

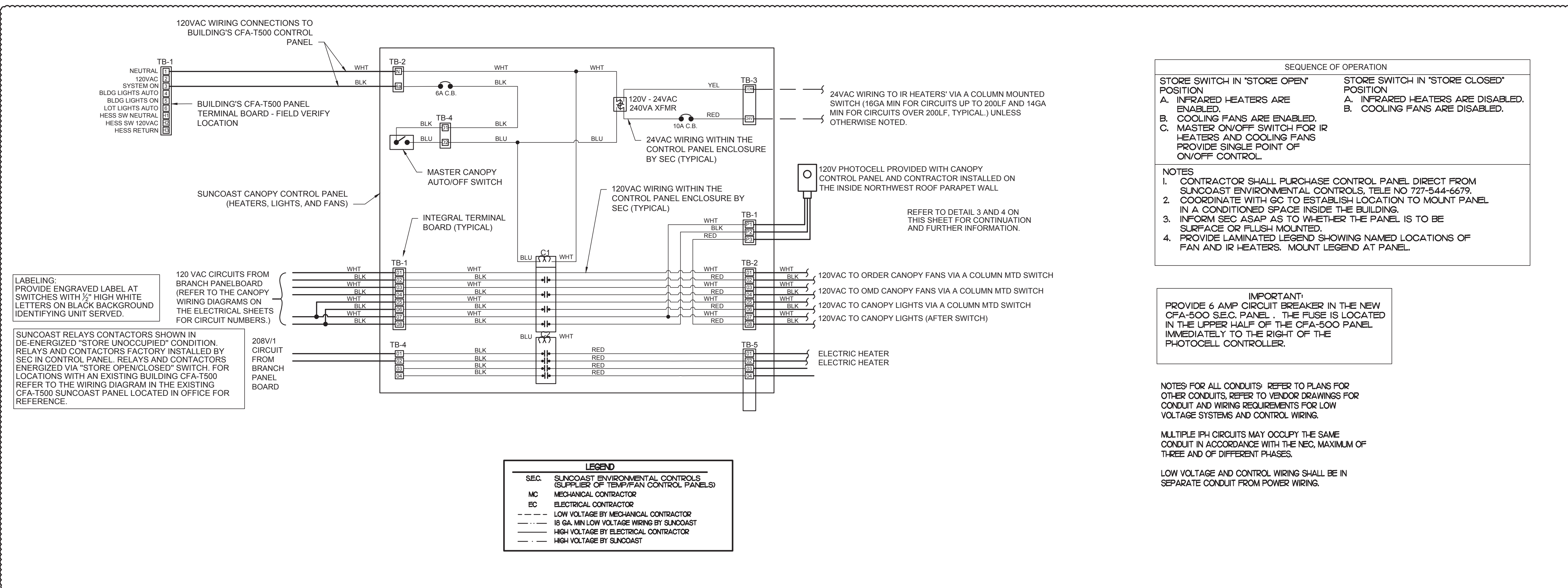
LEGEND	
---	UNDERGROUND
---	ABOVE GROUND

KEYED NOTES

- CEILING LIGHT PROVIDED BY CANOPY SUPPLIER AND INSTALLED BY EC.
- NOT USED.
- AIR CIRCULATING FAN (WITH INTEGRAL ON-OFF SWITCH) PROVIDED BY OTHERS. PROVIDE A GFCI DUPLEX OUTLET (WITH IN-LINE WP COVER PLATE) FLUSH MTD. IN CUT-OUT FOR FAN'S PLUG & CORD. LOCATE CUT-OUT AT TOP OF COLUMN ON DOWNSTREAM SIDE.
- INFRARED GAS HEATER WITH INTEGRAL ON-OFF SWITCH PROVIDED BY OTHERS.
- MENUBOARD PROVIDED BY OTHERS.
- PROVIDE IN-GROUND QUASITE PULLBOX FOR M.O.P DATA CABLES WITH POWER NEMA 3R JUNCTION BOX MOUNTED INSIDE THE PULLBOX.
- 2" UNDERGROUND SCH40 PVC CONDUIT WITH POWER CONDUCTORS. SEE WIRING SCHEMATIC.
- 2" UNDERGROUND SCH40 PVC CONDUIT FOR OWNER'S AUDIO SYSTEM / DETECTOR LOOP CABLES.
- 1" EMPTY UNDERGROUND SCH40 PVC CONDUIT FOR OWNER'S AUDIO SYSTEM / DETECTOR LOOP CABLES.
- INSTALL UNDERGROUND 3" SCH40 PVC CONDUIT UP INTO THE CANOPY COLUMN WITH TYPE MC CABLE (GALVANIZED STEEL WITH PVC JACKET) RUN WITHIN FOR THE 120V POWER FOR LIGHTS, 120 VOLT POWER FOR FANS, AND 24 VOLT POWER FOR THE INFRARED GAS HEATERS.
- PROVIDE ONE DUPLEX GFCI (WITH IN-LINE WP COVER PLATE), ONE DOUBLE-POLE SWITCH AND THREE 120V SINGLE-POLE SWITCHES EACH WITH HUBBELL #RWB550 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 #1 ON B13 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.
- 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 MC ABOVE THE ROOF. ALL EXPOSED ELECTRICAL BOXES TO BE NEMA 3R CAST-METAL.
- PROVIDE ONE (1) #2CU EQUIPMENT GROUND TO BE BONDED TO CANOPY STRUCTURE PER MANUFACTURER'S RECOMMENDATIONS.



4 CANOPY COLUMN ISOMETRIC
NOT TO SCALE



2 SUNCOAST PANEL WIRING DIAGRAM DBL LANE ORDER POINT-I COOLING FANS
1/4" = 1'-0"

SEQUENCE OF OPERATION

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

NOTES

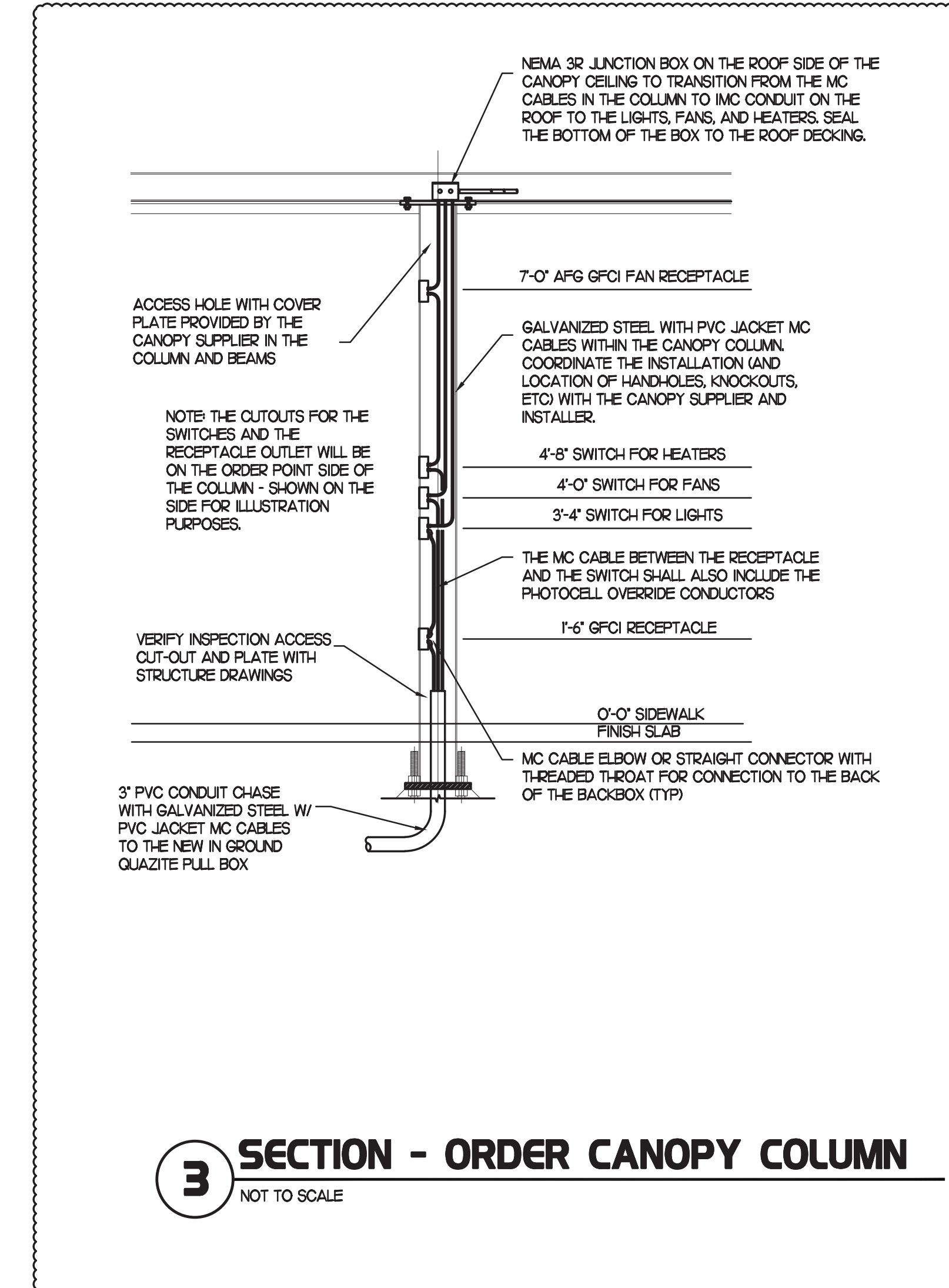
- CONTRACTOR SHALL PURCHASE CONTROL PANEL DIRECT FROM SUNCOAST ENVIRONMENTAL CONTROLS, TELE NO 727-544-6679.
- COORDINATE WITH GC TO ESTABLISH LOCATION TO MOUNT PANEL IN A CONDITIONED SPACE INSIDE THE BUILDING.
- INFORM SEC ASAP AS TO WHETHER THE PANEL IS TO BE SURFACE OR FLUSH MOUNTED.
- PROVIDE LAMINATED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

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.

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 PH 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.



3 SECTION - ORDER CANOPY COLUMN
NOT TO SCALE



Chick-fil-A

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

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SEAL:



CORPORATE SEAL:



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CENTRE POINTE FSU
4926 CENTRE POINTE DR.
NORTH CHARLESTON, SC 29418

FSR#01936

BUILDING TYPE / SIZE: S06-C-R

RELEASE: 2023-004

PRINTED FOR: CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
12	2/6/24	GAS UPDATES

CONSULTANT PROJECT # 2022.0771

DATE 03/13/23

DRAWN BY RZ

CHECKED BY MJSN

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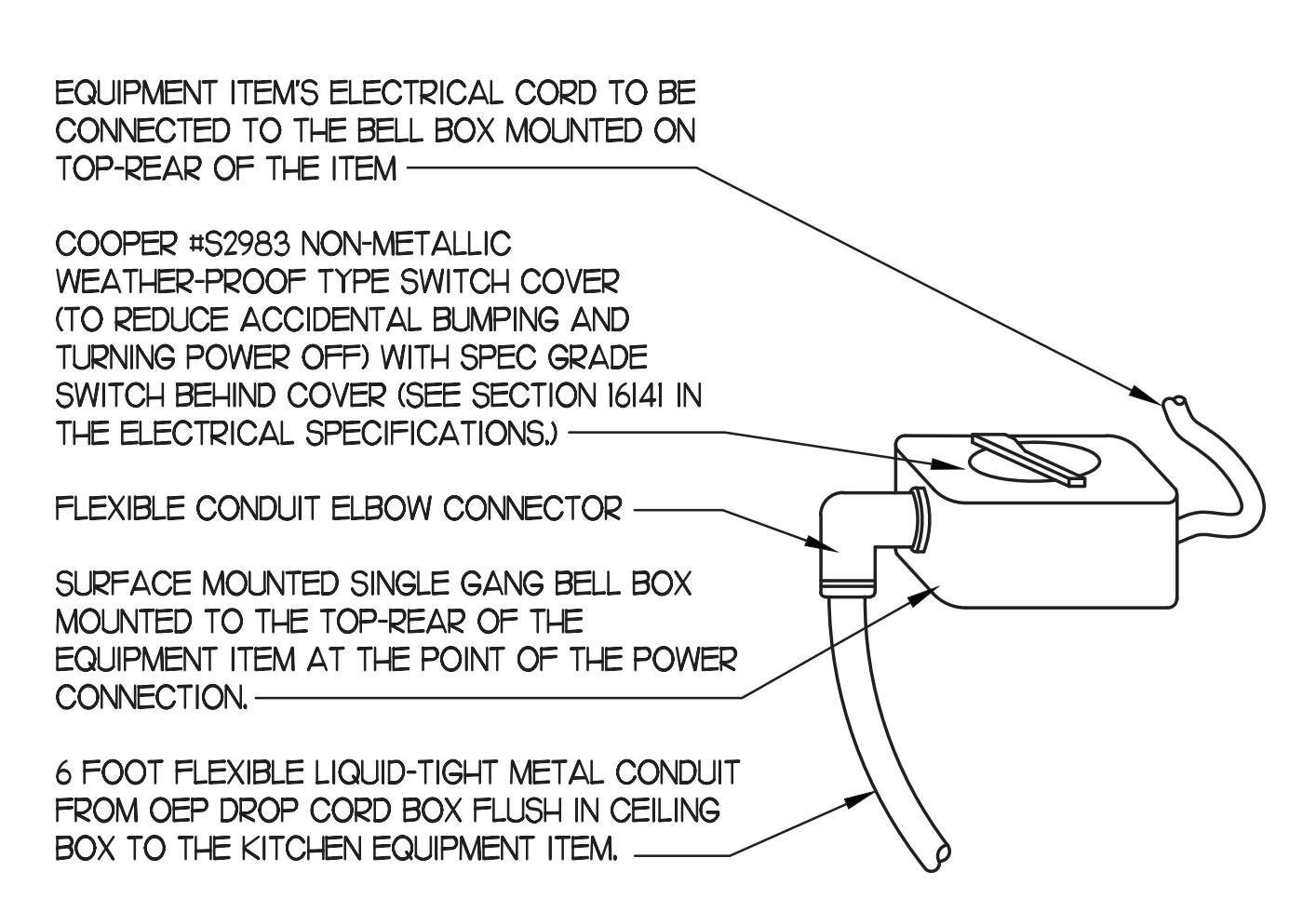
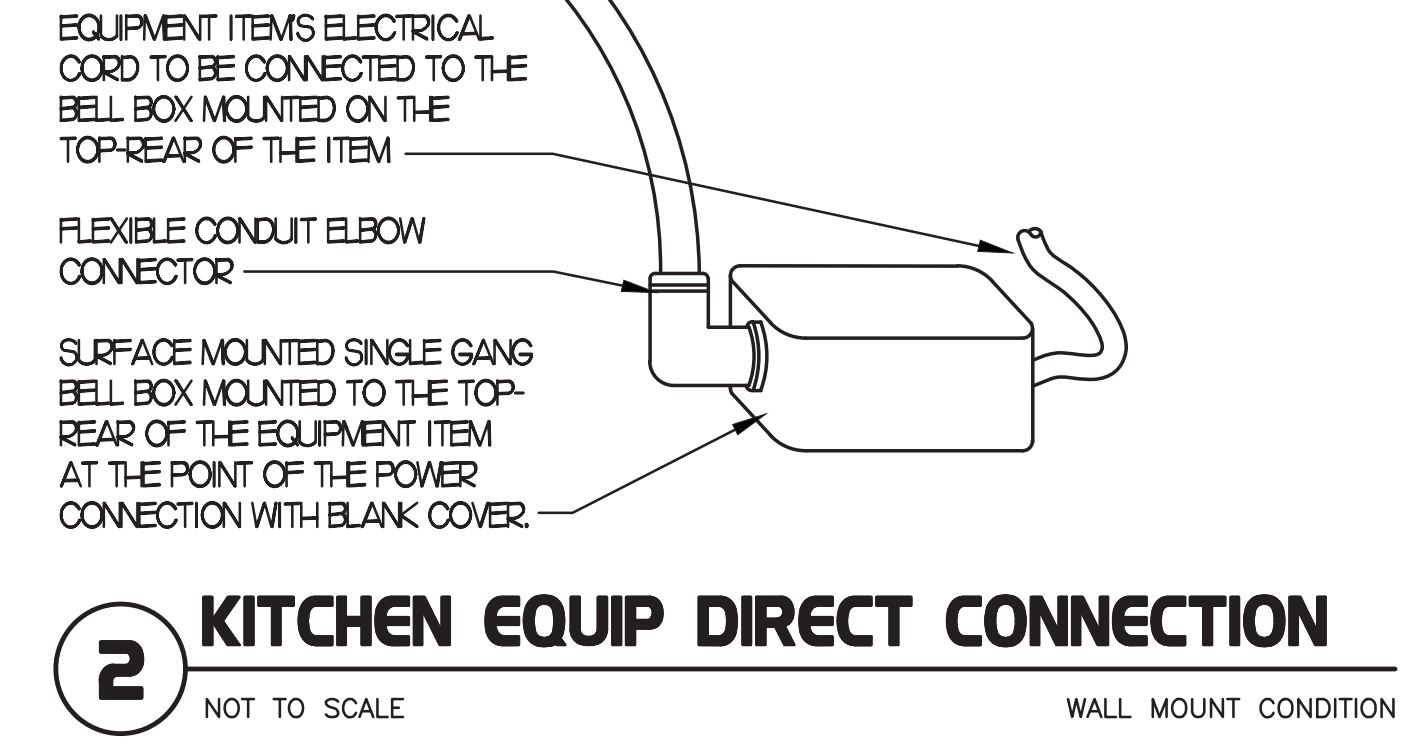
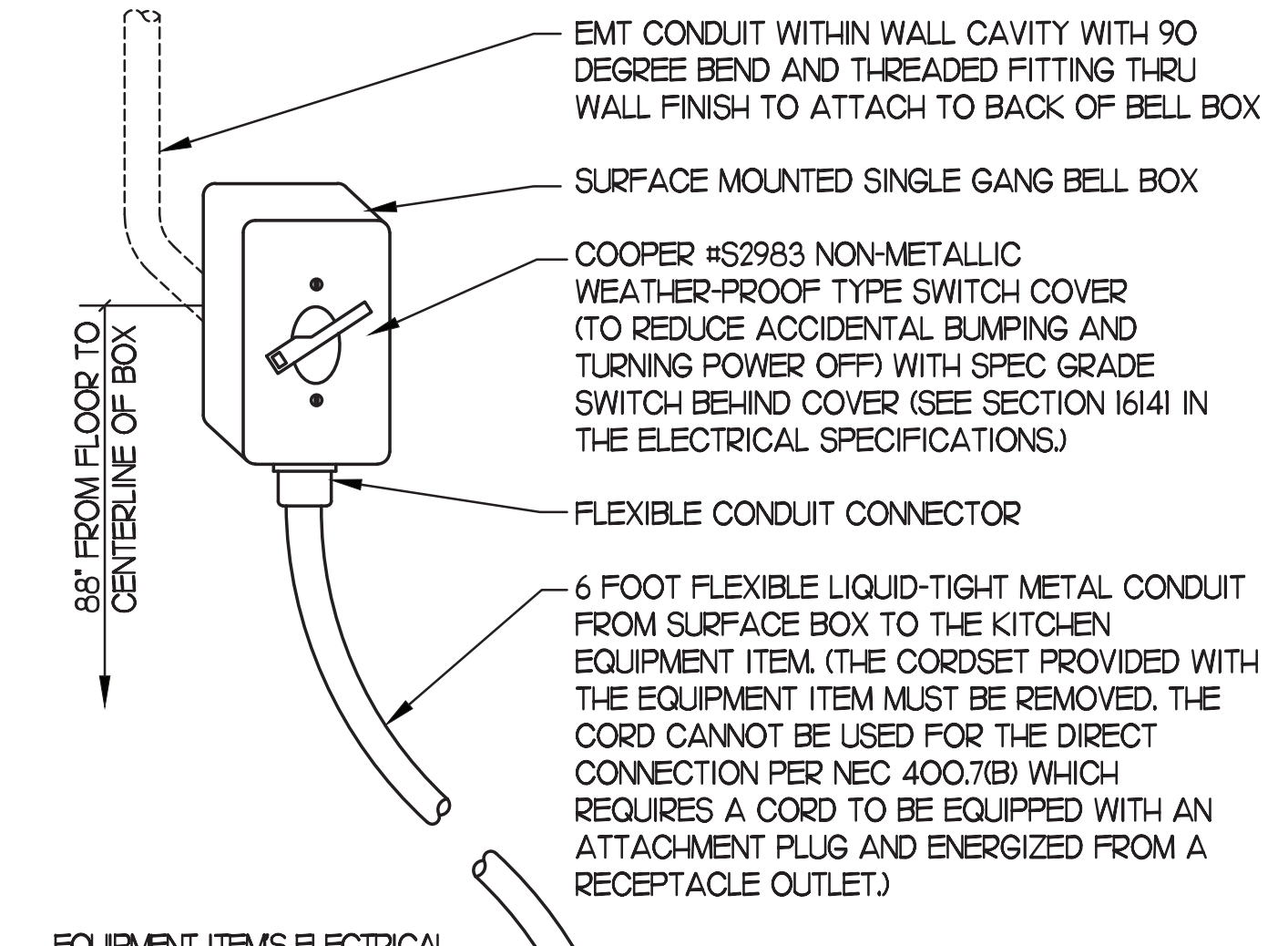
SHEET CANOPY POWER PLAN AND LGT PLAN

SHEET NUMBER

E1.1A

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

REQ UR ES IG/ GF WIR ING	ITEM NO.	EQUIPMENT	MANUFACTURER	ELECTRICAL				NEMA CONFIG	COOPER/ARROW HART (LON) RECEP CAT. NO.	Wire/Conduit MARK NO.	(ALL ITEMS BY CHICK-FIL-A UNLESS OTHERWISE NOTED)
				VOLT	PH	WI RES	KW AMP				
	180R	ORDER REGISTER	EQUIPMENT TO BE REUSED/RELOCATED							VERIFY	
	182	RECEIPT PRINTER	EQUIPMENT TO BE REUSED/RELOCATED							VERIFY	
	183R	ORDER MONITOR	EQUIPMENT TO BE REUSED/RELOCATED							VERIFY	
	184R	IPAD	EQUIPMENT TO BE REUSED/RELOCATED							VERIFY	
	190R	DRIVE-THRU VIDEO MONITOR	EQUIPMENT TO BE REUSED/RELOCATED							VERIFY	
	300JR	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	
	308JR	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	
	363	DISHWASHER	EQUIPMENT TO BE REUSED/RELOCATED							VERIFY	
	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	
	432R	REFRIGERATED WORK TABLE	EQUIPMENT TO BE REUSED/RELOCATED							VERIFY	
	439	40" COLD RAIL	EQUIPMENT TO BE REUSED/RELOCATED							VERIFY	
	440R	BREADING TABLE	EQUIPMENT TO BE REUSED/RELOCATED							VERIFY	
	441	SALAD PREP TABLE	EQUIPMENT TO BE REUSED/RELOCATED							VERIFY	
	444R	THAWING CABINET - DOUBLE	EQUIPMENT TO BE REUSED/RELOCATED							VERIFY	
	500AR	VERTICAL CONTACT TOASTER	EQUIPMENT TO BE REUSED/RELOCATED							VERIFY	
	500BR	RADIANT TOASTER	EQUIPMENT TO BE REUSED/RELOCATED							VERIFY	
	500R	BUN WARMER	EQUIPMENT TO BE REUSED/RELOCATED							VERIFY	
	505VL	VICTOR OVEN	EQUIPMENT TO BE REUSED/RELOCATED							VERIFY	
	522R	OPEN FRYER	EQUIPMENT TO BE REUSED/RELOCATED							VERIFY	
	523R	PRESSURE FRYER	EQUIPMENT TO BE REUSED/RELOCATED							VERIFY	
	524R	DUAL-SIDED XPRESS BROILER	EQUIPMENT TO BE REUSED/RELOCATED							VERIFY	
	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	
	564A	PRODUCT HOLDING CABINET	EQUIPMENT TO BE REUSED/RELOCATED							VERIFY	
	565C	FOOD COOKER/ WARMER	EQUIPMENT TO BE REUSED/RELOCATED							VERIFY	
	600R	FLOOR MIXER	EQUIPMENT TO BE REUSED/RELOCATED							VERIFY	
	607R	LEMON JUICER	EQUIPMENT TO BE REUSED/RELOCATED							VERIFY	
	669R	OFFICE SAFE	EQUIPMENT TO BE REUSED/RELOCATED							VERIFY	
	123	MIDLINE 66" TOAST TABLE	ATLANTA CUSTOM FABRICATORS								
	124	MIDLINE 120" TABLE	ATLANTA CUSTOM FABRICATORS								
	182L	LABEL PRINTER	RADIANT KITCHEN PRODUCTION SYSTEM	120	1			0.125		NEMA 6-20P	
	183	ORDER MONITOR	RADIANT KITCHEN PRODUCTION SYSTEM	120	1	2				NEMA 5-20R	
	211B	FLY SYSTEM	PESTWEST MANTIS QUADIS IN WHITE (MODEL #125-00052)	120	1	2	0.078	0.65		NEMA 5-15R	1
	211C	FLY SYSTEM	PESTWEST MANTIS SIRIUS IN WHITE (MODEL #125-000513)	120	1	2	0.078	0.65			1
	269	ANSUL FIRE SUPPRESSION SYSTEM	HALTON HOODS	120	1	2			VERIFY DIRECT CONNECTION		
	270	ANSUL FIRE SUPPRESSION SYSTEM	HALTON HOODS	120	1	2			VERIFY DIRECT CONNECTION		
	315W	10-HEAD DRINK TOWER/ICE BIN	LANCER #85-23710-111-07 MODEL 2300	120	1	2		10.0		NEMA 5-20R	1
	320	TURBO CARBONATOR	LANCER #85-1923-03	115	1	2		6.2		NEMA 5-20R	1
	380X	ICE MACHINE	FOLLETT HORIZON CHEWBLET MODEL #HMF16SORBT	120	1	2		6		NEMA 5-15R	1
	401	FREEZER/WORK TABLE	TRAUlsen MODEL #ULT48-ZCF-LR	120	1	2		7.3		NEMA L5-20R	1
	410	WALK-IN FREEZER	THERMOKOOL	120	1	2		3.3		DIRECT CONNECTION	1
	410a	WALK-IN FREEZER CONDENSER	THERMOKOOL	208	3	3		16.5		DIRECT CONNECTION	
	410b	WALK-IN FREEZER EVAPORATOR	THERMOKOOL	208	1	2		8.8		DIRECT CONNECTION	
	421	DOUBLE UNDERCOUNTER REFRIGERATOR	TRAUlsen MODEL #UHT48-ZCF	120	1	2	0.48	5.7		NEMA 5-20R	1
	422T	REFRIGERATOR	TRAUlsen MODEL #TE048HT	115	1	2	0.33	6.7		5-15P	
	431W	REFRIGERATOR	TRAUlsen MODEL #UHT48-ZCF-LR	115	1	2	0.756	6.3		5-15P	
	440	BREADING TABLE	RANDELL MODEL #52365WPRM-CFA	120	1	2		12.0		NEMA L5-20R	1
	444S	THAWING CABINET - SINGLE	TRAUlsen MODEL #RET132EWUT-FHS	120	1	2		16.0		DIRECT CONNECTION	1
	505V	VECTOR OVEN	ALTO-SHAAM	208	3			7.9		15-30P	
	560E	FRY WARMER	BKI MODEL #UW-17	120	1			1			
	449	WALK-IN COOLER	THERMOKOOL	120	1	2		2.4		DIRECT CONNECTION	1
	449a	WALK-IN COOLER CONDENSER	THERMOKOOL	208	3	3		9.5		DIRECT CONNECTION	
	449b	WALK-IN COOLER EVAPORATOR	THERMOKOOL	208	1	2		1.0		DIRECT CONNECTION	
	503T	EGG STATION	ANTUNES MODEL #ES-600R 9300657	208	1	2		12.5		NEMA L6-20R	1
	505G	RANGE/CONVECTION OVEN	LANG MODEL #9P-R30CAPF208CF	208	3	3	19.8	57.6		NEMA 15-60R	17
	521	WARMING EYES WITH STAND	STAR-MAX MODEL #502FD	208	1	3	3.9	18.8		NEMA 6-30R	8
	522	OPEN FRYER	HENNY PENNY MODEL #CFE-410	208	3	3	22.0	61		PIN&SLEEVE	
	523	PRESSURE FRYER	HENNY PENNY MODEL #PFE-500	208	3	3	13.5	38.0		NEMA 15-50R	14
	524	DUAL-SIDED XPRESS BROILER	CARLAND #CX8E12	208	3	3	16.04	47.0		NEMA 15-50R	14
	550	DOUBLE WARMING DRAWER	TOASTMASTER MODEL #3880A	120	1	2	1.00	8.3		NEMA 5-15R	
	560	FRY HOLDING STATION	BKI MODEL #FW-158B	120	1	2	1.84	15.4		NEMA 5-20R	1
	563D	SANDWICH SLIDE	BKI MODEL #21SM-2624L	120	1	2	1.09	9.13		NEMA 5-20R	1
	563S	SANDWICH SLIDE	BKI MODEL #SM-2624R	120	1	2	0.548	4.56		NEMA 5-20R	1
	564	PRODUCT HOLDING CABINET	DUKE MODEL #FWM3-24CF6-120	120	1	2	1.6	13.3		NEMA 5-15R	1
	580H	MULTI-USE HOLDING CABINET	DUKE MODEL #MUHC-52-120	120	1	2	2.88	24		NEMA L5-30R	7
	592	REHEATING CABINET	PITCO SRTE 14	208	3			8		15-50P	
	671	FLAT-VU MENU BOX	C3 LIGHTING SOLUTIONS SIZE B	120	1	2	0.054	0.45		NEMA 5-20R	1



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FSR#01936

BUILDING TYPE / SIZE: 506-C-R
RELEASE: 2023-004
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CONSULTANT PROJECT # 2022.0771
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SHEET NUMBER



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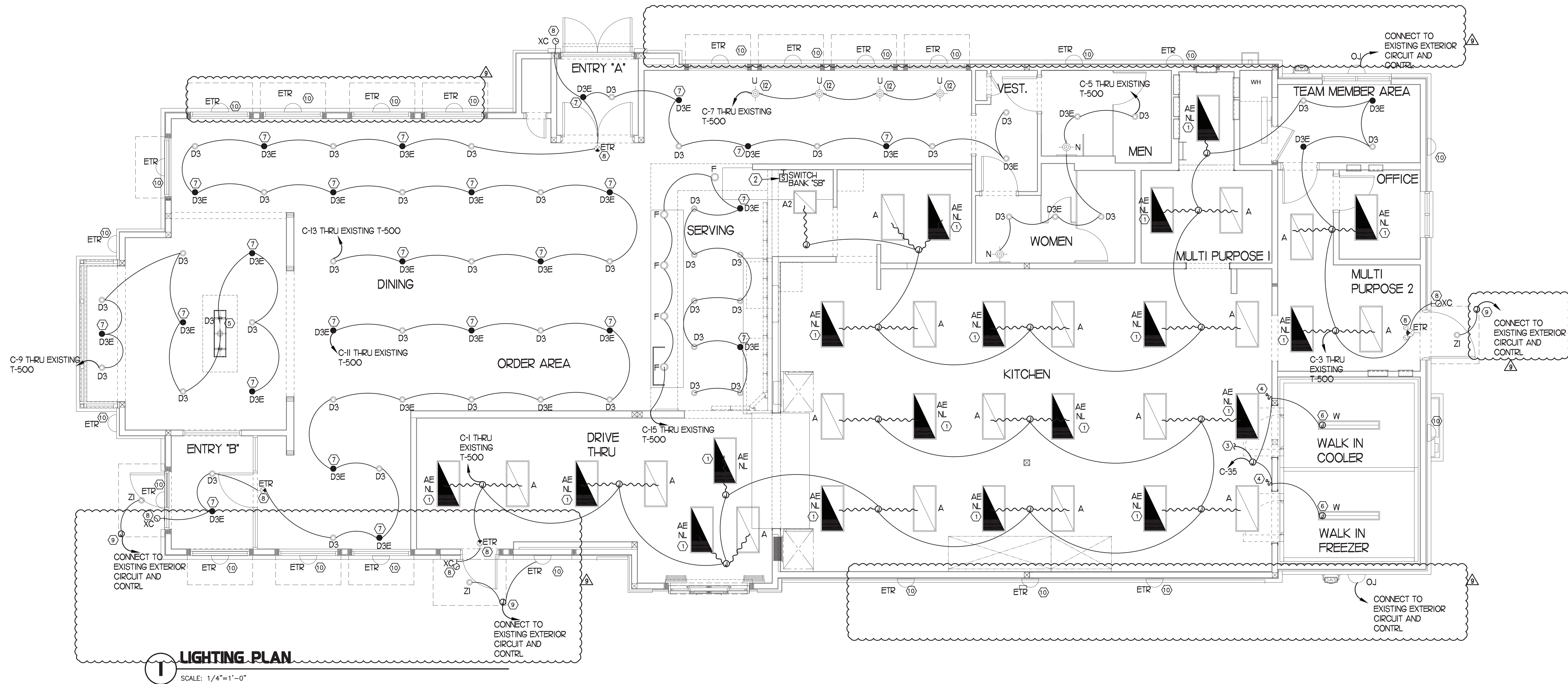
REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
5	12/04/23	FIRE COMMENTS
9	1/12/24	CONSTRUCTION UPDATES

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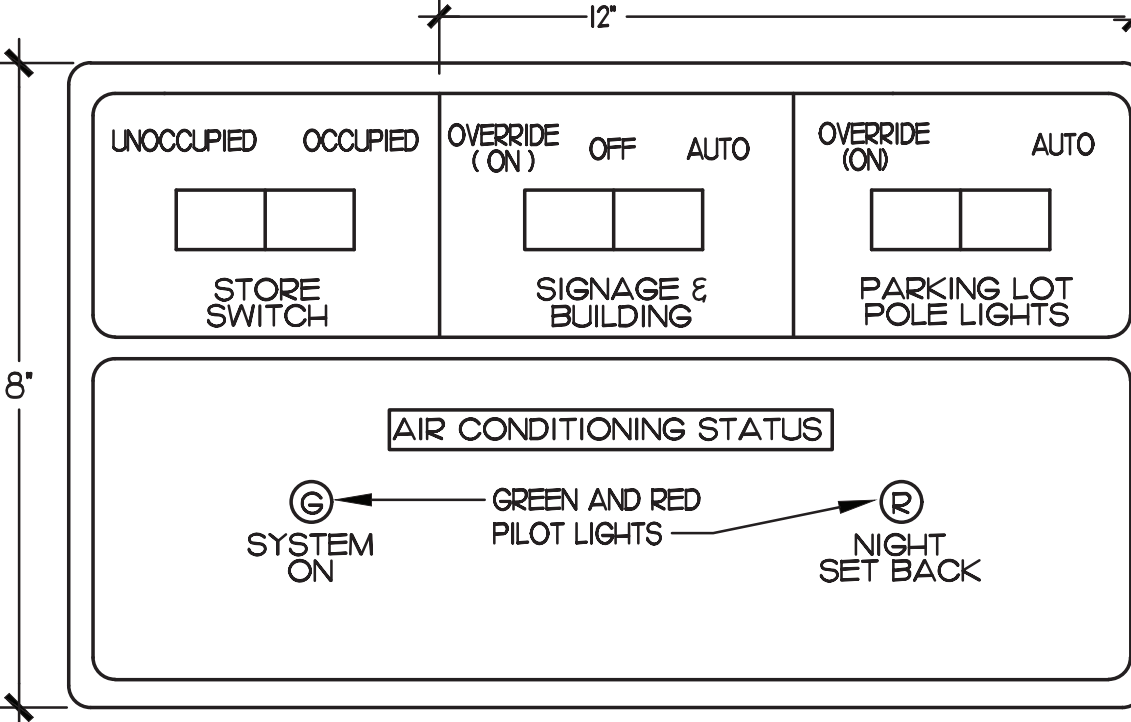
SHEET LIGHTING PLAN

SHEET NUMBER

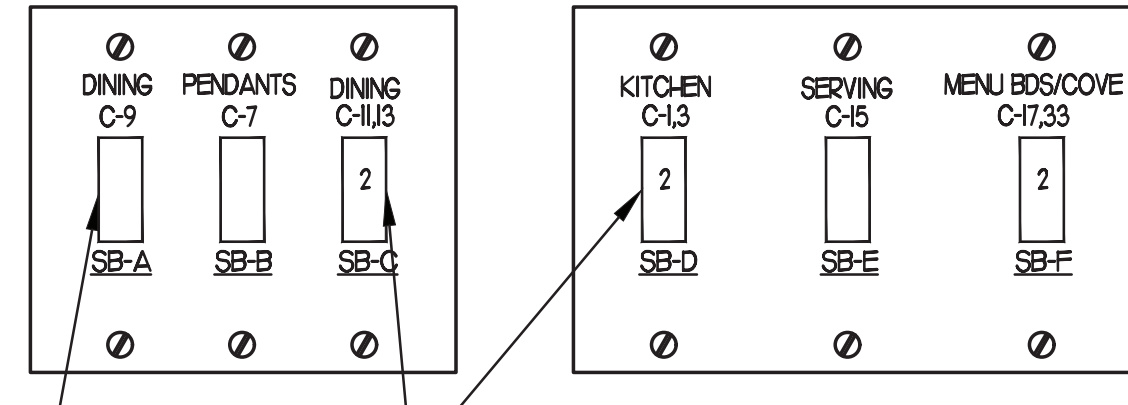
E2.1



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



3 STORE OPEN-CLOSE CONTROL SWITCH UNIT
NO SCALE



4 SWITCH BANK "SB" DETAIL
NO SCALE

2 KEYNOTES (APPLY TO THIS SHEET ONLY)

- CONNECT FIXTURE SO THAT FIXTURE AND BATTERY BACK-UP ARE NOT SWITCHED. 'N' ADJACENT TO FIXTURE INDICATES THAT FIXTURE SHALL BE ON 24 HOURS.
- APPROXIMATE LOCATION OF SWITCH BANK 'SB'. SEE DETAIL #4 THIS SHEET FOR MORE INFORMATION.
- TO WALK-IN DOOR FRAME HEATER AND INTERIOR LIGHTS. J-BOX TO BE ABOVE THE UNITS AND EXTEND DOWN ALONG THE FRONT AT 9'-6" AFF TO HEATERS AND LIGHT SWITCHES.
- FOR CONTROL OF LIGHTING FIXTURE IN WALK-IN COOLER/FREEZER, FURNISHED WITH EQUIPMENT, INSTALLED BY ELECTRICAL CONTRACTOR.
- CENTER LIGHT 'D3' OVER THE COKE FIXTURE
- FOR CONNECTION TO LIGHTING FIXTURES IN THE WALK-IN COOLER AND WALK-IN FREEZER WHICH ARE FURNISHED WITH EQUIPMENT, CONTRACTOR SHALL ROUGH-IN AND CONNECT ALL FIXTURES AS REQUIRED BY THE EQUIPMENT MANUFACTURER. PROVIDE FLUORESCENT LAMP TYPE AS REQUIRED BY EQUIPMENT MANUFACTURER.
- CONNECT FIXTURE SO THAT BATTERY PACK IS NOT SWITCHED WITH LIGHTS, BUT ALL LAMPS ARE SWITCHED.
- CONNECT FIXTURE TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS. THIS FIXTURE SHALL NOT BE SWITCHED.
- CANOPY LIGHTING WILL BE PROVIDED BY THE CANOPY MANUFACTURER. ELECTRICAL CONTRACTOR SHALL CONNECT BRANCH CIRCUIT AND PROVIDE ROUGH-IN FOR LIGHTING. COORDINATE LOCATIONS WITH SIGNS CONTRACTOR PRIOR TO ROUGH-IN.
- CLEAN, RELAMP AND RELEASE ANY RELOCATED / EXISTING LIGHT FIXTURES TO LIKE NEW CONDITION, RECONNECT TO EXISTING AREA LIGHTING CIRCUIT AND CONTROL.

INSTALL EMERGENCY LIGHTS IN ACCORDANCE WITH SOFC 100B. LIGHTS TO BE TESTED AT INSPECTION.

INSTALL EXIT LIGHTS IN ACCORDANCE WITH SOFC 101B. LIGHTS TO BE TESTED AT INSPECTION.

THE MEANS OF EGRESS, INCLUDING THE EXIT DISCHARGE, SHALL BE ILLUMINATED AT ALL TIMES THE BUILDING SPACE, SERVED BY THE MEANS OF EGRESS IS OCCUPIED IN ACCORDANCE WITH SOFC 100B.2

NOTE: LOCATE JUNCTION BOXES IN CEILING SPACE ABOVE THE LOCATION OF THE SWITCH-BANK FOR SPlicing OF LINE, LOAD, AND SWITCHED CONDUCTORS. PROVIDE GANGED BACKBOX FOR SWITCHES AS REQUIRED AND LABEL ALL CONDUCTORS SO AS TO INDICATE THEIR USE (LINE, LOAD, SWITCH), THE LOAD SERVED, AND THE CIRCUIT NUMBER.

S.P.S.T. TOGGLE SWITCH (TYP. UNQ.)

INDICATES 2 POLE LIGHT SWITCH

SECTION C16124
SUPPORTING DEVICES AND HANGERS

PART 1 - PRODUCTS

1.01 ACCEPTABLE MANUFACTURERS

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

PART 2 - EXECUTION

2.01 INSTALLATION

A. Secure conduits to within 3' of each outlet box, junction box, cabinet, fitting, etc., and at intervals not to exceed ten feet (10') and in accordance with the National Electric Code. In seismic zones, support conduits 1' and under at 6' intervals.

B. Install clamps secured to structure for feeder and other conduits routed against the structure. Use drop rods and hangers or racks to support conduits run apart from the structure.

C. Provide and install suitable angle iron, channel iron or steel metal framing with accessories to support or brace electrical equipment including safety switches, fixtures, panelboards, etc.

D. Use of chains, perforated iron, baling wire, or tie wire for supporting conduit runs is not permitted.

E. For support of low voltage wiring not required to be in conduit, bundle cables together in a neat manner using approved nylon tie wraps. Bundled cables shall be supported with "J" hooks on telephone type bridle rings, a minimum of 6 feet on centers. Clearly identify all differing types of cables being run and tag with tape tags regarding telephone, POS System, music/communication, security, etc. for various system utilizing said cable. Identification tape shall be provided at minimum intervals of 25 feet on center and within each building space.

F. Provide a system of supporting devices and hangers to insure secure support or bracing for conduit, electrical equipment, including safety switches, fixtures, panelboards, outlet boxes, junction boxes, cabinets, etc.

SECTION C16140
WIRING DEVICES AND PLATES

PART 1 - PRODUCTS

1.01 WALL SWITCHES

- a. Shall be purchased from the National Accounts Vendor indicated on the plans.
B. Ratings: 20 amps, 120/277 volts a.c. or as identified on drawings.
C. Devices: (Cooper/Arrow Hart catalog numbers are listed unless noted otherwise):
1. Single pole toggle switches:
20 AMP device - #AH1221-GY (Kitchen) or #AH1221-B (Dining)
20 AMP Pilot lights illuminated with load on - #AH1221-PL
2. Double pole toggle switches:
20 AMP device - #AH1222-GY (Kitchen) or #AH1222-B (Dining)

1.02 RECEPTACLES

- A. Shall be purchased from the National Accounts Vendor indicated on the plans.
B. Devices: (Cooper/Arrow Hart catalog numbers are listed unless otherwise noted):
1. Specification grade devices (grey device color in Kitchen, brown device color in Dining, and orange for IG type) to be 20 amp, 125 volts, a.c. receptacles:
Single (simplex) device: #1877-GY (Kitchen) or #1877-B (Dining)
Duplex device: #CR20-GY (Kitchen) or #CR20-B (Dining)
Tamper resistant duplex device: #TR8200-B (Dining)
GF (ground-fault circuit interrupter) duplex device: #VGF20-GY (Kitchen) or #VGF20-B (Dining)
IG (isolated ground) duplex device: #IGS362-RN (orange face)

1.03 SPECIAL DEVICES

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

1.04 WALL PLATES

- A. Provide Cooper/Arrow Hart, or approved equal, smooth satin stainless steel 302-SS series for switches and receptacles in the Kitchen areas. All other areas shall be brown Nylon plastic.
B. Provide blank plates on all outlet boxes for future outlets, or outlets without devices. Plate style shall match device plates.
C. Provide non-metallic weatherproof covers for duplex GF receptacles located outside or in wet locations that feature "while-in-use" cover equivalent to Arrow Hart #WU-1.
D. Where devices installed in exposed boxes or conduit fittings: provide properly designed plates and covers equal to Arrow Hart RS-Series exposed work covers.
E. Install galvanized steel plates on outlet boxes and junction boxes in unfinished areas, above accessible ceilings, and on surface mounted boxes.

PART 2 - EXECUTION

2.01 INSTALLATION

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

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

SECTION C16440
PANELBOARDS

PART 1 - PRODUCTS

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

- A. Siemens (West, Midwest and Southwest Regions) from Suncoast Environmental Controls (SEC), Scott DYER (877) 544-6679.
B. Square-D (Northeast, Atlantic, and Southeast Regions) from Accu-serv, Bob Harpring (502)961-0096

1.02 PANELBOARD FEATURES

- A. Panelboards shall have a minimum symmetrical interrupting rating to meet or exceed the available symmetrical interrupting fault current at the device intended to interrupt current.
B. Bus bars shall be copper or tin plated aluminum.
C. Provide factory-installed copper ground bus in each panelboard with lugs or connectors on bar.
D. Provide electrically isolated, factory installed, neutral bus in each 3 phase, 4 wire or 1 phase 3 wire panelboard.
E. In addition to the ground bus required by paragraph 1.02D (above), provide factory installed, electrically isolated, copper ground bus in each panelboard serving isolated ground receptacles.
F. Main lugs and main circuit breaker lugs shall be UL Listed for use with both aluminum and copper conductors.
G. Provide panelboard doors with chrome-plated locks and catches. All locks shall be keyed alike. Provide two keys for each lock.
H. Provide thermal-magnetic circuit breakers which are rated for 40 degrees C ambient temperature. Breakers shall be quick-make, quick-break type trip with trip indication shown by handle position other than on or off. Multi-pole breakers shall have a common trip handle. Tandem type circuit breakers shall not be permitted.
I. Provide typed directory card with clear holder for each panelboard.

PART 2 - EXECUTION

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 filter plates over all unused spaces in panelboards.

D. A typed directory card shall indicate devices being served and the space name where the device is located.

E. Provide minimum of one (1) 3/4" empty spare conduit for every 3 poles of spare breaker or space in the panelboard. Stub conduit to nearest accessible ceiling space. Label conduit as spare at panelboard and termination point.

F. Non-isolated ground bars shall be grounded to panelboard can and main service entrance ground bus with a code sized grounding conductor installed in the same conduit as the phase and neutral conductors.

G. Circuits using a common neutral shall be installed in accordance with the National Electrical Code.

H. Inspect each panelboard for proper installation, physical damage, tightness and installation of overcurrent devices. Verify proper color coding of conductors. Correct or repair all items found in inspection.

I. Neutral wires, ground wires, and isolated ground wires shall be connected to the appropriate panel bus bar. Do not mix bus wire connections.

SECTION C16441
ENCLOSED SWITCHES

PART 1 - PRODUCTS

1.01 MANUFACTURERS

- A. Square D.
B. General Electric.
C. Siemens

1.02 ENCLOSED SWITCHES

- A. Nonfusable switch assemblies: NEMA KS 1, General Duty Type for 208 volt load interrupter enclosed knife switch with externally operable handle interlocked to prevent opening front cover with switch in on position. Handle lockable in off position. Provide equipment ground lug in each switch.
B. Enclosures: NEMA KS 1.
1. Interior dry locations: Type 1.
2. Exterior locations: Type 3R.

SECTION C16442
UTILITY SERVICE ENTRANCE AND DISTRIBUTION SYSTEM

PART 1 - GENERAL

1.01 SYSTEM DESCRIPTION

- A. The underground electrical system service characteristics shall be 208Y/120 volts, Three Phase, Four Wire service and shall extend from utility company transformer secondary.
B. Metering of electrical usage shall be located as required by local electrical utility company. Coordinate requirements with local utility company.
C. Distribution system originates at secondary of utility transformer and includes service entrance conduit and conductors, distribution equipment, lighting ballasts, 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.
B. Bus bars shall be copper or tin plated aluminum.
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 Christanell at 800-325-0963, fax- 314-531-8720, email - davec@villalighting.com
B. Ballasts to be electronic ballast provided with lighting fixture by the manufacturer.
C. Lamps to be Osram-Sylvania and will typically be provided with the luminaire by the lighting manufacturer.
1.02 FIXTURE REQUIREMENTS
A. Provide regulating, HPF ballasts in all HID lighting fixtures. HID lamp types shall be as indicated on the drawings.
B. Recessed fluorescent lighting fixture ballasts shall be provided with integral thermal protection.

- C. Provide energy-saving Instant or Rapid Start lamps for all fluorescent fixtures.
D. All lamps and ballasts shall meet or exceed the requirements of the National Energy Policy Act of 1992 and any other applicable Codes or Criteria.
E. All components of recessed fixtures shall be accessible without disturbing fixture in or on ceiling.
F. Energy saving ballasts and energy saving lamps provided shall be compatible for operation together.
G. Exterior fixtures and poles shall be suitable for exterior use, shall be UL Listed, and shall be a standard design for exterior application.
H. Exterior poles for fixtures with luminaires installed shall be designed for maximum constant velocity wind load with luminaires installed, applicable to the geographic area.

1.03 CONTROLS

A. Lighting contactors shall be Square-D, General Electric, Cutler-Hammer or Siemens of types and quantity shown on drawings, except those furnished with the switchgear as part of the National Account Program by Suncoast Environmental Controls (SEC).

1.04 EMERGENCY LIGHTING UNITS

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

PART 3 - EXECUTION

3.01 INSTALLATION

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



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FSR#01936

BUILDING TYPE / SIZE: S06-C-R
RELEASE: 2023-004
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SHEET ELECTRICAL SPECIFICATIONS

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E4.2



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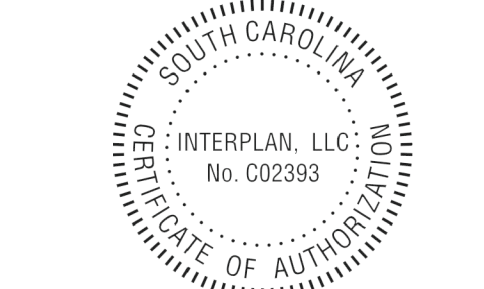
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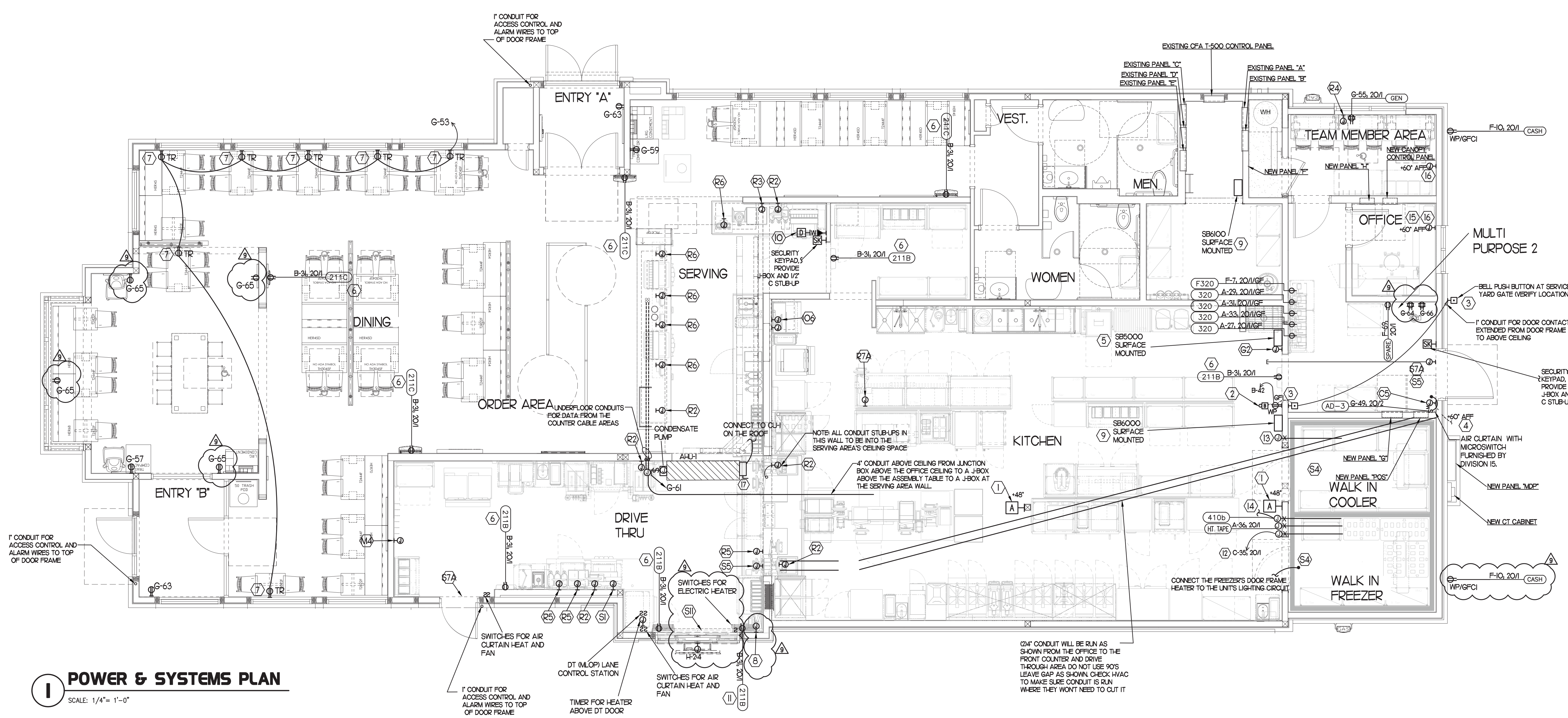
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POWER & SYSTEMS PLAN & NOTES

SHEET NUMBER

E2.2

MARIBR - 02/13/2024 9:42:56 AM



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

2 KEY NOTES - POWER:

- PROVIDE 2 GANG DEEP BOX (2" MIN) FOR ANSLU PULL STATION. EXTEND 1/2" CONDUIT FROM BOX, STUBBED ABOVE CEILING.
- PROVIDE EDWARDS #340-4N5 VIBRATING 4" DIAMETER BELL. BELL SHALL BE RATED AT 120 VOLTS.
- PROVIDE 120 VOLT WEATHER-PROOF DOORBELL. PUSH-BUTTON AT DOOR. PUSH-BUTTON SHALL BE FLUSH MOUNTED. PROVIDE BORTONICS SYSTEMS #W5286-P25 CLEAR ANODIZED ALUMINUM PUSH-BUTTON WITH SINGLE GANG SWITCH-PLATE.
- ONE 3" ISP SERVICE CONDUIT. EXTEND WITH PULL STRING FROM THE J-BOX TO THE UTILITY SOURCE
- SB5000 PANEL ENCLASURE WITH 3 LITTLE FUSE SHOCK. GFCI PROTECTION DEVICES #S85060 RATED AT 60AMPS.
- PROVIDE DUPLEX RECEPTACLE (SEE ELEVATIONS FOR MTG H1) IN AN ARLINGTON #DVER2W DOUBLE-GANG RECESSED BOX FOR THE FLY SYSTEM ITEMS. DO NOT CUT THE CORSET FLUSHED WITH THE UNIT, BUT COIL THE CORD ON THE BACK OF THE UNIT AND TUCK INTO THE BACKBOX.
- TAMPER RESISTANT (TR) DUPLEX RECEPTACLE WITH USB CHARGER (IN THE DINING AREAS) SHALL BE COOPER/ARROW HART #127744-B (BROWN) WITH MATCHING COLOR DECOR STYLE PLATE.
- JUNCTION BOX WITH 3/4" CONDUIT STUB-UP INTO THE CEILING SPACE FOR OWNERS' INTERCOM FOR THE MLOP ORDERING CONTROL STATION. PROVIDE BLANK PLATE IF BLDG IS SINGLE LANE DRIVE-THRU.
- SB5000 PANEL ENCLASURE WITH 3 LITTLE FUSE SHOCK. GFCI PROTECTION DEVICES AND SB6000 PANEL ENCLASURE SHOCK BLOCK (GFCI) PROTECTION DEVICES ENSURE CONDUITS ARE INSTALLED FOR LINE AND LOAD WIRES TO BE INSTALLED WITH PROPER WIRE BENDING SPACE LABEL EACH SHOCK BLOCK WITH PANEL AND CIRCUIT NUMBER IT CONTROLS.
- PROVIDE 2 GANG DEEP BOX (2" MIN) FOR EACH DUCT SMOKE DETECTOR INDICATED ON THE MECHANICAL DRAWINGS. FOR INSTALLATION OF DUCT DETECTOR REMOTE ANNUNCIATORS BY MECHANICAL. THE DUCT SMOKE REMOTE ANNUNCIATORS ARE PROVIDED TO THE ELECTRICIAN WITH THE SUNCOAST ELECTRONICS PACKAGE OF GEAR AND CONTROLS. EXTEND 1/2" CONDUIT FROM EACH BOX AND STUB ABOVE CEILING.
- NOT USED
- FACTORY PROVIDED JUNCTION BOX FOR WALK-IN FREEZER PRESSURE RELIEF. ELECTRICAL CONTRACTOR TO PROVIDE FIELD WIRING FROM UNSWITCHED LEG OF LIGHTING CIRCUIT SERVING WALK-IN FREEZER FIXTURES RO JUNCTION BOX
- CONNECT EVAPORATOR UNIT IN COOLER TO COOLER CONDENSING UNIT CONTROLS LOCATED ON ROOF. SEE SHEET E2.3.
- CONNECT EVAPORATOR UNIT IN FREEZER TO FREEZER CONDENSING UNIT CONTROLS LOCATED ON ROOF. SEE SHEET E2.3.
- PROVIDE CO2 CENTRAL CONTROL UNIT MOUNTED AT 60" AFF. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE-GANG J-BOX WITH 1/2" CONDUIT EXTENDED TO ABOVE ACCESSIBLE CEILING SPACE. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND PER LOCAL CODE. FIELD VERIFY EXACT LOCATION AND ALL REQUIREMENTS PRIOR TO BID AND CONSTRUCTION.
- PROVIDE CO2 ANNUNCIATOR MOUNTED AT 60" AFF. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE-GANG J-BOX WITH 1/2" CONDUIT EXTENDED TO ABOVE ACCESSIBLE CEILING SPACE. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND PER LOCAL CODE. FIELD VERIFY EXACT LOCATION AND ALL REQUIREMENTS PRIOR TO BID AND CONSTRUCTION.
- PROVIDE 2P30A NEMA 1 FUSED DISCONNECT SWITCH FOR AIR HANDLER UNIT. CONFIRM FUSE PER MANUFACTURERS NAMEPLATE CONNECT TO CIRCUIT AS SHOWN.

3 KEY NOTES - SECURITY:

- PROVIDE SINGLE GANG JUNCTION BOX AND STAINLESS STEEL COVER PLATE WITH 7/8" HOLE IN CENTER. EXTEND 1" E.C. UP IN WALL TO ABOVE ACCESSIBLE CEILING.
- PROVIDE 4W X 4H X 3D FLUSH JUNCTION BOX WITHOUT COVER-PLATE. EXTEND 2" RIGID CONDUIT UP TO ABOVE ACCESSIBLE OFFICE CEILING AREA. PROVIDE BUSHING ON CONDUIT.
- PROVIDE 4W X 4H X 3" D JUNCTION BOX WITHOUT COVER-PLATE. EXTEND 2" RIGID E.C. UP TO ABOVE ACCESSIBLE OFFICE CEILING AREA. PROVIDE SINGLE-GANG J-BOX ADJACENT WITH 2" RIGID E.C. DOWN THROUGH SLAB AND BELOW GRADE TO REMOTE CAMERA LOCATION. USE ONLY LONG SWEEPS, 3 FEET PER 90 DEGREES. SEE ELECTRICAL SITE PLAN FOR CONTINUATION.
- PROVIDE TWO GANG WEATHER-PROOF JUNCTION BOX AND STAINLESS STEEL PLATE WITH 7/8" HOLE IN CENTER FOR PANIC BUTTON. MOUNT AT APPROXIMATELY 48" AFF. EXTEND 1/2" RIGID CONDUIT OVER TO THE WALL AND THEN UP TO ABOVE ACCESSIBLE CEILING. SEAL PENETRATION AT WIC/WIF CEILING.
- PROVIDE SINGLE GANG BOX WITHOUT COVER PLATE. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING AND TURN TOWARD SERVING AREA SIDE OF WALL.
- PROVIDE SINGLE GANG JUNCTION BOX ON INSIDE FACE OF PARAPET WALL APPROX. 12" BELOW TOP OF PARAPET WALL. EXTEND 1/2" CONDUIT DOWN TO ABOVE ACCESSIBLE OFFICE CEILING.
- EXTEND 3/4" RIGID CONDUIT FROM TOP OF STRIKE-SIDE DOOR FRAME CHANNEL TO ABOVE ACCESSIBLE CEILING.
- EXTEND 1/2" RIGID CONDUIT FROM A POINT 3" WITHIN EITHER HINGE-SIDE DOOR VERTICAL FRAME MULLION TO ABOVE ACCESSIBLE CEILING.
- PROVIDE SINGLE GANG JUNCTION BOX WITHOUT COVER-PLATE. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING AND TURN TOWARD SERVING AREA SIDE OF WALL.
- PROVIDE SINGLE GANG, WEATHER-PROOF JUNCTION BOX WITH STAINLESS STEEL COVER PLATE MOUNTED 18" FROM THE CORNER OF THE SERVICE YARD AND JUST BELOW ROOF DECK MOUNTING BRACKETS. ROUTE 1" EMT CONDUIT FROM THE BOX SURFACE MOUNTED JUST BELOW THE ROOF DECK MOUNTING BRACKETS AND TERMINATE THE CONDUIT AT 627.
- EXTEND 1/2" RIGID CONDUIT FROM A POINT 3" WITHIN STRIKE-SIDE WINDOW FRAME MULLION TO ABOVE ACCESSIBLE CEILING.
- PROVIDE SINGLE GANG, WEATHER-PROOF JUNCTION BOX WITH STAINLESS STEEL COVER PLATE MOUNTED JUST ABOVE THE STRIKE SIDE OF OUTSIDE DOOR ON INSIDE OF SERVICE YARD. ROUTE 1" EMT CONDUIT SURFACE MOUNTED FROM BOX JUST BELOW THE ROOF DECK MOUNTING BRACKETS. TERMINATE CONDUIT IN THE ACCESSIBLE CEILING SPACE INSIDE THE BUILDING.
- NOT USED
- PROVIDE JUNCTION BOX ON THE LATCH SIDE OF THE ROOF ACCESS HATCH WITH 1/2" C ABOVE THE CLG TO THE OFFICE CEILING SPACE FOR A DOOR CONTACT.

4 GENERAL NOTES:

- ALL SECURITY, POS, MUSIC, COMMUNICATIONS, AND POWER ROUGH-IN SHALL BE INSTALLED DURING THE FRAMING/ROUGH-IN PHASE OF CONSTRUCTION.
- REFER TO KITCHEN EQUIPMENT SHEETS FOR EQUIPMENT ELECTRICAL ROUGH-IN ELEVATIONS ABOVE FINISHED FLOOR.
- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRING.
- PROVIDE INSULATED BUSHINGS AT TERMINATION POINTS OF ALL CONDUITS FOR LOW VOLTAGE WIRING.
- THE ELECTRICAL INSTALLER SHALL COORDINATE THE ROUTING OF ALL CONDUIT IN THE BUILDING WITH OTHER TRADES SPECIFICALLY THE DUCTWORK INSTALLATION TO AVOID CONFLICTS OF SPACE REQUIREMENTS IN WALLS AND CEILING SPACES.

5 KEY NOTES - COMMUNICATIONS:

- PROVIDE DOUBLE-GANG RING (CARLON #SC200RR) WITH STAINLESS STEEL COVER PLATE AND HOLE IN PLATE FOR AUDIO WITH 2" CONDUIT UNDERGROUND TO THE DT DUAL-LANE MLOP ORDERING AREA AND A 2" CONDUIT STUBBED UP INTO THE CEILING SPACE.
- PROVIDE JUNCTION BOX, LESS COVER PLATE, AND EXTEND 3/4" E.C. UP IN WALL TO ABOVE CEILING FOR INSTALLATION OF WIRELESS COMMUNICATION CONTROL UNIT.
- PROVIDE TWO DOUBLE-GANG RINGS (CARLON #SC200RR) WITH STAINLESS STEEL COVER PLATE AND HOLE IN PLATE FOR AUDIO WITH 2" CONDUIT STUBBED UP INTO THE CEILING SPACE. ONE RING SHALL BE ABOVE THE COUNTER AND ONE BELOW WITH A 2" CONDUIT BETWEEN THE RINGS.
- PROVIDE SINGLE-GANG JUNCTION BOX WITH 1" EMPTY CONDUIT STUBBED UP INTO THE ACCESSIBLE CEILING SPACE FOR OWNERS' VOIP PHONE JACK AND CABLES.
- PROVIDE TWO 6x6x1/2" J-BOX (ONE FOR TELEPHONE AND ONE FOR ISP) AT 6'-6" AFF AND EXTEND A 2" CONDUIT WITH PULL STRING IN THE WALL FROM EACH J-BOX INTO THE ACCESSIBLE CEILING SPACE. PROVIDE A 36x36x1/2" PLYWOOD BACKBOARD ON THE WALL ABOVE THE J-BOXES (AT THE CEILING) FOR USE BY THE ISP. PROVIDE A COPPER GROUND BAR AT THE BOTTOM OF THE BACKBOARD WITH #6 AWG INSULATED CU GROUNDING CONDUCTOR IN A 3/4" FROM THE GROUND BAR TO THE BUILDING'S ELECTRICAL SERVICE GROUNDING ELECTRODE SYSTEM (GES). THE GROUND BAR SHALL HAVE TAPS FOR USE BY THE TELEPHONE AND ISP UTILITY COMPANIES AND FOR THE 46 COMMUNICATIONS GROUNDING CONDUCTOR TO THE GES. PROVIDE A 15 AMP ISOLATED GROUND (IG) ORANGE-FACED DUPLEX RECEPTACLE IN THE WALL BESIDE THE BACKBOARD. CONNECT TO CIRCUIT POS-12 (ISA/TP BRANCH BREAKER) AND LABEL THE RECEPTACLE FOR FIBER TO CABLE MODEM USE ONLY.

6 CO2 DETECTOR NOTES:

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

7 KEY NOTES - MUSIC:

- PROVIDE JUNCTION BOX WITH STAINLESS STEEL COVER PLATE AND 3/4" HOLE IN PLATE WITH GROMMET ON HOLE IN PLATE. EXTEND 3/4" E.C. UP IN WALL TO ABOVE CEILING FOR MUSIC SYSTEM.
- PROVIDE JUNCTION BOX WITH STAINLESS STEEL COVER PLATE AND 3/4" HOLE IN PLATE WITH GROMMET ON HOLE IN PLATE. EXTEND 3/4" E.C. UP IN WALL TO PARAPET WALL FOR THE SATELLITE DISH.
- PROVIDE THREE SINGLE GANG EXTRA DEEP J-BOXES AT 74" AFF WITH 1/2" CONDUIT FROM EACH TO THE CENTER BOX AND A 1" CONDUIT STUBBED INTO THE CEILING SPACE. FOR MUSIC SYSTEM VOLUME CONTROLS.
- PROVIDE A SINGLE GANG EXTRA DEEP JUNCTION BOX AT 74" AFF WITH 1/2" CONDUIT STUBBED INTO THE CEILING SPACE. FOR MUSIC SYSTEM VOLUME CONTROLS.

8 KEY NOTES - POS SYSTEM:

- PROVIDE A 'RETROFIT' DOUBLE-GANG RING (CARLON #SC200RR) FOR OWNERS' DEVICE PLATE WITH A 3" EMPTY CONDUIT AT THE OPENING IN THE WALL UP TO THE CEILING SPACE FOR OWNERS' DATA CABLES.
- PROVIDE JUNCTION BOX FOR TERMINATION OF 1" CONDUIT. PROVIDE 1" CONDUIT EXTENDING FROM CEILING AND TERMINATED AT JUNCTION BOX ON THE SERVING AREA SIDE OF THE WALL. COVER PLATE PROVIDED BY OWNERS POS SYSTEM VENDOR.
- PROVIDE A 2" CONDUIT FROM FACE OF WALL AND EXTEND CONDUIT TO JUNCTION BOX IN CEILING SPACE ABOVE SERVING AREA. CONDUIT SHALL TERMINATE FLUSH WITH FACE OF WALL BELOW COUNTER. CUSTOM STAINLESS STEEL COVER PLATE IN WALL WITH GROMMET ON 2" DIAMETER HOLE AT CONDUIT TERMINATION IN WALL.
- PROVIDE A 'RETROFIT' SINGLE GANG RING (CARLON #SC100RR) FOR OWNERS' DEVICE PLATE WITH A 2" EMPTY CONDUIT AT THE OPENING IN THE WALL UP TO THE CEILING SPACE FOR OWNERS' DATA CABLES.
- PROVIDE JUNCTION BOX FOR TERMINATION OF 1" CONDUIT. PROVIDE 1" CONDUIT EXTENDING FROM CEILING AND TERMINATED AT JUNCTION BOX ON THE SERVING AREA SIDE OF THE WALL. POS SYSTEM SUPPLIER WILL PROVIDE COVER PLATE ON BOX.
- PROVIDE SINGLE GANG EXTRA DEEP JUNCTION BOX MOUNTED ON THE MOUNTING PLATE WITHIN THE FRONT SERVING COUNTER CASEWORK.
- PROVIDE SINGLE GANG EXTRA DEEP JUNCTION BOX MOUNTED FLUSH MOUNTED IN THE CEILING FOR POS DATA PLATE (BY OTHERS) FOR THE SALAD PREP AREA POS MONITOR AND PRINTER



Chick-fil-A

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
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INTERPLAN
INTERPLAN LLC

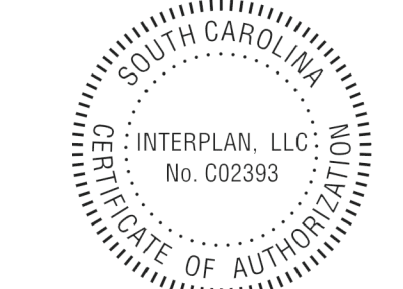
ARCHITECTURE
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SEAL:



CORPORATE SEAL:



CHICK-FIL-A
CENTRE POINTE FSU
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NORTH CHARLESTON, SC 29418

FSR#01936

BUILDING TYPE / SIZE: 506-C-R
RELEASE: 2023-004

PRINTED FOR: CONSTRUCTION

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
1	11/23/24	CONSTRUCTION
2		UPDATES

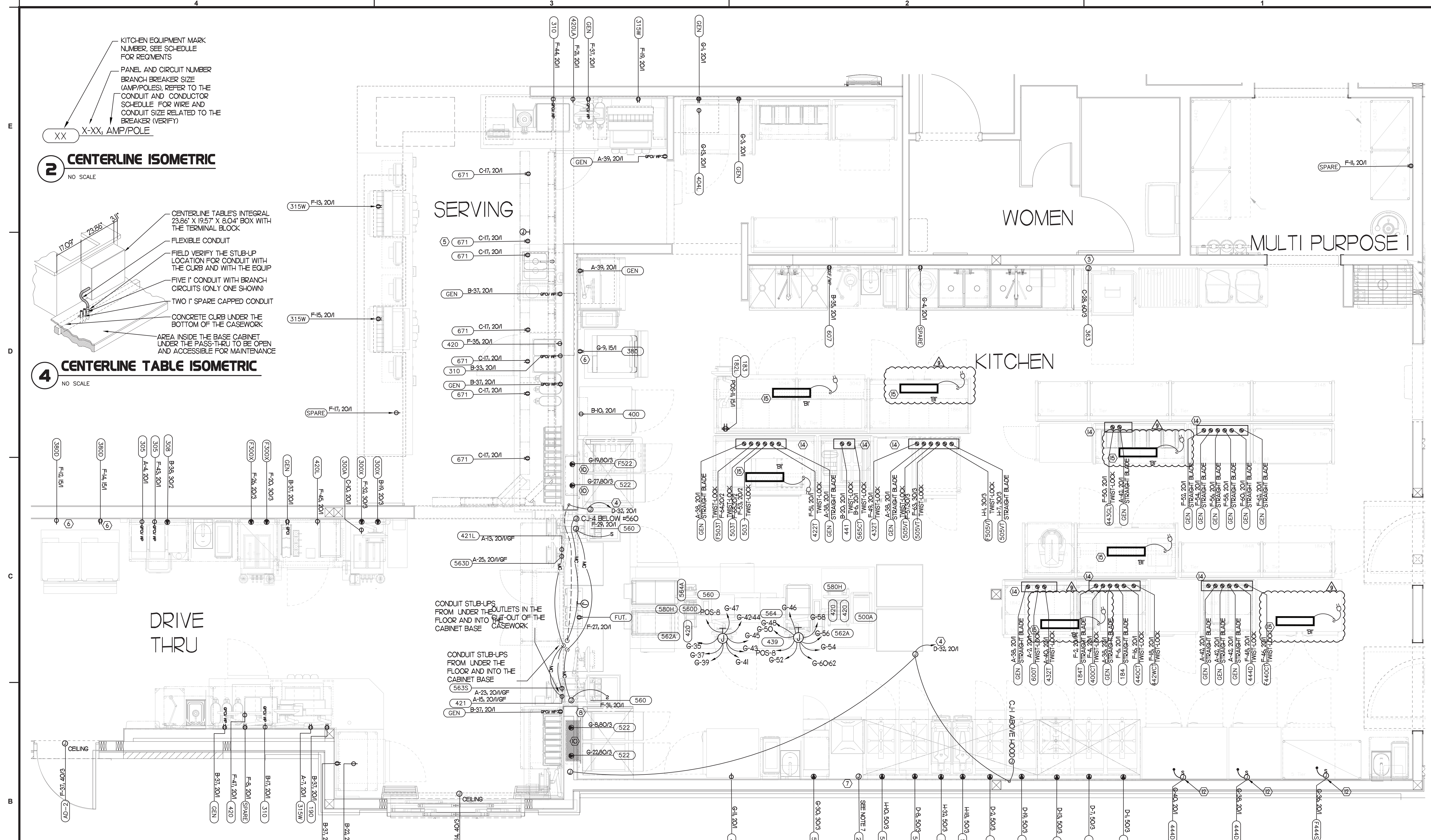
CONSULTANT PROJECT # 2022.0771
DATE 03/13/23
DRAWN BY RZ
CHECKED BY M/S/N

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ENLARGED POWER PLAN

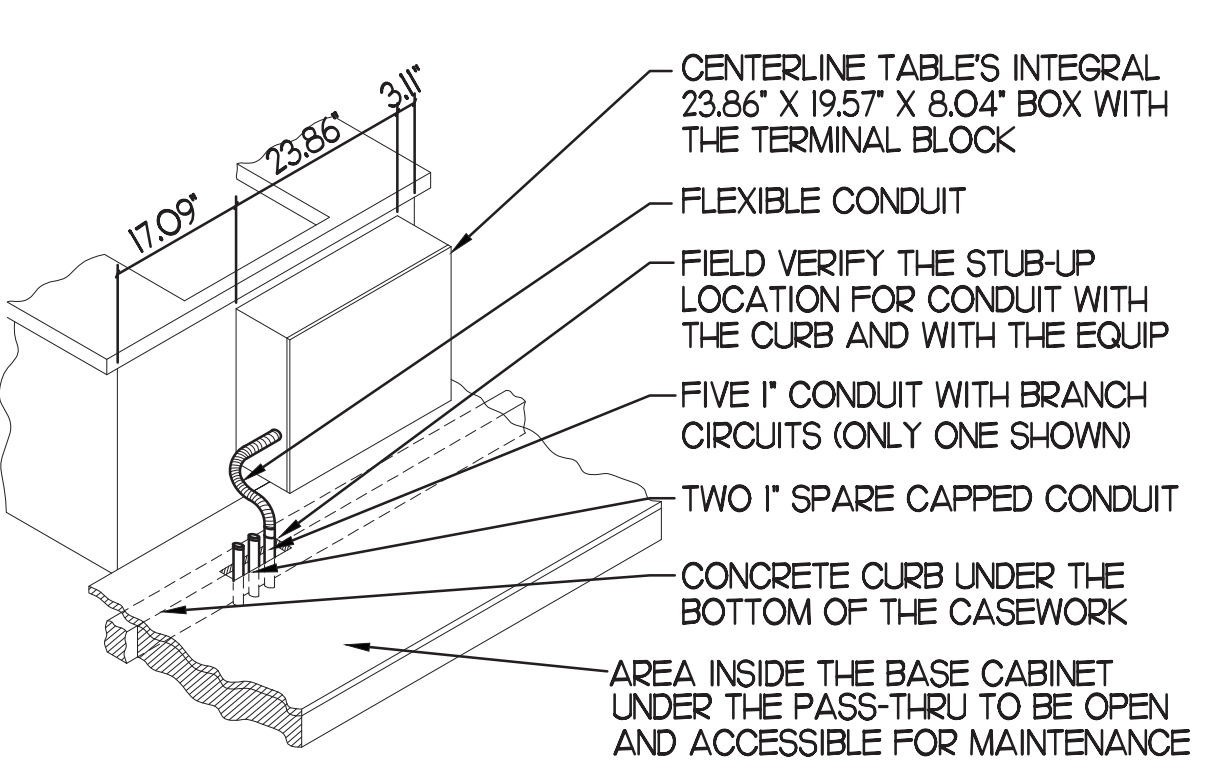
SHEET NUMBER

E2.4

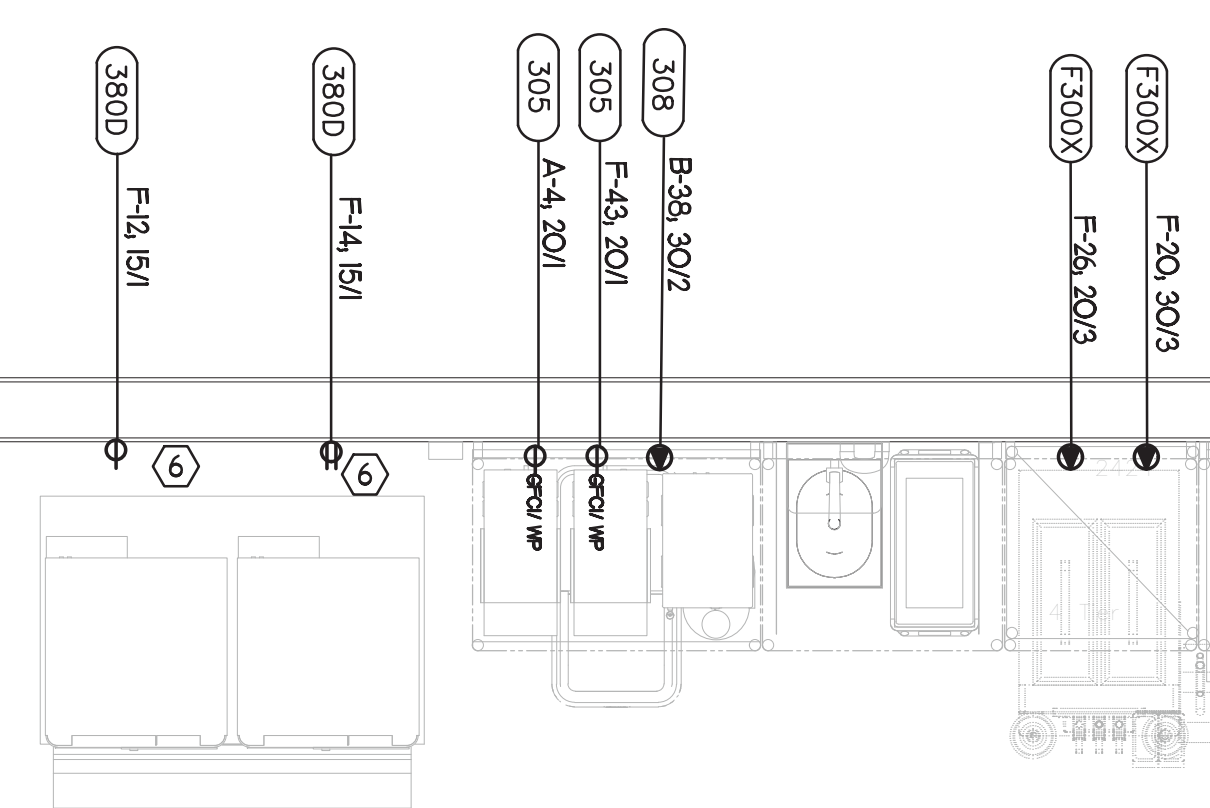


KITCHEN EQUIPMENT MARK NUMBER, SEE SCHEDULE FOR REQUIREMENTS
PANEL AND CIRCUIT NUMBER, BRANCH BREAKER SIZE (AMP/POLES), REFER TO THE CONDUIT AND CONDUCTOR SCHEDULE FOR WIRE AND CONDUIT SIZE RELATED TO THE BREAKER (VERIFY)
XX X-XX, AMP/POLE

2 CENTERLINE ISOMETRIC
NO SCALE



4 CENTERLINE TABLE ISOMETRIC
NO SCALE



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

3 KEY NOTES - POWER:

- (1) NOT USED
- (2) NOT USED
- (3) PROVIDE IN-SIGHT DISCONNECT SWITCH IF REQUIRED BY ALL OTHERWISE PROVIDE PAD-LOCKING DEVICE ON BRANCH BREAKER
- (4) CONNECT AS REQUIRED TO C/J FAN VIA SPEED CONTROLLER. CONNECT HOMERUN VIA RELAY IN "T-500" CONTROL SECTION
- (5) ROUTE THROUGH LIGHTING CONTROL SWITCH-BANK "SB", CONTROLLED BY SWITCHED "T". REFER TO SHEET E-21
- (6) SEE SHEET E23, ROOF ELECTRICAL PLAN FOR THE LOCATION OF THE ICE MACHINE'S CONDENSER AND ADDITIONAL REQUIREMENTS
- (7) PROVIDE 3#12 IN 1/2" CONDUIT BETWEEN THE T-500 CONTROL PANEL AND THE ANSLU SYSTEM PANEL
- (8) PROVIDE GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE RECEPTACLE IN COMPLIANCE WITH THE NEC REQUIREMENT FOR KITCHENS, IF NOT NOTED AS GFCI, THEN THE BREAKER IS TO BE GFCI TYPE
- (9) NOT USED
- (10) THE OUTLETS FOR THE OPEN FRYSERS (ITEM #522) ARE FURNISHED BY THE EXHAUST HOOD SUPPLIER AND INSTALLED BY THE CONTRACTOR.
- (11) NOT USED
- (12) LOCKABLE SINGLE POLE SWITCH SHALL SERVE AS THE LOCAL "IN-SIGHT" MEANS OF DISCONNECT FOR EQUIPMENT ITEM AS NOTED. THE SWITCH SHALL BE COOPER #S2983 AND INSTALLED PER THE DETAILS ON SHEET E12
- (13) NOT USED
- (14) OVER-HEAD EQUIPMENT POWER (OEP) DROP CORD RECEPTACLES FROM A FLUSH MOUNTED CEILING OEP BOX. PROVIDE A-C-S OEP ASSEMBLY #12360-1000. ASSEMBLY WILL CONSIST OF A FLUSH CEILING OUTLET BOX, TWIST-LOCK PENDANT RECEPTACLES, STRAIGHT BLADE PENDANT RECEPTACLES, CORDS, STRAIN RELIEF, AND TWIST-LOCK PLUGS. CONTACT MR. JIM JACOBSON AT A-C-S AT 800-639-7584 TO PURCHASE OEP BOX AND DROP CORD RECEPTACLES. PROVIDE LIQUID-TIGHT CONDUIT WITH CONDUCTORS FOR DIRECT CONNECTED EQUIPMENT. CONDUIT SHALL NOT TOUCH THE FLOOR WHEN EQUIPMENT IS IN PLACE. USE SUPPORT GRIPS W/ SUPPORT HOOK ATTACHED TO SHELVING ABOVE AS NEEDED. PASS 5/8" MOLUR MODEL #FS075-LJ-S-B OR EQUIVALENT. PROVIDE A TYPE B LIGHT FIXTURE. MOUNT LIGHT TO THE UNDERSIDE OF THE WIRE SHELVING. PROVIDE A CORD FROM THE FIXTURE(S) TO A SWITCH IN AN FS BOX MOUNTED TO THE SHELF. FROM FS BOX PROVIDE AN SO CORD WITH PLUG AND CONNECT TO THE GEN RECEPTACLE (WALL OR DROP CORD).

ALL 125-VOLT THROUGH 250-VOLT RECEPTACLES SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 50 AMPERES OR LESS, AND ALL RECEPTACLES SUPPLIED BY THREE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 100 AMPERES OR LESS, INSTALLED IN THE LOCATIONS SPECIFIED IN 210.8(B)(1) THROUGH (B)(12) SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL.

NOTE THAT THE ISOLATED GROUNDING TYPE RECEPTACLES AND CLOCK TYPE RECEPTACLES LOCATED IN THE KITCHEN/SERVING AREA SHALL BE PROTECTED BY GROUND FAULT TYPE CIRCUIT BREAKERS RATHER THAN GROUND FAULT TYPE RECEPTACLES SINCE THESE RECEPTACLES ARE NOT AVAILABLE AS GROUND-FAULT TYPE RECEPTACLES. GFCI BREAKERS REQUIRE A DEDICATED NEUTRAL (NOT SHARED) TO OPERATE PROPERLY.

REFER TO THE KITCHEN ELEVATIONS FOR THE ROUGH-IN HEIGHT

NOTE: REFER TO SHEET E22 FOR KEYNOTES FOR SECURITY ("S"), COMMUNICATIONS ("C"), MUSIC ("M"), AND POS DATA SYSTEM ("R") IN THE OFFICE/MP ROOM AREA.

OKT	LOAD SERVED	COND	PHASE	NEUT	Ø	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	Ø	LOAD SERVED	OKT
1	TELEPHONE (1" V) 1/2"	#12	#12	#12	20/1	R	1176				K	20/1	1/2"	#12	#12	#12	FLOOR MGR	2
3	OFFICE COPIER MISC. 1/2"	#12	#12	#12	20/1	R	1275				K	20/1	1/2"	#12	#12	#12	10A BREAKER	4
5	OFF GEN. PRINTERS 1/2"	#12	#12	#12	20/1	R	1176				K	20/1	1/2"	#12	#12	#12	GENERAL OUTLETS	6
7	FOUR DRINK TOWERS 1/2"	#12	#12	#12	20/1	R	720				K	20/1	1/2"	#12	#12	#12	WATER HEATER	8
9	GENERAL OUTLETS 1/2"	#12	#12	#12	20/1	R	1425				K	20/1	1/2"	#12	#12	#12	POS	10
11	GENERAL OUTLETS 1/2"	#12	#12	#12	20/1	R	1425				K	20/1	1/2"	#12	#12	#12	FLAY AREA OUTLET	12
13	TWO ICE REFRIG. 1/2"	#12	#12	#12	20/1	R	720				K	20/1	1/2"	#12	#12	#12	OFF-2	14
15	WATER REFRIG. 1/2"	#12	#12	#12	20/1	R	720				K	20/1	1/2"	#12	#12	#12	SECURITY SYSTEM	16
17	WALL HEATER 1/2"	#12	#12	#12	20/2	M	720				K	15/3	1/2"	#12	#12	#12	WALK-IN COOLER CONDENSER	18
19	"	#12	#12	#12	20/1	R	720				K	20/1	1/2"	#12	#12	#12	"	20
21	"	#12	#12	#12	20/1	R	720				K	20/1	1/2"	#12	#12	#12	"	22
23	SANDWICH SLIDE 1/2"	#12	#12	#12	20/1	R	1000				K	20/1	1/2"	#12	#12	#12	"	24
25	SANDWICH SLIDE 1/2"	#12	#12	#12	20/1	R	1000				K	20/1	1/2"	#12	#12	#12	FREZZER CONDENSER	26
27	CARBONATOR 1/2"	#12	#12	#12	20/1	R	1000				K	20/1	1/2"	#12	#12	#12	"	28
29	CARBONATOR 1/2"	#12	#12	#12	20/1	R	1000				K	20/1	1/2"	#12	#12	#12	"	30
31	CARBONATOR 1/2"	#12	#12	#12	20/1	R	1000				K	20/1	1/2"	#12	#12	#12	"	32
33	CARBONATOR 1/2"	#12	#12	#12	20/1	R	1000				K	20/1	1/2"	#12	#12	#12	"	34
35	BOOSTER PUMP 1/2"	#12	#12	#12	20/2	K	1200				K	20/1	1/2"	#12	#12	#12	FREZZER HEAT TAPE	36
37	"	#12	#12	#12	20/1	R	1200				K	20/1	1/2"	#12	#12	#12	DROP CORD OUTLET	38
39	EMPLOYEE AREA OUTLETS (E) 1/2"	#12	#12	#12	20/1	R	1200				K	20/1	1/2"	#12	#12	#12	DROP CORD OUTLET	40
41	EMPLOYEE AREA OUTLETS (E) 1/2"	#12	#12	#12	20/1	R	1200				K	20/1	1/2"	#12	#12	#12	DROP CORD OUTLET	42

OKT	LOAD SERVED	COND	PHASE	NEUT	Ø	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	Ø	LOAD SERVED	OKT
1	KITCHEN LIG.	1/2"	#12	#12	#12	20/1	L	1425			K	20/1	1/2"	#12	#12	#12	BUILDING SIGNAGE	2
3	KITCHEN LIG.	1/2"	#12	#12	#12	20/1	L	1425			K	20/1	1/2"	#12	#12	#12	BUILDING SIGNAGE	4
5	RESTROOM LIG.	1/2"	#12	#12	#12	20/1	L	1425			K	20/1	1/2"	#12	#12	#12	"	6
7	DINING LIG.	1/2"	#12	#12	#12	20/1	L	1425			K	20/1	1/2"	#12	#12	#12	AUDIO SPEAKER OUTLET	8
9	DINING LIG.	1/2"	#12	#12	#12	20/1	L	1425			K	20/1	1/2"	#12	#12	#12	MULTISWAGE	10
11	DINING AREA LIG.	1/2"	#12	#12	#12	20/1	L	1425			K	20/1	1/2"	#12	#12	#12	SECURITY / FLAHOPE LIG.	12
13	DINING AREA LIG.	1/2"	#12	#12	#12	20/1	L	1425			K	20/1	1/2"	#12	#12	#12	"	14
15	SERVICE AREA LIG.	1/2"	#12	#12	#12	20/1	L	1425			K	20/1	1/2"	#12	#12	#12	"	16
17	WEND BOARD 1/2"	#12	#12	#12	20/1	L	1425				K	20/1	1/2"	#12	#12	#12	BLDG EXTERIOR LIG.	18
19	DIRECTIONAL SIGN 1/2"	#12	#12	#12	20/1	L	1425				K	20/1	1/2"	#12	#12	#12	BLDG EXTERIOR LIG.	20
21	PARKING LOT LIG.	1/2"	#12	#12	#12	20/1	L	1425			K	20/1	1/2"	#12	#12	#12	BLDG EXTERIOR LIG.	22
23	PARKING LOT LIG.	1/2"	#12	#12	#12	20/1	L	1425			K	20/1	1/2"	#12	#12	#12	BLDG EXTERIOR LIG.	24
25	PARKING LOT LIG.	1/2"	#12	#12	#12	20/1	L	1425			K	20/1	1/2"	#12	#12	#12	"	26
27	PARKING LOT LIG.	1/2"	#12	#12	#12	20/1	L	1425			K	20/1	1/2"	#12	#12	#12	"	28
29	WEND BOARD 1/2"	#12	#12	#12	20/1	L	1425				K	20/1	1/2"	#12	#12	#12	"	30
31	WEND BOARD 1/2"	#12	#12	#12	20/1	L	1425				K	20/1	1/2"	#12	#12	#12	"	32
33	WEND BOARD 1/2"	#12	#12	#12	20/1	L	1425				K	20/1	1/2"	#12	#12	#12	CANOPY FANS	34
35	FRONT COOLER LIG.	1/2"	#12	#12	#12	20/1	L	1425			K	20/1	1/2"	#12	#12	#12	"	36
37	MAN ID SIGN 1/2"	#12	#12	#12	20/1	L	1425				K	20/1	1/2"	#12	#12	#12	DRIVE-THRU CANOPY	38
39	MAN ID SIGN 1/2"	#12	#12	#12	20/1	L	1425				K	20/1	1/2"	#12	#12	#12	BUILDING SIGNAGE	40
41	MAN ID SIGN 1/2"	#12	#12	#12	20/1	L	1425				K	20/1	1/2"	#12	#12	#12	BUILDING SIGNAGE	42

OKT	LOAD SERVED	COND	PHASE	NEUT	Ø	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	Ø	LOAD SERVED	OKT
1	ICE MAKER 1/2"	#12	#12	#12	20/1	R	1887				K	20/1	1/2"	#12	#12	#12	IPAD	2
3	"	#12	#12	#12	20/1	R	1887				K	20/1	1/2"	#12	#12	#12	FREZZER	4
5	"	#12	#12	#12	20/1	R	1887				K	20/1	1/2"	#12	#12	#12	IPAD	6
7	CARBONATOR 1/2"	#12	#12	#12	20/1	R	800				K	20/1	1/2"	#12	#12	#12	FUTURE EQUIPMENT	8
9	FREZZER 1/2"	#12	#12	#12	20/1	R	800				K	20/1	1/2"	#12	#12	#12	CASH REGISTER	10
11	DR FR 1/2"	#12	#12	#12	20/1	R	800				K	15/1	1/2"	#12	#12	#12	ICE MAKER	12
13	DRINK STATION 1/2"	#12	#12	#12	20/1	R	1200				K	15/1	1/2"	#12	#12	#12	ICE MAKER	14
15	DRINK STATION 1/2"	#12	#12	#12	20/1	R	1200				K	20/1	1/2"	#12	#12	#12	UC REFRIG.	16
17	FUTURE EQUIPMENT 1/2"	#12	#12	#12	20/1	R	800				K	20/1	1/2"	#12	#12	#12	UC REFRIG.	18
19	DRINK STATION 1/2"	#12	#12	#12	20/1	R	1200				K	20/1	1/2"	#12	#12	#12	FUTURE ICE CREAM MACHINE	20
21	UC REFRIG. 1/2"	#12	#12	#12	20/1	R	800				K	20/1	1/2"	#12	#12	#12	"	22
23	FUTURE EQUIPMENT 1/2"	#12	#12	#12	20/1	R	800				K	20/1	1/2"	#12	#12	#12	"	24
25	GEN OUTLET 1/2"	#12	#12	#12	20/1	R	800				K	20/3	1/2"	#12	#12	#12	FUTURE ICE CREAM MACHINE	26
27	FUTURE EQUIPMENT 1/2"	#12	#12	#12	20/1	R	800				K	20/1	1/2"	#12	#12	#12	"	28
29	HOLDING CABINET TABLE 1/2"	#12	#12	#12	20/1	R	800				K	20/1	1/2"	#12	#12	#12	"	30
31	HOLDING CABINET TABLE 1/2"	#12	#12	#12	20/1	R	800				K	20/1	1/2"	#12	#12	#12	ICE CREAM MACHINE	32
33	FUTURE EQUIPMENT 1/2"	#12	#12	#12	20/1	R	800				K	20/1	1/2"	#12	#12	#12	"	34
35	UC REFRIG. 1/2"	#12	#12	#12	20/1	R	800				K	20/1	1/2"	#12	#12	#12	"	36
L 37	AD-2 3/4"	#6	#6	#6	10/3	M	1380				K	20/2	1/2"	#12	#12	#12	PANEL "B"	38
39	"	#6	#6	#6	10/3	M	1380				K	20/2	1/2"	#12	#12	#12	"	40
41	"	#6	#6	#6	10/3	M	1380				K	20/2	1/2"	#12	#12	#12	"	42
B 43	TEA BREWER 1/2"	#12	#12	#12	20/1	R	1200				K	20/1	1/2"	#12	#12	#12	JUICE DISPENSER	44
B 45	UC REFRIG. 1/2"	#12	#12	#12	20/1	R	800				K	20/1	1/2"	#12	#12	#12	REFRIGERATOR	46
B 47	UC REFRIG. 1/2"	#12	#12	#12	20/1	R	800				K	20/1	1/2"	#12	#12	#12	THAWING CABINET	48
B 49	UC REFRIG. 1/2"	#12	#12	#12	20/1	R	800				K	20/1	1/2"	#12	#12	#12	REFRIGERATOR	50
B 51	UC REFRIG. 1/2"	#12	#12	#12	20/1	R	800				K	20/1	1/2"	#12	#12	#12	TMS	52
B 53	EGG STATION 1/2"	#12	#12	#12	20/2	K	1200				K	20/1	1/2"	#12	#12	#12	TMS	54
B 55	UC REFRIG. 1/2"	#12	#12	#12	20/1	R	800				K	20/1	1/2"	#12	#12	#12	TMS	56
B 57	VECTOR OVEN 1/2"	#10	#10	#10	30/3	K	2833				K	20/1	1/2"	#12	#12	#12	TMS	58
59	"	#10	#10	#10	30/3	K	2833				K	20/1	1/2"	#12	#12	#12	TMS	60
61	"	#10	#10	#10	30/3	K	2833				K	20/1	1/2"	#12	#12	#12	TMS	62
B 63	VECTOR OVEN 1/2"	#10	#10	#10	30/3	K	2833				K	20/2	1/2"	#12	#12	#12	EGG STATION	64
65	"	#10	#10	#10	30/3	K	2833				K	20/2	1/2"	#12	#12	#12	"	66
67	"	#10	#10	#10	30/3	K	2833				K	20/2	1/2"	#12	#12	#12	"	68
B 69	FUTURE EQUIPMENT 1/2"	#12	#12	#12	20/1	R	1200				K	20/1	1/2"	#12	#12	#12	"	70
71	"	#12	#12	#12	20/1	R	1200				K	20/1	1/2"	#12	#12	#12	EXTERIOR REC.	72

NOTE: BRANCH CIRCUIT ASSIGNMENTS ARE BASED ON EXISTING DATA MARKED ON PANEL SCHEDULE AND ARE SUBJECT TO FIELD VERIFICATION. THIS CONTRACTOR SHALL PROVIDE NEW ACCURATE TYPEWRITTEN SCHEDULES FOR PANELS. SHADED CIRCUITS DENOTE EXISTING TO REMAIN

PANEL BOARD NOTES:
A. ALL SINGLE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR THREE, 100 AMPERES OR LESS INSTALLED IN THE FOLLOWING LOCATIONS SPECIFIED IN NEC ART. 210.8 (B)(1) - (8) SHALL HAVE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION. NOTE THAT THE ISOLATED GROUNDING TYPE RECEPTACLES AND CLOCK TYPE RECEPTACLES LOCATED IN THE KITCHEN/SERVING AREA SHALL BE PROTECTED BY GROUND FAULT TYPE CIRCUIT BREAKERS RATHER THAN GROUND FAULT TYPE RECEPTACLES SINCE THESE RECEPTACLES ARE NOT AVAILABLE AS GROUND-FAULT TYPE RECEPTACLES. GFCI BREAKERS REQUIRE A DEDICATED NEUTRAL (NOT SHARED) TO OPERATE PROPERLY.
B. GFCI TYPE BREAKER TO BE 5MA TYPE BREAKER.
C. GFCI TYPE BREAKER TO BE 30MA TYPE BREAKER.
D. CONTROLLED BY INTERIOR LIGHTING RELAYS IN CONTROL PANEL T-500. LIGHTS SHALL TURN ON WHEN STORE IS OCCUPIED.
E. CONTROLLED BY PARKING LOT LIGHTING CONTROL SWITCH.
F. CONTROLLED BY EXTERIOR LIGHTING RELAY-DUSK TO DAWN ZONE.
G. CONTROLLED BY INTERIOR LIGHTING RELAYS IN CONTROL PANEL T-500. LIGHTS SHALL TURN ON WHEN STORE IS OCCUPIED.
SB. THRU (I) SB6100-020-0 GFCI PROTECTION DEVICE IN SB6000 PANEL ENCLOSURE OR (I) SB6100-021-0 GFCI PROTECTION DEVICE.
L. LOCKABLE BREAKER.

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OKT	LOAD SERVED	COND	PHASE	NEUT	Ø	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	Ø	LOAD SERVED	OKT
1	ICE MAKER 1/2"	#12	#12	#12	20/1	R	2000				K	20/1	1/2"	#12	#12	#12	REFUSE ENCLOSURE	2
3	"	#12	#12	#12	20/													

SECTION C16100
ELECTRICAL GENERAL PROVISIONS

PART 1 - GENERAL

1.01 WORK INCLUDED

A. Provide all materials, labor and equipment required to furnish and install a complete electrical system as indicated on drawings and as specified herein.

1.02 REGULATORY REQUIREMENTS

A. Equipment furnished shall be UL listed where such label is available. Installation shall conform to UL standards where applicable.
B. Electrical work shall be installed in accordance with drawings and specifications, NEC and NFPA codes in effect at project location, state and local electrical and building codes and special codes having jurisdiction over specific portions within complete installation.
C. 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 Carlon, schedule 40, 90 degrees C. rated, unless otherwise noted.

C. MC cable shall be manufactured by AFC Cable Systems or approved equal. Type "AC-90" is not allowed. All MC Cables shall have a green equipment ground conductor and 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.
B. Provide 1/4-inch nylon pull rope in all primary power and incoming telephone service entrance conduits.

C. PVC conduit shall convert to galvanized rigid metal per detail on drawings.

2.04 FLEXIBLE METAL CONDUIT
A. Where fittings for liquid tight flexible conduit are brought into an enclosure with a knock-out, a gasket assembly, consisting of one piece "O" ring, with Buna-N sealing material, series 3400, shall be installed on outside of box. Fittings shall be made of either steel or malleable iron only, and shall have insulated throats or insulated bushings.

B. In dry locations, where final connections to motors and other equipment may be made with Flexible Metal Conduit, fittings shall be of steel or malleable iron only with insulated throats or insulated bushings, and shall be of wedge and screw type having an angular wedge fitting between convolutions of conduit.

C. PVC conduit shall convert to galvanized rigid metal per detail on drawings.

2.05 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.

2.06 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.

2.07 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.

2.08 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.

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.

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.
B. 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.
C. 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.
D. Provide pull box every 100 feet of conduit run or where excessive number of bends necessitates a box for ease of wire installation.

SECTION C16122
OUTLET AND JUNCTION BOXES

PART 1 - GENERAL

1.01 PROJECT CONDITIONS
A. Verify field measurements are as shown on drawings.
B. Verify locations of floor boxes and outlets in work areas prior to rough-in.

PART 2 - PRODUCTS

2.01 OUTLET BOXES

A. Sheet metal outlet boxes: galvanized steel.
B. Cast boxes: type FS, cast ferrolloy, Provide gasketed cover by box manufacturer.

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

E. Outlet boxes for lighting, switches and receptacles in interior areas with exposed conduit shall be pressed steel and in exterior areas with exposed conduit shall be cast metal with threaded hubs, "FS" type. Use galvanized steel for concealed boxes. Boxes shall be 1-1/2" deep minimum.

2.02 PULL AND JUNCTION BOXES
A. Sheet metal boxes: galvanized steel.
B. Surface-mounted cast metal box: type 4; flat-flanged, surface-mounted junction box.
1. Material: galvanized cast iron.
2. Cover: furnish with ground flange, neoprene gasket, and stainless steel cover screws.
C. In-ground cast metal box: inside flanged, recessed cover box for flush mounting.
1. Material: galvanized cast iron.
2. Cover: nonskid cover with neoprene gasket and stainless steel cover screws.
3. Cover legend: electric.

D. Manufacturers: National, Appleton, General Electric, RACO, Oz-Gedney or Steel City.

2.03 FLEXIBLE METAL CONDUIT
A. Where fittings for liquid tight flexible conduit are brought into an enclosure with a knock-out, a gasket assembly, consisting of one piece "O" ring, with Buna-N sealing material, series 3400, shall be installed on outside of box. Fittings shall be made of either steel or malleable iron only, and shall have insulated throats or insulated bushings.
B. In dry locations, where final connections to motors and other equipment may be made with Flexible Metal Conduit, fittings shall be of steel or malleable iron only with insulated throats or insulated bushings, and shall be of wedge and screw type having an angular wedge fitting between convolutions of conduit.

2.04 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.

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A. Use PVC raceway for:
1. Underground service entrance conduits for telephone and power.
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A. Use Rigid Steel Conduit for:
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2.07 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.

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.
B. 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.
C. 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.
D. Provide pull box every 100 feet of conduit run or where excessive number of bends necessitates a box for ease of wire installation.

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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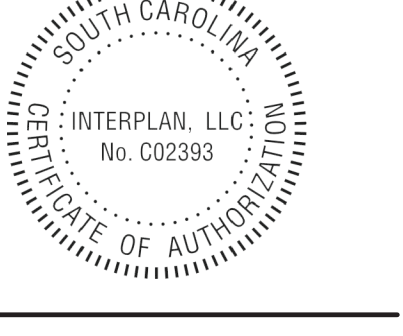
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CORPORATE SEAL:



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FSR#01936

BUILDING TYPE / SIZE: S06-C-R
RELEASE: 2023-004

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CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 2022.0771
DATE 03/13/23
DRAWN BY RZ
CHECKED BY M/JSN

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SHEET ELECTRICAL SPECIFICATIONS

SHEET NUMBER

E4.1