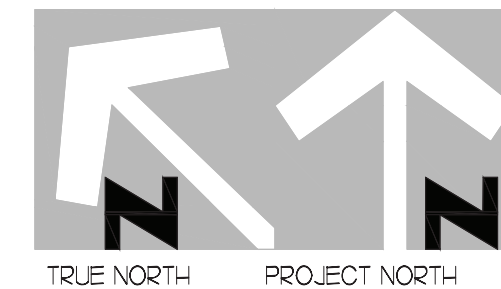


1 BELOW SLAB PLUMBING PLAN
SCALE: 1/4"=1'-0"



PLUMBING KEY NOTES

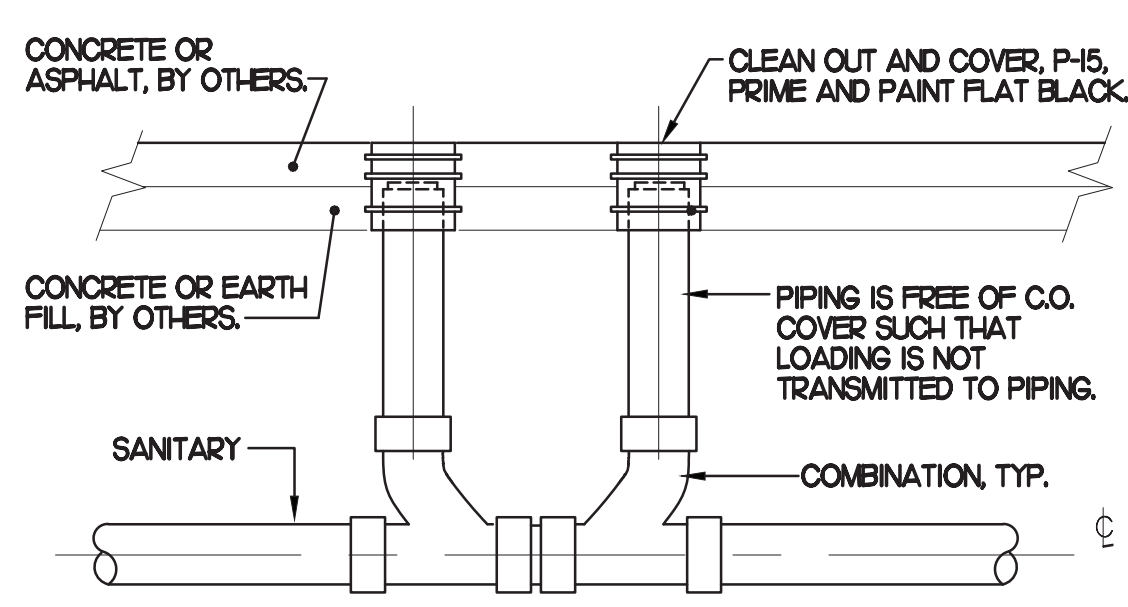
- 1 NEW P-19 WATER HEATER
- 2 PROVIDE NEW 2" VENT IN WALL. MAKE FINAL PLUMBING MODIFICATIONS.
- 3 CONNECT NEW RESTROOM FIXTURE TO EXISTING SANITARY WASTE LINE.
- 4 CONNECT TO EXISTING WASTE LINE AS INDICATED, VERIFY FALL, FLOW DIRECTION AND CONNECTING INVERTS.
- 5 GENERAL CONTRACTOR TO CHECK EXISTING 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 FIRE SPRINKLER LINE. SPRINKLER PIPING SHOWN ONLY FOR REFERENCE AND COORDINATION OF SPRINKLER RISER LOCATION. COORDINATE INSTALLATION WITH FIRE SPRINKLER CONTRACTOR AND SITE UTILITY CONTRACTOR.

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 I/PSJ FOR VENT LAYOUT.

LEGEND

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



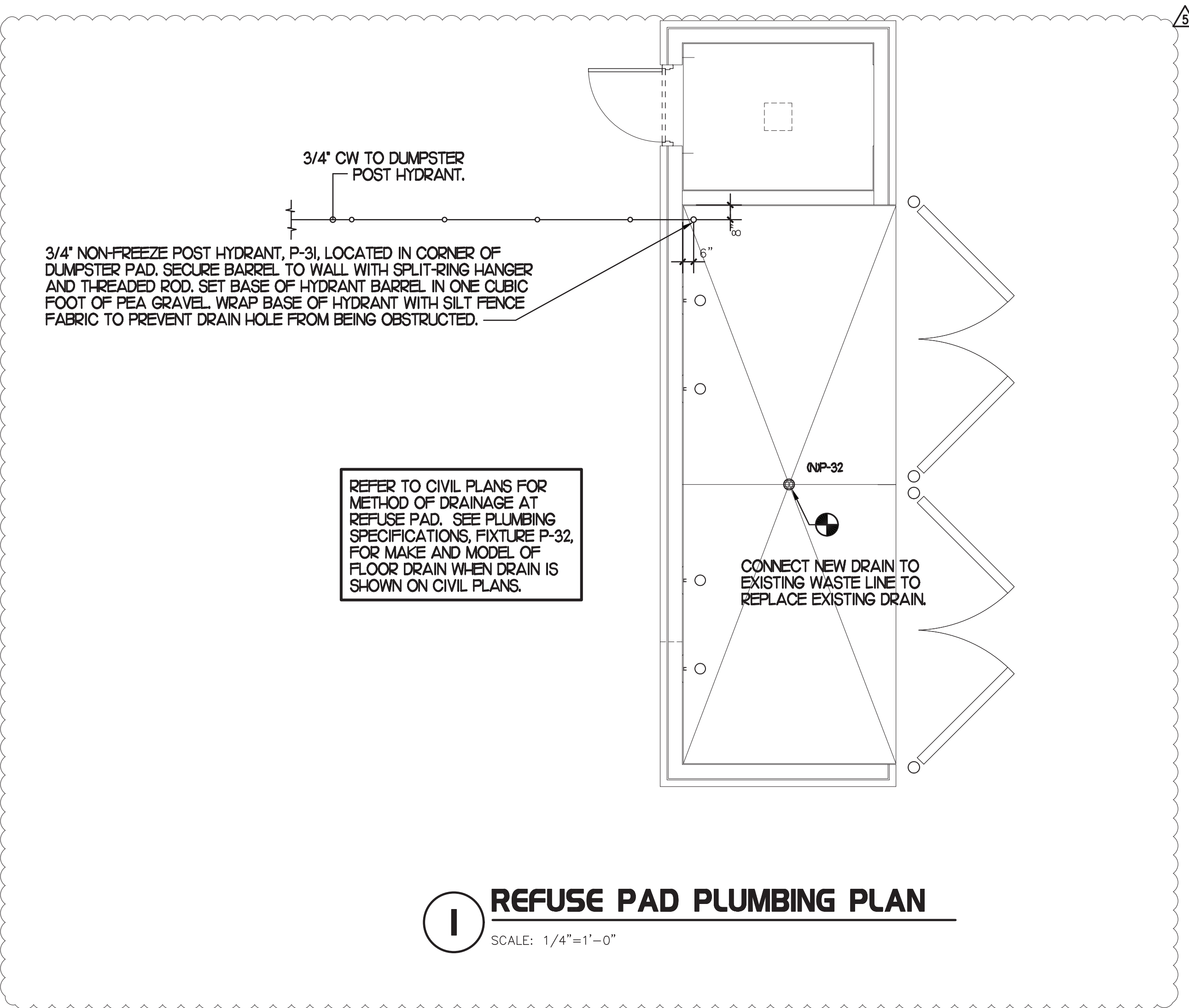
3 SAN. C.O. OUTSIDE BUILDING
SCALE: NONE

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 CONTRACTORS 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.



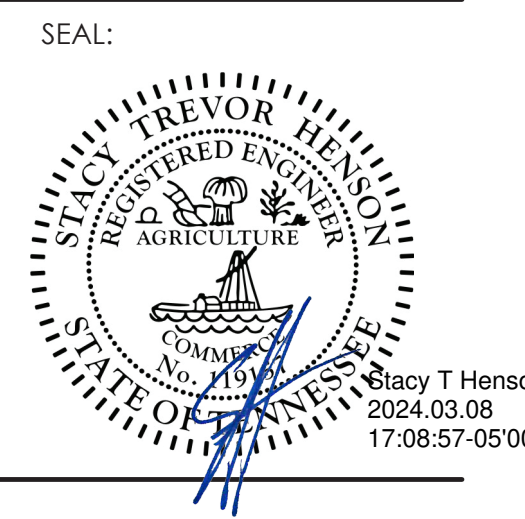
1 REFUSE PAD PLUMBING PLAN
SCALE: 1/4"=1'-0"



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

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INTERPLAN LLC
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ARCHITECTURE
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PERMITTING

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



CHICK-FIL-A
MILLINGTON
8492 US Highway 51 N
Millington
TN 38053

FSU#02699

BUILDING TYPE / SIZE: S08-N-144-R
RELEASE: 23.04

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REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
1	11/16/23	REV. UPDATES
2	11/16/23	ARCH/CEIL COORDINATION
3	01/16/24	DESIGN COMMENTS

CONSULTANT PROJECT # 2022.0772
DATE July 2023
DRAWN BY SE
CHECKED BY DAK
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SHEET BELOW SLAB PLUMBING PLAN

SHEET NUMBER **P1.1**



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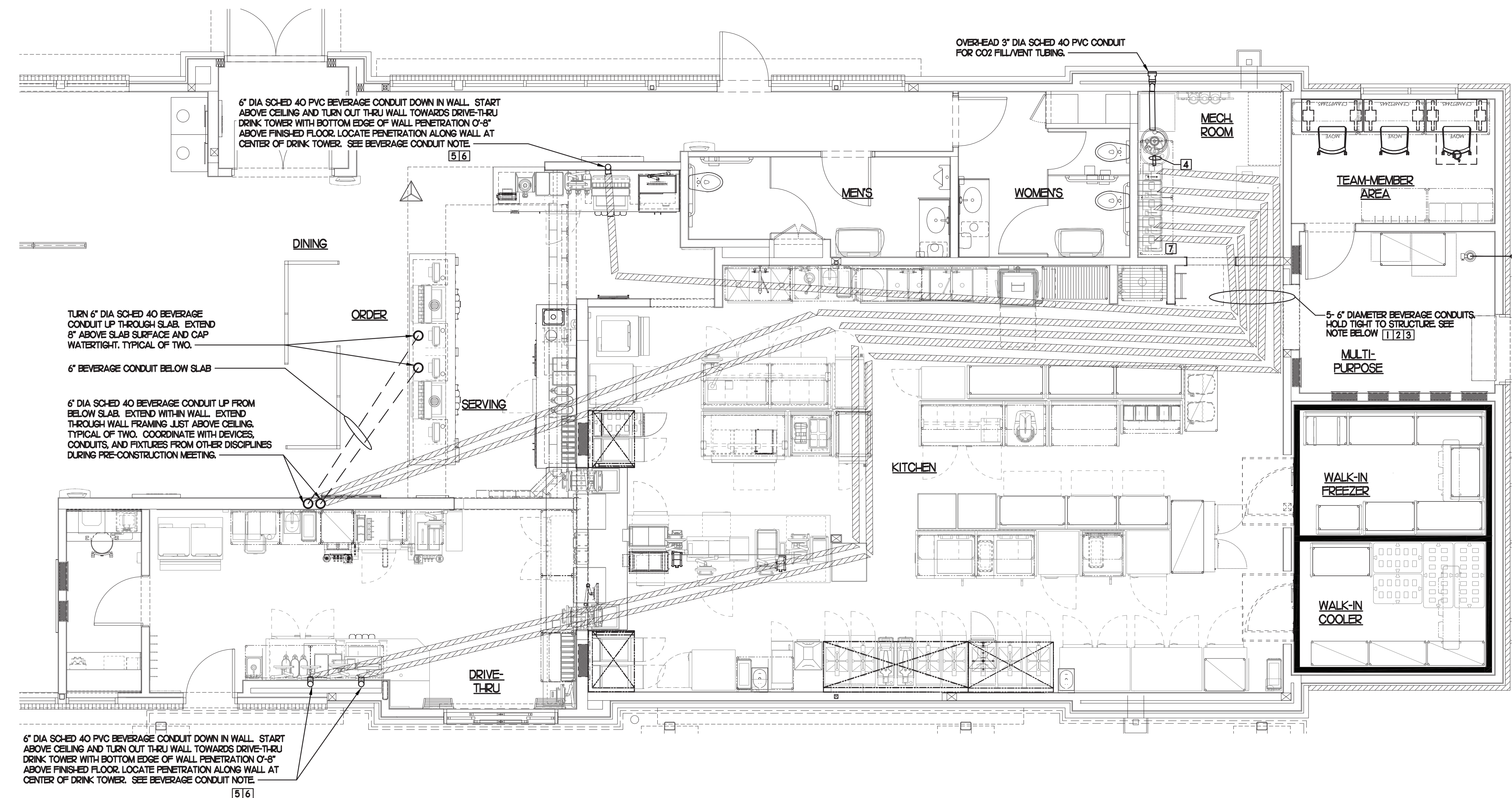
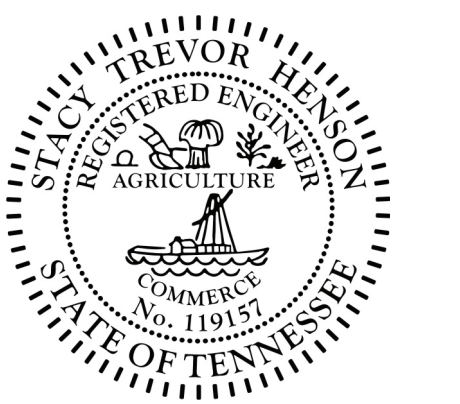
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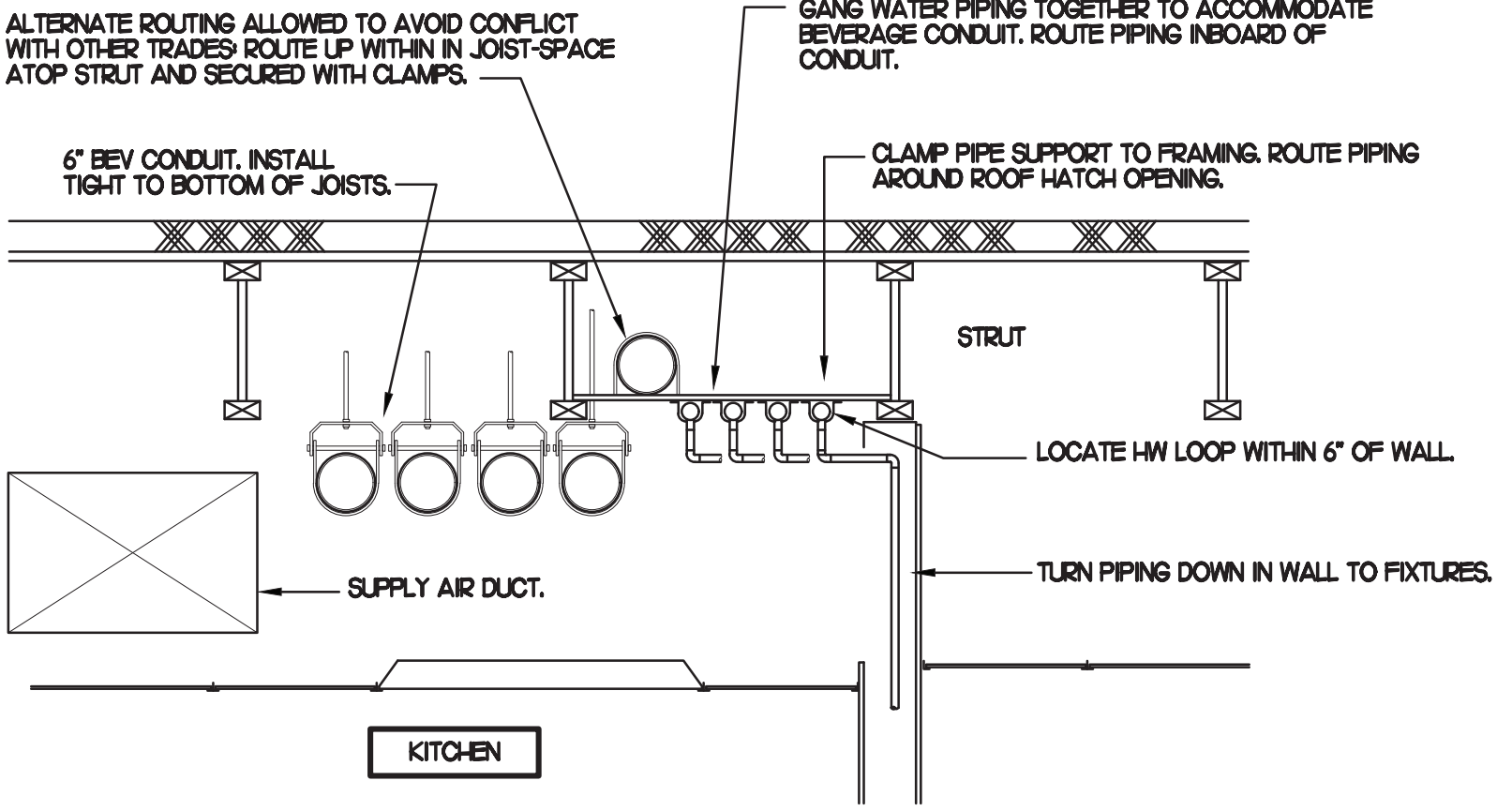
SEAL:



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 MHJ FOR LOCATION OF AC UNITS AND DUCT ROUTING.
- TURN THE 6" DIA. CONDUIT DOWN THROUGH THE CEILING AT THE BEVERAGE RACK AND PROVIDE CHROME 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.

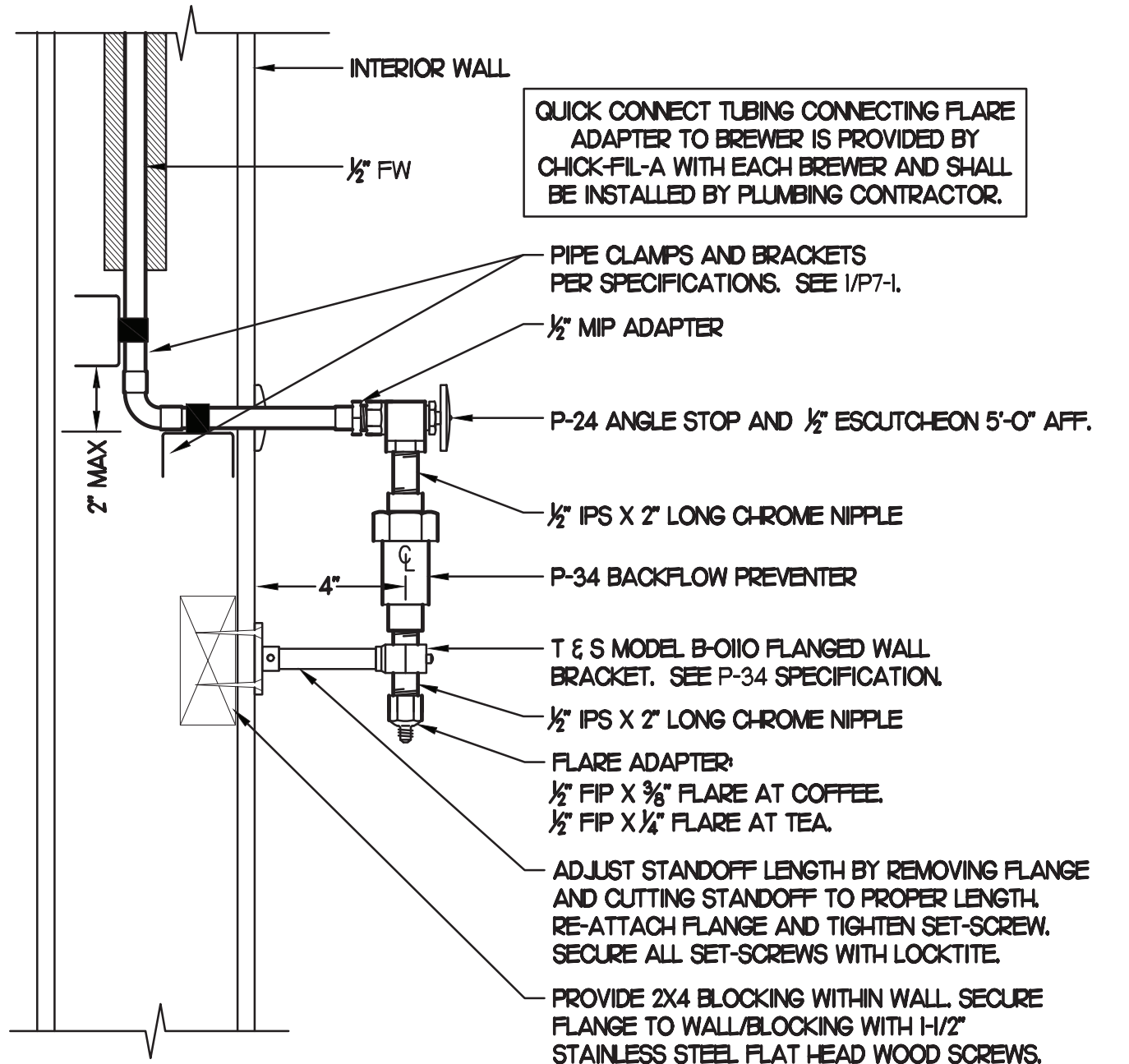
NOTE:
ALL BEVERAGE CONDUIT LAYOUTS ARE SCHEMATIC. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONSTRUCTION AND STRUCTURE OF THE BUILDING AND SHALL BE VERIFIED AND COORDINATED IN THE FIELD TO REVIEW ALL NEW & EXISTING EQUIPMENTS. EACH TRADE CONTRACTOR SHALL VERIFY WITH THE GENERAL CONTRACTOR THAT HAS THOROUGHLY 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, & 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.



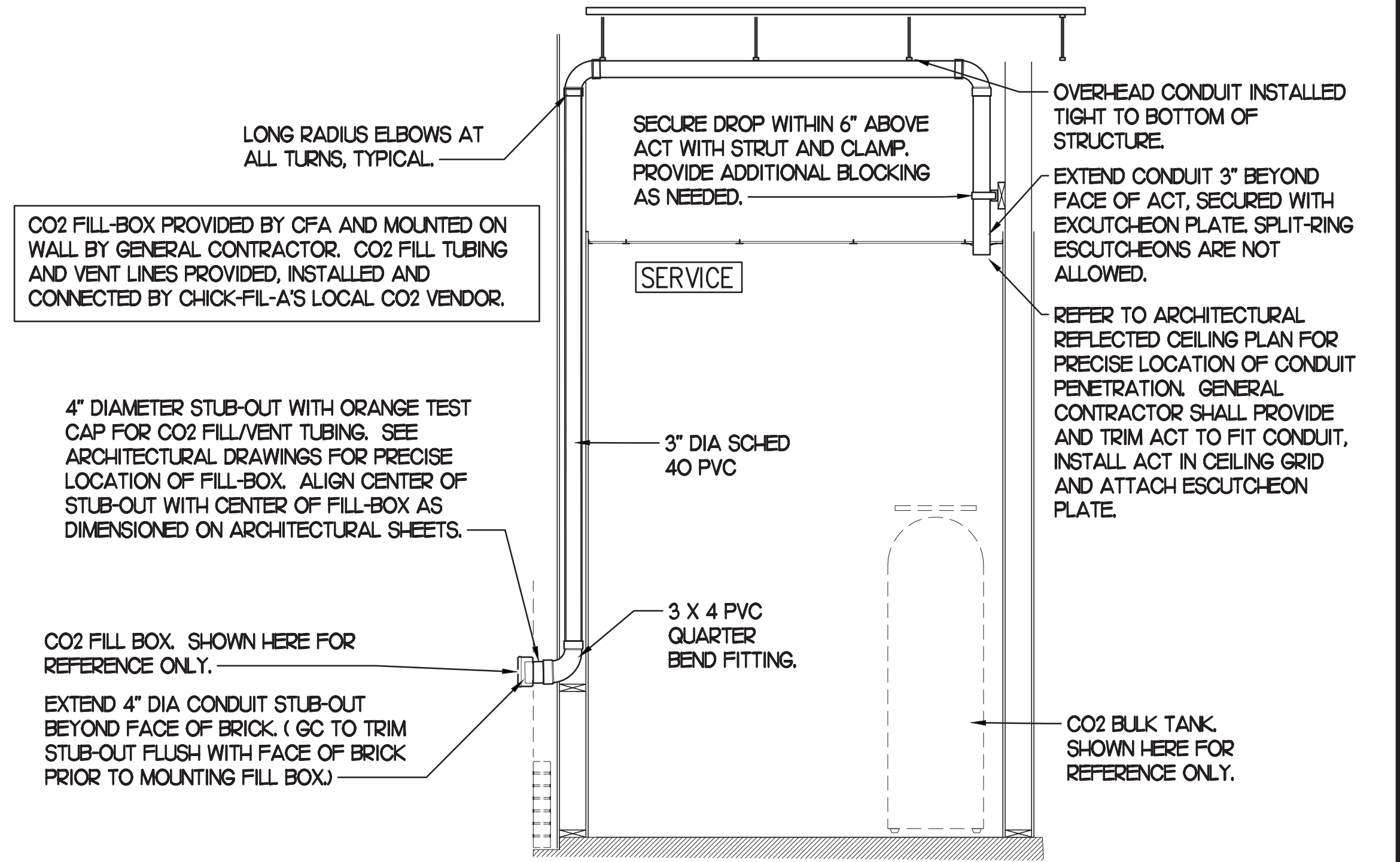
2 SECTION AT WET WALL
SCALE: NONE

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

CHICK-FIL-A
MILLINGTON
8492 US Highway 51 N
Millington
TN 38053

FSU#02699

BUILDING TYPE / SIZE: S08-N-144-R
RELEASE: 23.04

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NO.	DATE	DESCRIPTION

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DATE July 2023
DRAWN BY SE
CHECKED BY DAK

PLUMBING DETAILS & BEVERAGE CONDUIT

SHEET NUMBER

P2.2



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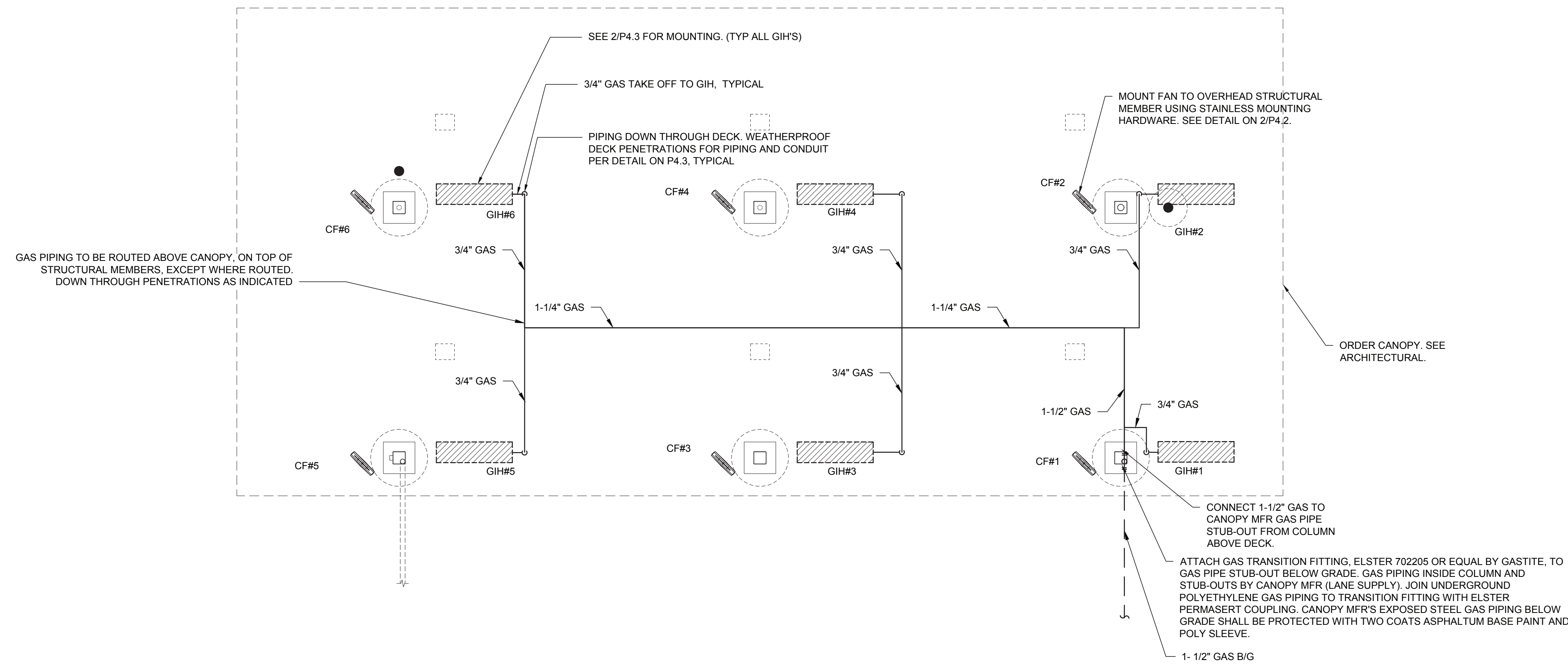
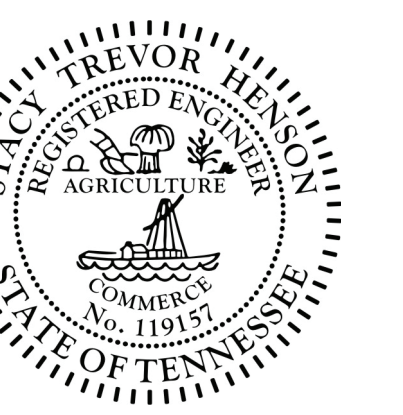
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SEAL:



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

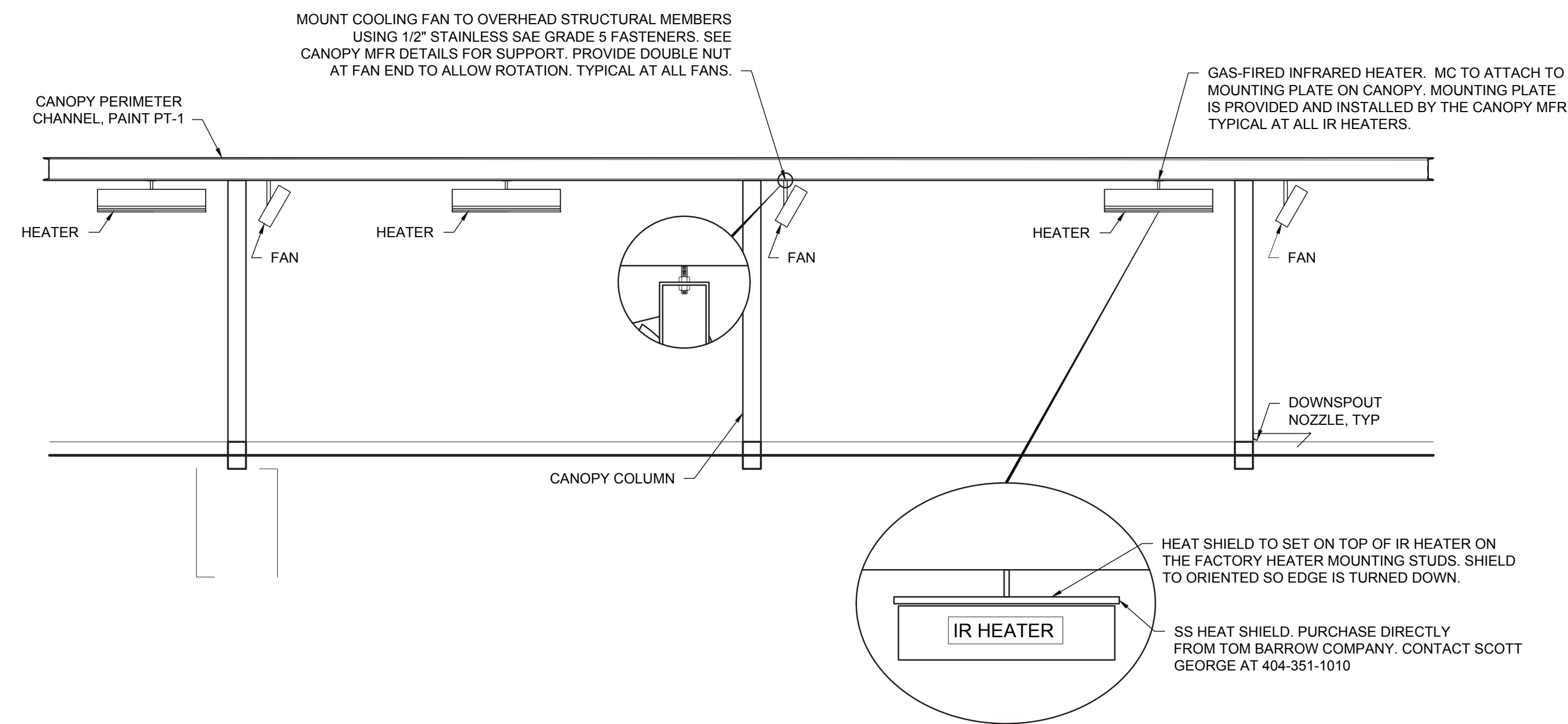
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NATIONAL ACCOUNTS

- SPACE-RAV 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.
- COOK 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.



2 HEATER FAN SECTION

NO SCALE

CHICK-FIL-A
MILLINGTON
8492 US Highway 51 N
Millington
TN 38053

FSU#02699

BUILDING TYPE / SIZE: S08-N-144-R
RELEASE: 23.04

CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
3	11/16/23	BID UPDATES

CONSULTANT PROJECT # 2022.0772
DATE July 2023
DRAWN BY SE
CHECKED BY DAK
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SHEET F2F CANOPY GAS PIPING PLAN

SHEET NUMBER
P4.2

GAS CONNECTION SCHEDULE	
EQUIPMENT	GAS LOAD
NEW AC#1	480,000 BTU'S
NEW AC#2	150,000 BTU'S
NEW AC#3	240,000 BTU'S
NEW AC#4	240,000 BTU'S
NEW AC#5	150,000 BTU'S
NEW WATER HEATER	(2)199,000 BTU'S
NEW GAS HEATERS (6)	(6) 50,000 BTU'S
TOTAL CONNECTED LOAD	1,958,000 BTU'S

REMARKS:

- EQUIVALENT TO 1,958.0 CFH @ pressure drop 0.5 IN. W.C. W/ DEVELOP LENGTH OF 347 FT (METER TO GI#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:

- 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:

- 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.

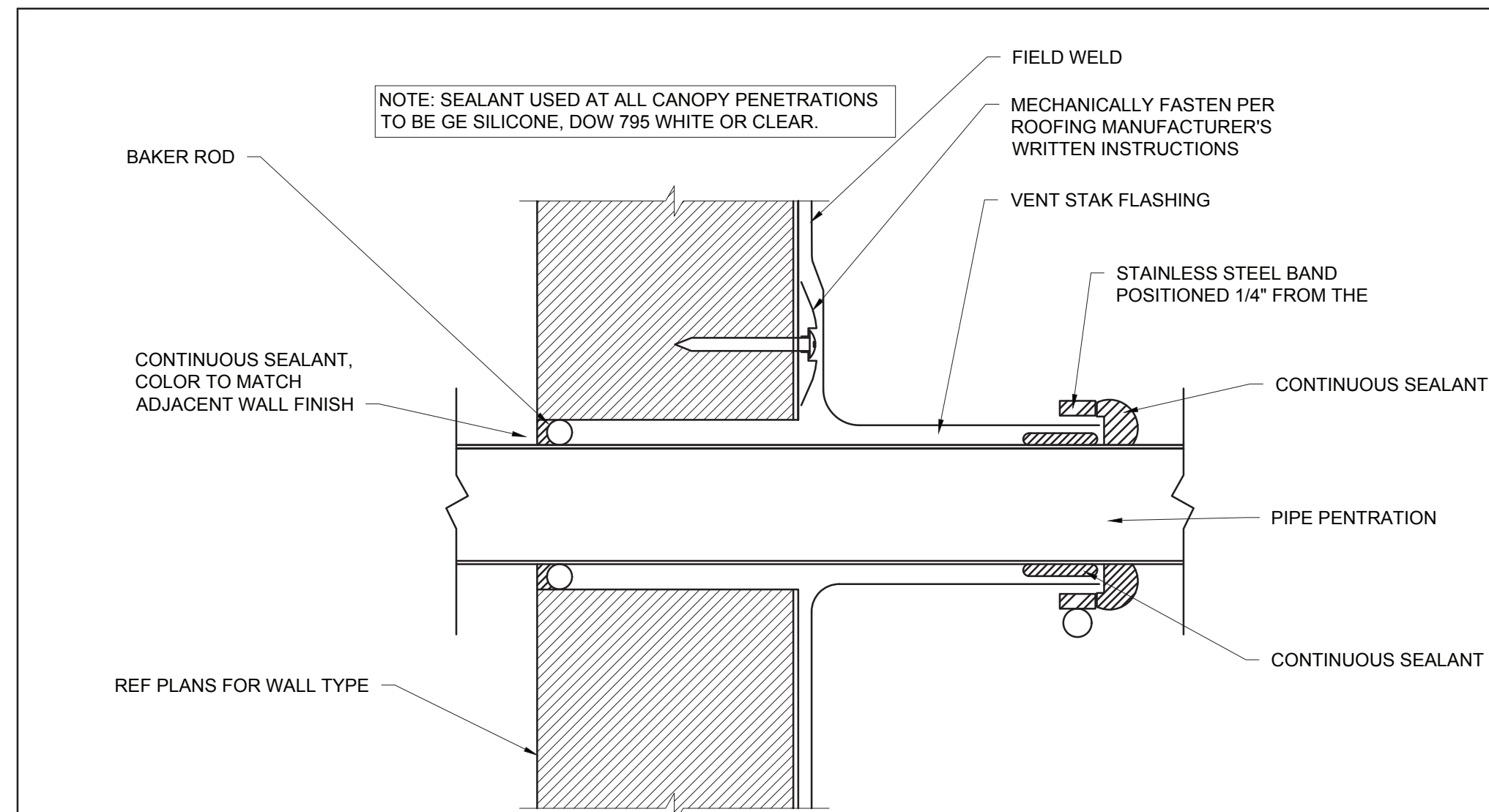
NATIONAL ACCOUNTS	
1	SPACE-RAY INFRARED HEATER PACKAGE - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE HEATER PACKAGE DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. HEATERS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.
2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

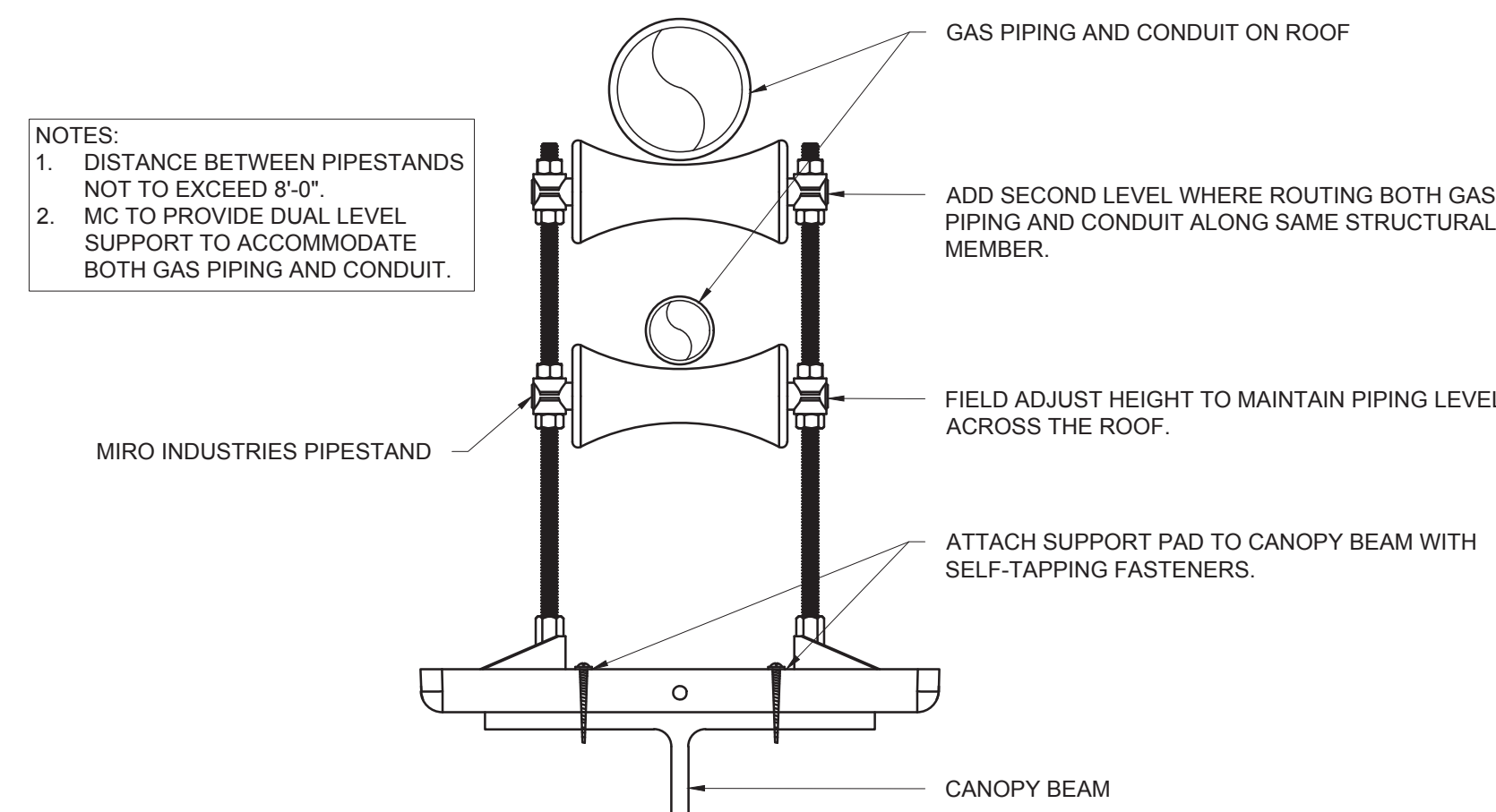
GENERAL NOTES

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



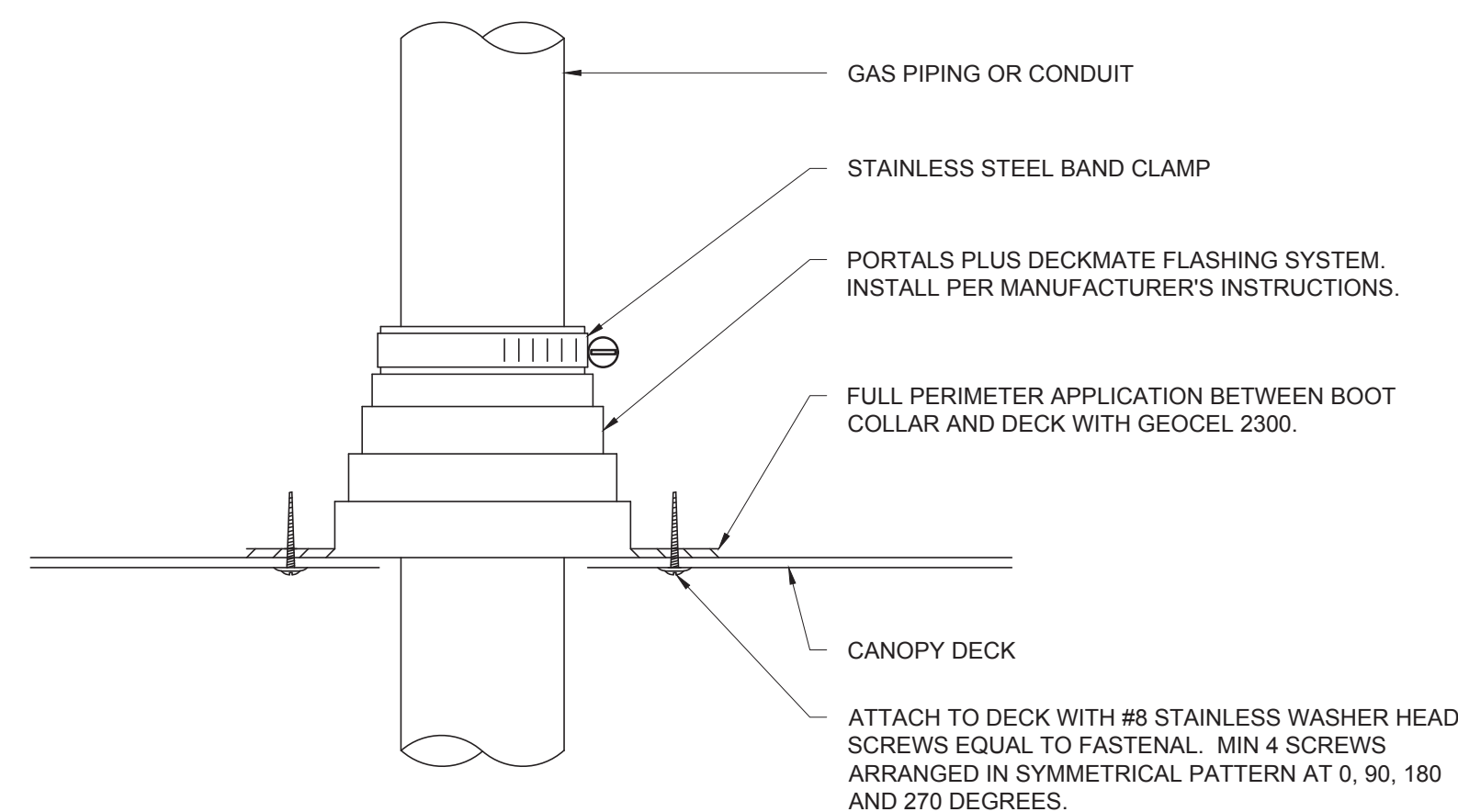
PARAPET PENETRATION DETAIL

NO SCALE



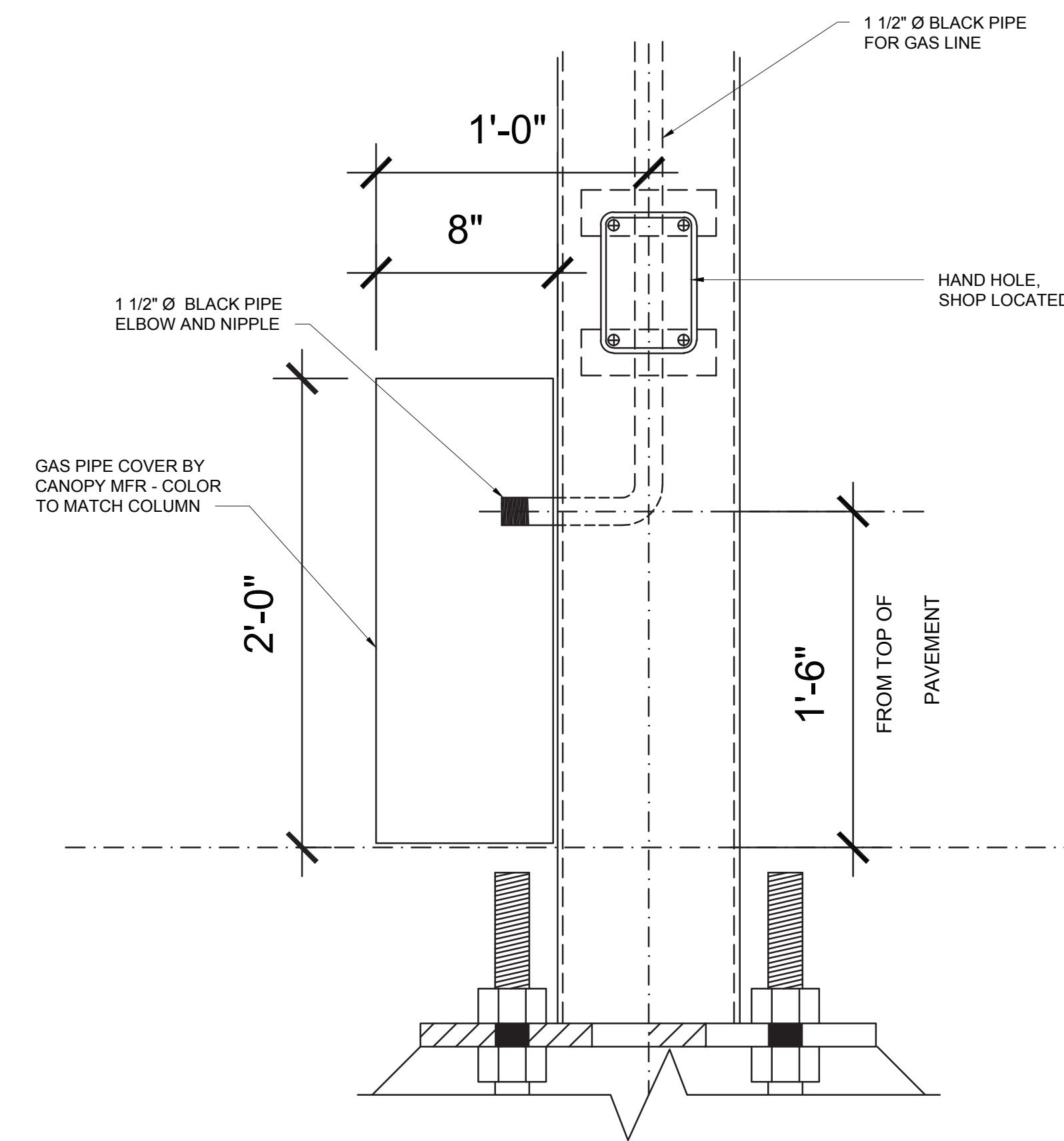
PIPING SUPPORT ON CANOPY

NO SCALE



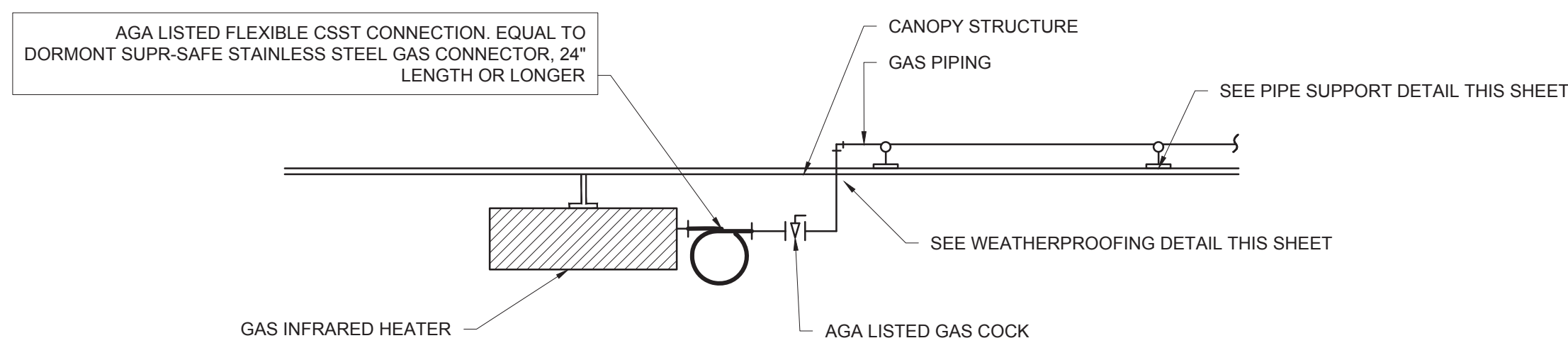
WEATHER PROOFING AT CANOPY PENETRATION

NO SCALE



COLUMN GAS PIPE COVER

NO SCALE



GAS CONNECTION AT APPLIANCE

NO SCALE



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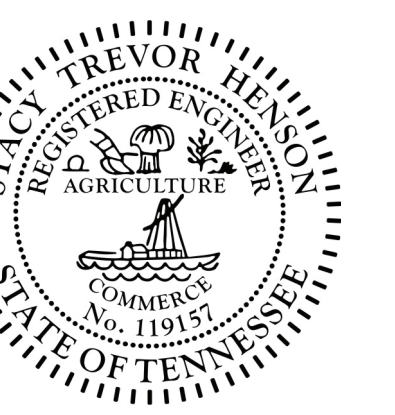


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SEAL:



CHICK-FIL-A
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8492 US Highway 51 N
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BUILDING TYPE / SIZE: S08-N-144-R
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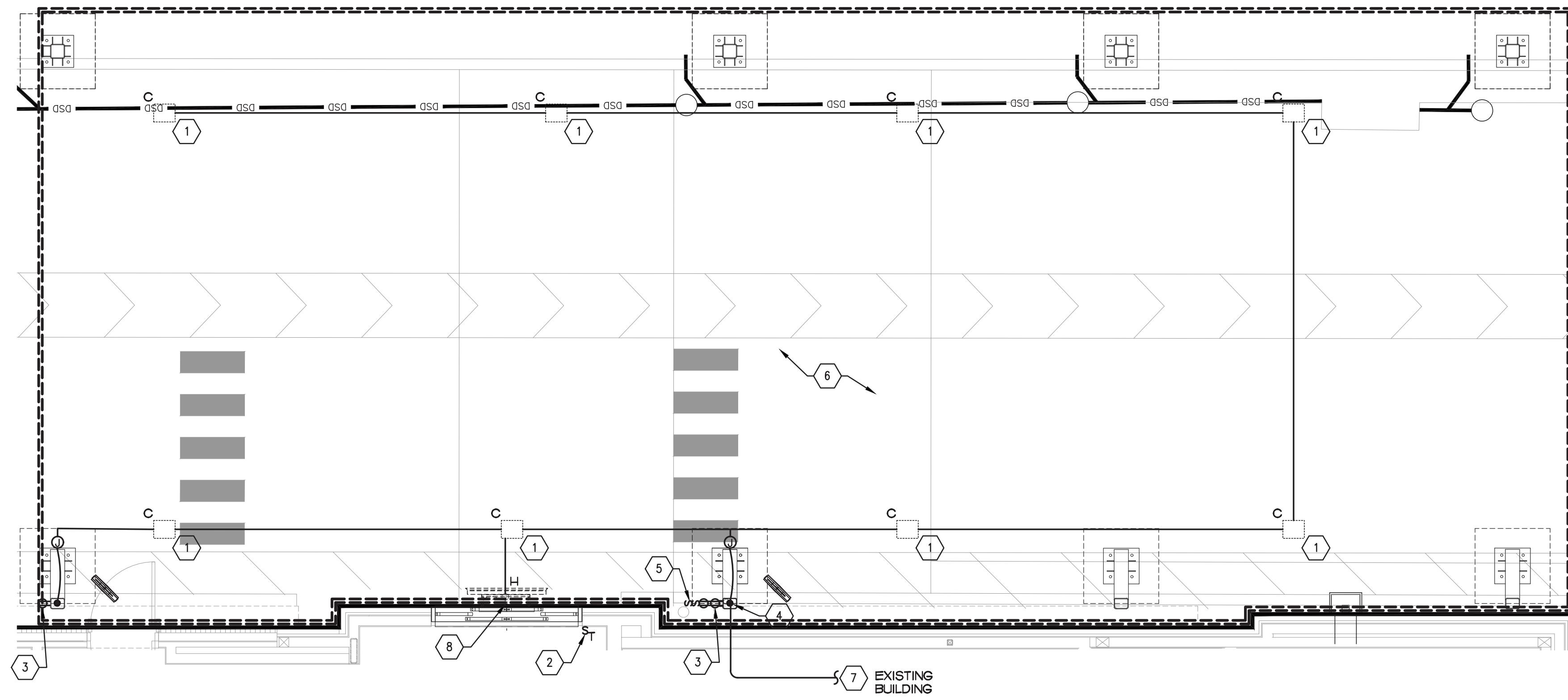
REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
3	11/15/23	BID UPDATES

CONSULTANT PROJECT # 2022.0772
DATE July 2023
DRAWN BY SE
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SHEET GAS PLUMBING DETAILS

SHEET NUMBER

P4.3



1 MEAL DELIVERY CANOPY POWER PLAN
1/4" = 1'-0"

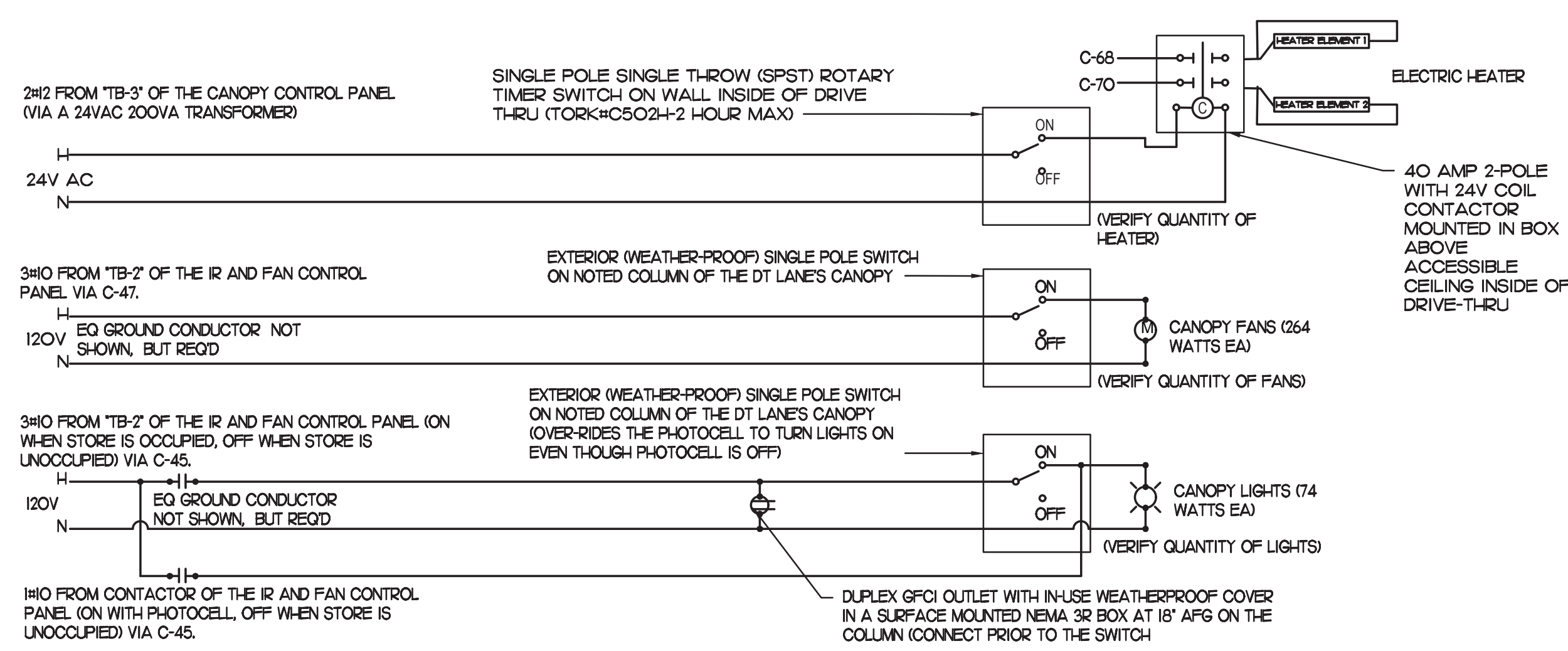
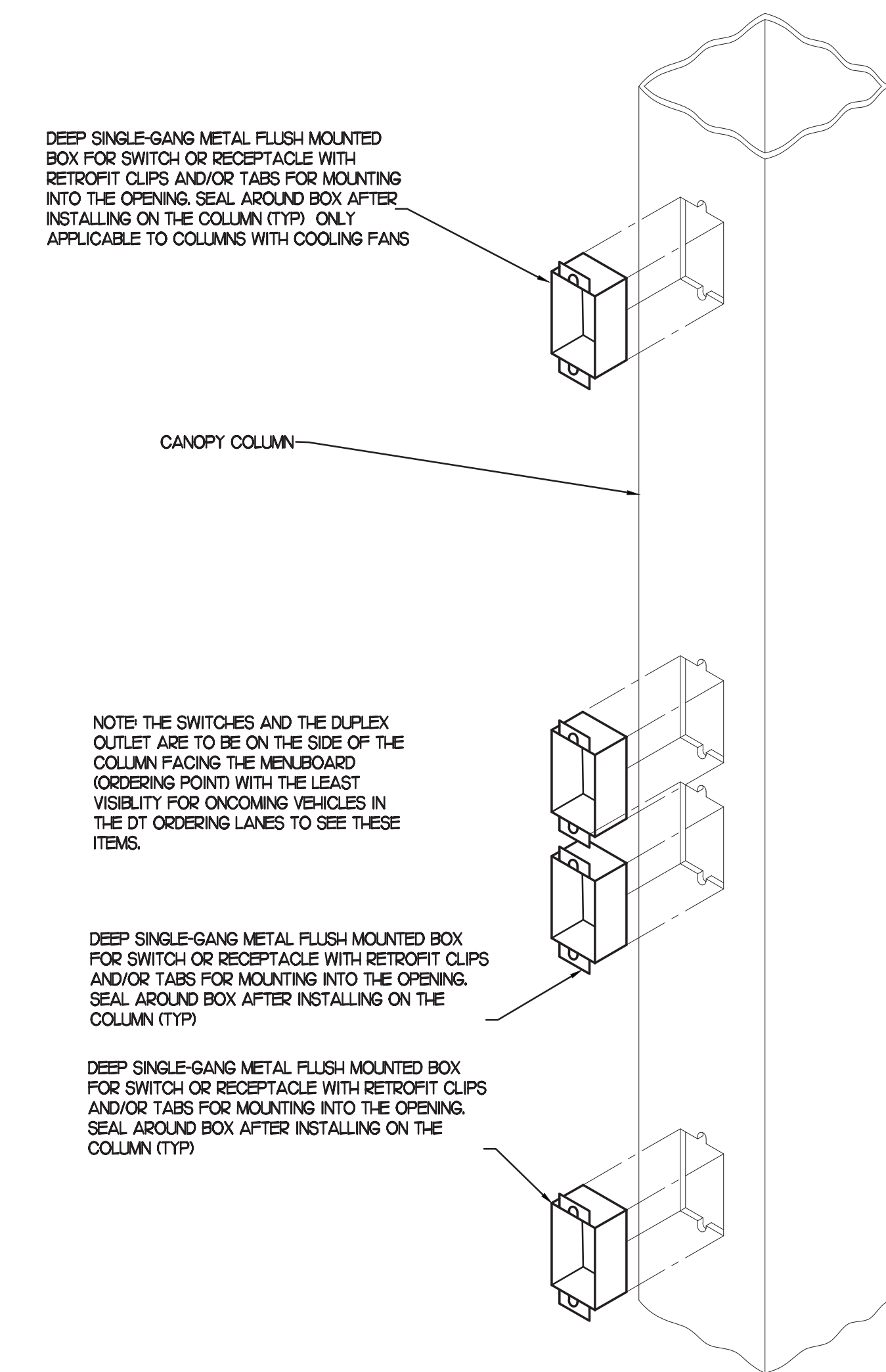
5 ELECTRIC INFRARED HEATER SCHEDULE - CHICK-FIL-A

MARK	MANUFACTURER	CATALOG NUMBER	VOLTAGE/PH	WATTS	AMPS	REMARKS
H	BROMIC	BH042003	208V/1PH	6000	25	

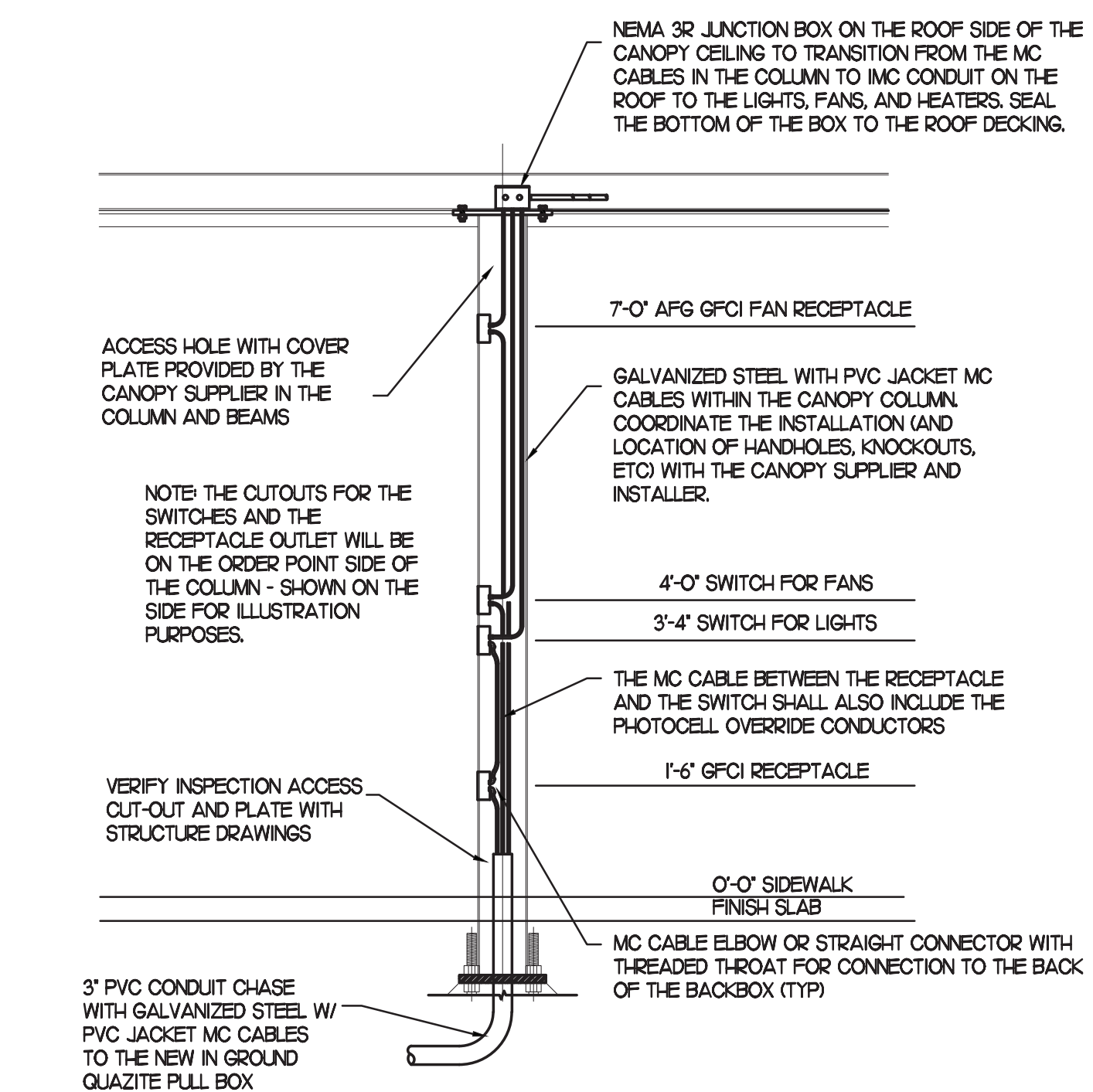
KEYED NOTES

- CEILING LIGHT PROVIDED BY CANOPY SUPPLIER AND INSTALLED BY E.C. REFER TO LIGHTING FIXTURE SCHEDULE ON E.I.A. FOR MORE INFORMATION.
- TIMER SWITCH FOR OUTSIDE ELECTRIC HEATER. REFER TO DETAILS AND WIRING SCHEMATIC.
- AIR CIRCULATING FAN (WITH INTEGRAL ON-OFF SWITCH) PROVIDED BY OTHERS. FANS TO BE HARDWIRED IN APPROPRIATE CONDUIT ABOVE CANOPY. CIRCULATING FAN (WITH INTEGRAL ON-OFF SWITCH) PROVIDED BY OTHERS. FANS TO BE HARDWIRED IN APPROPRIATE CONDUIT ABOVE CANOPY.
- AT EXISTING BUILDINGS STUB A 3" CHASE THRU THE EXTERIOR WALL FROM THE CEILING SPACE ABOVE THE KITCHEN TO ABOVE THE CANOPY'S COLUMN FOR THE MC CABLE POWER CIRCUITS TO GO THRU THE COLUMN MOUNTED SWITCHES AND OUTLET.
- PROVIDE ONE DUPLEX GFCI (WITH IN-USE WP COVER PLATE) AND TWO 120V SINGLE-POLE SWITCHES (EACH WITH HUBBELL REVISED WP COVER PLATE) MOUNTED ON THE COLUMN IN FLUSH MOUNTED METAL SINGLE GANG BOXES FOR LOCAL ON-OFF CONTROL OF THE FAN, AND CANOPY LIGHTS. SEE WIRING SCHEMATIC AND CANOPY COLUMN DETAILS FOR FURTHER INFORMATION. ALL SURFACE MOUNTED ITEMS AND COVER PLATES TO BE FIELD PAINTED MATTE BLACK.
- ALL CONDUIT AND BOXES SHALL BE CONCEALED FROM NORMAL VIEW, UNDERGROUND, IN COLUMNS, OR ABOVE THE CANOPY (ON THE ROOF). MC CABLE (GALVANIZED STEEL WITH PVC JACKET) TO BE USED INSIDE THE COLUMNS, BUT MUST CONVERT BACK TO IMC ABOVE THE ROOF. ALL EXPOSED ELECTRICAL BOXES TO BE NEMA 3R CAST-METAL.
- PROVIDE ONE (1) 80U EQUIPMENT GROUND TO BE BONDED TO CANOPY STRUCTURE PER MANUFACTURER'S RECOMMENDATIONS.
- NEW CANOPY ELECTRIC HEATER.

4 CANOPY COLUMN ISOMETRIC
NOT TO SCALE



2 MEAL DELIVERY CANOPY POWER WIRING SCHEMATIC
NO SCALE



3 SECTION - CANOPY COLUMN
NOT TO SCALE



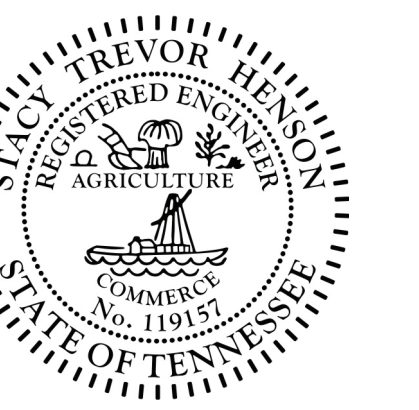
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INTERPLAN LLC
AR99238
CA 8660
ARCHITECTURE
ENGINEERING
PERMITTING

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

SEAL:



CHICK-FIL-A
MILLINGTON
8492 US Highway 51 N
Millington
TN 38053

FSU#02699

BUILDING TYPE / SIZE: S08-N-144-R
RELEASE: 23.04

PRINTED FOR
CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	02.22.24	HEATER REVISION

CONSULTANT PROJECT # 2022.0772

DATE July 2023

DRAWN BY RZ

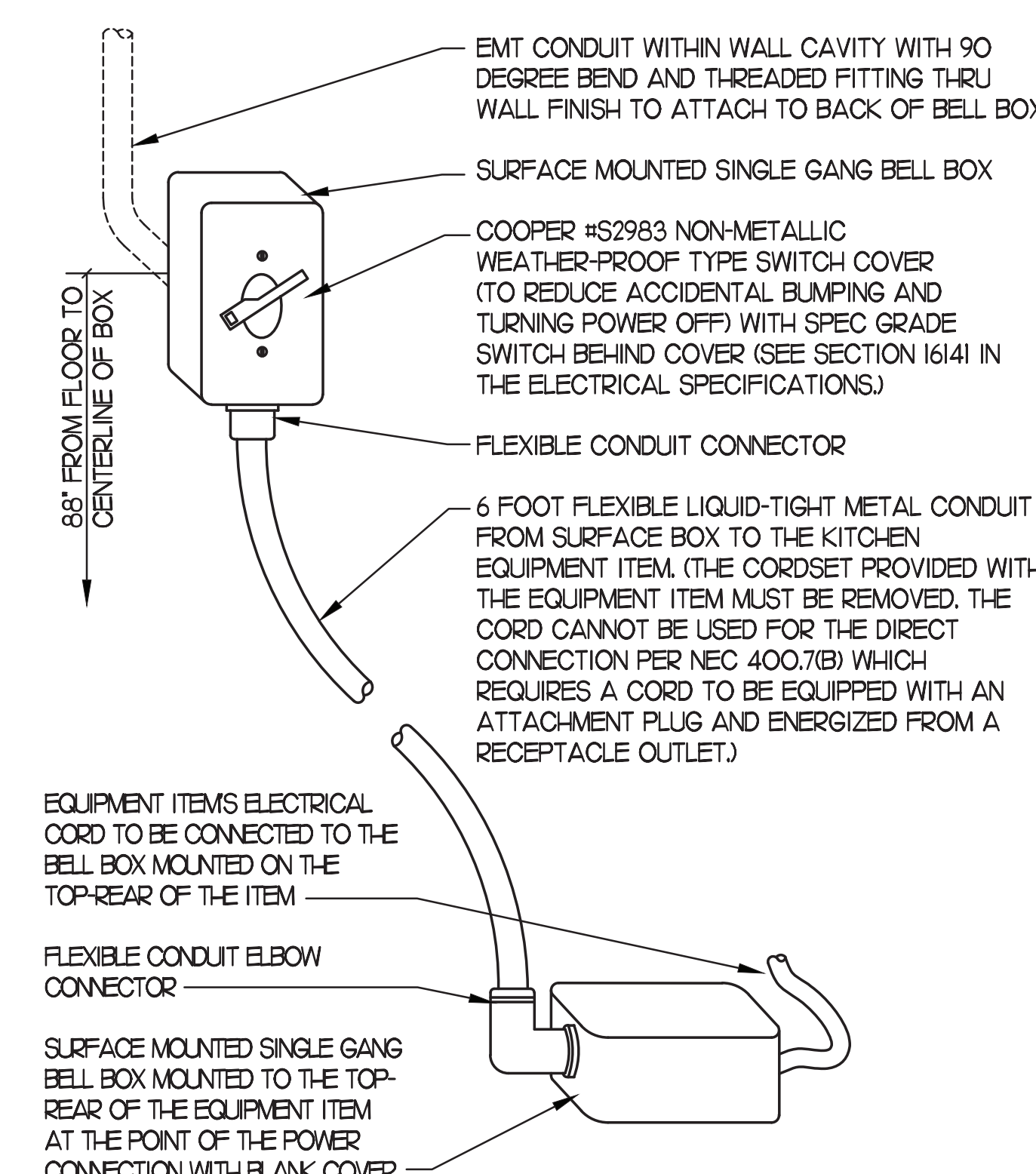
CHECKED BY MT

MEAL DELIVERY CANOPY POWER & LIGHT PLAN

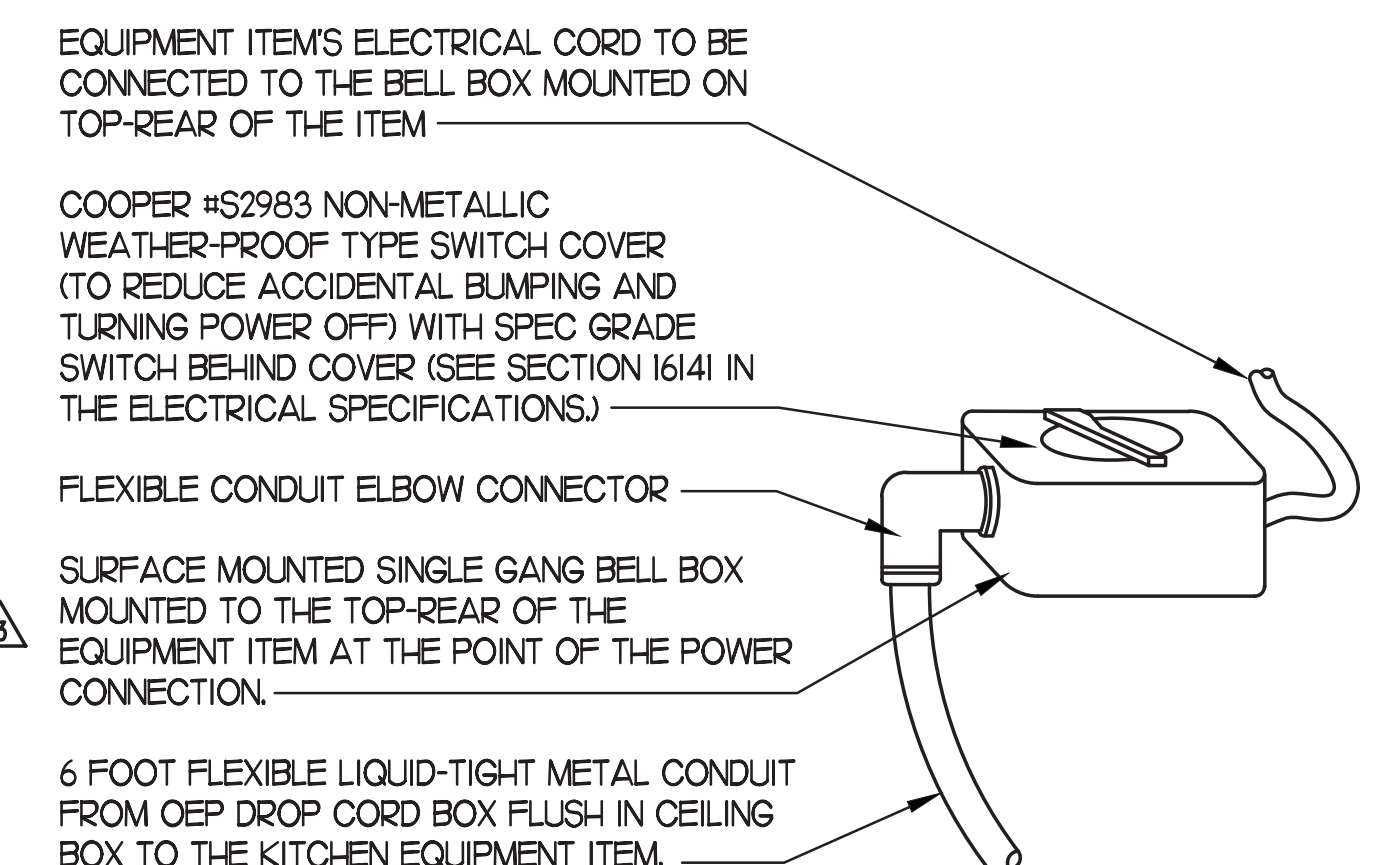
SHEET NUMBER

E-1.1B

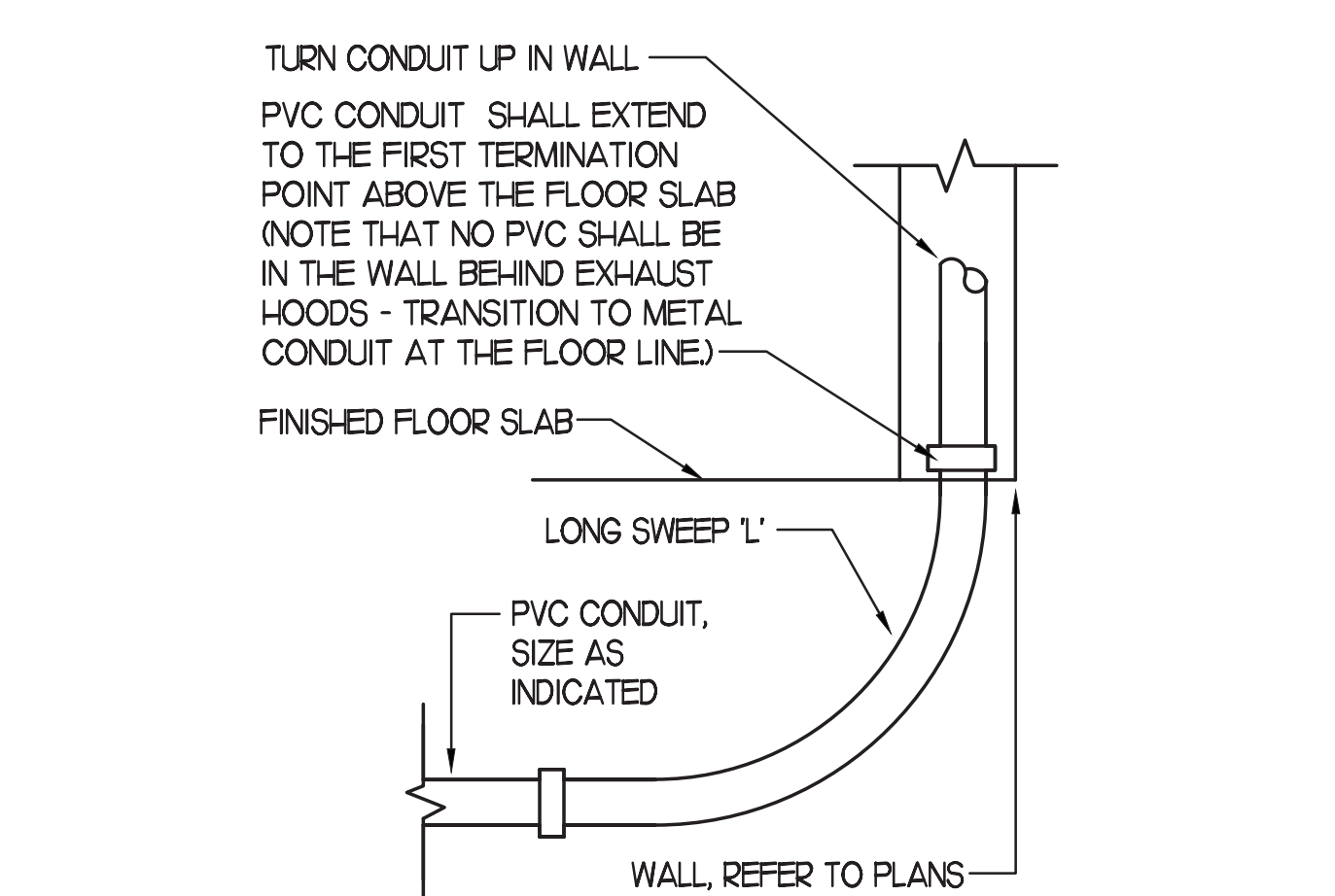
REQ UR ES IG/ GF WIRING	ITEM NO.	EQUIPMENT	MANUFACTURER	ELECTRICAL				NEMA CONFIG	COOPER/ARROW HART (LON) RECEP CAT. NO.	Wire/Conduit MARK NO.	(ALL ITEMS BY CHICK-FIL-A UNLESS OTHERWISE NOTED)
				VOLT	PH	W RES	KW AMP				
180R		ORDER REGISTER	EQUIPMENT TO BE REUSED/RELOCATED							VERIFY	
182		RECEIPT 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							MOUNTED ON ITEM #300BR	
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							AIR COOLED UNIT, G.C. SHALL PLACE AND INSTALL CONDENSER ON ROOF - NOT SHOWN ON DRAWING	
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							ELECTRICIAN TO CHANGE (1) PLUG TO TWIST LOCK	
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							ELECTRICIAN TO CHANGE PLUG TO TWIST LOCK	
444R		THAWING CABINET - DOUBLE	EQUIPMENT TO BE REUSED/RELOCATED							ELECTRICIAN TO CHANGE PLUG TO TWIST LOCK PLUG CONVERT TO DIRECT CONNECT IF NEEDED - G.C. TO INSTALL LIQUID TIGHT FLEX. CONDUIT	
500AR		VERTICAL CONTACT TOASTER	EQUIPMENT TO BE REUSED/RELOCATED							LOCATED ON ITEM #120c	
500BR		RADIANT TOASTER	EQUIPMENT TO BE REUSED/RELOCATED							LOCATED ON ITEM #120c	
500R		BUN WARMER	EQUIPMENT TO BE REUSED/RELOCATED							LOCATED ON ITEM #120c - FRANKIE TABLE CIRCUIT #12 & #13	
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							ON ITEM #105	
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					NEMA 6-20P	
183		ORDER MONITOR	RADIANT KITCHEN PRODUCTION SYSTEM	120	1	2	0.125			NEMA 5-20R	
211B		FLY SYSTEM	PESTWEST MANTIS QUALES IN WHITE (MODEL #125-000502)	120	1	2	0.078	0.65		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	
320		TURBO CARBONATOR	LANCER #85-1923-03	115	1	2	6.2			NEMA 5-20R	
380X		ICE MACHINE	FOLLETT HORIZON CHEWBLET MODEL #HMF1650RBT	120	1	2	6			NEMA 5-15R	
401		FREEZER/WORK TABLE	TRAUlsen MODEL #ULT48-ZCF-LR	120	1	2	7			NEMA L5-20R	
410		WALK-IN FREEZER	THERMOKOOL	120	1	2	3.3			DIRECT CONNECTION	
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	
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 #S2365WPRM-CFA	120	1	2	12.0			NEMA L5-20R	
444S		THAWING CABINET - SINGLE	TRAUlsen MODEL #RET132EWUT-FHS	120	1	2	16.0			DIRECT CONNECTION	
505V		VICTOR OVEN	ALTO-SHAAM	208	3	3	7.9			15-30P	
560E		FRY WARMER	BKI MODEL #UW-17	120	1	2				1	
449		WALK-IN COOLER	THERMOKOOL	120	1	2	2.4			DIRECT CONNECTION	
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	
505G		RANGE/CONVECTION OVEN	LANG MODEL #9P-R30CAPF208CF	208	3	3	19.8	57.6		NEMA 15-60R	
521		WARMING EYES WITH STAND	STAR-MAX MODEL #502FD	208	1	3	3.9	18.8		NEMA 6-30R	
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	
524		DUAL-SIDED XPRESS BROILER	GARLAND #CXBE12	208	3	3	16.04	47.0		NEMA 15-50R	
550		DOUBLE WARMING DRAWER	TOASTMASTER MODEL #3B80A	120	1	2	1.00	8.3		NEMA 5-15R	
560		FRY HOLDING STATION	BKI MODEL #FW-156B	120	1	2	1.84	15.4		NEMA 5-20R	
563D		SANDWICH SLIDE	BKI MODEL #2TSM-2624L	120	1	2	1.09	9.13		NEMA 5-20R	
563S		SANDWICH SLIDE	BKI MODEL #SM-2624R	120	1	2	0.548	4.56		NEMA 5-20R	
564		PRODUCT HOLDING CABINET	DUKE MODEL #FWM3-24CF6-120	120	1	2	1.6	13.3		NEMA 5-15R	
580H		MULTI-USE HOLDING CABINET	DUKE MODEL #MUHC-52-120	120	1	2	2.88	24		NEMA L5-30R	
592		REHEATING RACK	PITCO SRTE 14	208	3	3	8	22		15-50P	
671		FLAT-VU MENU BOX	C3 LIGHTING SOLUTIONS SIZE B	120	1	2	0.054	0.45		NEMA 5-20R	



2 KITCHEN EQUIP DIRECT CONNECTION
NOT TO SCALE WALL MOUNT CONDITION



3 KITCHEN EQUIP DIRECT CONNECTION
NOT TO SCALE DROP CORD - ISLAND MOUNT CONDITION



4 INTERIOR PVC CONDUIT DETAIL
NOT TO SCALE

NEMA 5-15R
 NEMA 5-20R
 NEMA L5-20R
 NEMA L14-20R
 NEMA 14-30R
 NEMA L14-30R
 NEMA 15-20R
 NEMA 15-30R
 NEMA 15-50R
 NEMA 15-60R

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

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 Millington
 TN 38053

FSU#02699
 BUILDING TYPE / SIZE: S08-N-144-R
 RELEASE: 23.04
 PRINTED FOR: CONSTRUCTION
 REVISION SCHEDULE:

NO.	DATE	DESCRIPTION
01	11/02/20	800 UPDATES

 CONSULTANT PROJECT # 2022.0772
 DATE July 2023
 DRAWN BY RZ
 CHECKED BY MT
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 SHEET
 EQUIP SCHEDULE AND
 DETAILS
 SHEET NUMBER



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

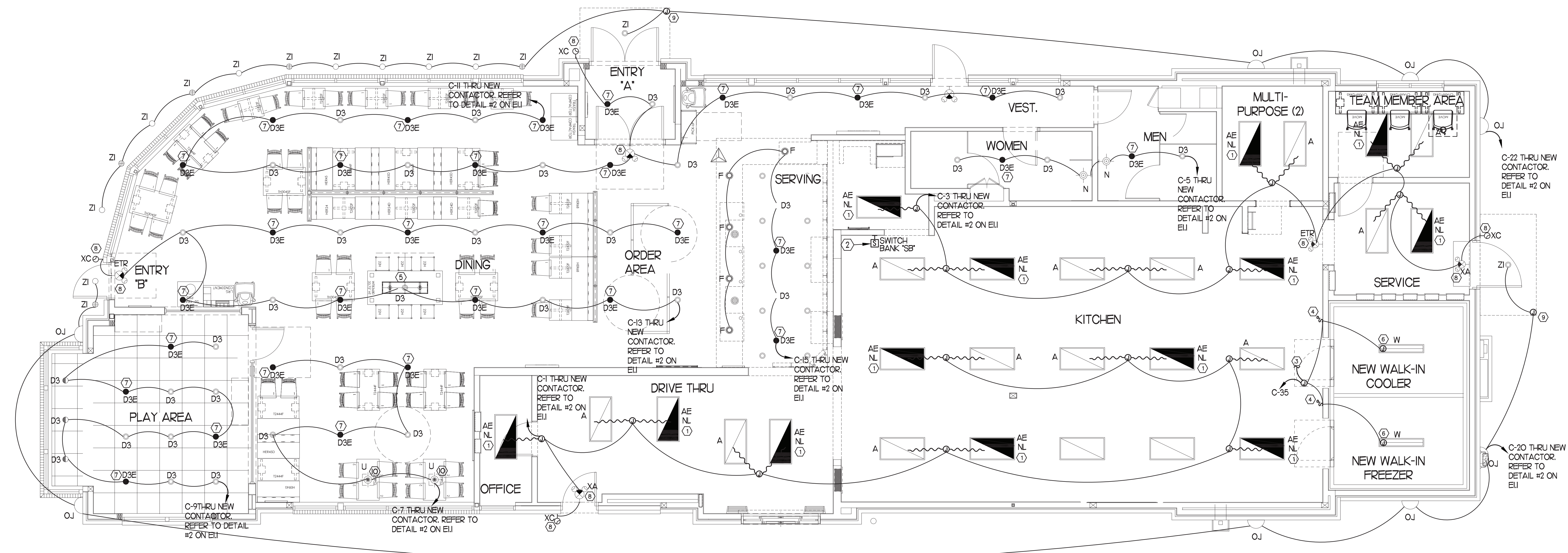
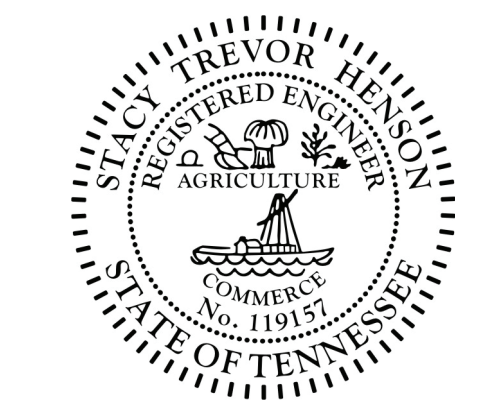
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CA 8660

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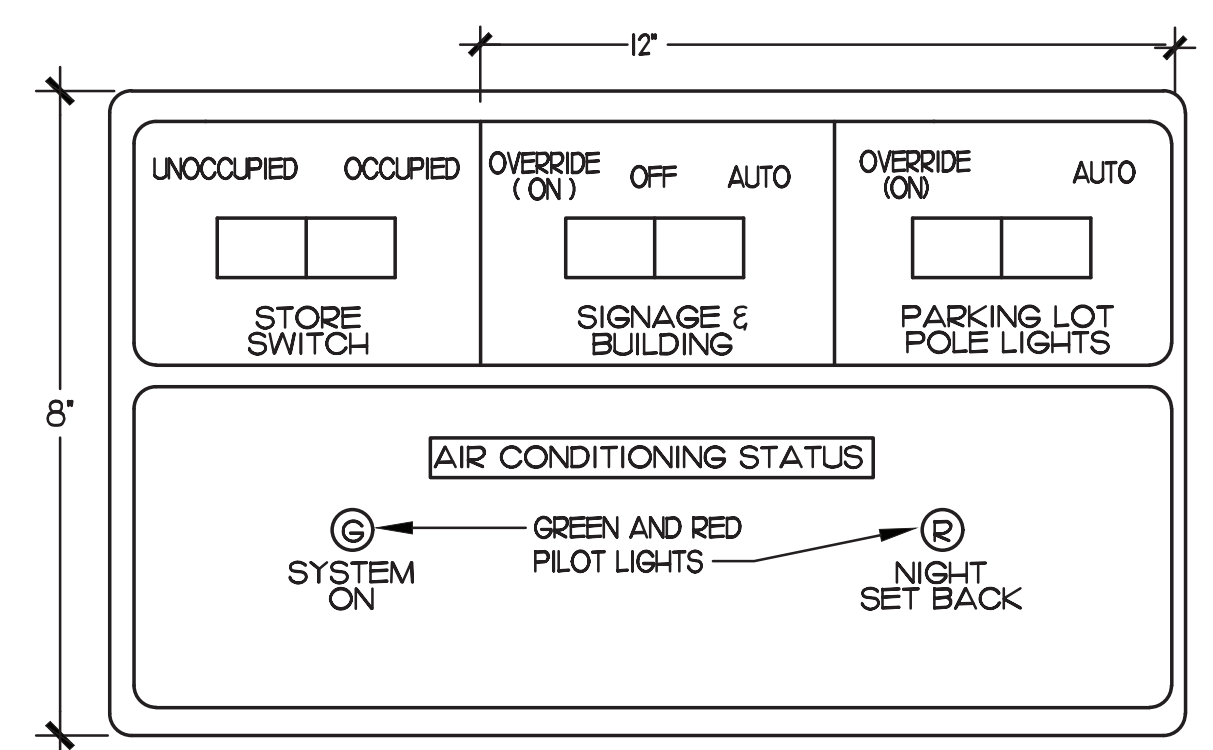
220 E. CENTRAL PKWY, STE 4000
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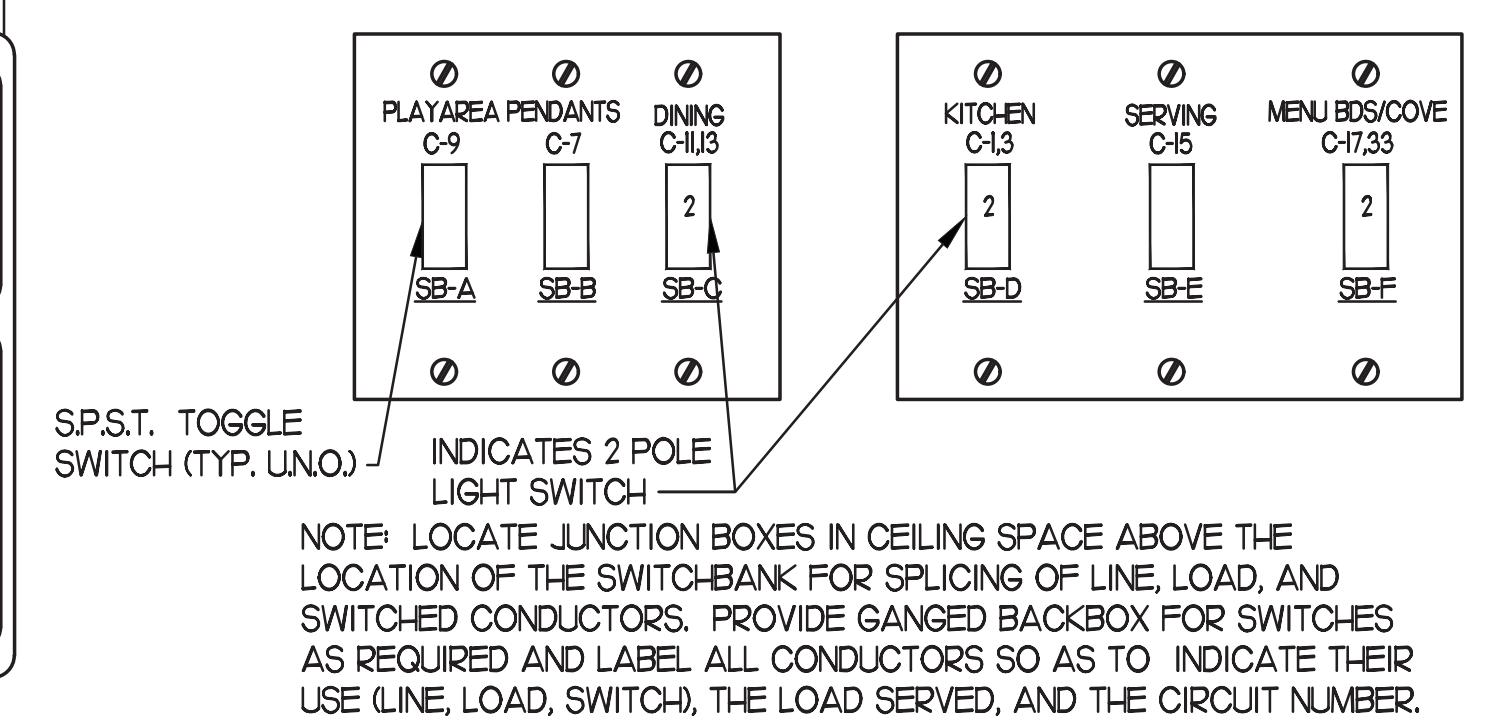


1 LIGHTING PLAN
SCALE: 1/4"=1'-0"

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. 'NL' 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.
- NOT USED
- 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 LAMPS 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.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATIONS OF PENDANTS, DOWNLIGHTS, ACCENT LIGHTS AND WALL WASHER LIGHT FIXTURES.

CHICK-FIL-A
MILLINGTON
8492 US Highway 51 N
Millington
TN 38053

FSU#02699

BUILDING TYPE / SIZE: S08-N-144-R
RELEASE: 23.04
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REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 2022.0772
DATE July 2023
DRAWN BY RZ
CHECKED BY MT
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SHEET LIGHTING PLAN
SHEET NUMBER
E2.1

UPDATED: 10/4/2023 11:34 am
ISSUED FOR: APPROVAL

(NEW) PANEL A

LOCATION: SERVICE AREA
VOLTAGE: 208Y/120V
TRIM: FLUSH

MAIN: 250A MLO
SYSTEM: 3# 4W
BUS RATING: 250A

CONN. LOAD: 75.2 KVA
FEED: TOP
GROUND BUS: YES

CKT	LOAD SERVED	COND	PHASE	NEUT	ØMD	ØBR	ØMD	L1	L2	L3	ØMD	ØBR	ØMD	PHASE	NEUT	ØMD	LOAD SERVED	CKT
1	TELEPHONE AT WIND	1/2"	#12	#12	#12	#12	R	1200			K	20/1	1/2"	#12	#12	#12	FLOOR WIRER	2
2	OFFICE GEN & WIND	1/2"	#12	#12	#12	#12	R	750			K	20/1	1/2"	#12	#12	#12	TEL BRKBR	4
3	OFF GEN PRINTERS	1/2"	#12	#12	#12	#12	R	20/1	1/2"	#12	#12	#12	L	#12	#12	#12	GENERAL OUTLETS	6
4	DRINK TOWERS	1/2"	#12	#12	#12	#12	R	20/1	1/2"	#12	#12	#12	L	#12	#12	#12	WATER HEATER	8
5	GENERAL OUTLETS	1/2"	#12	#12	#12	#12	R	20/1	1/2"	#12	#12	#12	L	#12	#12	#12	PANEL "POS"	10
6	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PLAN AREA REC	12
7	DOUBLE UC REFRIG	1/2"	#12	#12	#12	#12	R	864			K	20/1	1/2"	#12	#12	#12	NO EPF#	14
8	JUICE DISPENSER	1/2"	#12	#12	#12	#12	R	1200			K	20/1	1/2"	#12	#12	#12	SECURITY SYSTEM	16
9	JUICE DISPENSER	1/2"	#12	#12	#12	#12	R	1100			K	15/3	1/2"	#12	#12	#12	COOLER CONDENSER	18
10	JUICE DISPENSER	1/2"	#12	#12	#12	#12	R	900			K	#	#	#	#	#	TEA BREWER	20
11	FUTURE CARBONATOR	1/2"	#12	#12	#12	#12	R	864			K	20/1	1/2"	#12	#12	#12	(N) EPF#	22
12	SANDWICH SLIDE	1/2"	#12	#12	#12	#12	R	1200			K	20/1	1/2"	#12	#12	#12	FUT. EQUIPMENT	24
13	SANDWICH SLIDE	1/2"	#12	#12	#12	#12	R	1800			K	35/3	3/4"	#	#	#	FREEZER CONDENSER	26
14	CARBONATOR	1/2"	#12	#12	#12	#12	R	1980			K	#	#	#	#	#	HND DWP COL	28
15	CARBONATOR	1/2"	#12	#12	#12	#12	R	1800			K	#	#	#	#	#	TEA BREWER	30
16	CARBONATOR	1/2"	#12	#12	#12	#12	R	864			K	20/1	1/2"	#12	#12	#12	(N) EPF#	32
17	BOOSTER PUMP	1/2"	#12	#12	#12	#12	R	1200			K	20/1	1/2"	#12	#12	#12	FREEZER HEAT TPE	34
18	GENERAL OUTLETS	1/2"	#12	#12	#12	#12	R	800			K	20/1	1/2"	#12	#12	#12	DRIP CORD OUTLET	36
19	GENERAL OUTLETS	1/2"	#12	#12	#12	#12	R	800			K	20/1	1/2"	#12	#12	#12	DRIP CORD OUTLET	38
20	GENERAL OUTLETS	1/2"	#12	#12	#12	#12	R	800			K	20/1	1/2"	#12	#12	#12	DRIP CORD OUTLET	40
21	GENERAL OUTLETS	1/2"	#12	#12	#12	#12	R	800			K	20/1	1/2"	#12	#12	#12	DRIP CORD OUTLET	42
22	GENERAL OUTLETS	1/2"	#12	#12	#12	#12	R	800			K	20/1	1/2"	#12	#12	#12	DRIP CORD OUTLET	44
23	GENERAL OUTLETS	1/2"	#12	#12	#12	#12	R	800			K	20/1	1/2"	#12	#12	#12	DRIP CORD OUTLET	46
24	GENERAL OUTLETS	1/2"	#12	#12	#12	#12	R	800			K	20/1	1/2"	#12	#12	#12	DRIP CORD OUTLET	48
25	GENERAL OUTLETS	1/2"	#12	#12	#12	#12	R	800			K	20/1	1/2"	#12	#12	#12	DRIP CORD OUTLET	50
26	GENERAL OUTLETS	1/2"	#12	#12	#12	#12	R	800			K	20/1	1/2"	#12	#12	#12	DRIP CORD OUTLET	52
27	GENERAL OUTLETS	1/2"	#12	#12	#12	#12	R	800			K	20/1	1/2"	#12	#12	#12	DRIP CORD OUTLET	54
28	GENERAL OUTLETS	1/2"	#12	#12	#12	#12	R	800			K	20/1	1/2"	#12	#12	#12	DRIP CORD OUTLET	56
29	GENERAL OUTLETS	1/2"	#12	#12	#12	#12	R	800			K	20/1	1/2"	#12	#12	#12	DRIP CORD OUTLET	58
30	GENERAL OUTLETS	1/2"	#12	#12	#12	#12	R	800			K	20/1	1/2"	#12	#12	#12	DRIP CORD OUTLET	60
31	GENERAL OUTLETS	1/2"	#12	#12	#12	#12	R	800			K	20/1	1/2"	#12	#12	#12	DRIP CORD OUTLET	62
32	GENERAL OUTLETS	1/2"	#12	#12	#12	#12	R	800			K	20/1	1/2"	#12	#12	#12	DRIP CORD OUTLET	64
33	GENERAL OUTLETS	1/2"	#12	#12	#12	#12	R	800			K	20/1	1/2"	#12	#12	#12	DRIP CORD OUTLET	66
34	GENERAL OUTLETS	1/2"	#12	#12	#12	#12	R	800			K	20/1	1/2"	#12	#12	#12	DRIP CORD OUTLET	68
35	GENERAL OUTLETS	1/2"	#12	#12	#12	#12	R	800			K	20/1	1/2"	#12	#12	#12	DRIP CORD OUTLET	70
36	GENERAL OUTLETS	1/2"	#12	#12	#12	#12	R	800			K	20/1	1/2"	#12	#12	#12	DRIP CORD OUTLET	72

INTERRUPT RATING: SERIES RATED PER MANUFACTURER'S LABEL (24132)26832(24284)

FROM: (NEW) PANEL MDP

LOADS (N VA)	CONNECTED	DEMAND	MINIMUM	LOADS	CONNECTED	DEMAND	MINIMUM	REMAINING	CONTINUOUS LOADS	0	1.25	0
LIGHTING	0	1.25	0	NON-SEASONAL MOTORS	13886	1.0	13886	REMAINING NON-CONTINUOUS LOADS	0	1.0	0	
RECEPTS TO 10 KVA	8192	1.0	8192	LARGEST MOTOR	1280	0.25	315	MISC. DEMAND LOADS	0	1.0	0	
RECEPTS REMAINING	0	0.5	0	WATER HEATING	240	1.0	240	TOTAL CONNECTED LOAD	75.2	KVA	209	AMPS
SPACE HEATING	0	0.0	0	KITCHEN EQUIP.	52920	0.65	34398	TOTAL DEMAND LOAD	57	KVA	158.4	AMPS
AIR CONDITIONING	0	1.0	0									

Note 1. Feeder size: SEE RISER DIAGRAM

UPDATED: 2/23/2024 8:32 am
ISSUED FOR: APPROVAL

(NEW) PANEL C

LOCATION: SERVICE AREA
VOLTAGE: 208Y/120V
TRIM: FLUSH

MAIN: 250A MLO
SYSTEM: 3# 4W
BUS RATING: 250A

CONN. LOAD: 85.1 KVA
FEED: TOP
GROUND BUS: YES

CKT	LOAD SERVED	COND	PHASE	NEUT	ØMD	ØBR	ØMD	L1	L2	L3	ØMD	ØBR	ØMD	PHASE	NEUT	ØMD	LOAD SERVED	CKT
D 1	KITCHEN LIGHTS	1/2"	#12	#12	#12	#12	L	750			L	20/1	1/2"	#12	#12	#12	BUILDING SIGNAGE	2
D 3	RESTROOM LIGHTS	1/2"	#12	#12	#12	#12	L	750			L	20/1	1/2"	#12	#12	#12	BUILDING SIGNAGE	4
D 5	DINING AREA LIGHTS	1/2"	#12	#12	#12	#12	L	1200			L	20/1	1/2"	#12	#12	#12	BUILDING SIGNAGE	6
D 9	DINING AREA LIGHTS	1/2"	#12	#12	#12	#12	L	500			L	20/1	1/2"	#12	#12	#12	FUT. EQUIPMENT	10
D 11	DINING AREA LIGHTS	1/2"	#12	#12	#12	#12	L	500			L	20/1	1/2"	#12	#12	#12	SECURITY LIGHTS	12
D 13	DINING AREA LIGHTS	1/2"	#12	#12	#12	#12	L	500			L	20/1	1/2"	#12	#12	#12	(N) AC-2	14
D 15	SERVING AREA LIGHTS	1/2"	#12	#12	#12	#12	L	500			L	20/1	1/2"	#12	#12	#12	SECURITY LIGHTS	16
D 17	MENU BOARDS	1/2"	#12	#12	#12	#12	L	500			L	20/1	1/2"	#12	#12	#12	SECURITY LIGHTS	18
D 19	DIRECTIONAL SIGNS	1/2"	#12	#12	#12	#12	L	1200			L	20/1	1/2"	#12	#12	#12	EXTERIOR LIT	20
E 21	PARKING LOT LIGHTS	1/2"	#12	#12	#12	#12	L	1200			L	20/1	1/2"	#12	#12	#12	EXTERIOR LIT	22
E 23	PARKING LOT LIGHTS	1/2"	#12	#12	#12	#12	L	1200			L	20/1	1/2"	#12	#12	#12	EXTERIOR LIT	24
E 25	PARKING LOT LIGHTS	1/2"	#12	#12	#12	#12	L	3800			L	40/3	3/4"	#	#	#	(N) AC-2	26
E 27	PARKING LOT LIGHTS	1/2"	#12	#12	#12	#12	L	3800			L	40/3	3/4"	#	#	#	(N) AC-2	28
E 29	PARKING LOT LIGHTS	1/2"	#12	#12	#12	#12	L	3800			L	40/3	3/4"	#	#	#	(N) AC-2	30
E 31	PARKING LOT LIGHTS	1/2"	#12	#12	#12	#12	L	1700			L	20/1	1/2"	#12	#12	#12	ICE MAKER	32
E 33	MENU BOARDS	1/2"	#12	#12	#12	#12	L	500			L	20/1	1/2"	#12	#12	#12	ICE MAKER	34
E 35	FREEZER COOLER LITS	1/2"	#12	#12	#12	#12	L	1700			L	20/1	1/2"	#12	#12	#12	ICE MAKER	36
G 37	MAN ID SIGN	1/2"	#12	#12	#12	#12	L	1200			L	20/1	1/2"	#12	#12	#12	DRIVE THRU CANOPY	38
G 39	MAN ID SIGN	1/2"	#12	#12	#12	#12	L	1200			L	20/1	1/2"	#12	#12	#12	BUILDING SIGNAGE	40
G 41	MAN ID SIGN	1/2"	#12	#12	#12	#12	L	1200			L	20/1	1/2"	#12	#12	#12	BUILDING SIGNAGE	42
G 43	CANOPY FANS	3/4"	#	#	#	#	L	1500			L	20/1	1/2"	#12	#12	#12	ICE MAKER	44
G 45	CANOPY FANS	3/4"	#	#	#	#	L	1500			L	20/1	1/2"	#12	#12	#12	ICE MAKER	46
B 49	UC REFRIG	1/2"	#12	#12	#12	#12	K	800			K	20/1	1/2"	#12	#12	#12	SPARE	50
B 51	FUTURE UC REFRIG	1/2"	#12	#12	#12	#12	K	800			K	20/1	1/2"	#12	#12	#12	SPARE	52
B 53	FUTURE EQUIP	1/2"	#12	#12	#12	#12	K	180			K	20/1	1/2"	#12	#12	#12	EXTERIOR REC	54
B 55	SALAD PREP TABLE	1/2"	#12	#12	#12	#12	K	800			K	20/1	1/2"	#12	#12	#12	CONTROL PANEL	56
B 57	MULTI USE CABINET	3/4"	#	#	#	#	K	800			K	20/1	1/2"	#12	#12	#12	JUICE DISPENSER	58
B 59	WATER FILTRATION	1/2"	#12	#12	#12	#12	R	800			R	20/1	1/2"	#12	#12	#12	4420WT- UC REFRIG	60
B 61	THAWING CABINET	1/2"	#12	#12	#12	#12	R	800			R	20/1	1/2"	#12	#12	#12	4420WT- UC REFRIG	62
B 63	503- EGG STATION	1/2"	#10	#10	#10	#10	R	1200			R	30/2	1/2"	#10	#10	#10	503- EGG STATION	64
B 65	SINGLE DISPENSER	1/2"	#12	#12	#12	#12	R	800			R	20/1	1/2"	#12	#12	#12	4420WT- UC REFRIG	66
B 67	SINGLE DISPENSER	1/2"	#12	#12	#12	#12	R	800			R	20/1	1/2"	#12	#12	#12	4420WT- UC REFRIG	68
B 69	DAR PRO REC	1/2"	#12	#12	#12	#12	R	180			R	20/1	1/2"	#12	#12	#12	ELECTRIC HEATER	70
B 71	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SPARE	72

INTERRUPT RATING: SERIES RATED PER MANUFACTURER'S LABEL (30168)29308(25608)

FROM: (NEW) PANEL MDP

LOADS (N VA)	CONNECTED	DEMAND	MINIMUM	LOADS	CONNECTED	DEMAND	MINIMUM	REMAINING	CONTINUOUS LOADS	0	1.25	0
LIGHTING	26380	1.25	31260	NON-SEASONAL MOTORS	2160	1.0	2160	REMAINING NON-CONTINUOUS LOADS	0	1.0	0	
RECEPTS TO 10 KVA	380	0.5	315	LARGEST MOTOR	15480	0.25	3870	MISC. DEMAND LOADS	0	1.0	0	
RECEPTS REMAINING	0	0.5	0	WATER HEATING	0	1.0	0	TOTAL CONNECTED LOAD	85.1	KVA	236.3	AMPS
SPACE HEATING	8000	0.0	0	KITCHEN EQUIP.	22324	0.65	14511	TOTAL DEMAND LOAD	81.5	KVA	228.4	AMPS
AIR CONDITIONING	0	1.0	0									

Note 1. Feeder size: SEE RISER DIAGRAM

UPDATED: 10/9/2023 10:47 am
ISSUED FOR: APPROVAL

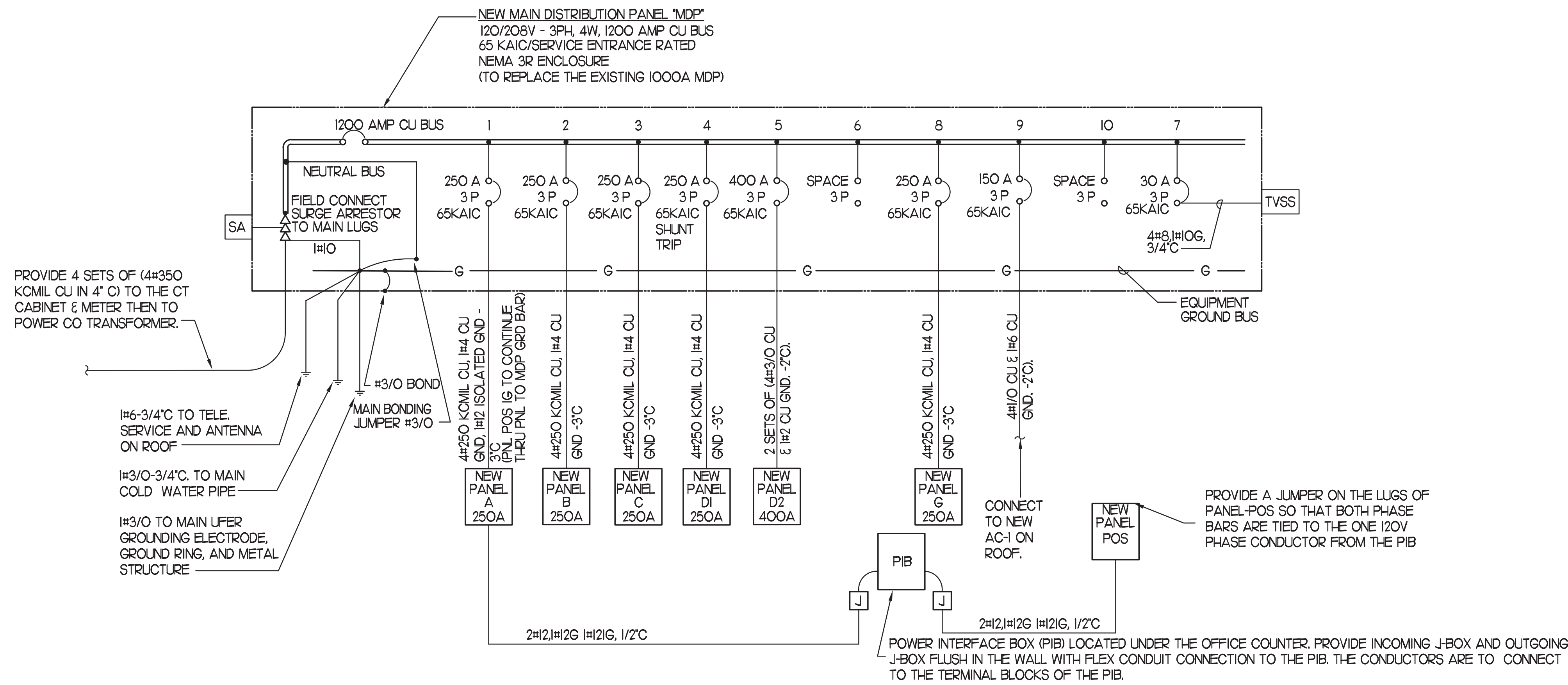
(NEW) PANEL D2

LOCATION: SERVICE AREA
VOLTAGE: 208Y/120V
TRIM: FLUSH

MAIN: 400A MLO
SYSTEM: 3# 4W
BUS RATING: 400A

CONN. LOAD: 168.6 KVA
FEED: TOP
GROUND BUS: YES

CKT	LOAD SERVED	COND	PHASE	NEUT	ØMD	ØBR	ØMD	L1	L2	L3	ØMD	ØBR	ØMD	PHASE	NEUT	ØMD	LOAD SERVED	CKT
SB 1	OPEN FRYER	1-1/4"	#3	#3	#3	#3	N	2300			K	30/3	1/2"	#10	#10	#10	500A- VCTOR OVEN	2
3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SPARE	4
5	SPARE	-	-	-	-													



1 NEW SINGLE LINE DIAGRAM

NOT TO SCALE

3 SINGLE LINE DIAGRAM NOTES

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

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 CONTRACTORS 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.

4 SWITCHGEAR AND CONTROL EQUIPMENT NOTES:

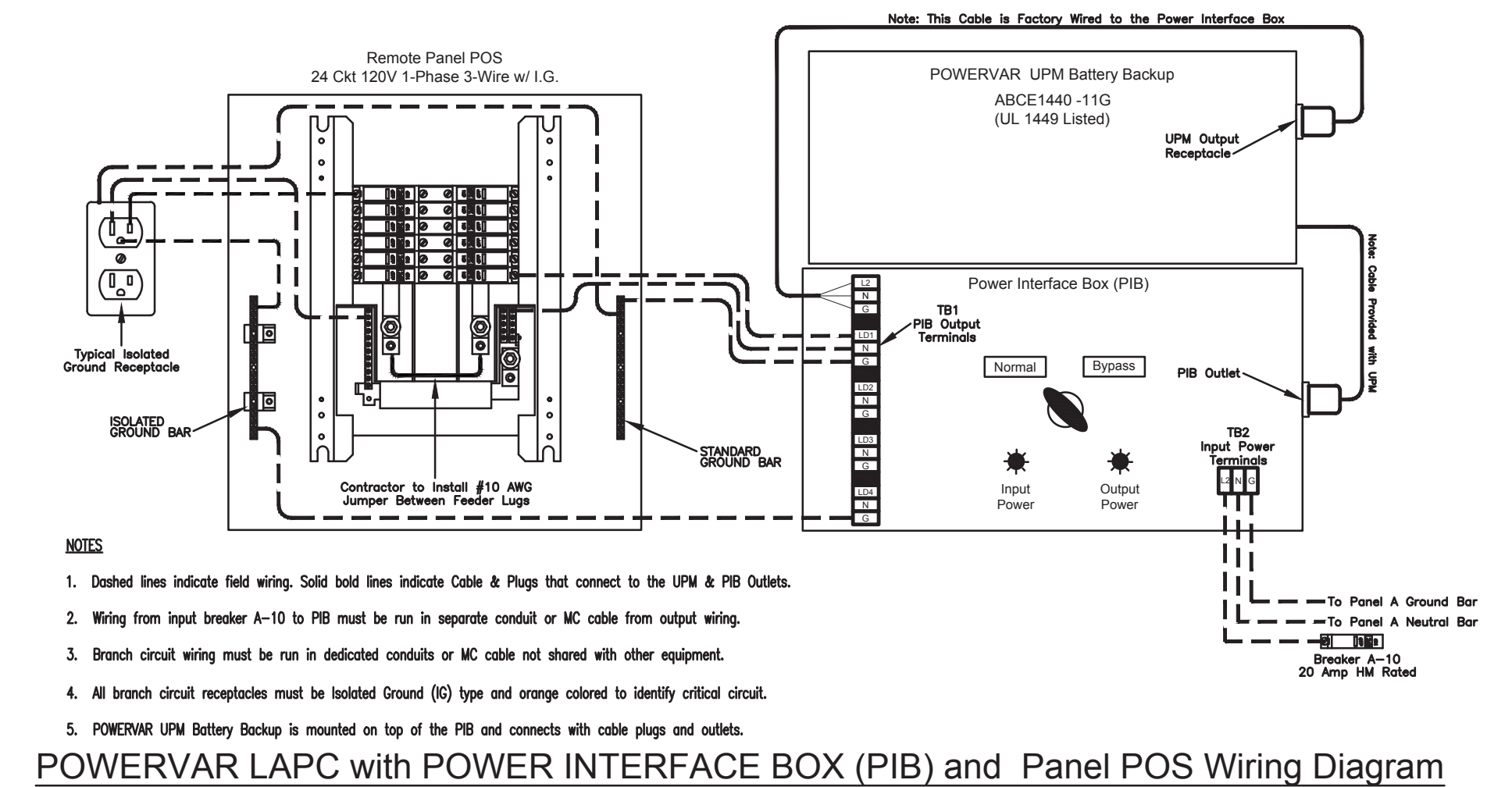
- PURCHASE PANELBOARDS, SURGE ARRESTOR, AND TVSS FROM ONE OF THE TWO NATIONAL ACCOUNTS VENDORS (SEE SHEET E4.2 SECTION C16440, PANELBOARDS) PROVIDING SIEMENS OR SQUARE D EQUIPMENT NO SUBSTITUTIONS ALLOWED
 - PURCHASE CONTROL PANEL "CFA-T500" OR ANY ADDITION SUB PANELS FROM SUNCOAST ENVIRONMENTAL, INC. (NO SUBSTITUTIONS ALLOWED) ALL EQUIPMENT IN THE CONTROL PANEL SHALL BE INSTALLED, WIRED AND CONNECTED AT THE FACTORY, INCLUDING: AUTOMATIC LIGHTING CONTROL SYSTEM, LIGHTING RELAYS, HVAC STARTERS, POWER SUPPLIES, MISCELLANEOUS RELAYS AND CONTROLS, AND THERMOSTATS. CONTACT: SCOTT DYER (877)544-6679.
- CONTRACTOR SHALL PROVIDE PANEL FEEDERS A, B, C, D, I, D2, G & POS BRANCH CIRCUIT CONDUIT AND WIRE, AND INSTALL ALL EQUIPMENT AS REQUIRED.
- ALL BREAKERS AND PANELS SHALL BE SIEMENS OR SQUARE D, DEPENDING ON THE CHICK-FILA REGION THE STORE IS LOCATED.
- SQUARE D EQUIPMENT: CONTACT GRAY BAR.
- SIEMENS EQUIPMENT: CONTACT SUNCOAST.
- SCOTT DYER (877)544-6679.
- TVSS AND SURGE ARRESTOR UNITS SHALL BE MOUNTED DIRECTLY ADJACENT TO THE SIDE OF THE MAIN DISTRIBUTION PANEL IN NEMA 3R ENCLOSURES. CLOSE NIPLLE THE UNITS TO THE SIDE OF THE PANEL. PROVIDE CONNECTION OF TVSS UNIT TO BREAKER IN PANEL. CONNECT SURGE ARRESTOR TO MAIN INCOMING LUGS OF THE PANEL. CONNECT USING MINIMUM LENGTH OF WIRE WITHOUT SHARP BENDS IN THE WIRE AND NOT BE LENGTHENED FROM WIRE LENGTH PROVIDED WITH THE TVSS OR SURGE SUPPRESSOR DEVICE.

Voltage Drop Calculations

SERIAL POINT	BUS/FEEDER DESCRIPTION	PHASE	SOURCE POINT	FEEDER			CONDUCTOR					VOLTAGE DROP %VD	TOTAL V.D. %VD CUM	FAULT POINT (F#)				
				CONDUIT TYPE	MATERIAL CU OR AL	#	WIRE/BUS SIZE	L-L VOLTS (E)	CIRCUIT LENGTH (L)	LOAD POWER FACTOR (PF)	CIRCUIT LOAD (A)				RESISTANCE (R)	REACTANCE (X)	KVA	DEGREE RISE
1	UTILITY SERVICE POINT														1			
2	NEW PANEL "MDP"	3	1	M	CU	4	SET(S) OF 350 KCMIL	208	80	0.9	1073.1	0.030	0.050			1.02	1.02	2
3	NEW AC #1	3	2	M	CU	1	SET(S) OF 1/0 AWG	208	40	0.9	142	0.120	0.055			0.82	1.84	3
4	NEW PANEL "B"	3	2	M	CU	1	SET(S) OF 250 KCMIL	208	15	0.9	208.9	0.054	0.052			0.19	1.20	4
5	AC #3	3	3	M	CU	1	SET(S) OF 3 AWG	208	75	0.9	43	0.250	0.059			0.67	1.83	5

LOAD SUMMARY
(NOT ALL ELECTRIC RESTAURANT)
THE FOLLOWING IS BASED ON NEC 2020

LIGHTING	25380
RECEPTS TO 10 KVA	10000
RECEPTS REMAINING	12492
SPACE HEATING	0
AIR CONDITIONING	110340
NON-SEASONAL MOTORS	28925
WATER HEATER	240
KITCHEN EQUIPMENT	216325
CONTINUOUS LOADS	0
NON-CONTINUOUS LOADS	197400
TOTAL CONNECTED KVA	600.8 KVA
IF TOTAL IS 0-200 KVA, THEN TOTAL LOAD 100%	
IF TOTAL IS 201-325 KVA, THEN LOAD OVER 200 AT 50% + 200	
IF TOTAL LOAD IS 326-800 KVA, THEN LOAD OVER 325 AT 45% + 262.5	386.6
IF TOTAL LOAD IS OVER 800 KVA, THEN LOAD OVER 800 AT 20% + 476.3	
DIVERSIFIED AMPS AT 208 VOLT	1073.1 AMPS



2 CONDUIT AND CONDUCTORS SCHEDULE (Based on 2005, 2008, 2011, 2014, 2017 AND 2020 NEC)

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

Notes:
Conductors are rated at 600 volt or below and are to be copper.
NEC Table 310.16 (310.15(B)(16) in 2020) is used for the basis of the conductor ampacities, which is not more than three current carrying conductors in a raceway at an ambient temperature of 30 deg C with 80 deg C rated conductors and connectors per 110.14-C-1 for up to 100 amp rated and up to #1 AWG conductors for equipment terminations and 75 deg C rated conductors and termination connectors for larger than 100 amp or above #1 AWG conductors.
NEC Tables 4, 5, and Appendix C is used for the basis of the conduit sizes. Table C1 for EMT, Table C4 for IMC, Table C8 for Rigid, and Table C10 for PVC (Sch 40).
All Branch Feeders and Branch Circuits shall include a green Equipment Grounding Conductor.
Omit Grounding conductor on Service Entrance Feeders.
Omit Neutral conductor on all Delta primary transformer feeders or 3 phase loads not requiring a neutral.
The above conductors are not calculated for Voltage Drop. Any circuits that exceed 100 feet shall be calculated by the installer to have less than a three percent voltage drop on feeders and five percent on branch circuits per the NEC.



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