



Chick-fil-A

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

INTERPLAN
INTERPLAN LLC
AR0011595
CA 8660
ARCHITECTURE
ENGINEERING
PERMITTING

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

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CHICK-FIL-A
THE RIDGE
5023 Highway 90
Pace, FL, 32571

FSR#01715

BUILDING TYPE / SIZE: S04-162
RELEASE: 02.15.22

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CONSTRUCTION

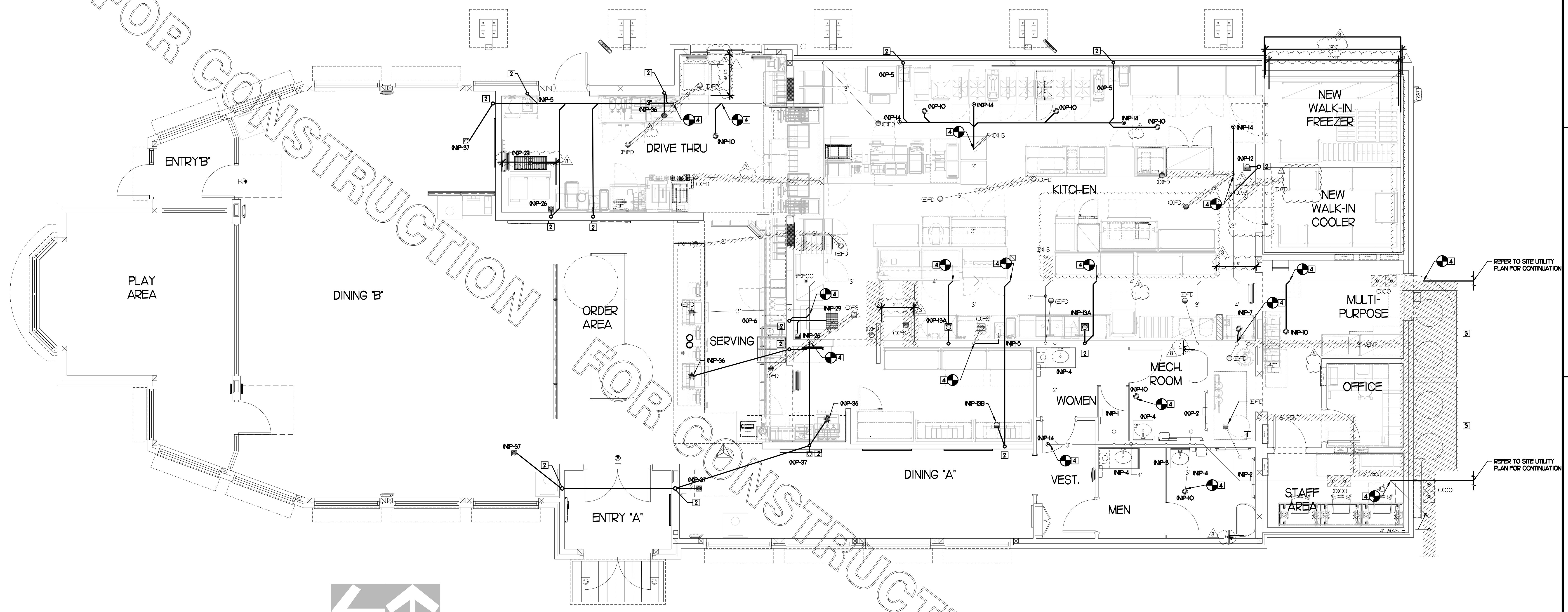
REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 2020.0260
DATE 02.2022
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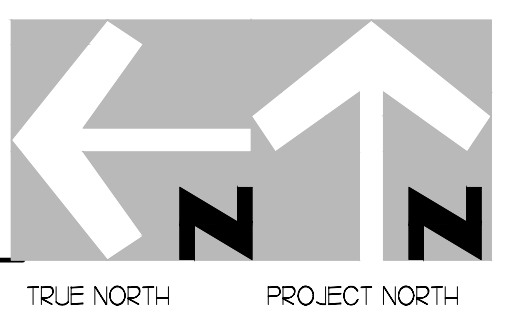
BELOW SLAB PLUMBING PLAN

SHEET NUMBER
P1.1

maribr - 08/05/2022 11:08:04 AM



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



PLUMBING KEY NOTES

- 1 EXISTING WATER HEATER TO BE REPLACE WITH NEW P.H.P.
- 2 PROVIDE NEW 2" VENT IN WALL. MAKE FINAL PLUMBING MODIFICATIONS.
- 3 EXISTING GREASE TRAP TO BE REMOVED.
- 4 CONNECT TO EXISTING WASTE LINE AS INDICATED, VERIFY FALL, FLOW DIRECTION AND CONNECTING INVERTS.

LEGEND

EW	EXISTING	PR	PIPING TO BE REMOVED
N	NEW	POD	POINT OF DISCONNECTION
R	RELOCATED	POC	POINT OF CONNECTION
D	DEMOLISHED	KE	KITCHEN EQUIPMENT TAG
FS	FLOOR SINK		
HS	HAND SINK		
FD	FLOOR DRAIN		
HD	HUB DRAIN		

2. SHEET NOTES

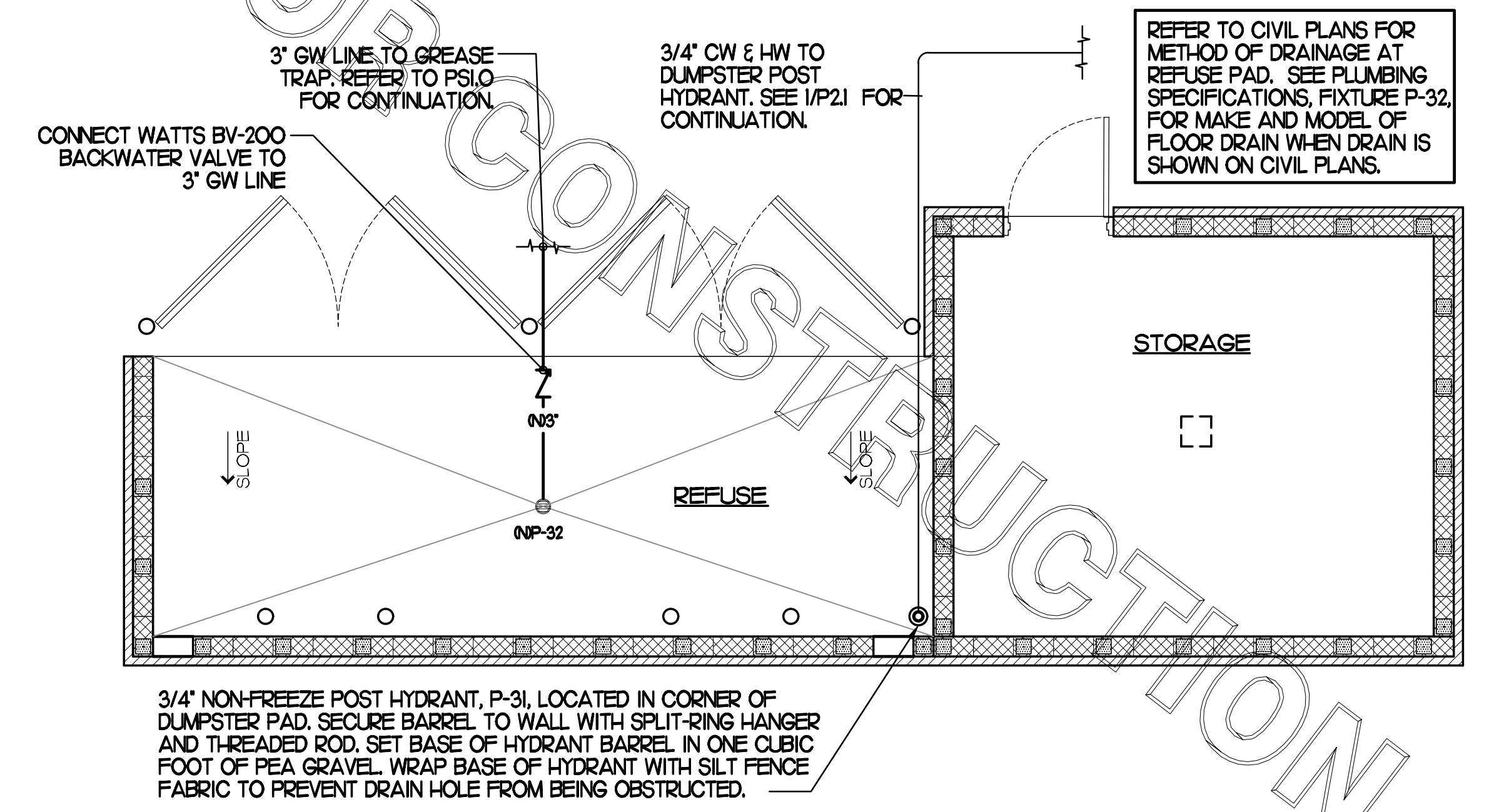
- 1 COORDINATE INSTALLATION OF SANITARY PIPING WITH FOOTINGS IN THE FIELD. SLURRY PENETRATIONS IN FOOTINGS WITH PVC.
- 2 WHERE REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION, PROVIDE SAFE WASTE SYSTEM AS OUTLINED IN STATE AND LOCAL CODE AMENDMENTS.
- 3 ALL VENT PIPING TO BE 1/2" DIAMETER UNO. SEE IPSJ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

FIELD VERIFY ALL CONDITIONS

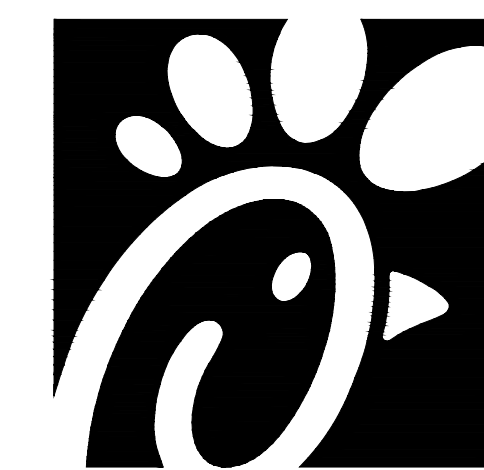
NOTES: AS NOTED IN THE SPECIFICATIONS, ALL WIRING LAYOUTS, PIPING LAYOUTS AND DUCT LAYOUTS ARE SCHEMATIC EXACT LOCATIONS SHALL BE DETERMINED BY THE CONSTRUCTION AND STRUCTURE OF THE BUILDING AND SHALL BE VERIFIED AND COORDINATED IN THE FIELD. EACH TRADE CONTRACTOR SHALL VERIFY WITH THE GENERAL CONTRACTOR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

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



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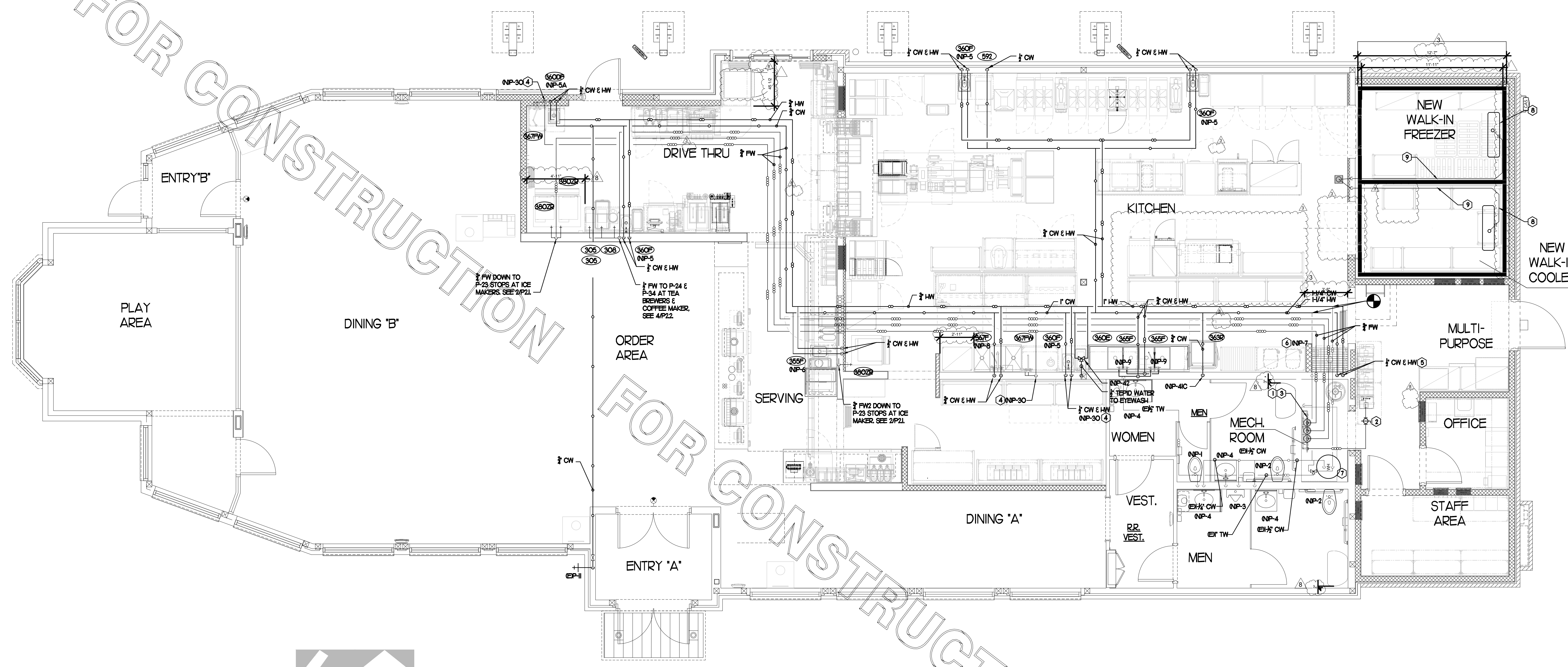
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SHEET WATER PIPING PLAN & DETAILS

SHEET NUMBER

P2.1

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1 WATER PIPING PLAN
SCALE: 1/4"=1'-0"
TRUE NORTH PROJECT NORTH

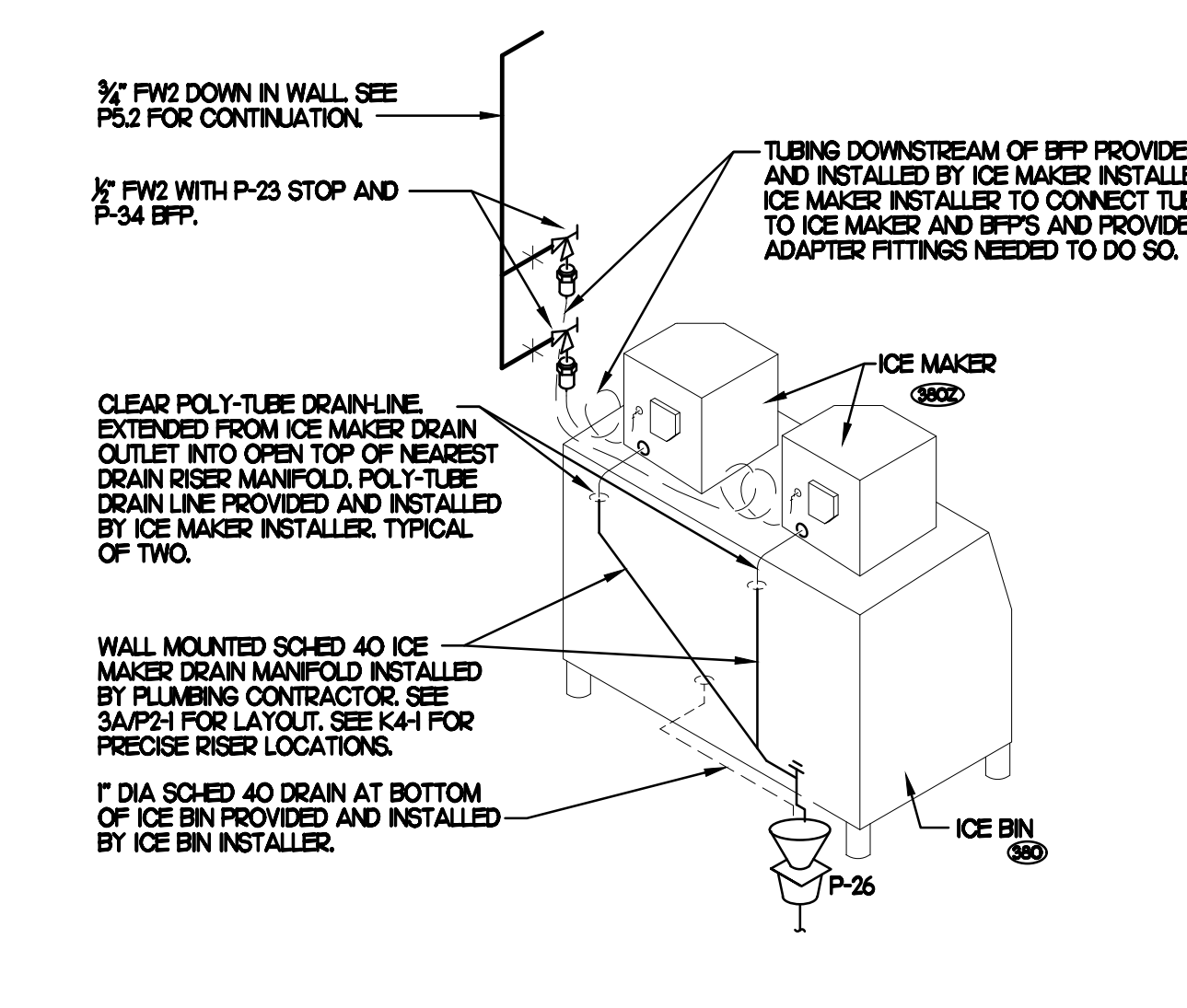
KEY NOTES

- 1 PROVIDE NEW WATER FILTERS TO REPLACE EXISTING. VERIFY EXACT LOCATION AND CONNECTIONS PRIOR TO BID & CONSTRUCTION. SEE DETAILS ON SHEET P61.
- 2 OWNER PROVIDED, PLUMBER INSTALLED STOP/BFP 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 BFP DRAIN TIGHT TO WALL TO 12" A.F.F. EIGHT (8) ASSE 1022 RATED BFPs. PIPING FROM BFPs TO CARBONATES SHALL BE BY THE LOCAL SOFT DRINK VENDOR.
- 3 RUN NEW FW AND FW2 FROM EXISTING WATER FILTERS, AND DEMOLISH ALL EXISTING FW AND FW2.
- 4 3/4" FW DROP TO TWO-HANDLE FAUCET, P-30. MOUNT FAUCET ON WALL. SEE K-SHEETS FOR EXACT LOCATION. PIPE 1/2" FW TO EACH FAUCET INLET WITH 6" SPREAD. PROVIDE BALL VALVE ABOVE CEILING.
- 5 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.
- 6 INSTALL P-16 3-WAY VALVE WITH BACKFLOW PREVENTER ON P-7 FAUCET SPOUT FOR CONNECTION TO ECOLAB DETERGENT DISPENSER. SEE DETAIL 4/P21.
- 7 EXISTING WATER HEATER TO BE REPLACED WITH NEW, P-19. SEE P71 FOR SPECIFICATION. SEE DETAILS ON P61 FOR PIPING CONNECTIONS TO WATER HEATER.
- 8 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 PERMASUM COOK. TERMINATE ABOVE FUNNEL WITH ELBOW AND AIR GAP.
- 9 3/4" TYPE L COPPER. PROVIDE 12" OF FALL BEFORE PENETRATING WALL PANEL. COVER WITH 1-3/4" LD X 3/4" ARMACEL AP ARMAFLEX OVER HEAT TRACE CABLE.

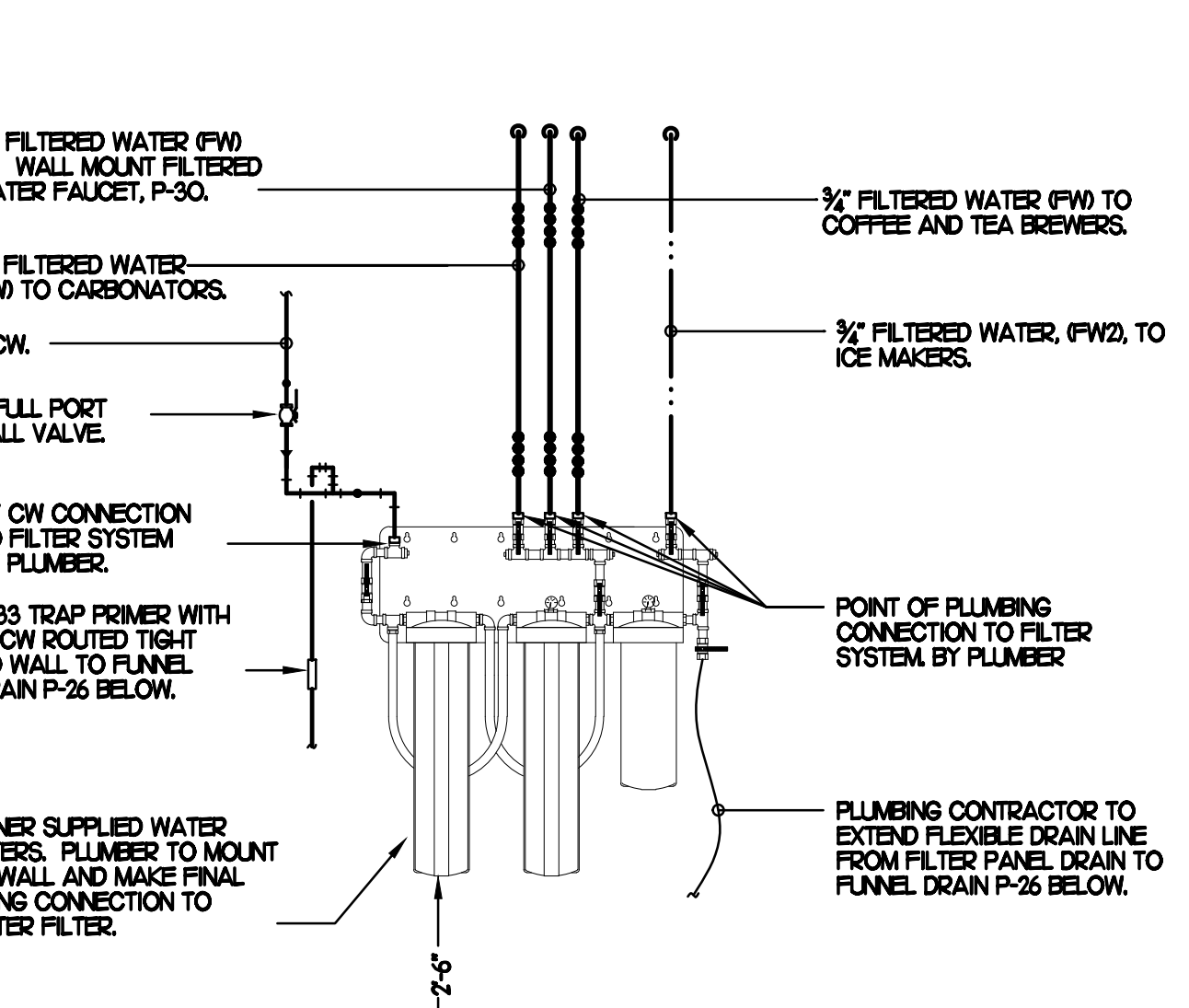
3. SHEET NOTES

- 1 COORDINATE VENT TERMINAL LOCATIONS WITH FRESH AIR HOODS ON ROOFTOP EQUIPMENT SO AS TO MAINTAIN MINIMUM 10'-0" CLEARANCE.
- 2 HOLD ALL PIPING ABOVE THE CEILING TIGHT TO STRUCTURE. DUCT LOCATIONS TAKE PRIORITY. SEE DRAWING M1 FOR DUCT LAYOUT. COORDINATE CONFLICTS WITH GC.
- 3 SEE K-SHEET ELEVATIONS FOR KITCHEN EQUIPMENT LOCATIONS.
- 4 SEE SHEET P-22 FOR BEVERAGE CONDUIT PIPING.
- 5 SEE RISER DIAGRAM 1/P51 FOR VENT THRU ROOF (VTR) LOCATION.
- 6 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.

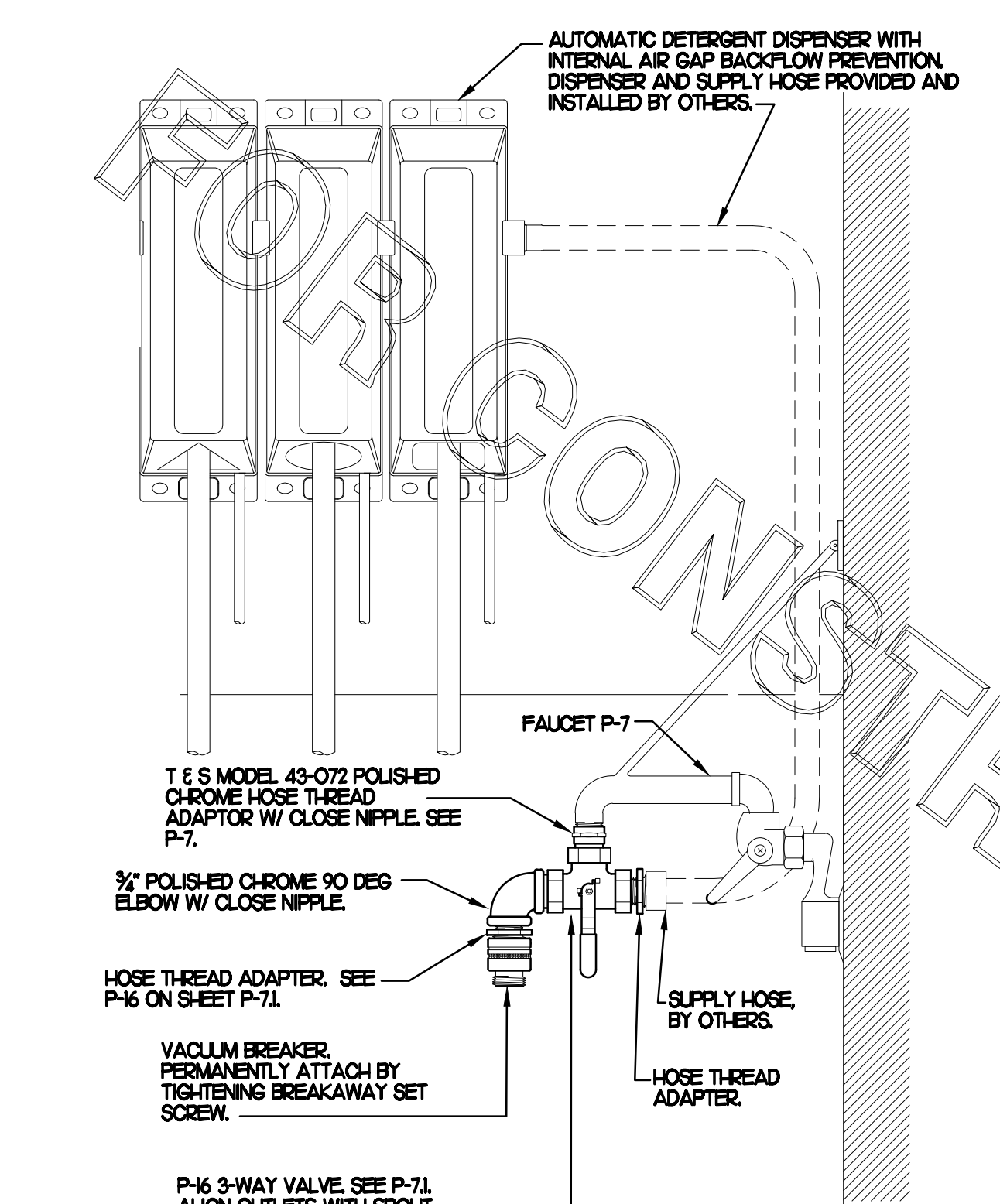
2 ICE MACHINE PIPING
NO SCALE



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



4 3-WAY VALVE AT MOP SINK
NO SCALE





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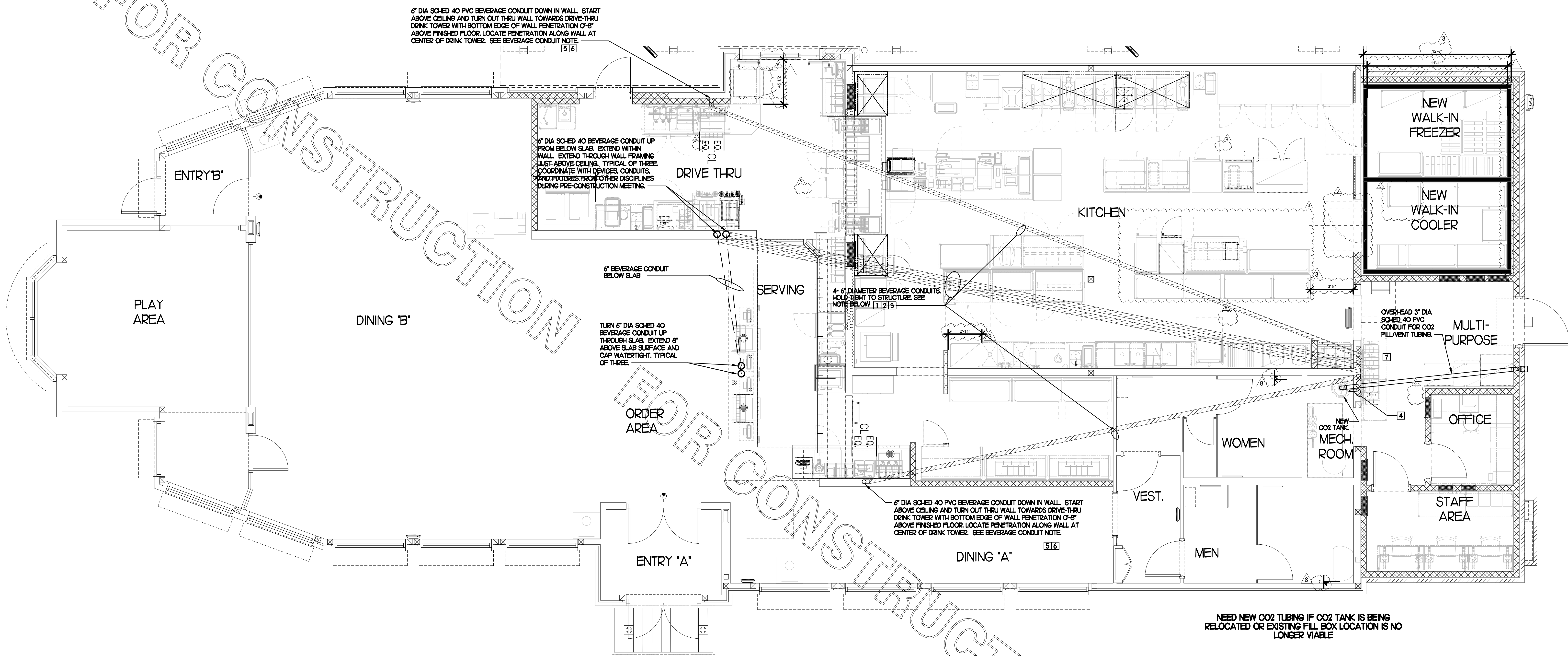
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SHEET PLUMBING DETAILS & BEVERAGE CONDUIT

SHEET NUMBER

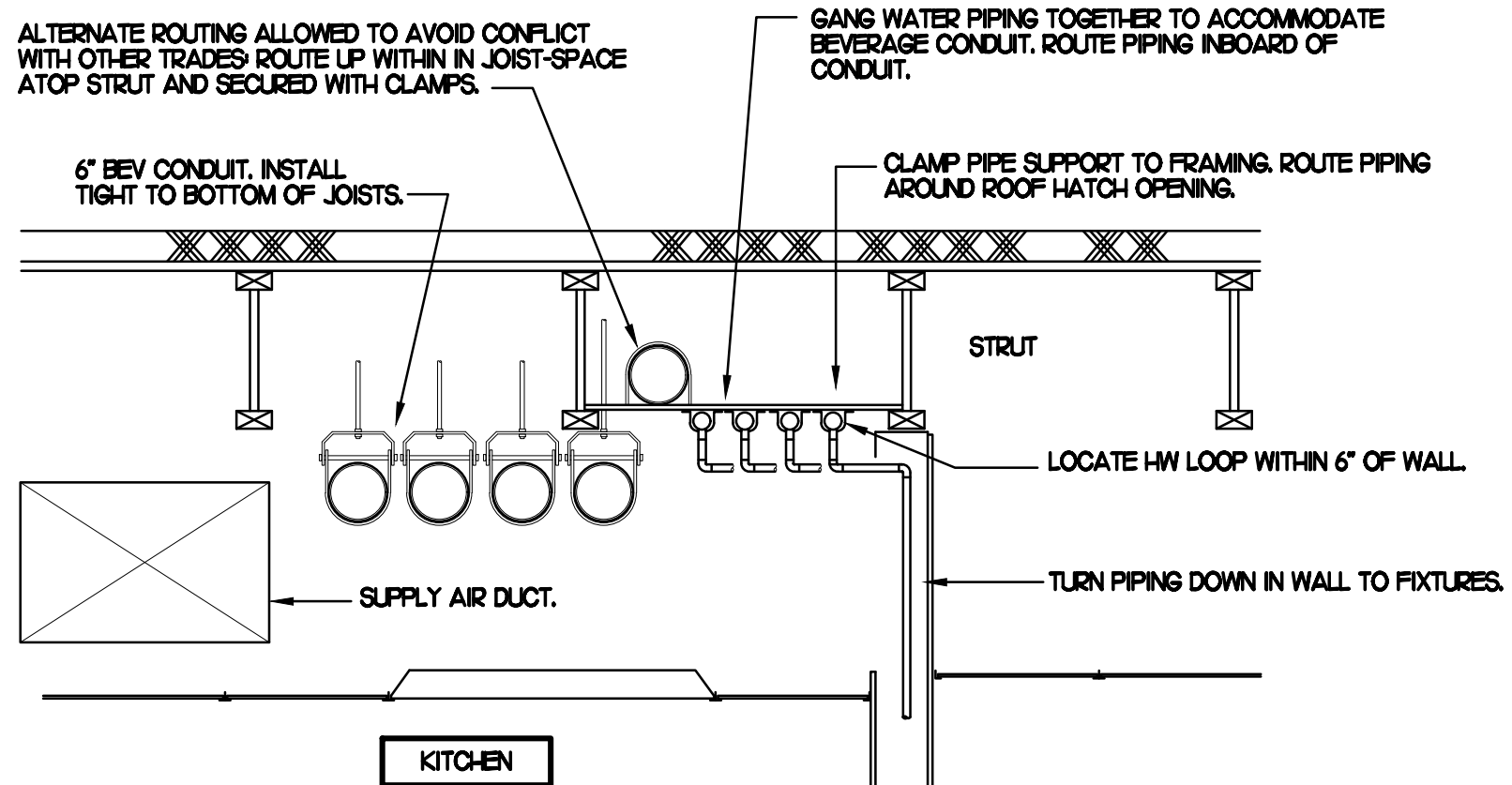
P2.2

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 STRUCTURE, 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.

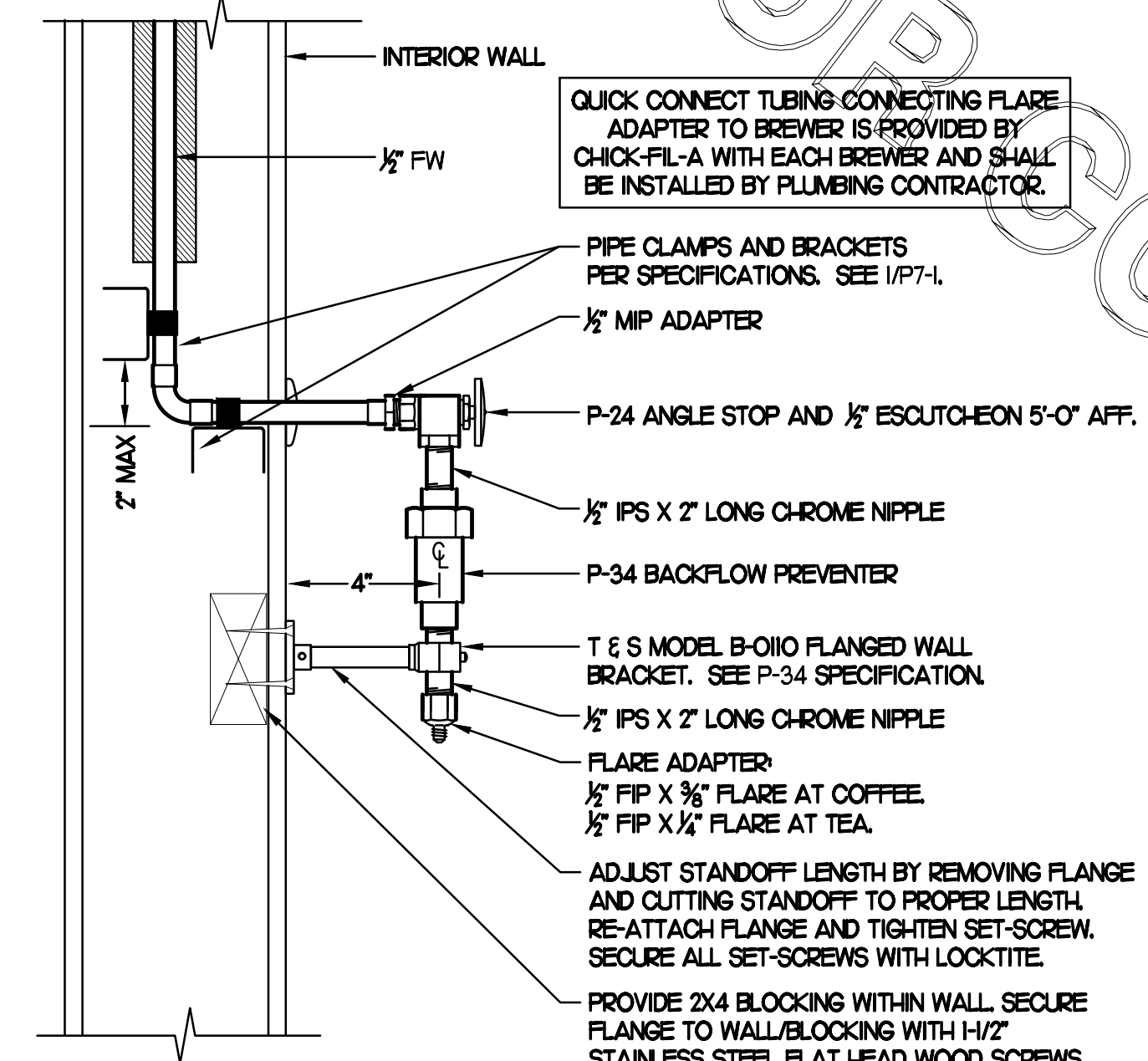


1 BEVERAGE CONDUIT PLAN
1/4"=1'-0"
TRUE NORTH PROJECT NORTH

- BEVERAGE CONDUIT NOTES**
- ROUTE BEVERAGE SYSTEM PIPING OVERHEAD 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 HANGERS AT INTERVALS SHOWN IN SPECIFICATIONS FOR HORIZONTAL OVERHEAD PIPING. COORDINATE ROUTING WITH THE GENERAL CONTRACTOR TO AVOID MECHANICAL AND ELECTRICAL SYSTEMS.
 - COORDINATE ROUTING OF ALL CONDUITS WITH HVAC DUCT IN KITCHEN. SEE SHEET MHU 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.
 - REROUTE 2" CO2 PIPE TO NEW BIB RACK.
 - AT CONDUIT DROPS IN DRIVE-THRU AND SERVING AREA, PROVIDE 1/8TH 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 BIB RACK WITH CARBONATORS AND PUMPS.



2 SECTION AT WET WALL
SCALE: NONE



3 COFFEE & TEA BREWER STOP & BFP
SCALE: NONE



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3	08/10/22	RTU RELOCATION

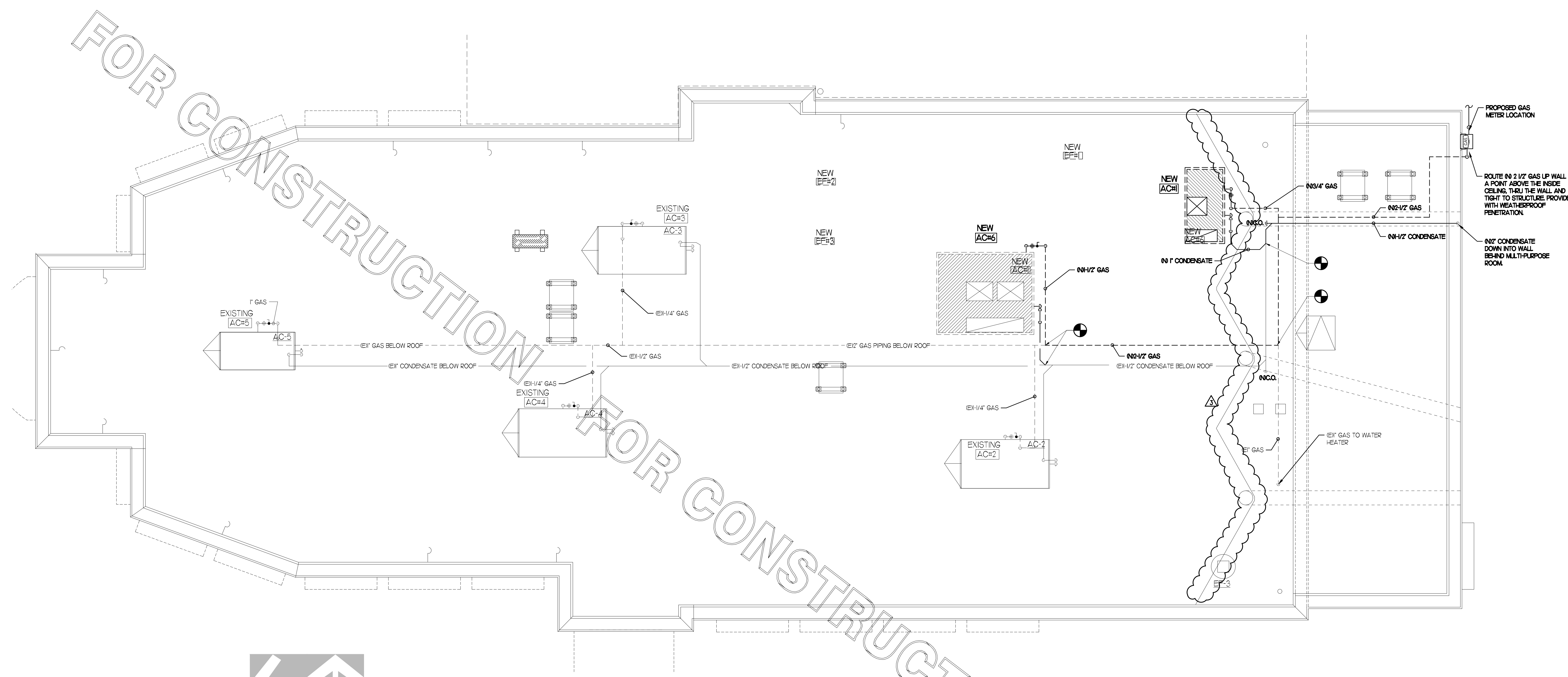
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SHEET
ROOF PIPING PLAN

SHEET NUMBER
P4.1



1 ROOF PIPING PLAN
SCALE: 1/4"=1'-0"
TRUE NORTH PROJECT NORTH

PIPING LEGEND

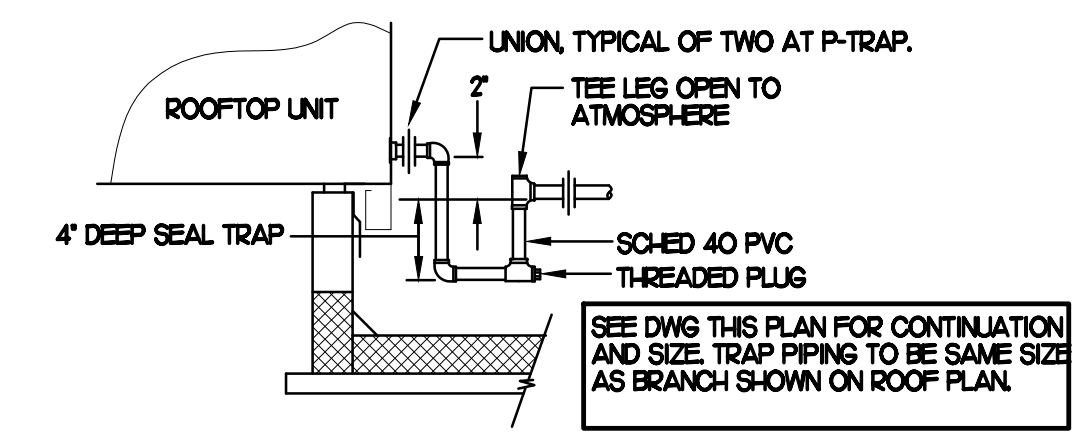
EX	EXISTING
NO	NEW
---	NEW PIPING
---	EXISTING PIPING
---	BELOW GRADE (B/G) PIPING

PIPING ON ROOF SHALL NOT BE INSTALLED NEARER THAN 1'-0" FROM INSIDE EDGE OF PARAPET, UNO.

OFFSET PIPING A MINIMUM OF 6" ABOVE TOP EDGE OF FLASHING.

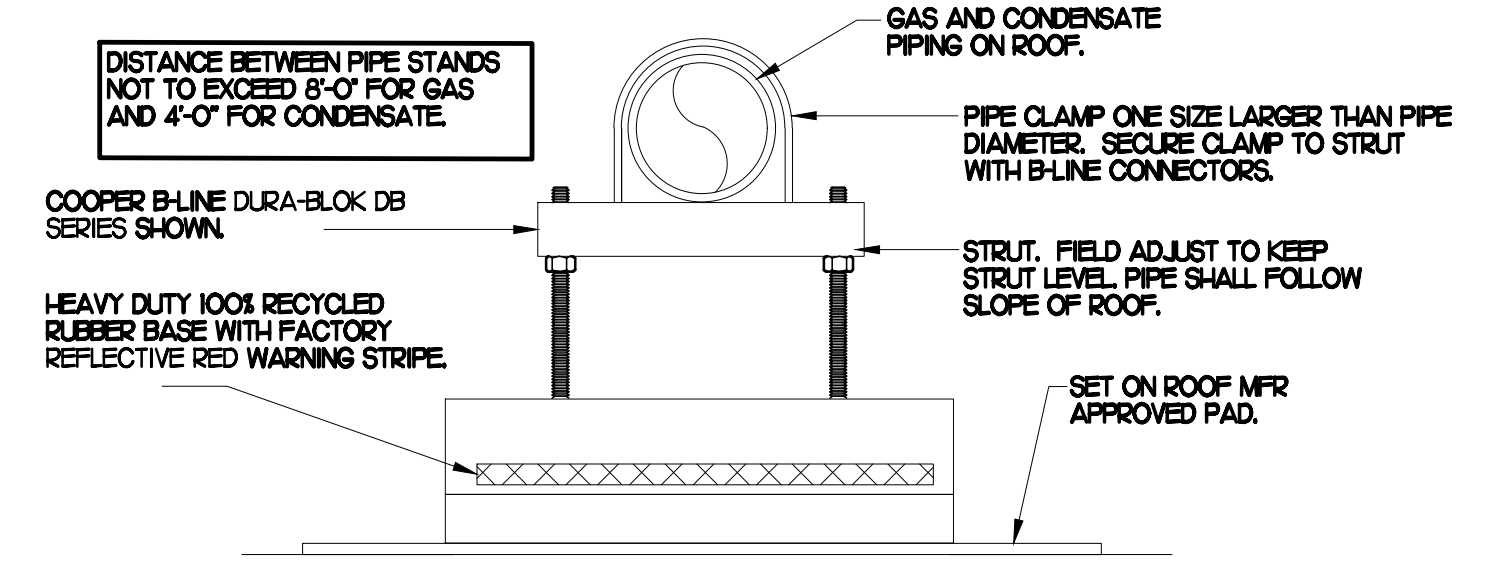
SEE DETAIL 6/A-1-B FOR ROOFTOP PIPE PENETRATIONS.

CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC.



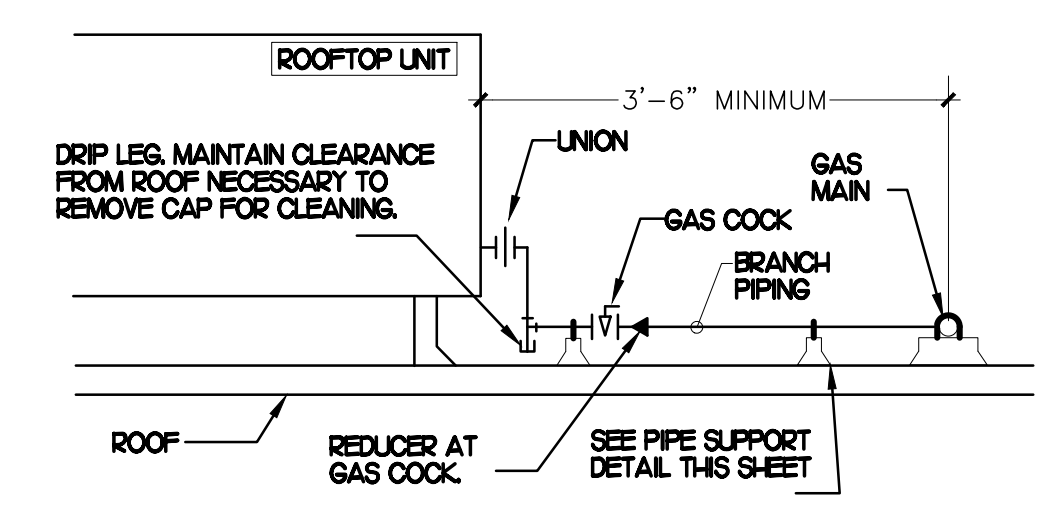
2 CONDENSATE DRAIN PIPING
NO SCALE

- NOTES**
- NON ADJUSTABLE MODEL DB610 PIPE STAND TO BE USED FOR NON-ELEVATED PIPING INSTALLED FLAT ON ROOF DECK.
 - PROVIDE MODEL DBE 10-8 OR DBE 10-12 OR DBE 10-16 AS NEEDED FOR ELEVATING CONDENSATE PIPING TO MAINTAIN PROPER SLOPE AND FOR GAS PIPING CROSSING OVER CONDENSATE PIPING.
 - ENSURE GAS AND CONDENSATE PIPING DO NOT OBSTRUCT ROOFTOP EQUIPMENT ACCESS OPENINGS. REPAIRING OF SYSTEMS DUE TO CONFLICTS WITH EQUIPMENT ACCESS OPENINGS SHALL BE DONE AT PLUMBING CONTRACTOR'S EXPENSE.



3 PIPING SUPPORT
NO SCALE

- NOTES**
- INSTALL GAS PIPING SUCH THAT HVAC EQUIPMENT ACCESS PANELS AND/OR DOORS ARE IN NO WAY OBSTRUCTED BY PIPING, VALVES, OR SUPPORTS.
 - TO AVOID CONFLICT WITH AC UNIT ACCESS DOORS, INSTALL GAS PIPING NO CLOSER THAN 3'-6" FROM AC UNIT, EXCEPT FOR BRANCH LINE CONNECTED TO AC UNIT.
 - ROUTE BRANCH TAKE-OFF DIRECTLY FROM MAIN TO ROOFTOP UNIT AS SHOWN ON PLAN AND DETAILS WITHOUT LATERAL OFFSETS WHICH MAY OBSTRUCT UNIT ACCESS DOORS.



4 GAS PIPING AT RTU
NO SCALE

5 GAS CONNECTION SCHEDULE

EQUIPMENT	GAS LOAD
NEW AC#1	480,000 BTUS
EXISTING AC#2	235,000 BTUS
EXISTING AC#3	235,000 BTUS
EXISTING AC#4	235,000 BTUS
EXISTING AC#5	125,000 BTUS
NEW AC#6	65,000 BTUS
NEW WATER HEATER	120,000 BTUS
TOTAL CONNECTED LOAD	1,495,000 BTUS

REMARKS:

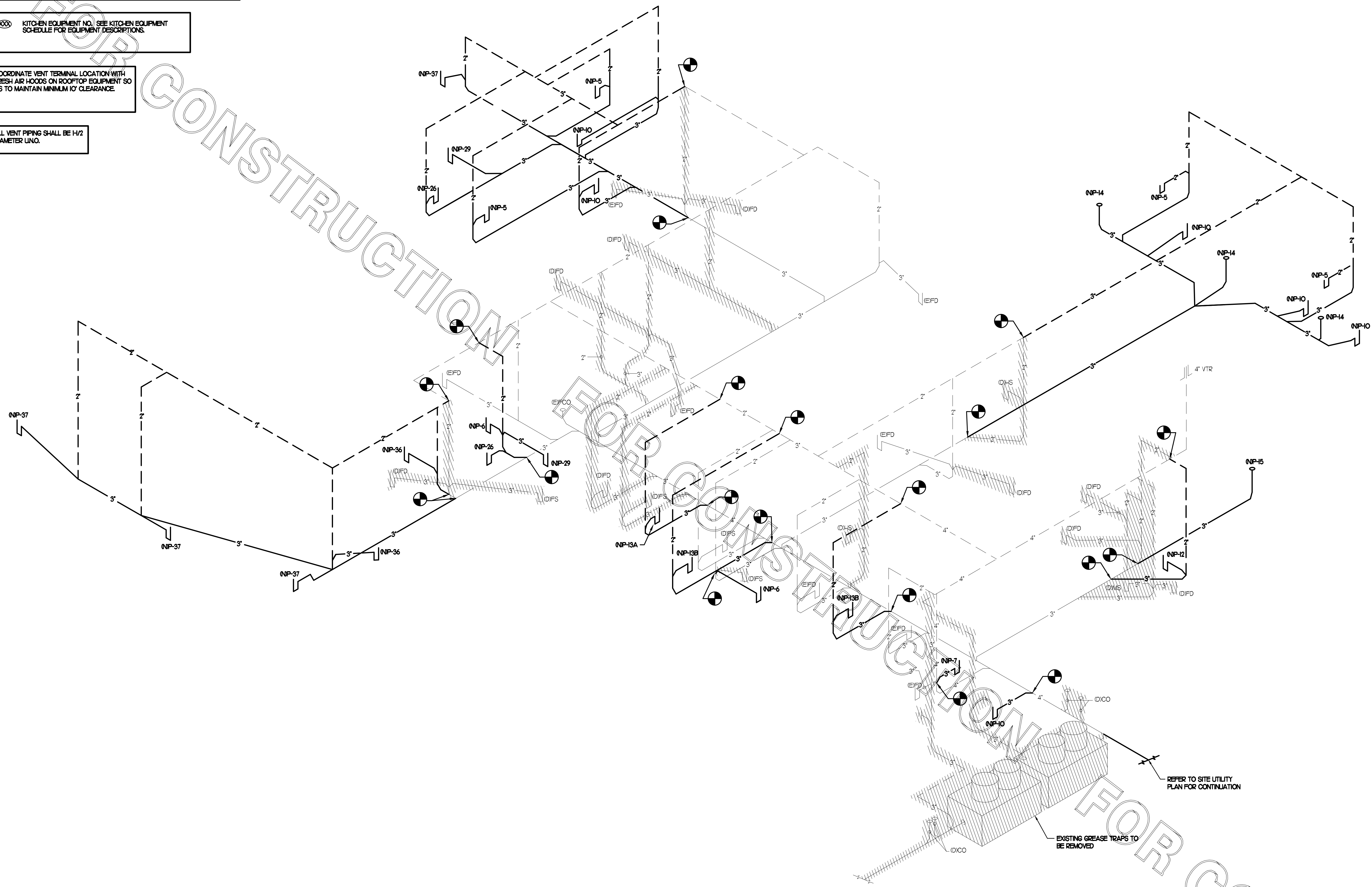
- EQUIVALENT TO 1/495.0 CFH @ PRESSURE DROP 0.5 IN. W.C. W/ DEVELOP LENGTH OF 150 FT
- MINIMUM 7 W.C. DELIVERY PRESSURE

PIPING LEGEND	
EXISTING BELOW SLAB PIPING	---
VENT	---
SANITARY, GREASE WASTE	---

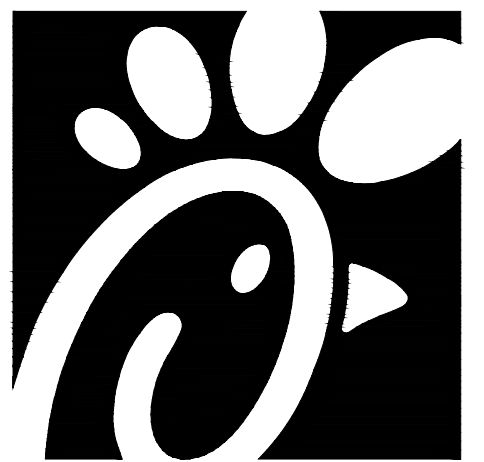
⊗ KITCHEN EQUIPMENT NO. SEE KITCHEN EQUIPMENT SCHEDULE FOR EQUIPMENT DESCRIPTIONS.

COORDINATE VENT TERMINAL LOCATION WITH FRESH AIR HOODS ON ROOFTOP EQUIPMENT SO AS TO MAINTAIN MINIMUM 10' CLEARANCE.

ALL VENT PIPING SHALL BE 1/2" DIAMETER UNO.



I WASTE RISER DIAGRAM
NO SCALE



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SHEET
WASTE RISER DIAGRAM

SHEET NUMBER
P5.1



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SHEET WATER RISER DIAGRAM

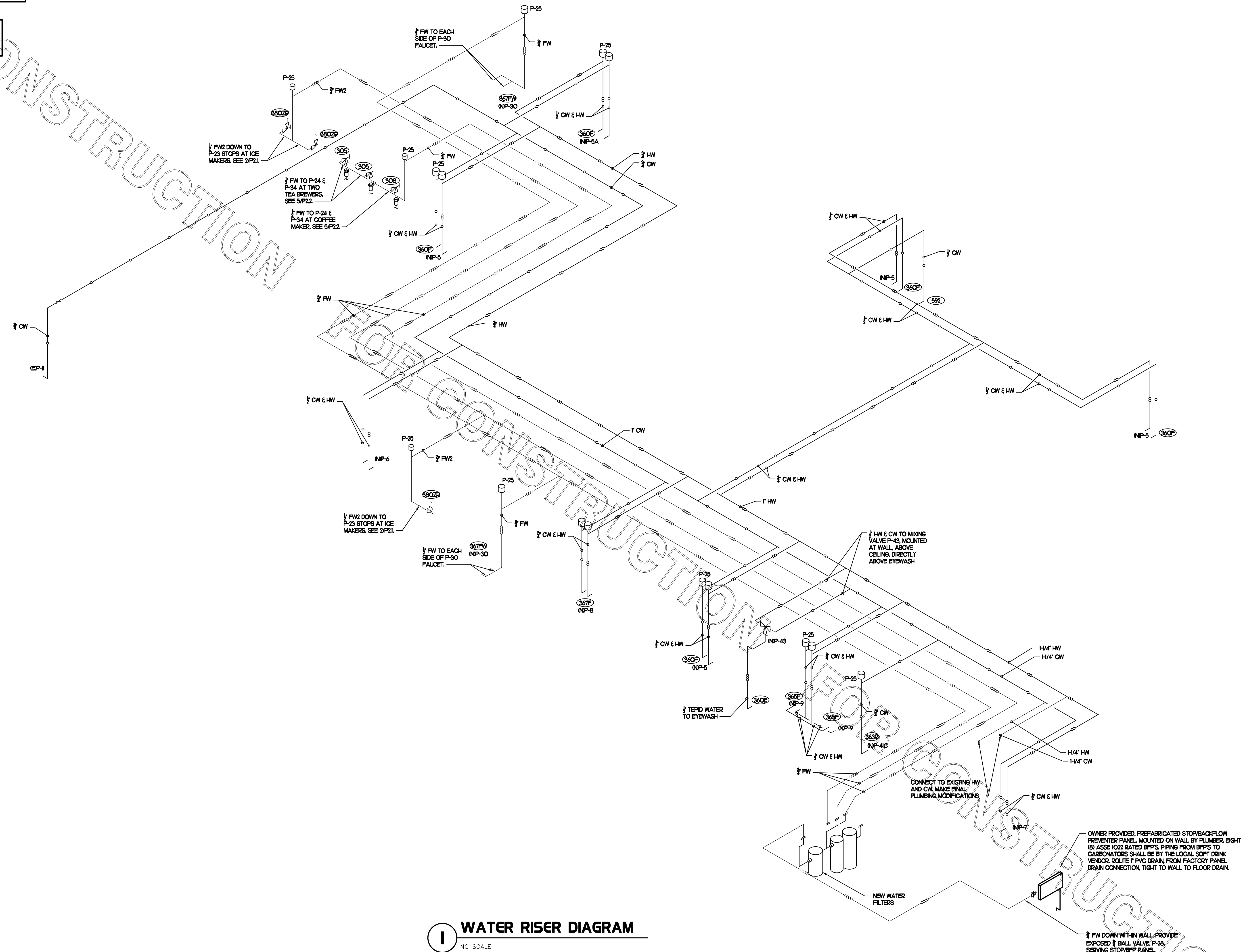
SHEET NUMBER

P5.2

PIPING LEGEND

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

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



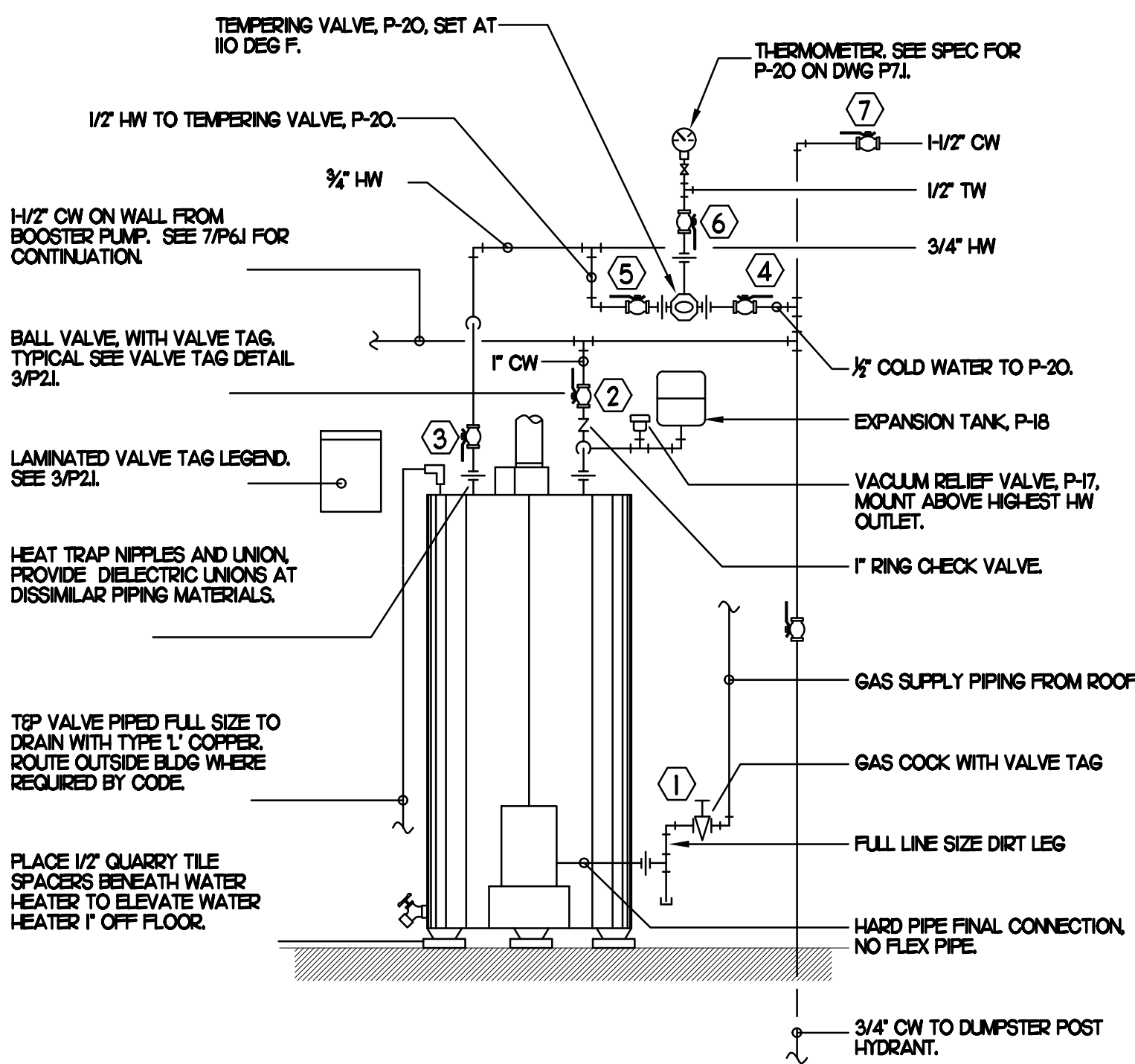
1 WATER RISER DIAGRAM
NO SCALE

PUMP SYSTEM KEYED NOTES

- PLEASE NOTE ITEMS 1 THRU 6 IN KEYED NOTES ARE INCLUDED WITH PUMP SYSTEM PACKAGE. REMAINING ITEMS SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR.
- ▽ PUMP: GOLDS AQUABOOST II MODEL 2AB22 HM I P280 PACKAGE PUMP, 208V/1PH CIRCUIT REQUIREMENT, 1.5 HP MOTOR, 35 GPM DEMAND AT 48 PSI BOOST. FACTORY SET TO MAINTAIN 80 PSI DISCHARGE PRESSURE.
 - ▽ PUMP CONTROLLER: GOLDS AQUABOOST II ELECTRONIC CONTROLLER, INCLUDED IN ITEM #1, MOUNT 10'-0" AFF.
 - ▽ TRANSDUCER: GOLDS AQUABOOST PRESSURE TRANSDUCER, INCLUDED IN ITEM #1. INSTALL IN ONE OF TWO FACTORY FIP TAPS ON SIDE OF PUMP DISCHARGE TEE FITTING.
 - ▽ PUMP DISCHARGE TEE FITTING: INCLUDED IN ITEM #1. CONNECT TO PUMP DISCHARGE, ACCUMULATOR TANK, DISCHARGE PRESSURE GAUGE, PRESSURE TRANSDUCER AND RELIEF VALVE.
 - ▽ PUMP DISCHARGE PRESSURE GAUGE: INCLUDED IN ITEM #1. INSTALL IN ONE OF TWO FACTORY FIP TAPS IN SIDE OF PUMP DISCHARGE TEE FITTING. INSTALL SO THAT GAUGE DIAL FACES OUTWARD. VERIFY 80 PSI PRESSURE READING WHILE PUMP IS RUNNING.
 - ACCUMULATOR TANK: GOLDS VSP BLADDER TANK DRY-TANK. PRECHARGE FACTORY SET FOR 65 PSI, INCLUDED IN ITEM #1.
 - ▽ WYE STRAINER: SEE ACCESSORY PACKAGE P-39A ON DRAWING P-71. PROVIDED BY PLUMBING CONTRACTOR.
 - ⑦ CHECK VALVE: SEE ACCESSORY PACKAGE P-39A ON DRAWING P-71. PROVIDED BY PLUMBING CONTRACTOR.
 - ⑧ ENCLOSED HANDLE-TYPE NON-FUSED DISCONNECT. 3-POLE, 30 AMP, 250 VAC.
 - ⑨

PUMP SYSTEM INSTALLATION NOTES

1. PUMP PACKAGE PROVIDED BY STRATEGIC EQUIPMENT CO. TO CONTACT STRATEGIC FOR WARRANTY SERVICE CALL STRATEGIC AT 1-866-324-4253 EXT 4.
- FOR TECH SUPPORT CONTACT SOUTH-EAST PUMP & EQUIPMENT, INC. 5777 STEEPLECHASE BLVD. CLUMMING, GA. 30040. CALL BRYAN GLOVER AT SAVANNAH OFFICE: 912-495-2521, CELLS 770-234-2771, 6PM TO 7AM 912-897-8544. ADDITIONAL CONTACT PH 678-990-1888 TRAVIS GLOVER, JR. GOLDS FACTORY TECH SUPPORT: 1800 AM TO 500 PM EST: 915-568-7100
2. BEFORE STARTING THE PUMP, PRIME BY REMOVING THE FILL PLUG TO ALLOW WATER TO FLOW THROUGH THE CASING. FAILURE TO DO THIS MAY DAMAGE THE PUMP.
3. MOUNT PUMP CONTROLLER ON WALL WITH TOP OF CONTROLLER AT 5'-0" AFF.
4. BOLT PUMP SECURELY TO WIRE SHELF.

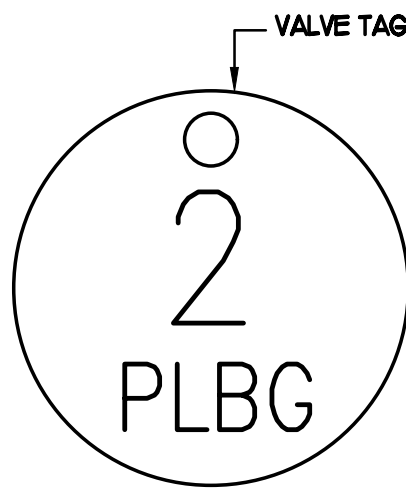


1 PIPING AT NEW WATER HEATER

NO SCALE

WATER HEATER VALVE TAG LEGEND	
VALVE	NORMALLY OPEN OR NORMALLY CLOSED
① GAS TO WATER HEATER	NORMALLY OPEN
② WATER HEATER INLET	NORMALLY OPEN
③ WATER HEATER OUTLET	NORMALLY OPEN
④ TEMPERING VALVE COLD - IN	NORMALLY OPEN
⑤ TEMPERING VALVE HOT - IN	NORMALLY OPEN
⑥ TEMPERING VALVE WARM - OUT	NORMALLY OPEN
⑦ KITCHEN COLD WATER	NORMALLY OPEN
NOTE: HANDLE IN-LINE WITH PIPING - VALVE OPEN	

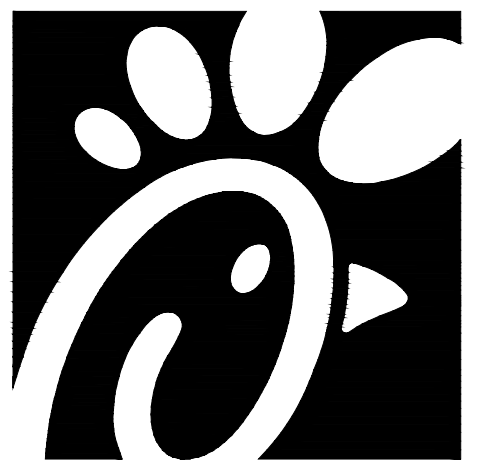
LAMINATE VALVE TAG LEGEND AND MOUNT PERMANENTLY WHERE SHOWN ON WATER HEATER DETAIL IN AN ALUMINUM FRAME EQUAL TO SETON #65624.



- ① VALVE TAG SYMBOL AS SHOWN ON DETAIL 2/P21. 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 #45056. HANG WITH BRASS JACK SHAN ON VALVE HANDLE.

2 VALVE TAGS AND LEGEND

NO SCALE



Chick-fil-A

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

INTERPLAN
INTERPLAN LLC
AR0011595
CA 8660
ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
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SEAL:

THIS DOCUMENT IS NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION.

CHICK-FIL-A
THE RIDGE
5023 Highway 90
Pace, FL, 32571

FSR#01715

BUILDING TYPE / SIZE: S04-162
RELEASE: 02.19.22

PRINTED FOR CONSTRUCTION

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 2020.0268
DATE 02.2022

DRAWN BY DD
CHECKED BY DAK

PLUMBING DETAILS

SHEET NUMBER
P6.1

I. SECTION C1500 - PLUMBING SPECIFICATIONS

PART I - PRODUCTS (C15100)

1.01 GENERAL REQUIREMENTS

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

1.02 SCOPE

A. HOT AND COLD POTABLE WATER PIPING ABOVE SLAB SHALL BE TYPE 'L' HARD DRAWN COPPER OR FLOWGUARD GOLD CPVC AS MANUFACTURED BY NIBCO OR CHARLOTTE PIPE & FOUNDRY AND MEETING ASTM D-2846. FILTERED WATER PIPING SHALL BE FLOWGUARD GOLD CPVC. HOT AND COLD PIPING WITHIN WALLS BEHIND KITCHEN HOODS SHALL BE COPPER.

B. POTABLE WATER PIPING BELOW SLAB AND OUTSIDE BELOW GRADE SHALL BE TYPE 'K' SOFT ANNEALED SEAMLESS. NO JOINTS SHALL BE ALLOWED BELOW SLAB. POTABLE WATER PIPING BELOW GRADE SHALL BE SLEEVED FOR ITS ENTIRE LENGTH WITH POLY SLEEVE AS MADE BY IPS WATER-TITE. ALL SLAB PENETRATIONS SHALL BE SLEEVED WITH POLY SLEEVE TO PROTECT PIPING FROM CORROSION BY CONCRETE.

C. COPPER PIPE FITTINGS SHALL BE WROUGHT COPPER SWEEP PATTERN FITTINGS SOLDERED USING 95-5 LEAD-FREE SOLDER MEETING ASTM B-32 OR BRAZED WITH SIL-FOS. SOLDER FLUXES SHALL MEET ASTM B-813 AND SHALL BE LEAD FREE. BRAZING FLUXES SHALL MEET AWS F83A OR F83-C.

D. WATER PIPING DOWNSTREAM OF SOFT DRINK CARBONATORS SHALL BE PROVIDED AND INSTALLED BY LOCAL SOFT DRINK VENDOR.

E. CPVC FITTINGS FOR PIPING SHALL BE SOLVENT WELD TYPE MEETING ASTM D-2846 WITH CEMENTS MEETING ASTM F-493 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURERS RECOMMENDATIONS. FOR CPVC PIPING INSTALLATION, WALL STUBS AT FIXTURES AND EQUIPMENT SHALL BE COPPER AND SHALL BE SERIES 830-C. CPVC-TO-COPPER STUB OUT ELBOWS BY SLOUX CHIEF.

F. NIPPLES, ELBOWS, AND OTHER ACCESSORY FITTINGS REQUIRED TO COMPLETE ANY WATER PIPING CONNECTION SHALL BE BRASS OR OF SIMILAR TYPE METAL AS THE FITTING TO WHICH IT IS CONNECTED. GALVANIZED FITTINGS ARE PROHIBITED. EXCEPTION: GALVANIZED COPPER OR BRASS WATER NIPPLES IF INTERNALLY PROTECTED WITH TEFLON OR POLYMER CORROSION-RESISTANT COATING.

G. ALL HVAC CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC DWV AS MANUFACTURED BY CHARLOTTE PIPE AND MEETING ASTM D-1784, D-1785 AND D-2665.

H. U.N.O. ALL SANITARY WASTE, VENT, STORM DRAINAGE PIPING AND FITTINGS INSIDE THE BUILDING, ABOVE AND BELOW GRADE, AND FOR ROOFTOP CONDENSATE, SHALL BE SOLID WALL SCHEDULE 40 PVC DWV AS MANUFACTURED BY CHARLOTTE PIPE AND MEETING ASTM D-2665 AND D-2649. FOAM CORE AND/OR CELLULAR CORE PVC PIPING SHALL NOT BE ALLOWED. PVC PIPING OUTSIDE THE BUILDING, BELOW GRADE, SHALL BE TYPE SDR-35 MEETING ASTM D-3034, U.N.O.

I. DWV PIPE AND FITTINGS WITHIN WALLS BEHIND KITCHEN HOODS SHALL BE SERVICE WEIGHT HUBLESS CAST IRON WITH SLEEVE, SHIELD, AND DRAWBAR JOINTS MEETING ASTM A-888 AND ASTM C-564.

J. PVC-DWV FITTINGS FOR PIPING SHALL BE SOLVENT WELD TYPE INSIDE AND UNDERSLAB MEETING ASTM D-2665, D-3311 AND F-186. CEMENTS SHALL MEET ASTM D-2664 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURERS RECOMMENDATIONS. EXTERIOR PIPING JOINTS SHALL BE NEOPRENE PUSH-ON TYPE.

K. PROVIDE 1" THICK PIPE INSULATION FOR ALL ABOVE SLAB HOT AND TEMPERED WATER PIPING. PROVIDE 2" THICK INSULATION FOR ALL ABOVE SLAB COLD WATER, FILTERED WATER, CONDENSATE PIPING, AND HORIZONTAL RAIN WATER CONDUCTORS INSIDE THE BUILDING. PIPING INSULATION SHALL BE KNAUF 1000F 25/50 FIBERGLASS PIPE COVERING, WHITE KRAFT PAPER VAPOR BARRIER (02 PERMS) BONDED TO ALUMINUM FOIL AND REINFORCED WITH GLASS FIBERS. MAXIMUM THERMAL CONDUCTIVITY OF 0.23 AT 75F. LONGITUDINAL LAP SHALL BE SELF SEALING. INSULATION FOR WALK-IN COOLER/FREEZER CONDENSATE PIPING SHALL BE ARMAFLEX AP ARMAFLEX WITH MINIMUM 3/2" WALL THICKNESS.

L. PIPE INSULATION AND COVERINGS SHALL HAVE A RATING OF NOT GREATER THAN 25 FLAME SPREAD, NO HIGHER THAN 50 SMOKE DEVELOPED, AND NO MORE THAN 50 FUEL CONTRIBUTED. THE ONLY EXCEPTION SHALL BE ARMAFLEX AP, WHEN SPECIFIED, WHICH SHALL NOT EXCEED 100 SMOKE DEVELOPED.

M. A PVC 25/50 PRE-FORMED COVER SHALL BE PROVIDED AT ALL INSULATED PIPING FITTINGS EQUAL TO PROTO PVC CORP LOSMOKE, 800-875-7788.

N. ALL NATURAL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL MEETING ASTM A53 WITH SCREWED OR WELDED FITTINGS AND GASKET TYPE UNIONS AND FLANGES. FOR SCREWED PIPING, PIPING SHALL BE JOINED WITH BLACK 150 POUND MALLEABLE IRON SCREWED FITTINGS AS ALLOWED BY LOCAL AUTHORITY. CONTRACTOR SHALL VERIFY THE NEED FOR WELDED PIPING AS REQUIRED BY THE LOCAL GAS CODE AND/OR APPLICABLE LOCAL ORDINANCES AND AMENDMENTS.

O. EXPOSED SUPPORTS AND ATTACHMENTS SHALL BE STAINLESS STEEL, CHROME OR CHROME PLATED. GALVANIZED ATTACHMENTS WILL NOT BE ACCEPTED.

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

PART II - EXECUTION (C151100)

2.01 TRENCHING (C15100)

A. EXCAVATION, BACKFILLING, AND TRENCH WORK SHALL BE DONE IN ACCORDANCE WITH LATEST O.S.H.A. AND APPLICABLE SAFETY STANDARDS.

B. PROVIDE NECESSARY SHORING AND CLEANING TO KEEP TRENCHES IN GOOD WORKING CONDITION, INCLUDING PUMPING OUT WATER.

C. IN MOSTLY ROCK MATERIAL, TRENCHES SHALL BE EXCAVATED TO 6" BELOW THE ELEVATION OF THE BOTTOM OF THE PIPES. AFTER EXCAVATION, TRENCH SHALL THEN BE FILLED TO THE PROPER ELEVATION WITH CRUSHED LIMESTONE GRAVEL. GRAVEL SHALL BE REMOVED FROM UNDER PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH BOTTOM.

D. IN MOSTLY EARTH OR SAND MATERIAL, TRENCHES SHALL BE EXCAVATED TO 6" BELOW THE ELEVATION OF THE BOTTOM OF THE PIPES. AFTER EXCAVATION, TRENCH SHALL THEN BE FILLED TO THE PROPER ELEVATION WITH FINE SAND OR GRAVEL. TRENCH BOTTOM SHALL BE REMOVED AT PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH BOTTOM.

E. BACKFILLING AND TAMPING SHALL BE CAREFULLY DONE BY HAND SIMULTANEOUSLY ALONG BOTH SIDES OF THE PIPE USING ROCK FREE EARTH, CRUSHED STONE OR SAND UNTIL THE PIPE IS COVERED TO A DEPTH OF AT LEAST 12". BACKFILL SHALL BE ACCOMPLISHED IN SUCCESSIVE 6" LAYERS. THE REST OF THE FILL-UP TO THE TOPSOIL LAYER MAY BE GRAVEL OR ROCK FREE EARTH.

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

G. SURFACE SHALL BE RESTORED TO ITS ORIGINAL CONDITION.

2.02 INSTALLATION (C15100)

A. WATER PIPING IN EXTERIOR WALL SHALL BE INSTALLED ON THE HEATED SIDE OF WALL INSULATION.

B. EXPOSED HOT AND COLD WATER TRIM FITTINGS AND ACCESSORIES IN FINISHED AREAS SHALL BE CHROME FINISHED.

C. ACCEPTABLE METHODS OF PIPE SUPPORT WITHIN WALLS SHALL BE THE SUMNER SYSTEM, POSIFIX, STAKFIX, PIPEFIX, HOLDRITE OR CHANNEL.

D. PROVIDE J.R. SMITH OR APPROVED EQUAL SHOCK ABSORBERS #5005 THRU 5050 SIZE AS RECOMMENDED BY MANUFACTURER INSTALLED ON HOT AND COLD WATER BRANCH LINES CONTAINING SINGLE LEVER FAUCETS, FLUSH VALVES OR EQUIPMENT WITH QUICK CLOSING VALVES BETWEEN THE LAST TWO FIXTURES AS SHOWN ON THE CONTRACT DRAWINGS. SHOCK ABSORBERS SERVICING FIXTURES WITH FLUSH VALVES SHALL BE SECURELY ANCHORED IN THEIR VERTICAL POSITION.

E. SANITARY WASTE LINES SHALL BE UNIFORMLY GRADED TO ELEVATIONS SHOWN. IF NO ELEVATIONS ARE GIVEN, SEWERS SHALL BE PITCHED NOT LESS THAN 1/4" PER FOOT FOR ALL PIPING 12" IN DIAMETER AND SMALLER AND 1/8" PER FOOT FOR ALL PIPING 3" IN DIAMETER AND LARGER.

F. STORM PIPING SHALL BE SLOPED AT 1/2" PER FT (2%) UNLESS NOTED OTHERWISE ON PLANS.

G. SUPPORT HORIZONTAL PIPING ACCORDING TO LOCAL PLUMBING CODE. HANGER RODS SHALL BE SIZED AS FOLLOWS:

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

H. HANGERS FOR PIPING GREATER THAN 1" SHALL PASS OVER THE INSULATION. PROVIDE SADDLES FOR INSULATED PIPING.

I. INSULATION SHALL BE APPLIED WITH JOINTS TIGHTLY BUTTED. OPEN CRACKS, VOIDS AND DEPRESSIONS SHALL BE FILLED WITH HYDRAULIC SETTING GEMENT. LAPPING MATCHING THE FINISH SHALL BE PASTED NEATLY OVER JOINTS. FITTINGS AND VALVES SHALL BE INSULATED WITH THE SAME TYPE.

J. PROVIDE AND INSTALL A CUT-OFF VALVE, UNION AND FULL SIZE DIRT LEG AT CONNECTION TO EACH GAS-FIRED PIECE OF EQUIPMENT. INSTALL PIPING AT AND AROUND EQUIPMENT SO AS TO NO WAY OBSTRUCT EQUIPMENT ACCESS PANELS AND/OR ACCESS DOORS.

K. COORDINATE ABOVE-CEILING PIPING LOCATIONS AND ROUTINGS WITH HVAC CONTRACTOR AND M-SHEETS PRIOR TO INSTALLATION. ALL MAIN DUCT TRUNK LOCATIONS SHALL TAKE PRIORITY. PIPING MAY REQUIRE REMOVAL AND REINSTALLATION AT PLUMBING CONTRACTORS' EXPENSE IF PIPING OBSTRUCTS THE M-SHEET DUCT LAYOUT AS SHOWN OR PREVENTS ACCESS TO GREASE DUCT CLEANOUT OPENINGS.

L. ALL GAS PIPING ABOVE ROOF SHALL BE CLEANED FREE OF RUST AND PAINTED WITH COAT OF ZINC RUST PRIMER AND ONE COAT OF ALUMINUM BASE PAINT. METER AND GAS RISER SHALL BE PRIMED AND PAINTED TO MATCH BUILDING. APPLY TWO COATS OF ASPHALTUM BASE PAINT TO PIPING BURIED UNDERGROUND.

2.03 TESTING (C15100)

A. POTABLE WATER PIPING SHALL BE PRESSURE TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

B. THE POTABLE WATER SYSTEM SHALL BE FLUSHED OUT PROGRESSIVELY BY OPENING OUTLETS AND FLOWING WATER UNTIL IT RUNS CLEAR. AFTER PIPE CLEANING IS COMPLETED, THE STRAINERS SHALL BE REMOVED, CLEANED, AND REPLACED. THEN THE ENTIRE POTABLE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.

C. THE SANITARY WASTE SYSTEM SHALL BE FLUSHED OUT PROGRESSIVELY WITH FLOWING WATER UNTIL IT RUNS CLEAR.

D. THE ENTIRE SANITARY WASTE SYSTEM AND STORM DRAINAGE SYSTEM SHALL BE PRESSURE TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

E. NATURAL GAS PIPING SHALL BE LEAK TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

PART III - MANUFACTURERS

3.01 PRODUCTS - PIPING SYSTEMS, ETC (C15100)

A. HYDROMATS, CARRIERS, DRAINS, AND SHOCK ABSORBERS: JAY R. SMITH, JONES STEPHENS CORP, WATTS ZURN, OR JOSAM.

B. ALTERNATE FIXTURES: ONLY AS SHOWN ON PLANS. APPROVED JAY R. SMITH (JRS), WATTS (WTS), AND ZURN (ZRN) MODEL NUMBERS LISTED ON FIXTURE SCHEDULE, THIS SHEET.

3.02 PRODUCTS - RESTROOM FIXTURES PORCELAIN & VALVES (C15405)

A. PREFERRED FIXTURES: TOTO. NO EXCEPTION.

B. ALTERNATE FIXTURES: ONLY AS SHOWN ON PLANS.

C. FITTINGS: AS SPECIFIED ON THE PLANS. NO SUBSTITUTIONS ALLOWED.

D. FLUSH VALVES AND LAVATORY FAUCETS: TOTO MANUFACTURING. NO SUBSTITUTIONS ALLOWED.

E. PREFERRED TOILET SEATS: TOTO. ALTERNATE TOILET SEATS: CHURCH, BEMIS, AND BENKE.

F. FLOOR SINKS: ZURN WITH ALUMINUM SEDIMENT BUCKETS. NO SUBSTITUTIONS ALLOWED.

2. PLUMBING FIXTURES

RESTROOM FIXTURES (C15405)

P-1 WATER CLOSET: TOTO MODEL CT700LHNOI BOWL WITH 128 GPF TETRA-322CP ECO-POWER FLUSH VALVE AND SC534 SEAT. NO SUBSTITUTIONS. WHITE FLOOR MOUNTED, FLUSH VALVE TYPE. VITREOUS CHINA, 1/2" TOP SPUD, ELONGATED BOWL, ELECTRONIC SENSOR OPERATED HANDS-FREE FLUSH VALVE. WHITE OPEN FRONT SEAT WITH CHECK HINGE. CHICK-FIL-A HAS NATIONAL ACCOUNTS WITH TOTO. PLEASE SEE NATIONAL ACCOUNT INFORMATION ON THIS SHEET FOR PRICING OF TOTO FIXTURES.

P-2 WATER CLOSET (ADA) TOTO MODEL CT700LHNOI BOWL WITH 128 GPF TETRA-322CP ECO-POWER FLUSH VALVE AND SC534 SEAT. NO SUBSTITUTIONS. H.C. ACCESSIBLE, WHITE FLOOR MOUNTED, 17-1/2" HIGH FLUSH VALVE TYPE. VITREOUS CHINA, 1/2" TOP SPUD, ELONGATED BOWL, ELECTRONIC SENSOR OPERATED HANDS-FREE FLUSH VALVE. WHITE OPEN FRONT SEAT WITH CHECK HINGE. CHICK-FIL-A HAS NATIONAL ACCOUNTS WITH TOTO. PLEASE SEE NATIONAL ACCOUNT INFORMATION ON THIS SHEET FOR PRICING OF TOTO FIXTURES.

P-3 URINAL: TOTO MODEL UT445U URINAL WITH TEU1 UA 12HC Q1/2 GPF SELF SUSTAINED HYDROPOWER SELF-GENERATING ELECTRONIC SENSOR OPERATED FLUSH VALVE. NO SUBSTITUTIONS. VITREOUS CHINA, 3/4" TOP SPUD, SENSOR OPERATED WITH MANUAL OVERSIDE SLITTON INTERNAL VALVE FILTER PROTECTION. PLEASE SEE NATIONAL ACCOUNT INFORMATION ON THIS SHEET FOR PRICING OF TOTO PRODUCTS.

P-4 LAVATORY FAUCET: BUILT-IN COUNTERTOP LAVATORY PROVIDED BY OWNER. TOTO MODEL TEL 105-D10ET # CP ECO-POWER SENSOR HOT/COLD FAUCET WITH THERMOSTATICALLY CONTROLLED ASSE 1070 MIXING VALVE FAUCET, 0.09 GALLONS PER CYCLE. NO SUBSTITUTIONS. PROVIDE MCGUIRE LIFTS SUPPLY WITH STOP, MCGUIRE 85-WC GRID DRAIN WITH OFFSET TAILPIECE, MCGUIRE 8872 POLISHED CHROME P-TRAP. P-TRAP SHALL BE PARALLEL WITH BACK WALL. PROVIDE A TRELEO INC. HAND LAY-GUARD INSULATION KITS MODELS 10E-2 AND 10E-2. CHICK-FIL-A HAS NATIONAL ACCOUNTS WITH TOTO. PLEASE SEE NATIONAL ACCOUNT INFORMATION ON THIS SHEET FOR PRICING OF TOTO FIXTURES.

PLUMBING (C15100)

P-5 KITCHEN HAND SINK ROUGH IN SINK AND FAUCET WITH 1.0 GPM AERATOR FURNISHED BY OWNER. CONTRACTOR SHALL INSTALL WALL HUNG, STAINLESS STEEL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE LIFTS SUPPLIES WITH STOPS AND A MCGUIRE 8912 POLISHED CHROME P-TRAP. ADJUST FAUCET OUTLET TEMPERATURE TO 110 DEGREES F OR HIGHER AS REQUIRED BY LOCAL JURISDICTION.

P-5A KITCHEN DUMP SINK ROUGH IN SINK BY TMS. FAUCET: TOTO MODEL HTLKS-C20ECP - PROVIDED BY LLC WITH TP2094 NOZZLED CONTRACTOR SHALL INSTALL WALL HUNG, STAINLESS STEEL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. MCGUIRE LIFTS SUPPLIES WITH STOPS AND A MCGUIRE 8912 POLISHED CHROME P-TRAP PROVIDED BY HW.

P-6 SERVING COUNTER DROOP IN SINK ROUGH IN SINK AND FAUCET WITH 1.0 GPM AERATOR FURNISHED BY OWNER. CONTRACTOR SHALL INSTALL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE 8912 POLISHED CHROME P-TRAP AND MCGUIRE LIFTS SUPPLIES WITH 90° CHROME PLATED 3/8" COPPER RISERS. ADJUST FAUCET OUTLET TEMPERATURE TO 110 DEGREES F OR HIGHER AS REQUIRED BY LOCAL JURISDICTION.

P-7 MOP SINK FAUCET: MOP SINK BASIN BUILT BY GENERAL CONTRACTOR PROVIDE TES BRASS MODEL B-2345 FAUCET WITH CERAMIC SPRING CHECK VALVE CARTRIDGES. HOSE THREAD SPOUT OUTLET, TOP BRACE, ADJUSTABLE INLET SPOUT FROM 3" TOP 8" INCH. TES BRASS MODEL 43-072 HOSE 1/2" X 3/4" FEMALE NPT CHROME ADAPTOR. NO SUBSTITUTIONS. SEE ALSO P-16.

P-8 VEGETABLE PREP SINK ROUGH IN SINK AND FAUCET WITH 0.65 GPM SPRAY HEAD FURNISHED BY OWNER. CONTRACTOR SHALL INSTALL SINK AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE LIFTS STOPS AND BRASS/RAFT 3/4" CHROME PLATED 90° COPPER RISERS MODEL 3-36AC. ASSEMBLE AND MOUNT ONE TWO-HANDLE FAUCET WITH PRE-RINSE SPRAY. INSTALL ADD-ON FAUCET WITH 18" SPOUT AT BASE OF PRE-RINSE RISER. SEE K-SHEET ELEVATIONS FOR FAUCET LOCATIONS. PROVIDE 1/2" SCHED 80 PVC PIPE AND FITTINGS. INDIRECT WASTE MANIFOLD FROM SINK BASIN TO FLOOR SINK P-13A, NO P-TRAP REQUIRED. INSTALL CLEANOUT AT TURN.

P-9 FOUR COMPARTMENT POT SINK ROUGH IN SINK AND FAUCETS WITH 0.65 GPM SPRAY HEAD FURNISHED BY OWNER. CONTRACTOR SHALL INSTALL SINK, ASSEMBLE & MOUNT TWO FAUCETS, AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE LIFTS STOPS AND BRASS/RAFT 3/4" CHROME PLATED 90° COPPER RISERS MODEL 3-36AC. ASSEMBLE AND MOUNT ONE TWO-HANDLE FAUCET WITH PRE-RINSE SPRAY. INSTALL ADD-ON FAUCET WITH 18" SPOUT AT BASE OF PRE-RINSE RISER. ASSEMBLE AND MOUNT ONE TWO-HANDLE FAUCET WITH DOUBLE JOINT SPOUT ON OPPOSITE SIDE. SEE K-SHEET ELEVATIONS FOR FAUCET LOCATIONS. PROVIDE 1/2" SCHED 80 PVC PIPE AND FITTINGS. INDIRECT WASTE MANIFOLD FROM EACH SINK BASIN TO FLOOR SINK P-13A, NO P-TRAP REQUIRED. PROVIDE CLEANOUT AT EACH END.

P-10 FLOOR DRAIN (3") JONES STEPHENS CORP D53-144 PVC BODY, BRONZE SPUD WITH 6" DIAMETER NICKEL BRONZE STRAINER. ALT: (JRS) 210-HP-NB, (WTS) PD03-AB-60, (ZRN) F808NP35-C.

P-11 WALL HYDRANT (NON-FREEZE) WOODFORD MODEL 67-C AUTOMATIC DRIVING WALL HYDRANT WITH DUAL CHECK EFF. ASSE 1032 APPROVED. WALL CLAMP, POLISHED BRASS FINISH, 3" STYLE INLET, SEE WALL HYDRANT NOTES ON IFFI FLOOR WALL THICKNESS AT WALL HYDRANTS. ALT: (WTS) H1-42.

P-12 FUNNEL DRAIN (3") JR. SMITH 35100S FUNNEL-OCEPTOR 3" INDIRECT WASTE RECEIVER WITH NICKEL BRONZE STRAINER AND FUNNEL. PROVIDE 6" SQUARE 1/2" TRAP STRAINER WITH 4" ROUND FUNNEL AT WALK-IN COOLER. ALT: (WTS) PD03-M6-F4-I, (ZRN) 21415-3N-65-4.

P-13A FLOOR SINK (POT SINK) ZURN MODEL 2190-HC-3N-1-23 CAST IRON INDIRECT WASTE RECEIVER WITH 12" SQUARE BODY, FLASHING CLAMP, 8" DEEP ALUMINUM SEDIMENT BUCKET, AND NO GRATE. NO SUBSTITUTIONS.

P-13B FLOOR SINK (VEGETABLE SINK) ZURN MODEL 2190-KC-3N-1-23 CAST IRON INDIRECT WASTE RECEIVER WITH FLASHING CLAMP, 8" SQ BODY, ALUMINUM SEDIMENT BUCKET, AND NO GRATE. NO SUBSTITUTIONS.

P-14 CLEANOUTS INSIDE BUILDING: JR. SMITH 4063L CLEANOUT WITH 6-1/2" SQUARE NICKEL BRONZE TOP AND TAPER THREAD BRONZE PLUG. SEE PLAN FOR SIZE, ALT: (PIPE DIA) (WTS) CO-20XP-S, (ZRN) 21440-XN-T-EP.

P-15 CLEANOUTS OUTSIDE BUILDING: JR. SMITH 4281L SERIES EXTRA HEAVY DUTY CAST IRON CLEANOUT, 'CO' CAST IN COVER, ABS FLUG, SPEED SET OUTLET. ALT: (PIPE DIA) (WTS) CO-X00-MF + CO-38X, (ZRN) 21474-XN.

P-16 3-WAY DIVERTER VALVE ASSEMBLY: WATTS MODEL LFB 6780 ROUGH BRASS LEAD-FREE DIVERTER BALL VALVE WITH 1/2" FIP INLET AND OUTLETS AND QUARTER TURN LEVER HANDLE. PROVIDE WITH TWO (2) FORGED BRASS 3/4" MIP X 3/4" MALE GARDEN HOSE THREAD ADAPTERS. PUMPING MODEL G20-030 OR EQUAL. PROVIDE WITH ONE ASSE 101 APPROVED CHROME PLATED VACUUM BREAKER (WOODFORD MODEL 344-CH OR EQUAL). FOR INSTALLATION AT MOP SINK, SEE APP. PROVIDE ALSO TWO 3/4" CLOSE CHROME PLATED BRASS NIPPLE AND 3/4" POLISHED CHROME 90 DEGREE ELBOW.

P-17 VACUUM RELIEF VALVE: WATTS MODEL 4FN36M, 3/4" CONNECTION.

P-18 EXPANSION TANK: STATE INDUSTRIES MODEL ETC-5X, ACCEPTANCE 3.05 GALLONS AT 40 PSI PRECHARGE, 3/4" CONNECTION. ALTERNATE MODELS SIZED PER WATER HEATER MANUFACTURER RECOMMENDATIONS ARE ACCEPTABLE.

P-19 WATER HEATER (SEALED COMBUSTION) MODEL SLF-60-120-NE BY STATE INDUSTRIES STORAGE TYPE GAS FIRED 60 GALLON WATER HEATER, 1/2" MESH INFLU, 1/2" GPM RECOVERY AT 10 DEGREE RISE, DIRECT VENT, SEALED COMBUSTION, BLOWER POWERED, NON-CONDENSING TYPE WITH ONE-YEAR WARRANTY. CONTRACTOR TO PROVIDE DIELECTRIC HEAT TRAP NIPPLES. A.O. SMITH BTH-150, R-HEM GHEB-150, AND BRADFORD-WHITE EF-601-69-3N MODELS ARE ACCEPTABLE SUBSTITUTES.

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

P-21 BACKFLOW PREVENTERS: COORDINATE LOCATION WITH CIVIL SITE UTILITY PLAN. BACKFLOW PREVENTER TYPE AND MODEL IS DETERMINED BY CIVIL ENGINEER IF LOCATED OUTSIDE THE BUILDING.

DOUBLE CHECK TYPE: WATTS NO. LF0007MOT 1/2" DUAL CHECK MODULAR TYPE BACKFLOW PREVENTER MEETING ASSE 105 AND ANWMA C510-92. WHERE REQUIRED BY LOCAL AUTHORITY, USE THE RPZ TYPE BFP SHOWN BELOW. ALT: (ZRN) 112-350XL.

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

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

P-23 UTILITY CONNECTION (ICEMAKERS) PROVIDE A MCGUIRE MODEL LFH1036S LEAD-FREE CHROME WHEEL ANGLE STOP, 1/2" FIP INLET AND OUTLET. PROVIDE CHROME WALL ESCUTCHEON. INSTALL WITH BFP P-34. SEE DETAIL 3P21 FOR PIPING AT ICE MAKERS.

P-24 UTILITY CONNECTION (COFFEE & TEA BREWERS) PROVIDE A MCGUIRE MODEL LFH1036S LEAD-FREE CHROME WHEEL ANGLE STOP, 1/2" FIP INLET AND OUTLET. PROVIDE CHROME WALL ESCUTCHEON. INSTALL WITH BFP P-34.

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

P-26 FUNNEL DRAIN (3") JR. SMITH 35100S FUNNEL-OCEPTOR 3" INDIRECT WASTE RECEIVER WITH NICKEL BRONZE STRAINER AND FUNNEL. PROVIDE 6" ROUND P22 STRAINER WITH 3.25" X 8.25" OBLONG FUNNEL. ALT: (WTS) PD-103P-AB-G-I, (ZRN) 21415-3N-65-CP.

P-26A TRAP SEAL PROTECTOR PREVENT TRAP GUARD MODEL TG34 3" TRAP SEAL INSERT FOR INTERIOR INSTALLATION AND REPLACEMENT ACCESS THROUGH STRAINER. PROVIDE AT P-35 FLOOR DRAINS IN RESTROOMS, P-37 FLOOR DRAINS DINING ROOM, AND P-26 FLOOR DRAINS IN MEAT ROOM. TRAP GUARDS TO BE USED ALONG WITH MECHANICAL TRAP PRIMERS. PROVIDE PROSET MODEL TG33-ZURN WHEN USING ZURN FLOOR FIXTURES.

P-27 WATER PRESSURE GAUGE: THERICE MODEL 800B, 2-1/2" ROUND, BOTTOM OUTLET WITH 1/4" NPT. CONNECTION AND 0 TO 100 PSI RANGE.

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

P-29 ICE MACHINE TRENCH DRAIN: ZURN STAINLESS DRAINS TR10-0FA-X STAINLESS STEEL TRENCH DRAIN, 145" X 1/2" STAINLESS STEEL SEDIMENT CLIP AND STAINLESS STEEL SEPARATED LADDER GRATE 0X0-DRAIN WIDTH, 18/36/48" PROVIDED BY LLC. NO SUBSTITUTIONS.

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

P-31 DUMPSTER POST HYDRANT (NON-FREEZE) WOODFORD MODEL Y2 LEVER TYPE POST HYDRANT, 3/4 HOSE CONNECTION, LOCKABLE LEVER HANDLE, BRASS CASING, BRASS OPERATING ROD, ASSE 1062 APPROVED AND 24" DEPTH OF BURL.

P-32 DUMPSTER PAD DRAIN: JR. SMITH FIGURE NO. Z280C03 3" FLOOR DRAIN WITH 7-1/2" HINGED CAST IRON SLOTTED GRATE AND SEDIMENT BUCKET. PROVIDED AND INSTALLED BY SITE CONTRACTOR. ALT: (ZRN) Z560-3N-1-Y.

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

P-34 DISPENSER BACKFLOW PREVENTER: WATTS MODEL WMLF7R1222 ASSE 1034 BATED WITH 1/2" FIP INLET AND OUTLET, DUAL CHECK TYPE. PROVIDE 1/2" DIA X 2" LONG CHROME NIPPLE AT BFP INLET AND OUTLET. PROVIDE TES BRASS MODEL B-010 CHROME WALL BRACKET.

P-35 FLOOR DRAIN (3") JONES STEPHENS CORP D50-064 PVC BODY, BRONZE SPUD WITH 6" DIAMETER NICKEL BRONZE STRAINER. SEE DWG PH FOR DRAINS IN RESTROOMS REQUIRING 1/2" TRAP PRIMER CONNECTION. ALT: (WTS) PD03-AB-60, (ZRN) F808NP35-C.

P-36 BEVERAGE TOWER INDIRECT RECEIVER (3") JONES STEPHENS CORP D53-144 PVC BODY, BRONZE SPUD WITH 6" DIAMETER NICKEL BRONZE STRAINER. ALT: (JRS) 210-HP-NB, (WTS) PD03-AB-60, (ZRN) F808NP35-C.

P-37 FLOOR DRAIN (3") JONES STEPHENS CORP D50-076 PVC BODY, BRONZE SPUD WITH 6" SQUARE NICKEL BRONZE STRAINER. PROVIDE 1/2" TRAP PRIMER CONNECTION FOR DINING ROOM DRAINS. ALT: (WTS) PD03-M6-7-60, (ZRN) F808NP35-C.

P-38 HOT WATER CIRCULATING PUMP: TACO MODEL C06-SC7-IPC, 1/2" UNION CONNECTIONS, INTEGRAL FLOW CHECK ELECTRIC MOTOR TO PROVIDE AND WIRE PLUG AND COORD. 1/40 HP, 3 GPM AT 7 FT TOTAL DYNAMIC HEAD. PROVIDE CONTROL WIRING AND WIRE TIE. MODEL L62063016 1/2" VAC-AQUA-STAT, WITH ADJUSTABLE SETPOINT, MOUNTED DIRECTLY ON PIPE (ALL PROVIDED BY LLC). SET SHUT-OFF TEMPERATURE AT 190 DEG F.

P-39 2" PRESSURE REDUCING VALVE: WATTS NO. 4H223-SB WITH BUILT-IN BYPASS FEATURE. SET NO FLOW CONDITION AT 70 PSI. ALT: (ZRN) SERIES 500XLYSER.

P-40 WYE STRAINER WITH #100 SCREEN: 2" WATTS LF777SM3, BRONZE WYE STRAINER WITH 3-THREADED CONNECTION AND TAPPED RETAINER CAP. PROVIDE #100 MESH SCREEN. PROVIDE WATTS 1/2" BD-IC BRASS BOLLER DRAIN WITH BRASS STREET DEGREE ELBOW, MALE END SIZED FOR CONNECTION TO WYE STRAINER RETAINER CAP OUTLET TAP.

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

P-42 EMERGENCY THERMOSTATIC MIXING VALVE (EMERGENCY EYEWASH) BRADLEY MODEL 619-2000 PK8 THERMOSTATIC TEMPERING VALVE, ANSI Z358.1 CERTIFIED FOR EMERGENCY FIXTURES, ASSE 1071 COMPLIANT, WITH DIAL THERMOMETER



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FSR#01715

BUILDING TYPE / SIZE: S04-162
RELEASE: 02.15.22

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REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	06/23/22	BUILDING COMMENTS
2	07/28/22	BUILDING COMMENTS

CONSULTANT PROJECT # 2020.0268
DATE 02.2022
DRAWN BY MI
CHECKED BY SN

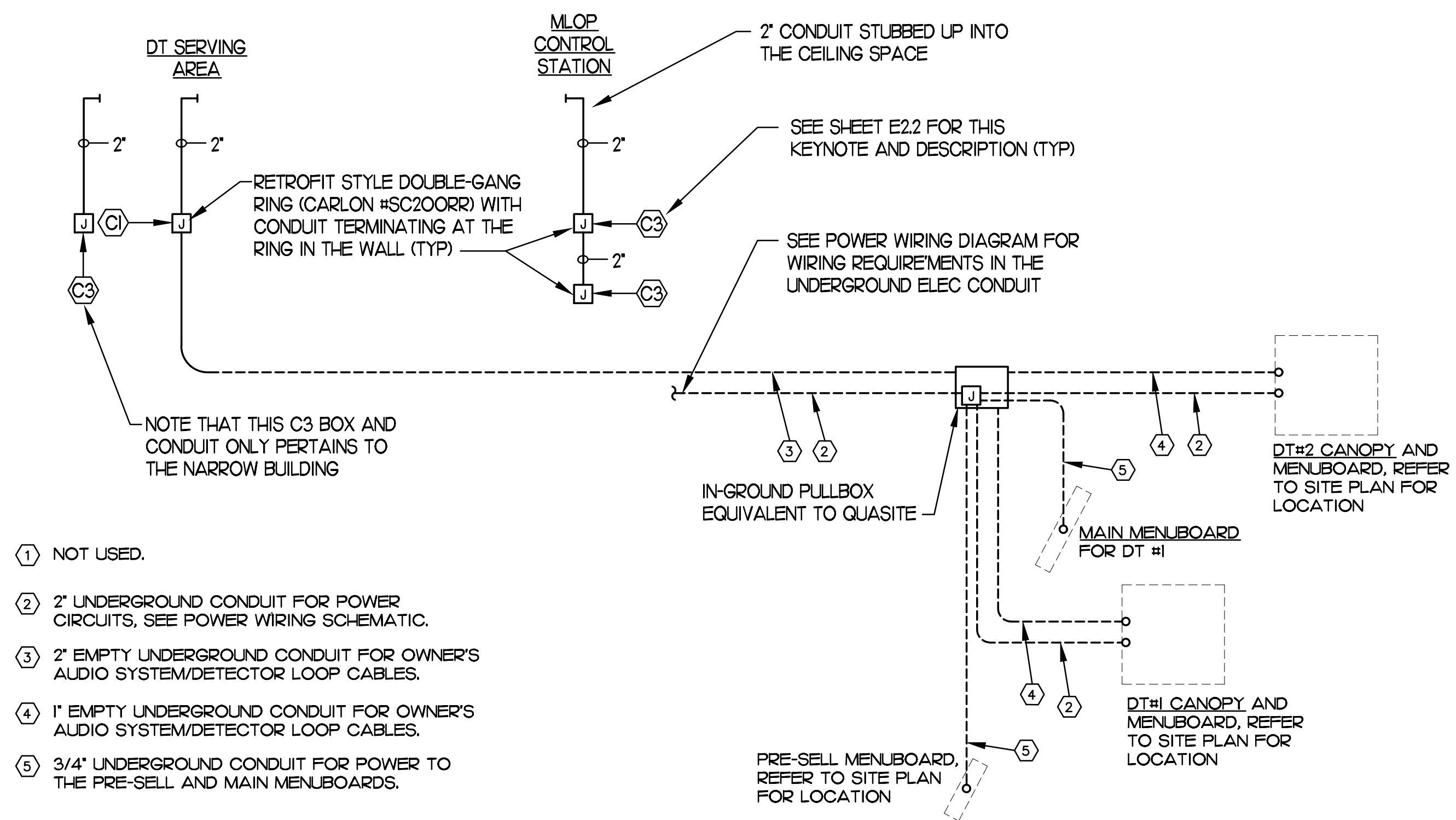
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SHEET
DRIVE-THRU ORDER
DETAILS

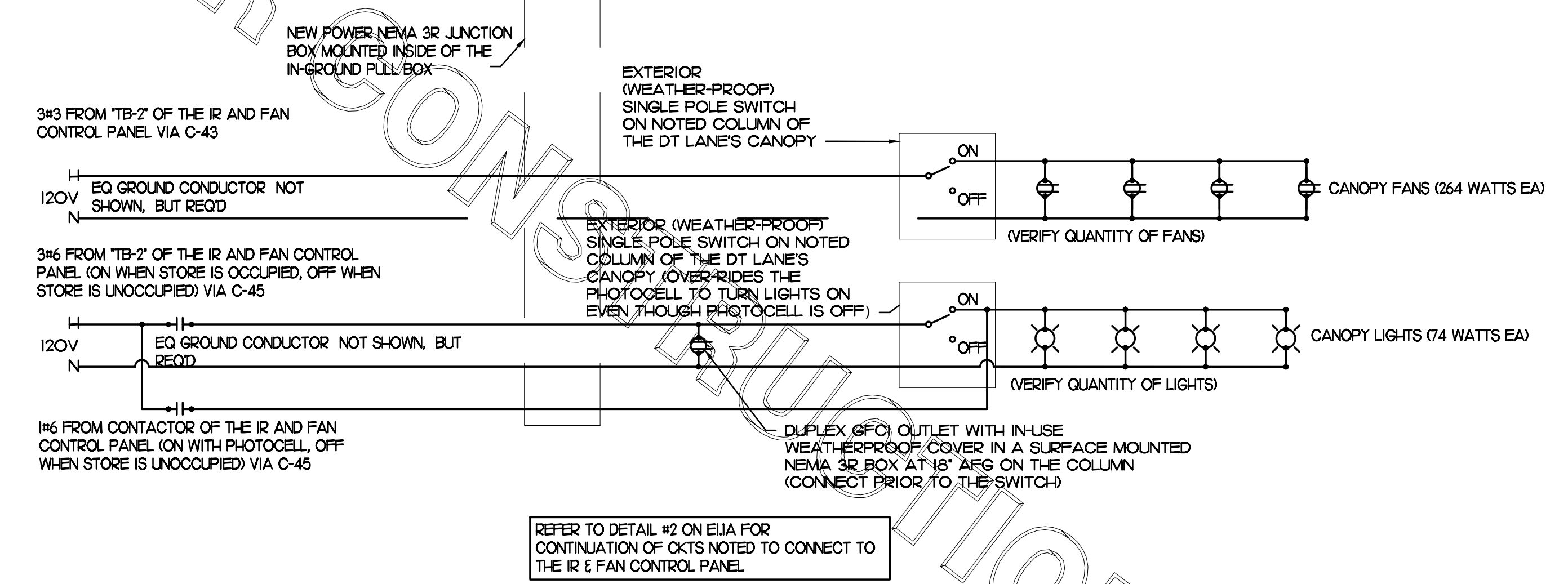
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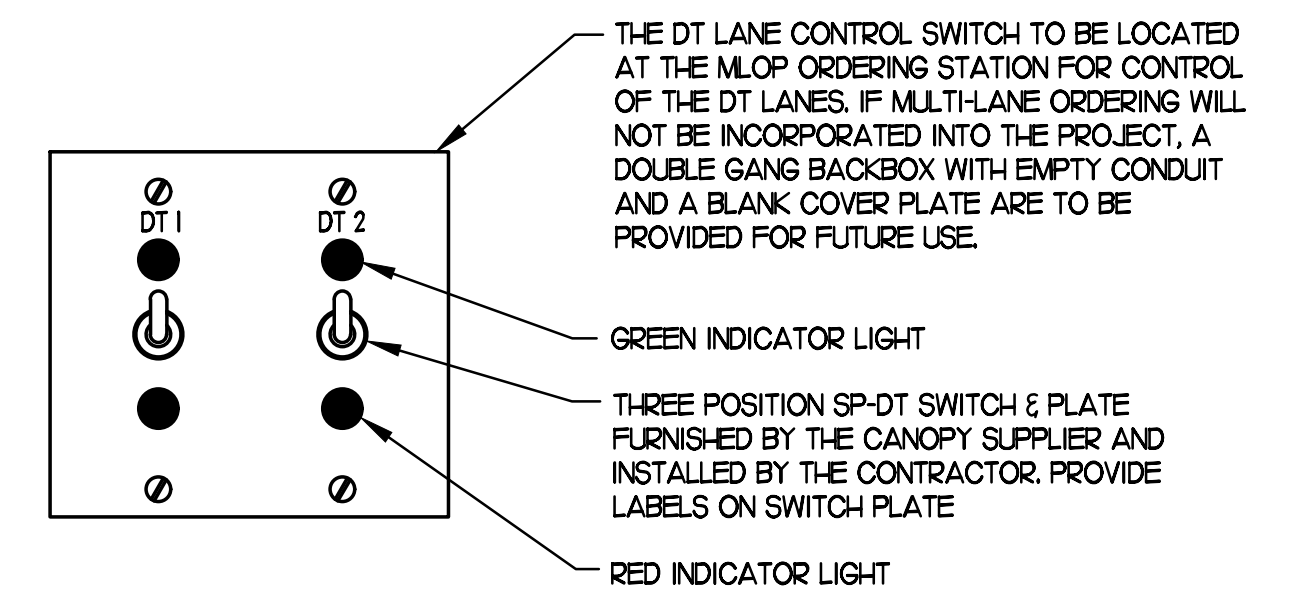
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2 MULTI-LANE DRIVE-THRU ORDER AREA CONDUIT REQUIREMENTS
NO SCALE

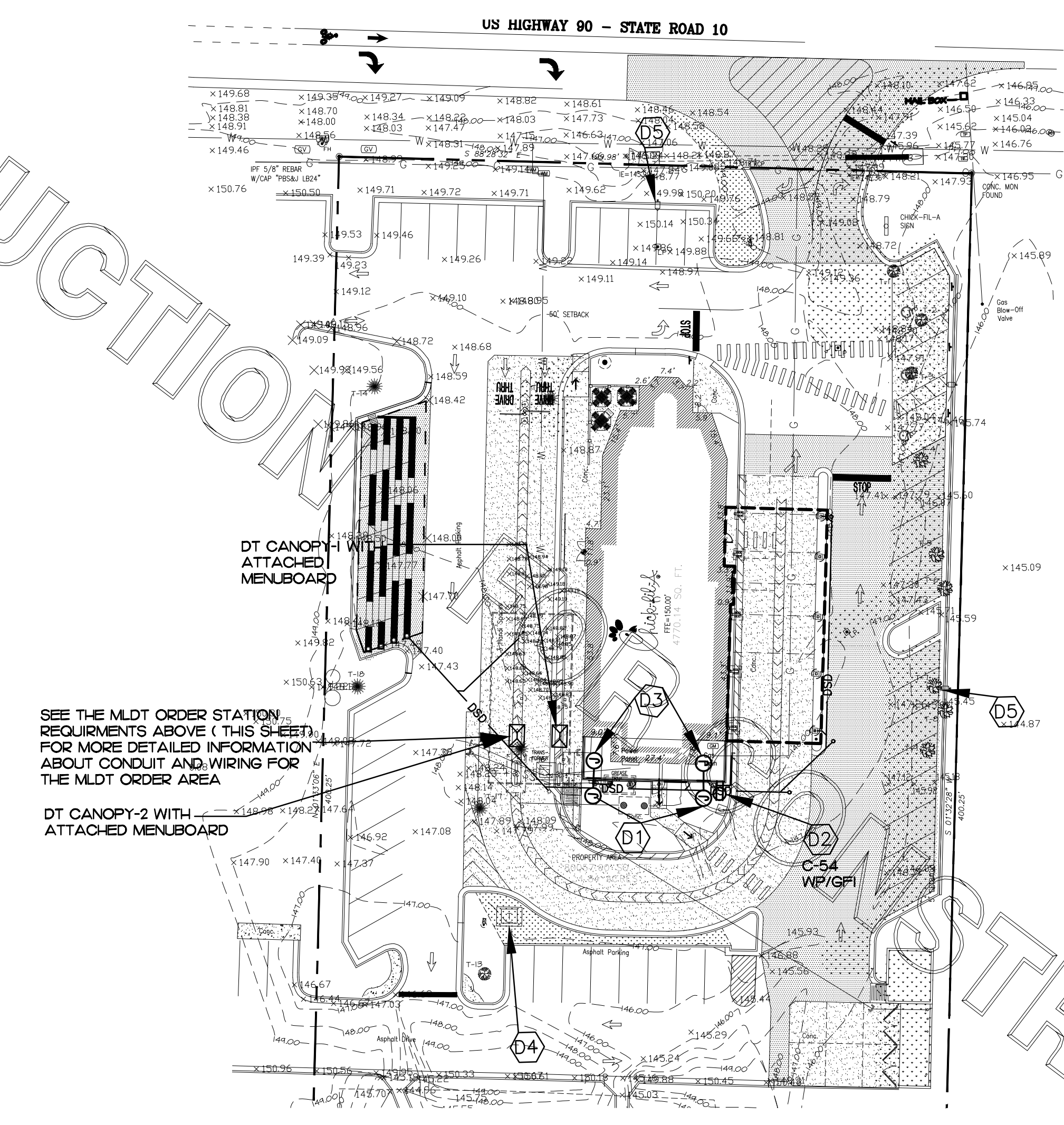


1 DUAL DT LANES CANOPY POWER WIRING SCHEMATIC - NEW MLOP
NO SCALE



3 POSITION DT LANE CONTROL STATION
NO SCALE

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



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



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DATE 02.2022

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SHEET

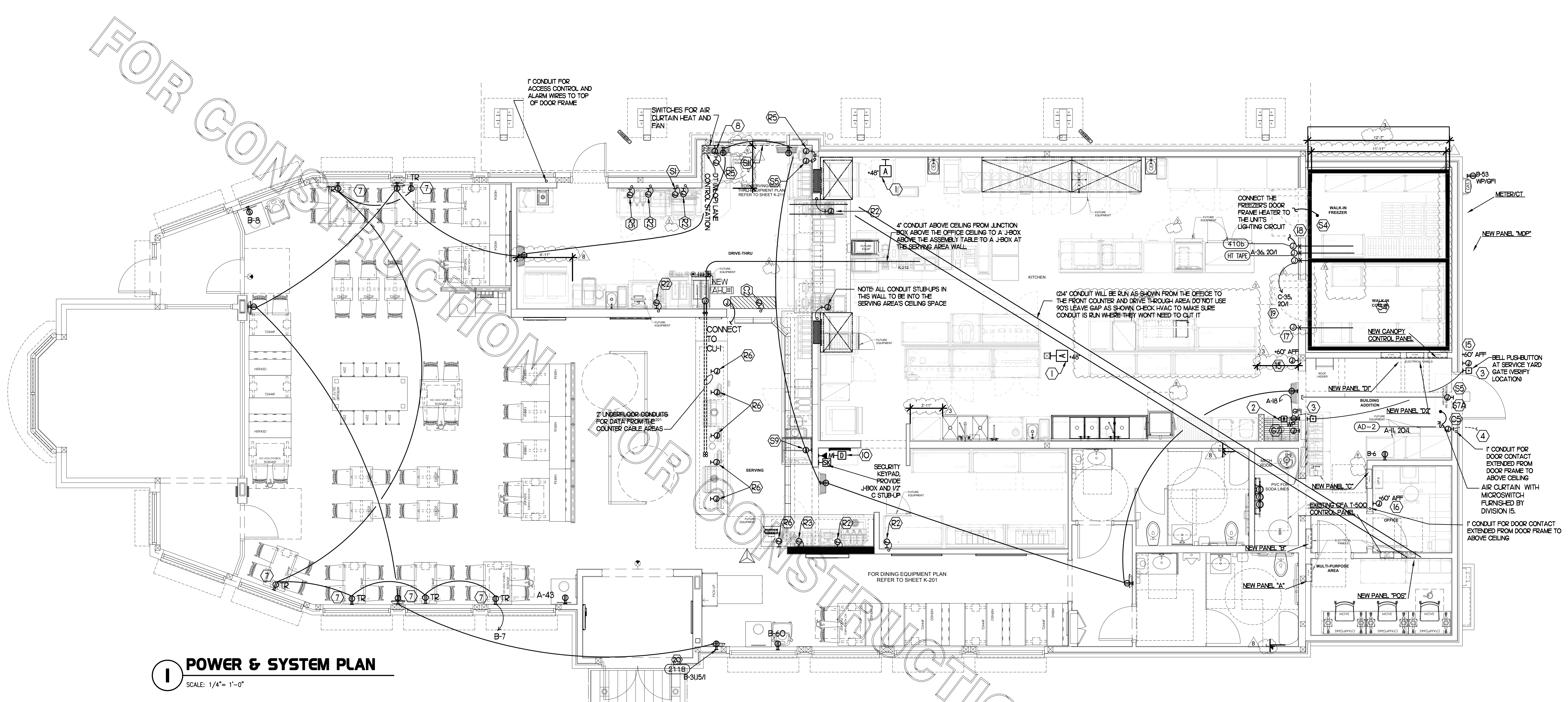
POWER & SYSTEMS PLAN & NOTES

SHEET NUMBER

E2.2

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

2 KEY NOTES - POWER:

- 1 PROVIDE 2 GANG DEEP BOX (2" MIN) FOR ANSL PULL STATION. EXTEND 1/2" CONDUIT FROM BOX, STUBBED ABOVE CEILING.
- 2 PROVIDE EDWARDS #340-4N5 VIBRATING 4" DIAMETER BELL. BELL SHALL BE RATED AT 120 VOLTS.
- 3 PROVIDE 120 VOLT WEATHER-PROOF DOORBELL PUSH-BUTTON AT DOOR. PUSH-BUTTON SHALL BE FLUSH MOUNTED. PROVIDE DORTRONICS SYSTEMS #W5286-P25 CLEAR ANODIZED ALUMINUM PUSH-BUTTON WITH SINGLE GANG SWITCH-PLATE.
- 4 ONE 3" ISP SERVICE CONDUIT. EXTEND WITH PULL STRING FROM THE J-BOX TO THE UTILITY SOURCE.
- 5 NOT USED.
- 6 NOT USED.
- 7 TAMPER RESISTANT (TR) DUPLEX RECEPTACLE WITH USB CHARGER (IN THE DINING AREAS) SHALL BE COPPER/ARROW HAPT #HT7744-91 (SHOWING) WITH MATCHING COLOR DECOR STYLE PLATE.
- 8 JUNCTION BOX WITH 3/4" CONDUIT STUB-UP INTO THE CEILING SPACE FOR OWNERS' INTERCOM FOR THE M/OP ORDERING CONTROL STATION. PROVIDE BLANK PLATE IF BLDG IS SINGLE LANE DRIVE-THRU.
- 9 NOT USED.
- 10 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.
- 11 NOT USED.
- 12 NOT USED.
- 13 NOT USED FROM 12 TO 14.
- 14 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.
- 15 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.
- 16 CONNECT EVAPORATOR UNIT IN COOLER TO COOLER CONDENSING UNIT CONTROLS LOCATED ON ROOF. SEE SHEET E2.3.
- 17 CONNECT EVAPORATOR UNIT IN FREEZER TO FREEZER CONDENSING UNIT CONTROLS LOCATED ON ROOF. SEE SHEET E2.3.
- 18 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 TO JUNCTION BOX.
- 19 PROVIDE DUPLEX NEMA 5-15R CLOCK RECEPTACLE (SEE ELEVATIONS FOR MTG HT) FOR CONNECTION TO FLY SYSTEM EQUIPMENT #21. VERIFY HEIGHT FOR #21. DO NOT CUT THE CORDSET FURNISHED WITH THE UNIT, BUT COIL THE CORD ON THE BACK OF THE UNIT PER MANUFACTURERS DIRECTIONS.

3 KEY NOTES - SECURITY:

- 1 PROVIDE SINGLE GANG JUNCTION BOX AND STAINLESS STEEL COVER PLATE WITH 7/8" HOLE IN CENTER. EXTEND 1" E.C. UP IN WALL TO ABOVE ACCESSIBLE CEILING.
- 2 PROVIDE 4" X 4" X 3/8" FLUSH JUNCTION BOX WITHOUT COVERPLATE. EXTEND 2" RIGID CONDUIT UP TO ABOVE ACCESSIBLE OFFICE CEILING AREA. PROVIDE BUSHING ON CONDUIT.
- 3 PROVIDE 4" X 4" X 3/8" JUNCTION BOX WITHOUT COVERPLATE. 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.
- 4 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.
- 5 PROVIDE SINGLE GANG BOX WITHOUT COVER PLATE. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING AND TURN TOWARD SERVING AREA SIDE OF WALL.
- 6 PROVIDE SINGLE GANG JUNCTION BOX ON INSIDE FACE OF PARAPET WALL APPROX. 12" BELOW TOP OF PARAPET WALL. EXTEND 1/2" CONDUIT DOWN TO ABOVE ACCESSIBLE OFFICE CEILING.
- 7 EXTEND 3/4" RIGID CONDUIT FROM TOP OF STRIKE-SIDE DOOR FRAME CHANNEL TO ABOVE ACCESSIBLE CEILING.
- 8 EXTEND 1/2" RIGID CONDUIT FROM A POINT 3" WITHIN EITHER HINGE-SIDE DOOR VERTICAL FRAME MULLION TO ABOVE ACCESSIBLE CEILING.
- 9 PROVIDE SINGLE GANG JUNCTION BOX WITHOUT COVERPLATE. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING AND TURN TOWARD SERVING AREA SIDE OF WALL.
- 10 PROVIDE SINGLE GANG WEATHER-PROOF JUNCTION BOX WITH STAINLESS STEEL COVER PLATE MOUNTED 18" FROM THE CORNER OF THE SERVICE YARD AND JUST BELOW ROOF DECK MOUNTING BRACKETS. ROUTE 1" EMT CONDUIT FROM THE BOX SURFACE MOUNTED JUST BELOW THE ROOF DECK MOUNTING BRACKETS AND TERMINATE THE CONDUIT AT 62.
- 11 EXTEND 1/2" RIGID CONDUIT FROM A POINT 3" WITHIN STRIKE-SIDE WINDOW FRAME MULLION TO ABOVE ACCESSIBLE CEILING.
- 12 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.
- 13 NOT USED.
- 14 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:

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

5 KEY NOTES - COMMUNICATIONS:

- 1 PROVIDE 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 (M/OP) ORDERING AREA AND A 2" CONDUIT STUBBED UP INTO THE CEILING SPACE.
- 2 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.
- 3 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 RNF SHALL BE ABOVE THE COUNTER AND ONE BELOW WITH A 2" CONDUIT BETWEEN THE RINGS.
- 4 PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" EMPTY CONDUIT STUBBED UP INTO THE ACCESSIBLE CEILING SPACE FOR OWNERS' VOIP PHONE JACK AND CABLES.
- 5 PROVIDE TWO 4"X4"X3/8" 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 36"X36"X3/4" PLYWOOD BACKBOARD ON THE WALL ABOVE THE J-BOXES (AT THE CEILING) FOR USE BY THE ISP. PROVIDE A COPPER GROUND BAR AT THE BOTTOM OF THE BACKBOARD WITH #6 AWG INSULATED CU GROUNDING CONDUCTOR IN A 3/4" FROM THE GROUND BAR TO THE BUILDINGS ELECTRICAL SERVICE GROUNDING ELECTRODE SYSTEM (GES). THE GROUND BAR SHALL HAVE TAPS FOR USE BY THE TELEPHONE AND ISP UTILITY COMPANIES AND FOR THE #6 COMMUNICATIONS GROUNDING CONDUCTOR TO THE GES. PROVIDE A 15 AMP ISOLATED GROUND (IG) ORANGE FACED DUPLEX RECEPTACLE IN THE WALL BESIDE THE BACKBOARD. CONNECT TO CIRCUIT POS-12 (5A/1P BRANCH BREAKER) AND LABEL THE RECEPTACLE FOR FIBER TO CABLE MODEM USE ONLY.

6 CO2 DETECTOR NOTES:

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

7 KEY NOTES - MUSIC:

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

8 KEY NOTES - POS SYSTEM:

- 1 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.
- 2 PROVIDE JUNCTION BOX FOR TERMINATION OF 1" CONDUIT. PROVIDE 1" CONDUIT EXTENDING FROM CEILING AND TERMINATED AT JUNCTION BOX ON THE SERVING AREA SIDE OF THE WALL. COVER PLATE PROVIDED BY OWNERS' POS SYSTEM VENDOR.
- 3 PROVIDE A 2" CONDUIT FROM FACE OF WALL AND EXTEND CONDUIT TO JUNCTION BOX IN CEILING SPACE ABOVE SERVING AREA. CONDUIT SHALL TERMINATE FLUSH WITH FACE OF WALL BELOW COUNTER. CUSTOM STAINLESS STEEL COVER PLATE IN WALL WITH GROMMET ON 2" DIAMETER HOLE AT CONDUIT TERMINATION IN WALL.
- 4 PROVIDE A 'RETROFIT' SINGLE GANG RING (CARLON #SC100RR) FOR OWNERS' DEVICE PLATE WITH A 2" EMPTY CONDUIT AT THE OPENING IN THE WALL UP TO THE CEILING SPACE FOR OWNERS' DATA CABLES.
- 5 PROVIDE JUNCTION BOX FOR TERMINATION OF 1" CONDUIT. PROVIDE 1" CONDUIT EXTENDING FROM CEILING AND TERMINATED AT JUNCTION BOX ON THE SERVING AREA SIDE OF THE WALL. POS SYSTEM SUPPLIER WILL PROVIDE COVER PLATE ON BOX.
- 6 PROVIDE SINGLE GANG EXTRA DEEP JUNCTION BOX MOUNTED ON THE MOUNTING PLATE WITHIN THE FRONT SERVING COUNTER CASEWORK.
- 7 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

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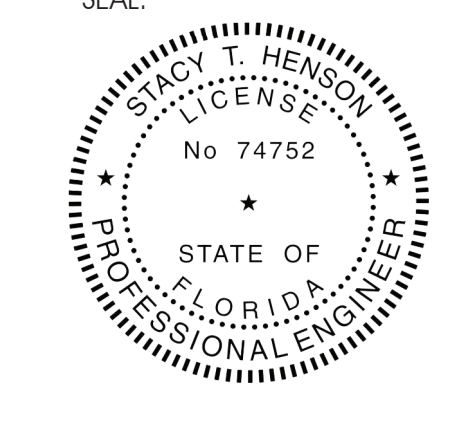
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This item has been digitally signed and sealed by T. Henson on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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Pace, FL, 32571

FSR#01715

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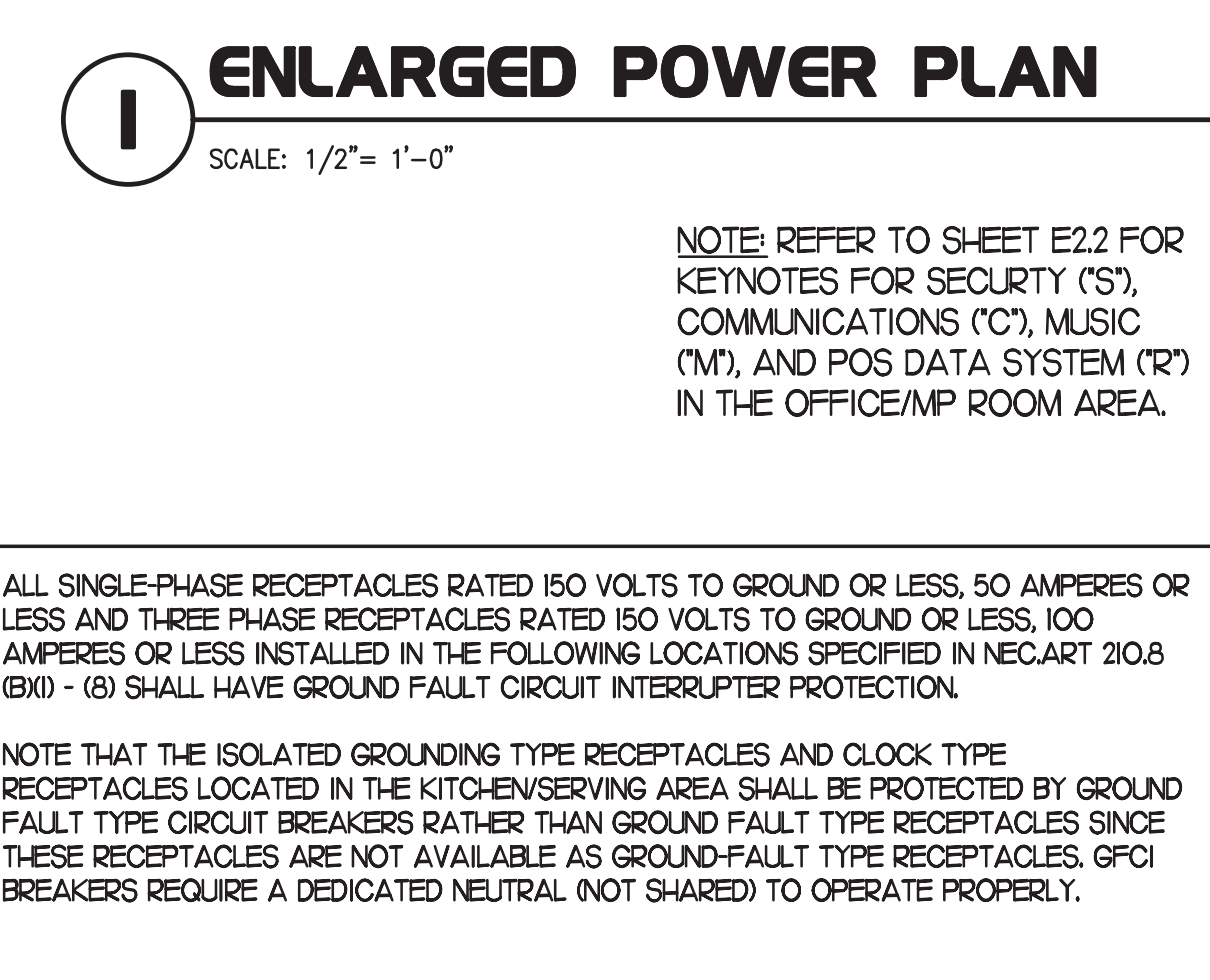
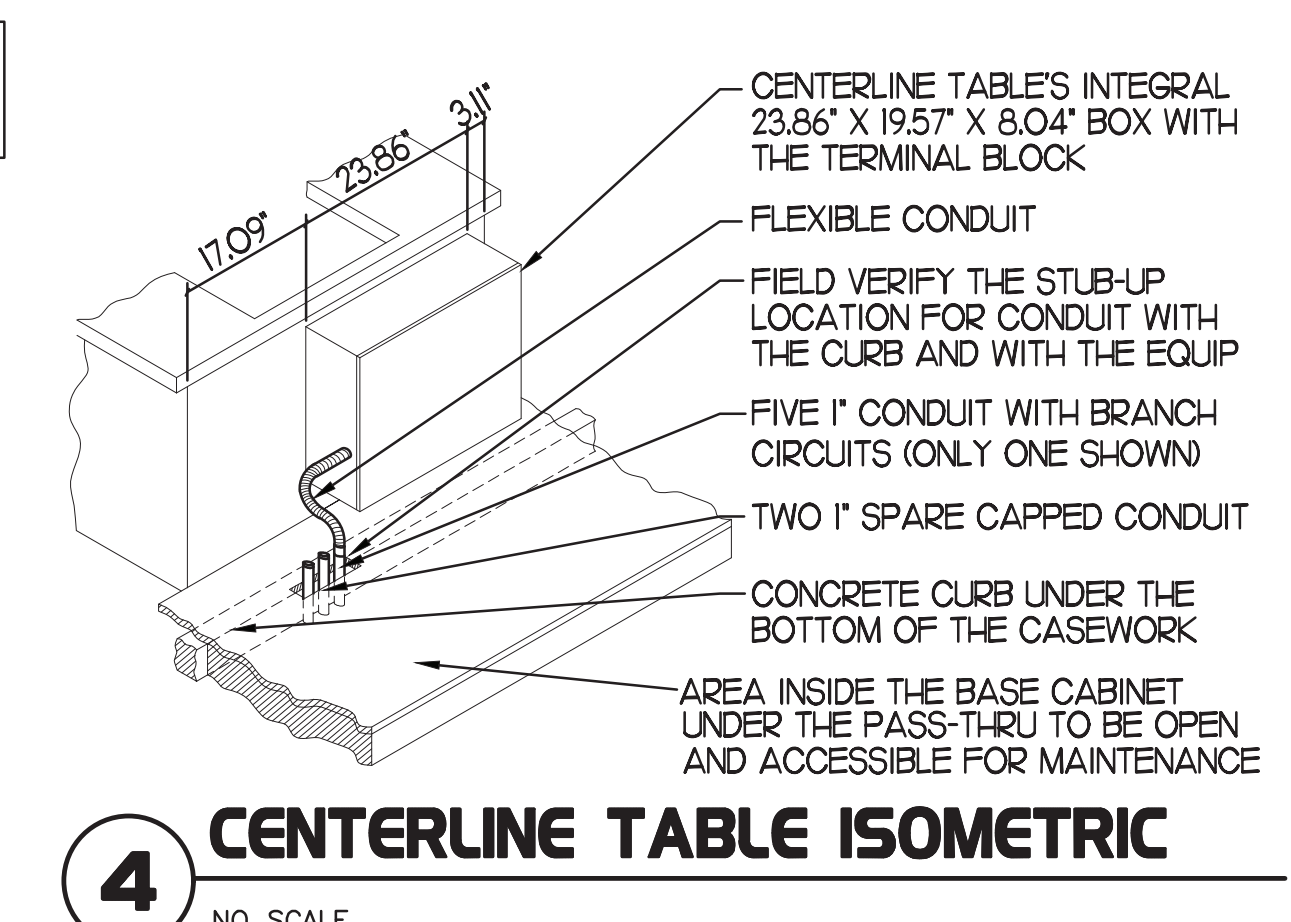
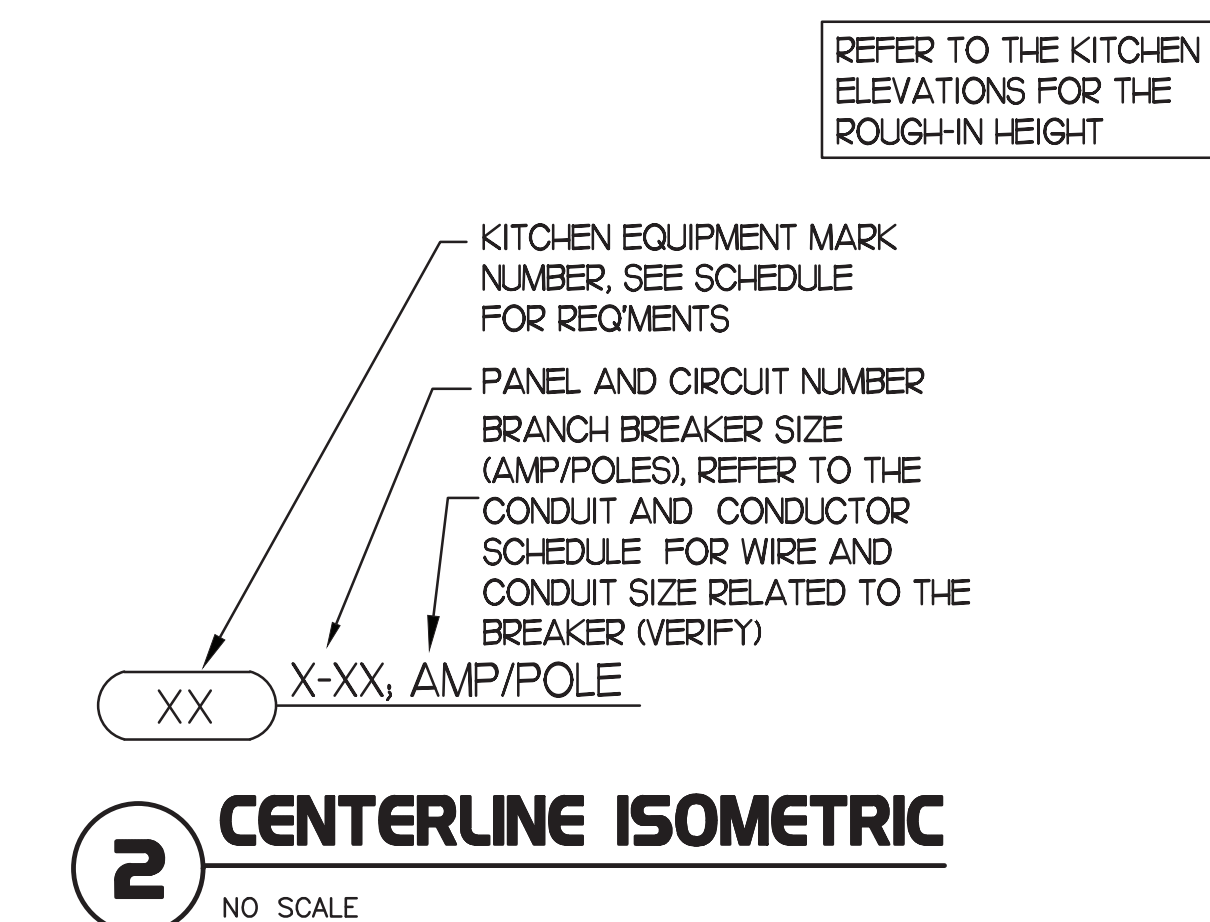
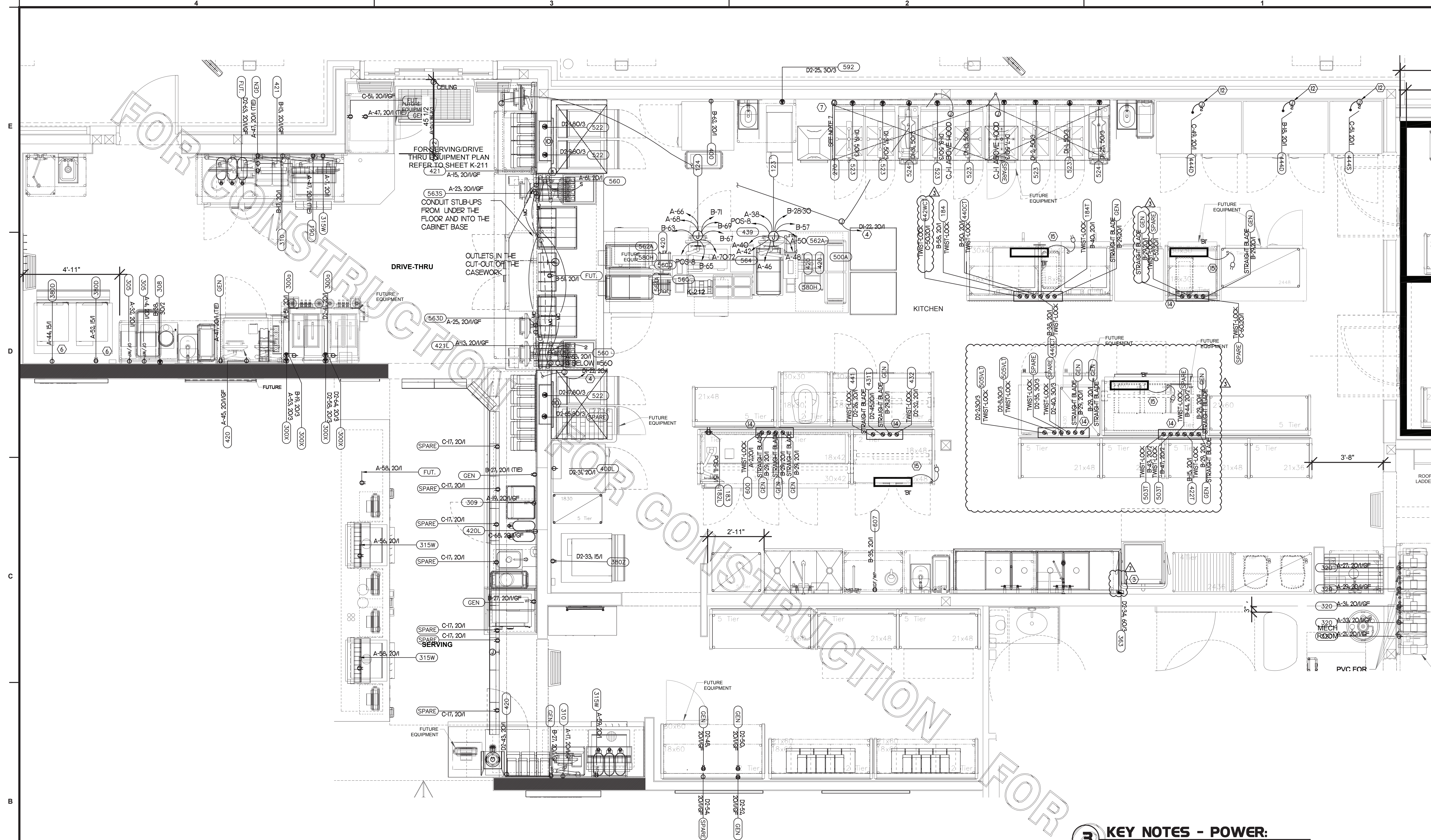
NO.	DATE	DESCRIPTION
1	02.19.22	ISSUED FOR PERMIT
2	02.22.22	BUILDING COMMENTS

CONSULTANT PROJECT #	2020.0268
DATE	02.2022
DRAWN BY	MI
CHECKED BY	SN
INFORMATION CONTAINED ON THIS DRAWING AND ALL DIGITAL FILES PRODUCED FOR THIS PROJECT MAY NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN CONSENT OF INTERPLAN LLC.	

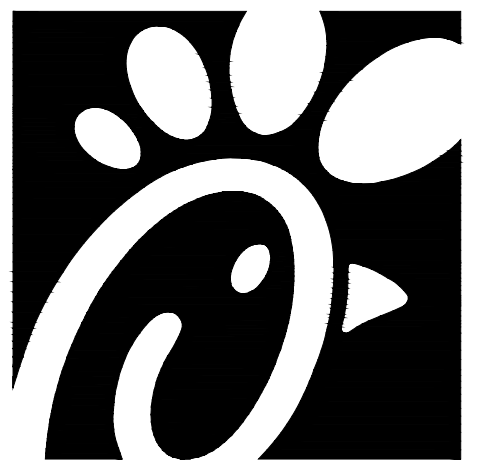
ENLARGED POWER PLAN
SHEET NUMBER

E2.4

mcaibr - 08/11/2022 7:02:56 PM



- 3 KEY NOTES - POWER:**
- NOT USED
 - NOT USED
 - PROVIDE IN-SIGHT DISCONNECT SWITCH IF REQUIRED BY ALL OTHERWISE PROVIDE PAD-LOCKING DEVICE ON BRANCH BREAKER
 - CONNECT AS REQUIRED TO C.I. FAN VIA SPEED CONTROLLER. CONNECT HOMERUN VIA RELAY IN "T-500" CONTROL SECTION.
 - ROUTE THROUGH LIGHTING CONTROL SWITCH-BANK "SER" CONTROLLED BY SWITCHED "T". REFER TO SHEET E-21
 - SEE SHEET E23, ROOF ELECTRICAL PLAN, FOR THE LOCATION OF THE ICE MACHINES CONDENSER AND ADDITIONAL REQUIREMENTS.
 - PROVIDE 3/4" IN 1/2" CONDUIT BETWEEN THE T-500 CONTROL PANEL AND THE ANSLU SYSTEM PANEL.
 - 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.
 - NOT USED.
 - THE OUTLETS FOR THE OPEN FRYERS (ITEM #522) ARE FURNISHED BY THE EXHAUST HOOD SUPPLIER AND INSTALLED BY THE CONTRACTOR.
 - NOT USED
 - LOOKABLE SINGLE POLE SWITCH SHALL SERVE AS THE LOCAL "IN-SIGHT" MEANS OF DISCONNECT FOR EQUIPMENT ITEM AS NOTED. THE SWITCH SHALL BE COOPER HS2983 AND INSTALLED PER THE DETAILS ON SHEET E12
 - NOT USED
 - OVER-HEAD EQUIPMENT POWER (OEP) DROP CORD RECEPTACLES FROM A FLUSH MOUNTED CEILING OEP BOX. PROVIDE A-C-S OEP ASSEMBLY #18234-HOOD. 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 6 SPINDLE MODEL #FS071-1/2 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).



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

INTERPLAN
 INTERPLAN LLC
 ARO011595
 CA 8660
 ARCHITECTURE
 ENGINEERING
 PERMITTING

220 E. CENTRAL PKWY., STE 4000
 ALAMONTE SPRINGS, FL 32701
 407.445.5038

SEAL:

THIS DOCUMENT IS NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION.

CHICK-FIL-A
 THE RIDGE
 5023 Highway 90
 Pace, FL, 32571

FSR#01715
 BUILDING TYPE / SIZE: S04-162
 RELEASE: 02.19.22
 PRINTED FOR: CONSTRUCTION

REVISION SCHEDULE	
NO.	DESCRIPTION
1	DATE: 02.20.22
2	DATE: 02.20.22
3	DATE: 02.20.22
4	DATE: 02.20.22
5	DATE: 02.20.22
6	DATE: 02.20.22
7	DATE: 02.20.22
8	DATE: 02.20.22
9	DATE: 02.20.22
10	DATE: 02.20.22
11	DATE: 02.20.22
12	DATE: 02.20.22
13	DATE: 02.20.22
14	DATE: 02.20.22
15	DATE: 02.20.22
16	DATE: 02.20.22
17	DATE: 02.20.22
18	DATE: 02.20.22
19	DATE: 02.20.22
20	DATE: 02.20.22
21	DATE: 02.20.22
22	DATE: 02.20.22
23	DATE: 02.20.22
24	DATE: 02.20.22

CONSULTANT PROJECT # 2020.0268
 DATE 02.20.22
 DRAWN BY MI
 CHECKED BY SN
 SHEET PANEL SCHEDULES
 SHEET NUMBER

E3.1
 marior - 08/05/2022 11:21:35 AM

UPDATED: 3/29/2022 9:30 am
 ISSUED FOR: APPROVAL

(NEW) PANEL MDP

LOCATION: EXTERIOR SURFACE
 MAIN: 1200A MLO SYSTEM: 34, 4W
 FEED: TOP GROUND BUS YES
 CONN. LOAD: 463.7 KVA

CKT	LOAD SERVED	COND	PHASE	NEUT	W/O	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	W/O	LOAD SERVED	CKT
1	PANEL "A"																PANEL "A"	2
2	PANEL "B"																PANEL "B"	3
3	PANEL "C"																PANEL "C"	4
4	PANEL "D"																PANEL "D"	5
5	PANEL "E"																PANEL "E"	6
6	PANEL "F"																PANEL "F"	7
7	TWS																SPACE	8

INTERRUPT RATING: 65,000

SEE LOAD SUMMARY ON SHEET E3.2

UPDATED: 6/15/2022 3:49 pm
 ISSUED FOR: APPROVAL

(NEW) PANEL D2

LOCATION: MULTI PURPOSE
 MAIN: 400A MLO SYSTEM: 34, 4W
 FEED: TOP GROUND BUS YES
 CONN. LOAD: 180 KVA

CKT	LOAD SERVED	COND	PHASE	NEUT	W/O	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	W/O	LOAD SERVED	CKT	
1	OPEN FR	1-1/4"	#3	#3	#3	#3	80/3	K	200		200		K	30/3	1/2"	#12	#12	500V - VICTOR OVEN	2
2	SPARE																		3
3	SPARE																		4
4	SHUNT TRIP SPACE																		5
5	OPEN FR																		6
6	SPARE																		7
7	SHUNT TRIP SPACE																		8
8	OPEN FR																		9
9	SPARE																		10
10	SHUNT TRIP SPACE																		11
11	OPEN FR	1-1/4"	#3	#3	#3	#3	80/3	K	200		200		K	30/3	1/2"	#12	#12	500V - VICTOR OVEN	12
12	SPARE																		13
13	SHUNT TRIP SPACE																		14
14	OPEN FR																		15
15	SPARE																		16
16	SHUNT TRIP SPACE																		17
17	OPEN FR	1-1/4"	#3	#3	#3	#3	80/3	K	200		200		K	30/3	1/2"	#12	#12	500V - VICTOR OVEN	18
18	SPARE																		19
19	SHUNT TRIP SPACE																		20
20	OPEN FR																		21
21	SPARE																		22
22	SHUNT TRIP SPACE																		23
23	OPEN FR	1/2"	#10	#10	#10	#10	30/3	K	200		200		K	30/3	1/2"	#12	#12	441 - SHAD PREP TABLE	24
24	SPARE																		25
25	SHUNT TRIP SPACE																		26
26	OPEN FR																		27
27	SPARE																		28
28	SHUNT TRIP SPACE																		29
29	OPEN FR																		30
30	SPARE																		31
31	SHUNT TRIP SPACE																		32
32	OPEN FR	1/2"	#12	#12	#12	#12	20/1	K	200		200		K	20/1	1/2"	#12	#12	432 - UC REFRIG	33
33	SPARE																		34
34	SHUNT TRIP SPACE																		35
35	OPEN FR	1/2"	#10	#10	#10	#10	30/3	K	200		200		K	30/3	1/2"	#12	#12	441 - SHAD PREP TABLE	36
36	SPARE																		37
37	SHUNT TRIP SPACE																		38
38	OPEN FR																		39
39	SPARE																		40
40	SHUNT TRIP SPACE																		41
41	OPEN FR	1/2"	#12	#12	#12	#12	20/1	K	200		200		K	20/1	1/2"	#12	#12	432 - UC REFRIG	42
42	SPARE																		43
43	SHUNT TRIP SPACE																		44
44	OPEN FR	1/2"	#12	#12	#12	#12	20/1	K	200		200		K	20/1	1/2"	#12	#12	432 - UC REFRIG	45
45	SPARE																		46
46	SHUNT TRIP SPACE																		47
47	OPEN FR	1/2"	#10	#10	#10	#10	30/3	K	200		200		K	30/3	1/2"	#12	#12	441 - SHAD PREP TABLE	48
48	SPARE																		49
49	SHUNT TRIP SPACE																		50
50	OPEN FR	1/2"	#10	#10	#10	#10	30/3	K	200		200		K	30/3	1/2"	#12	#12	432 - UC REFRIG	51
51	SPARE																		52
52	SHUNT TRIP SPACE																		53
53	OPEN FR	1/2"	#10	#10	#10	#10	30/3	K	200		200		K	30/3	1/2"	#12	#12	432 - UC REFRIG	54
54	SPARE																		55
55	SHUNT TRIP SPACE																		56
56	OPEN FR	1/2"	#10	#10	#10	#10	30/3	K	200		200		K	30/3	1/2"	#12	#12	432 - UC REFRIG	57
57	SPARE																		58
58	SHUNT TRIP SPACE																		59
59	OPEN FR	1/2"	#10	#10	#10	#10	30/3	K	200		200		K	30/3	1/2"	#12	#12	432 - UC REFRIG	60
60	SPARE																		61
61	SHUNT TRIP SPACE																		62
62	OPEN FR	1/2"	#10	#10	#10	#10	30/3	K	200		200		K	30/3	1/2"	#12	#12	432 - UC REFRIG	63
63	SPARE																		64
64	SHUNT TRIP SPACE																		65
65	OPEN FR	1-1/4"	#3	#3	#3	#3	80/3	K	200		200		K	30/3	1/2"	#12	#12	500V - VICTOR OVEN	66
66	SPARE																		67
67	SHUNT TRIP SPACE																		68
68	OPEN FR	1/2"	#10	#10	#10	#10	30/3	K	200		200		K	30/3	1/2"	#12	#12	432 - UC REFRIG	69
69	SPARE																		70
70	SHUNT TRIP SPACE																		71
71	SPARE																		72

INTERRUPT RATING: SERIES RATED PER MANUFACTURER'S LABEL 58303(61845)59805 FROM: (NEW) PANEL MDP

LOADS (N VA) CONNECTED DEMAND MINIMUM REMAINING CONTINUOUS LOADS 0 1.25 0
 LIGHTING 0 1.25 0 NON-SEASONAL MOTORS 0 1.0 0
 RECEIPTS TO 10 KVA 0 1.0 0 LARGEST MOTOR 0 0.25 0 MISC. DEMAND LOADS 0 1.0 0
 SPACE HEATING 0

