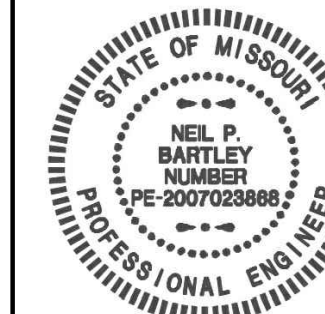




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VERSION	GEN 2.5 4000
DATE	08-11-2023

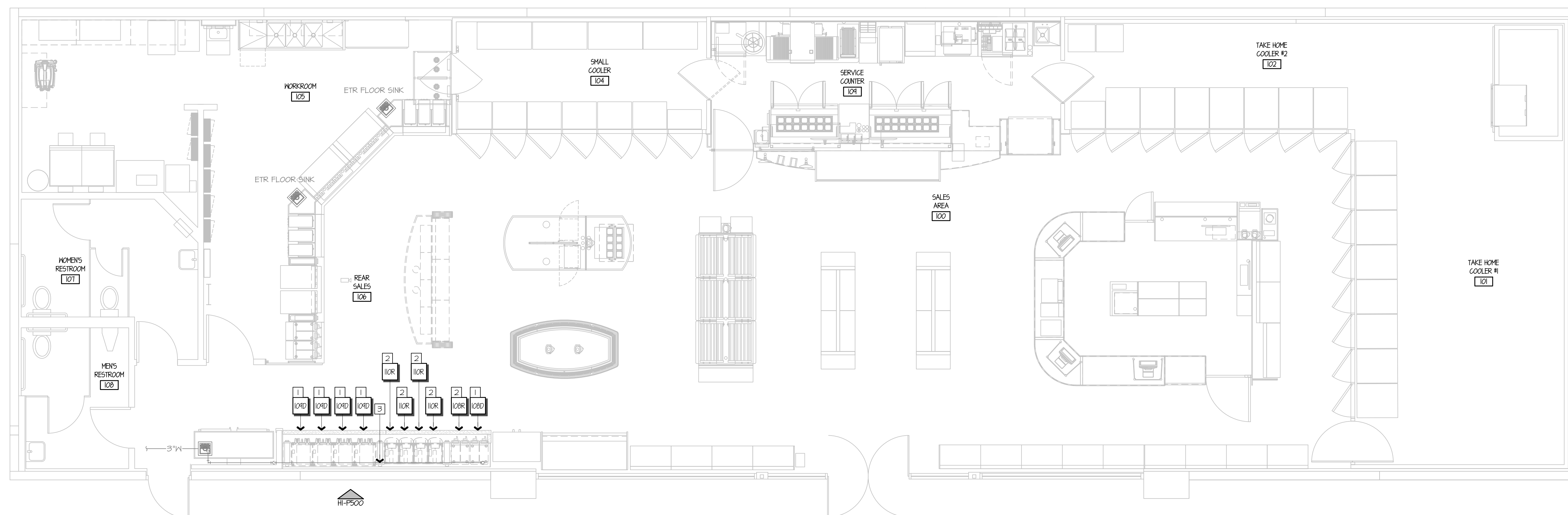
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SHEET TITLE

PLUMBING
WASTE & VENT
FLOOR PLAN - DEMO

SHEET NUMBER:

P101



- 1 REMOVE EQUIPMENT AND TURN OVER TO QT REPRESENTATIVE.
- 2 REMOVE EQUIPMENT AND RETAIN FOR RELOCATION.
- 3 DISCONNECT EQUIPMENT FROM EXISTING DRAIN MANIFOLD. PREPARE MANIFOLD FOR CONNECTION TO NEW/RELOCATED EQUIPMENT. RE: AI-PI02 FOR MORE INFORMATION.

REFER TO SHEET P600 FOR EQUIPMENT TAGS

BUILDING CODES:
2018 INTERNATIONAL PLUMBING CODE WITH LOCAL AMENDMENTS



A1

PLUMBING WASTE & VENT FLOOR PLAN - DEMO

A10

	BUILDING CODES
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A13

PLAN NOTES

$$\frac{1}{x} = 1 - 0^x$$

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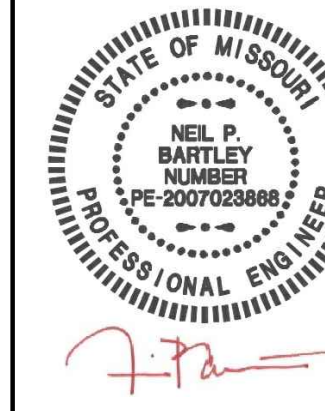
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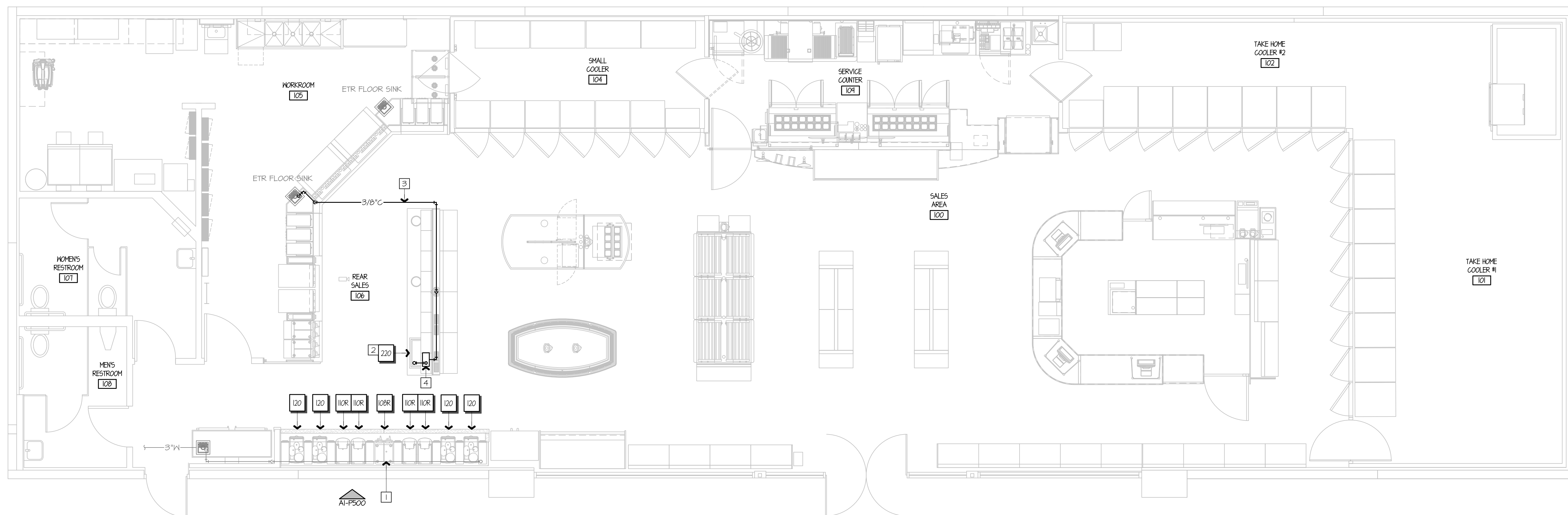
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SHEET TITLE:

PLUMBING
WASTE & VENT
FLOOR PLAN - NEW

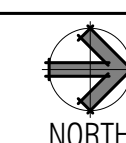
SHEET NUMBER:

P102



- | | |
|---|--|
| 1 | CONNECT NEW/RELOCATED EQUIPMENT TO EXISTING DRAIN MANIFOLD. |
| 2 | PROVIDE DRAIN FROM COLD WELL TO INLET OF CONDENSATE PUMP. RE: A1-P600 FOR MORE INFORMATION. |
| 3 | PROVIDE COLD WELL CONDENSATE PUMP DISCHARGE LINE. ROUTE WITHIN MILLWORK, THROUGH CHASE, ABOVE CEILING, AND DOWN BEHIND DRINK MACHINES. INDIRECTLY WASTE OVER FLOOR SINK WITH AIR GAP TWICE THE PIPE DIAMETER. RE: A13-P501 FOR MORE INFORMATION. |
| 4 | INSTALL COLD WELL CONDENSATE PUMP IN MILLWORK. REFERENCE GT INSTALL DRAWINGS FOR EXACT LOCATION. |

REFER TO SHEET P600 FOR EQUIPMENT TAGS



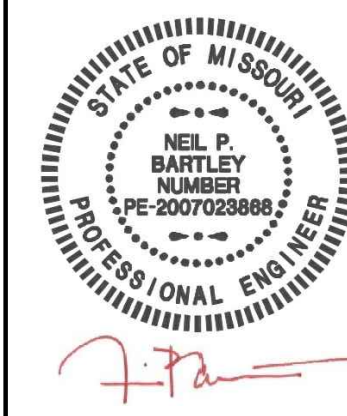
A13

	PLAN NOTES
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A1

PLUMBING WASTE & VENT FLOOR PLAN - NEW

$$\frac{1}{x} = 1 - 0^x$$



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DATE	08-11-2023

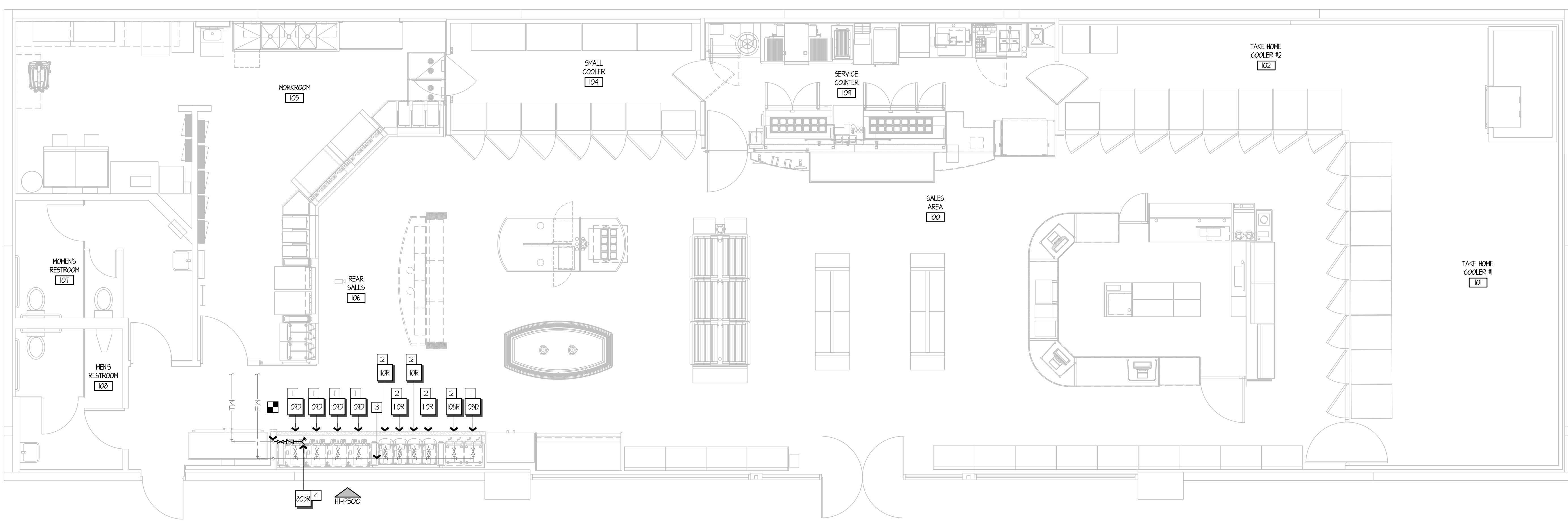
REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 08/11/2023

SHEET TITLE:
PLUMBING
WATER
FLOOR PLAN - DEMO

SHEET NUMBER:

P103



- 1 REMOVE EQUIPMENT AND TURN OVER TO QT REPRESENTATIVE.
- 2 REMOVE EQUIPMENT AND RETAIN FOR RELOCATION.
- 3 DISCONNECT EQUIPMENT FROM EXISTING WATER SUPPLY MANIFOLD, PREPARE MANIFOLD FOR CONNECTION TO NEW/RELOCATED EQUIPMENT. RE: AI-PI04 FOR MORE INFORMATION.
- 4 REMOVE AND RETAIN HOSE BIB AND UNDERCOUNTER HOSE REEL FOR RELOCATION. MAINTAIN BACKFLOW PROTECTION AS REQUIRED. RE: AI-PI04 FOR MORE INFORMATION.

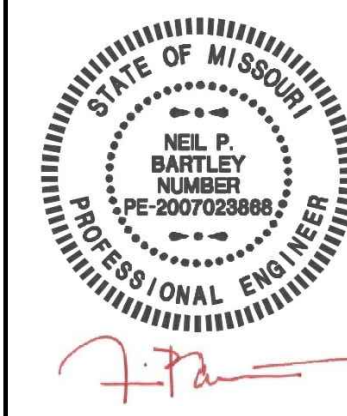
REFER TO SHEET P600 FOR EQUIPMENT TAGS



A1 PLUMBING WATER FLOOR PLAN - DEMO

A13 PLAN NOTES

1/4" = 1'-0"



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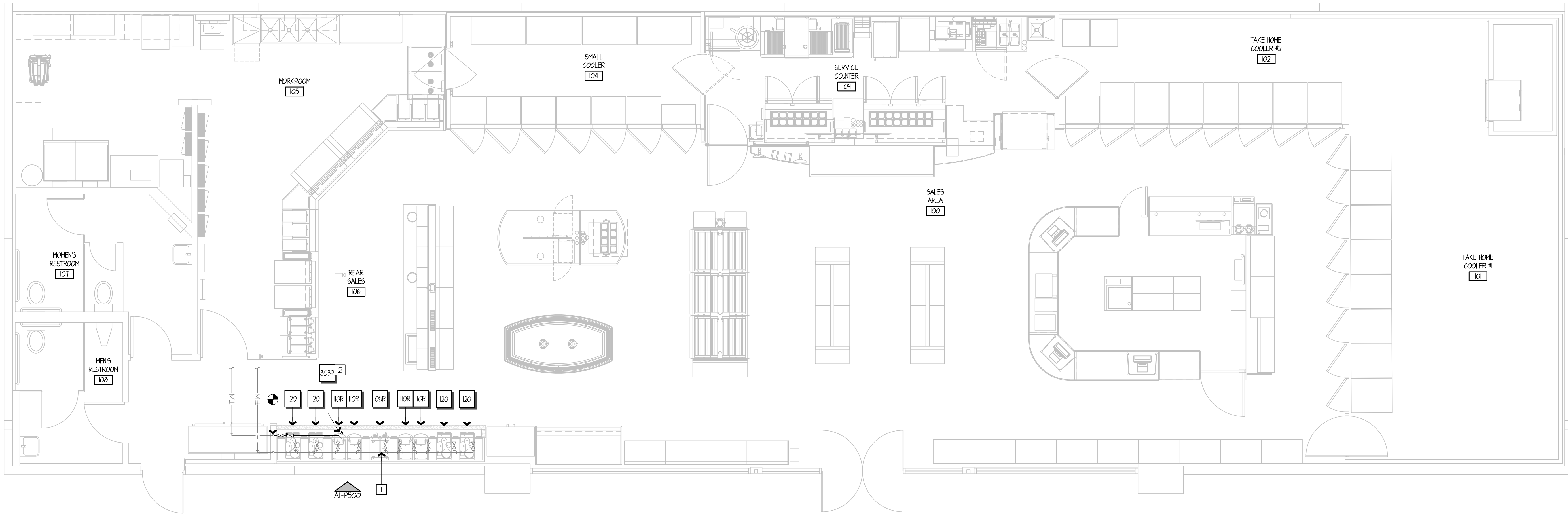
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DATE	08-11-2023

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 08/11/2023

SHEET TITLE:
PLUMBING
WATER
FLOOR PLAN - NEW

SHEET NUMBER:
P104



- 1 CONNECT NEW/RELOCATED EQUIPMENT TO EXISTING WATER SUPPLY MANIFOLD AND CAP UNUSED TAPS.
- 2 EXTEND WATER LINE AS SHOWN AND INSTALL HOSE BIB AND HOSE SPRAYER RETAINED DURING DEMOLITION. RE: AI-PS00 FOR MORE INFORMATION.

REFER TO SHEET P600 FOR EQUIPMENT TAGS



A1

PLUMBING WATER FLOOR PLAN - NEW

A13

PLAN NOTES

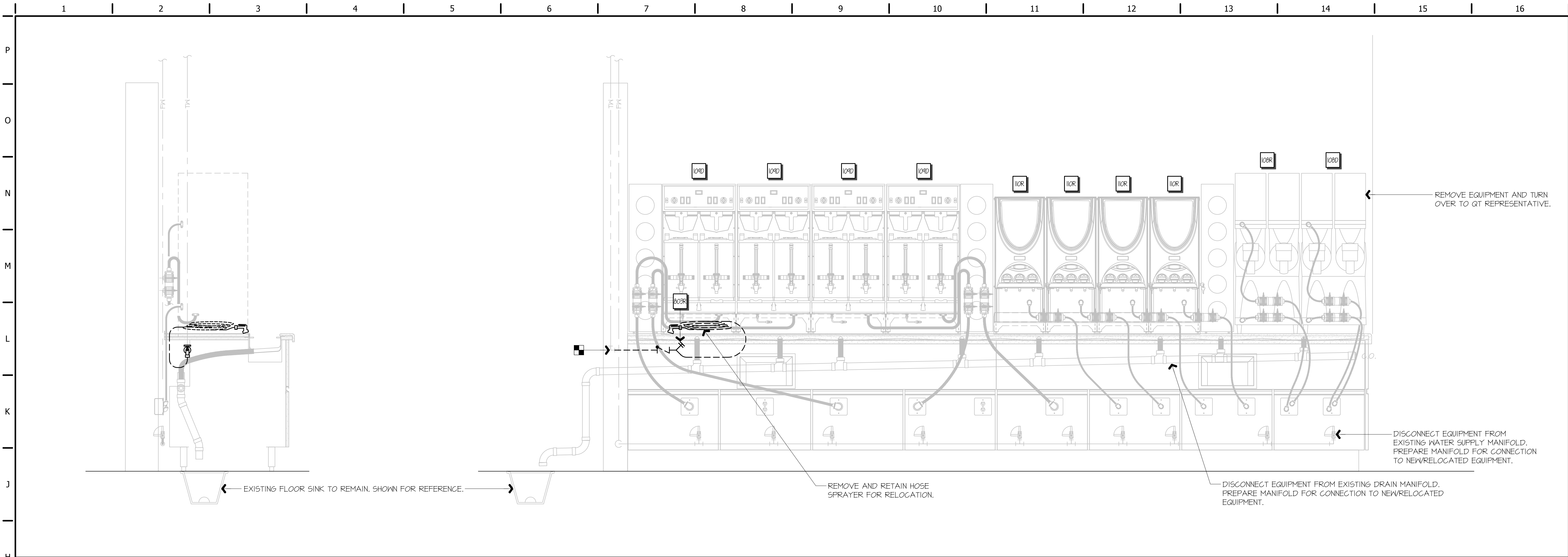
1/4" = 1'-0"

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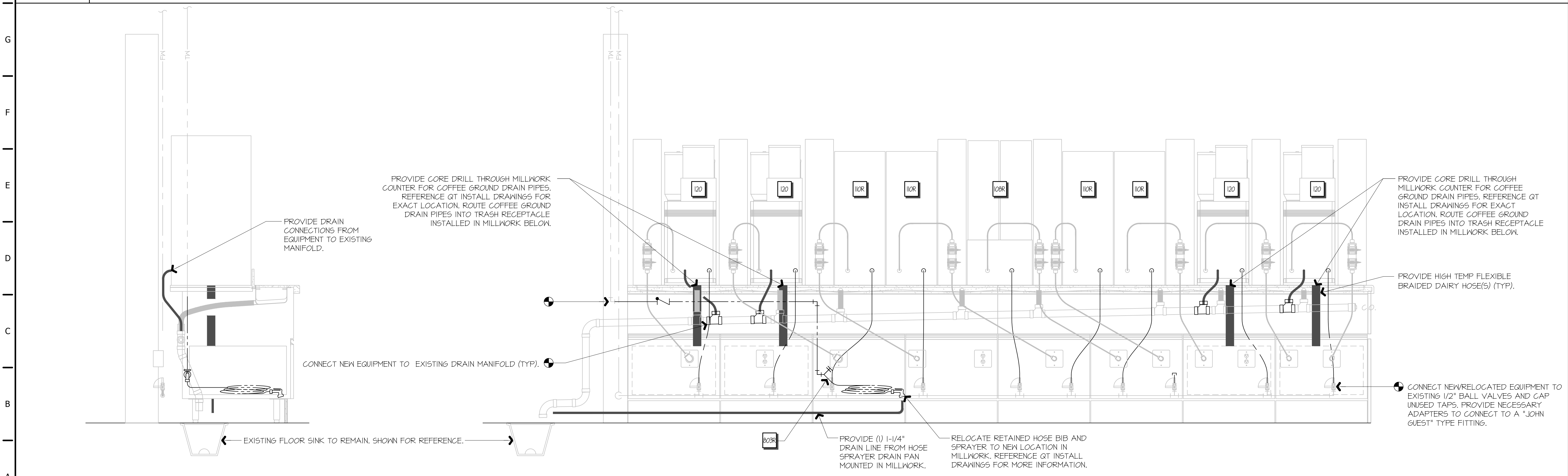
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H1 COFFEE BAR REAR ELEVATION & SECTION - DEMO

1"=1'-0"

A1-P101, A1-P103



A1 COFFEE BAR REAR ELEVATION & SECTION - NEW

1"=1'-0"

A1-P102, A1-P104

STATE OF MISSOURI
NEIL P. BARTLEY
NUMBER
PE-600706886
PROFESSIONAL ENGINEER

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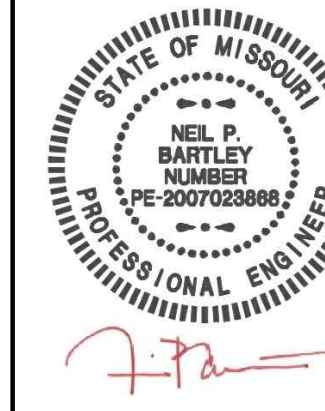
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REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 08/11/2023

SHEET TITLE:
PLUMBING
COFFEE BAR
ELEVATIONS

SHEET NUMBER:
P500



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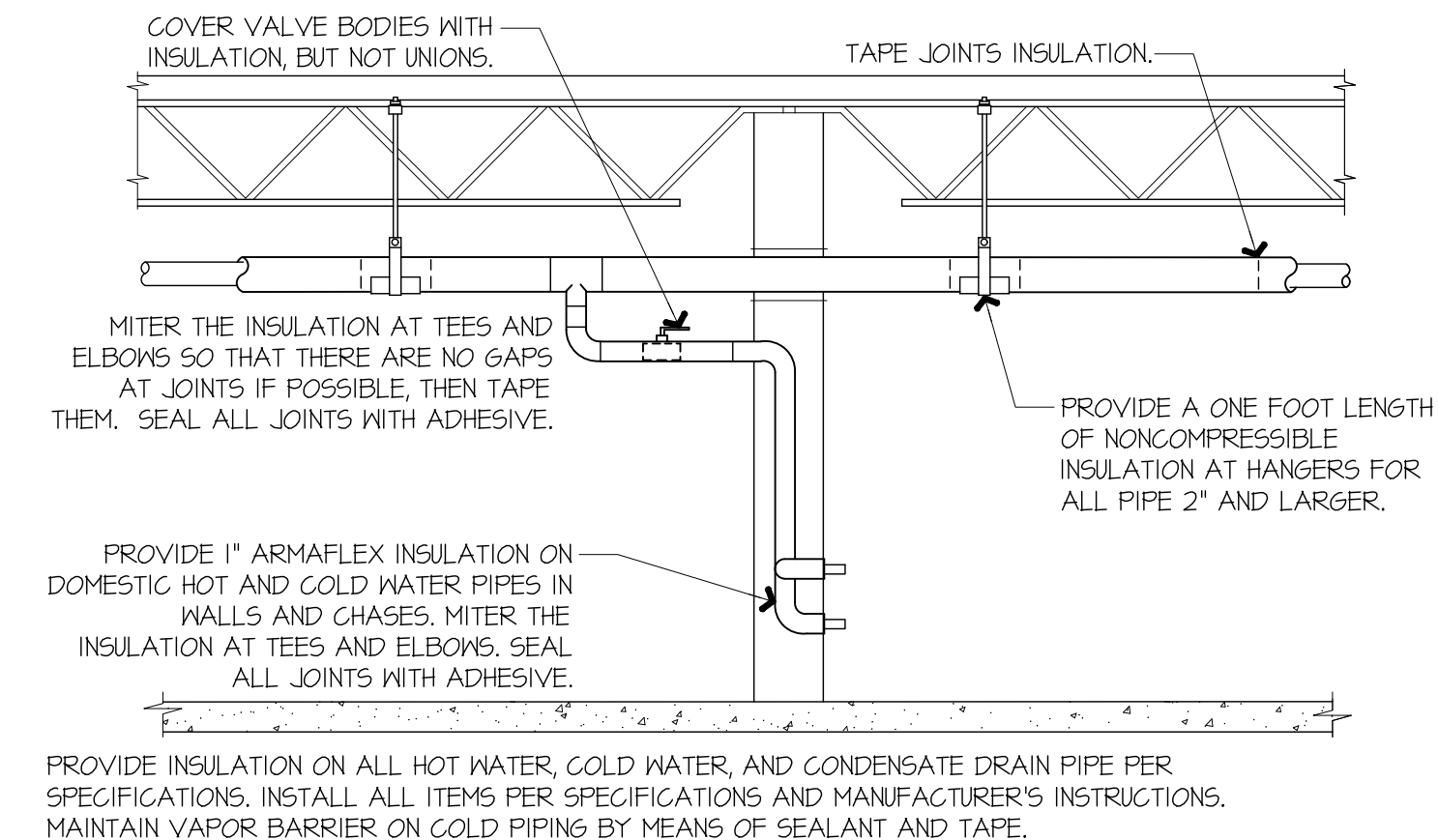
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SHEET TITLE:

PLUMBING DETAILS

SHEET NUMBER:

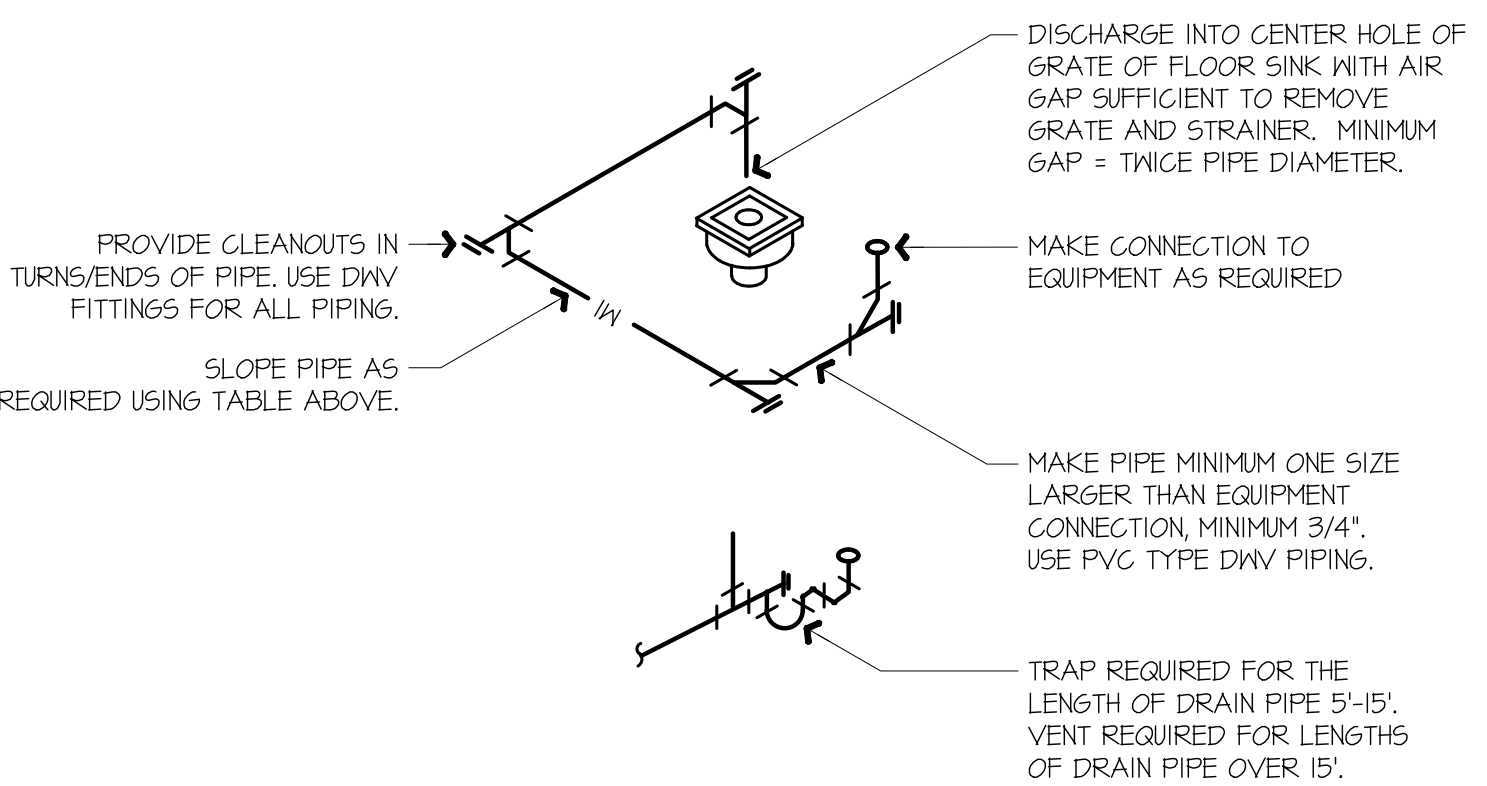
P501



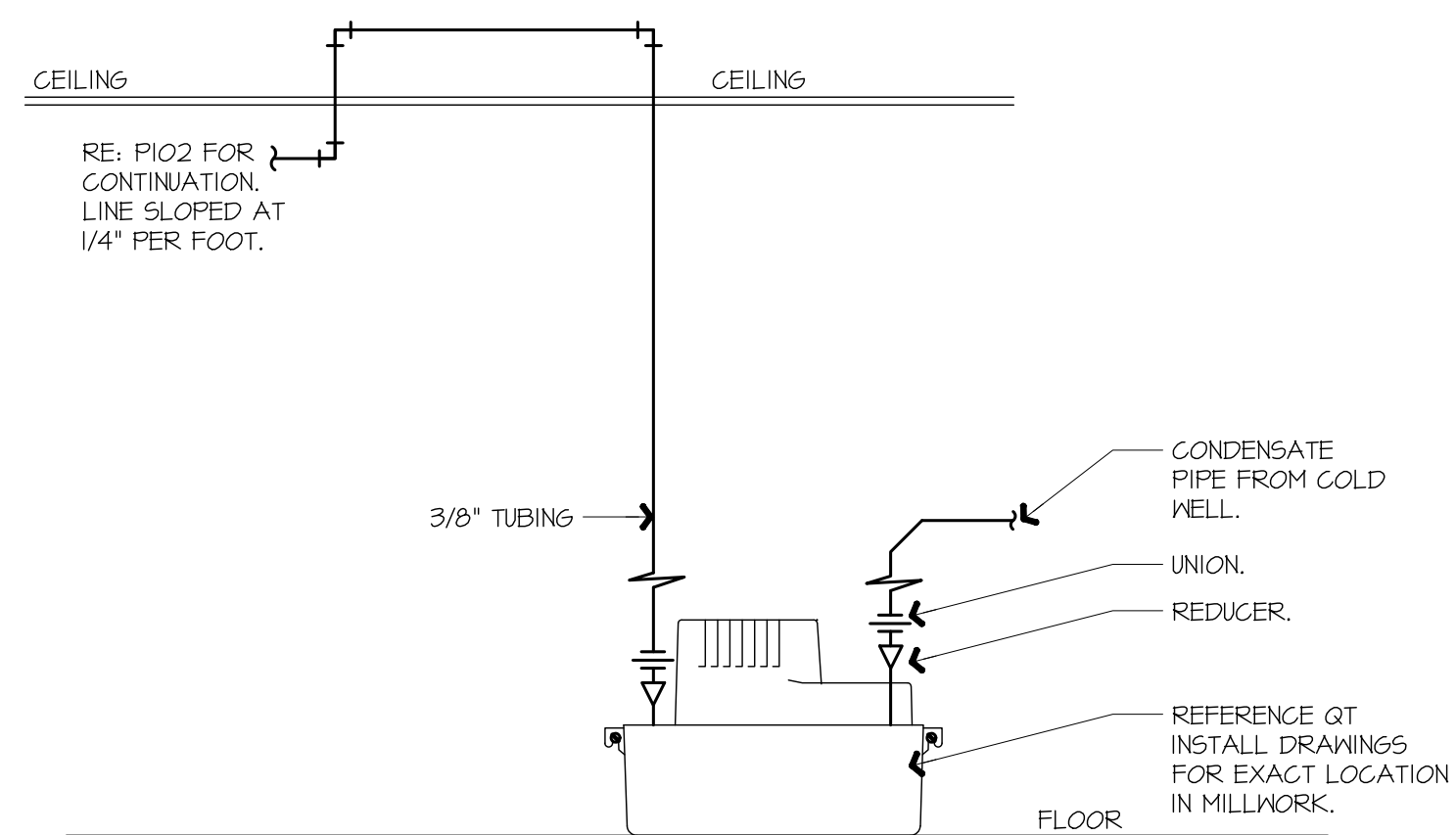
L13	PIPE INSULATION
NOT TO SCALE	

SLOPE OF HORIZONTAL DRAINAGE PIPE	
SIZE (INCHES)	MINIMUM SLOPE (INCHES PER FOOT)
2-1/2 OR LESS	1/4
3 TO 6	1/8
8 OR LARGER	1/16

ROUTE PIPE INCONSPICUOUSLY AND UNOBTUSIVELY, HANG PIPE AS REQUIRED. DO NOT INSULATE INDIRECT DRAIN PIPE WHEN INSTALLED EXPOSED IN FOOD SERVICE FACILITY. REFER TO LOCAL CODES FOR FURTHER INFORMATION.



F13	INDIRECT DRAIN
NOT TO SCALE	



A13	COLD WELL CONDENSATE PUMP PIPING DETAIL
-----	---

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A

PLUMBING SYSTEM

SECTION 20000

PROVIDING NEW MATERIALS, FITTINGS AND ACCESSORIES NECESSARY FOR THE WORK INCLUDES A COMPLETE FUNCTIONING PLUMBING SYSTEM. THE WORK ALSO INCLUDES ROUGH-IN AND FINAL CONNECTIONS TO FOOD SERVICE EQUIPMENT AND BEVERAGE DISPENSING EQUIPMENT PROVIDED BY OTHERS (UNLESS OTHERWISE NOTED). ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND/OR ORDINANCES AND IS SUBJECT TO INSPECTION.

HOOK-UP CHARGES, PERMITS AND ALL OTHER EXPENSES RELATED TO A COMPLETE AND FUNCTIONING PLUMBING SYSTEM ARE INCLUDED AS A PART OF THIS SECTION.

THE INTENT OF THE DRAWINGS IS TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, FIXTURES AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO MANUFACTURER'S STANDARD ROUGH-IN DRAWINGS FOR PLUMBING FIXTURE INSTALLATION REQUIREMENTS. COMPLY WITH ALL APPLICABLE ADA INSTALLATION REQUIREMENTS.

COORDINATE WITH THE WORK OF OTHER SECTIONS. EQUIPMENT FURNISHED BY OTHERS, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE.

PIPING SYSTEMS - GENERAL: ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. ALL PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED SPACES. INSTALL AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK SUCH AS DUCTS AND ELECTRICAL CONDUIT. AT ALL CONNECTIONS BETWEEN FERROUS PIPING AND NONFERROUS PIPING, PROVIDE AN ISOLATING DIELECTRIC UNION. ALL HANGERS SHALL BE COMPATIBLE WITH PIPING MATERIAL TO PREVENT CORROSION. PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE PLUMBING SYSTEMS FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED.

PLUMBING FIXTURES: PLUMBING FIXTURES SHALL BE AS SHOWN IN THE SCHEDULE ON THE DRAWINGS. ALL FIXTURES ARE TO BE NEW. ALL FIXTURES REQUIRING WATER SUPPLIES SUCH AS SINKS, LAVATORIES, ETC., SHALL BE PROVIDED WITH A CHROME BALL VALVE SUPPLY STOP WITH ESCUTCHEON AND BRAIDED STAINLESS STEEL FLEXIBLE SUPPLY LINE. ALL PLUMBING FIXTURES NOT SPECIFIED WITH, BUT REQUIRING TRAPS, SHALL BE PROVIDED WITH IT GAUGE TUBULAR BRASS TRAP, CHROME PLATED AND CHROME ESCUTCHEON. ALL FLOOR DRAINS CONNECTING TO THE SANITARY SYSTEM SHALL HAVE PVC TRAPS.

OWNER FURNISHED EQUIPMENT: PROVIDE ALL REQUIRED ROUGH-IN AND CONNECTIONS FOR OWNER FURNISHED EQUIPMENT IF/AS SHOWN ON PLANS.

SEWER AND WASTE PIPING: PROVIDE ALL DRAINS AND SEWERS WITHIN THE SPACE WITH CONNECTION TO THE DRAINAGE SYSTEMS ON-SITE. BOTH SANITARY DRAINAGE PIPING INTERIOR TO THE BUILDING ABOVE GRADE AND SANITARY DRAINAGE PIPING BELOW GRADE WITHIN AND BEYOND THE BUILDING SHALL BE SCHEDULE 40 SOLID-CORE POLYVINYL CHLORIDE (PVC) PIPE OR ACRYLONITRILE-BUTADIENE-STYRENE (ABS) PIPE WITH DRAINAGE PATTERN FITTINGS AND SOLVENT WELDED JOINTS. ALL 90° ELBOWS TO BE LONG SWEEP, THERE SHALL BE PUSH ON TYPE JOINTS FROM THE SANITARY LINE EXITING THE BUILDING TO THE SANITARY MAIN CONNECTION. ALL DRAINAGE PIPING SHALL BE UNIFORMLY PITCHED, 1/4" PER FOOT UNLESS OTHERWISE REQUIRED BY EXISTING CONDITIONS, OR INDICATED ON THE DRAWINGS.

VENTS: PROVIDE A COMPLETE VENT RISER SYSTEM MADE OF SCHEDULE 40 POLYVINYL CHLORIDE (PVC) OR ACRYLONITRILE-BUTADIENE-STYRENE (ABS) PIPE WITH DRAINAGE PATTERN FITTINGS AND SOLVENT WELDED JOINTS. THE VENT SYSTEM SHALL BE CARRIED THROUGH THE ROOF WITH APPROPRIATE FLASHING.

CONDENSATE AND INDIRECT DRAIN PIPING: PROVIDE A COMPLETE SYSTEM OF SCHEDULE 40 POLYVINYL CHLORIDE (PVC) WITH DRAINAGE PATTERN FITTINGS AND SOLVENT WELDED JOINTS FOR ALL CONDENSATE AND INDIRECT PIPING REQUIREMENTS.

CLEANOUTS: PROVIDE CLEANOUTS AT THE END OF EACH HORIZONTAL RUN, AND AT THE BASE OF ALL VERTICAL WASTE AND DRAIN PIPES. CLEANOUTS SHALL BE OF THE SAME SIZE AS THE PIPES THEY SERVE. CONFORMING TO CODE REQUIREMENTS, PROVIDE SUITABLE WALL OR FLOOR CLEANOUTS WITH ACCESSORIES TO OBSURE FROM VIEW.

WATER DISTRIBUTION PIPING: HOT AND COLD WATER PIPING SHALL BE 1/2" MIN. UPONOR PEX OR COPPER. REVERSE OSMOSIS PIPING SHALL BE PEX ONLY. PEX PIPING SHALL BE PEX-a (ENGEL METHOD CROSSLINKED POLYETHYLENE) PIPING; AQUAFEX RED AND BLUE BY UPONOR. WHERE COPPER IS USED, IT MUST BE TYPE K COPPER, BELOW SLAB, TYPE L ABOVE SLAB, WITH WROUGHT COPPER FITTINGS AND SWEAT CONNECTIONS. ANNEALED COPPER FOR 1-1/2" OR SMALLER, DRAWN COPPER FOR 2" AND GREATER. PROVIDE MIN. 16" HIGH FULL AIR CHAMBER AT EACH FIXTURE STOP AND PDI LISTED WATER HAMMER ARRESTERS PER CODE REQUIREMENTS. INSTALL CHROME PLATED BRASS ESCUTCHEON PLATES AT ALL PENETRATIONS THROUGH FINISHED SURFACES (INCLUDING CABINET INTERIORS). USE TIN-ANTIMONY SOLDER, 95/5 FOR ALL SWEAT FITTINGS OF COPPER PIPING.

PIPE INSULATION: INSULATE ALL HOT WATER AND COLD WATER PIPING. PROVIDE 1/2" PREFORMED FIBERGLASS, AS-J-VB, FLAME SPREAD 25, SMOKE DEVELOPED 50, ASTM C-541, OR PROVIDE WHERE PERMITTED BY LOCAL CODES, 1/2" SELF-ADHESIVE ARMAFLEX UNICELLULAR FOAM PIPE INSULATION WITH PRE-FORMED FITTING COVERS - WITH K FACTOR OF 0.21 AT 75 DEGREES MEAN TEMPERATURE. INSULATE ANY EXPOSED CONDENSATE PIPING WITH WASTE TEMPERATURES BELOW 60 DEGREES F.

SHUTOFF VALVES, WITH UNIONS SHALL BE PROVIDED FOR SERVICE TO EACH PLUMBING FIXTURE, FOOD SERVICE EQUIPMENT ITEM OR OTHER EQUIPMENT ITEM, TO FACILITATE ISOLATION FOR REPAIR OR REPLACEMENT. VALVES SHALL BE EQUAL TO UPONOR PROPEX LF BRASS BALL VALVE (LARGE BORE), 1/2" PEX x 1/2" PEX. CHECKVALVES SHALL BE EQUAL TO NIBCO T-433.

ACCESS PANELS SHALL BE PROVIDED WHERE CONCEALED CONTROL DEVICES, VALVES, ETC. ARE CONCEALED WITHIN WALLS, WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS POSSIBLE THROUGH LAT-IN SUSPENDED CEILINGSS. ACCESS PANELS ARE NOT REQUIRED. WALL ACCESS PANEL: JOSAM 50650 SERIES 8"x8" SQUARE STAINLESS STEEL ACCESS FRAME WITH BEVELED EDGE, ANCHOR LUGS AND SMOOTH, SECURED COVER.

SUPPLIES AND TRAPS: PROVIDE WATER SEALED TRAPS AND/OR SUPPLIES INSTALLED AS CLOSE AS POSSIBLE TO ALL PLUMBING FIXTURES, DRAINS, AND FOOD SERVICE EQUIPMENT OR BEVERAGE DISPENSING EQUIPMENT ITEMS FURNISHED BY OTHERS, HAVING A WASTE CONNECTION OR REQUIRING WATER SERVICE. SUPPLIES IN EXPOSED AREAS (INCLUDING CABINET INTERIORS) SHALL BE CHROMIUM PLATED BRASS, WITH CHROME PLATED ESCUTCHEON PLATES. EXPOSED TRAPS IN EXPOSED AREAS SHALL BE SCHEDULE 40 POLYVINYL CHLORIDE (PVC). REMOVE ALL MARKINGS FROM ALL PIPING WHEN INSTALLATION IS COMPLETE USE SUITABLE CLEANER AND JOINT GLUE COMPATIBLE WITH SCHEDULE 40 POLYVINYL CHLORIDE (PVC) DWV PIPING.

INSTALLATION: THOROUGHLY CLEAN ITEMS BEFORE INSTALLATION. CAP PIPE OPENINGS TO EXCLUDE DIRT UNTIL FIXTURES ARE INSTALLED AND FINAL CONNECTIONS HAVE BEEN MADE. PROCEED AS RAPIDLY AS CONSTRUCTION WILL PERMIT. SET FIXTURES LEVEL AND IN PROPER ALIGNMENT. INSTALL SUPPLIES IN PROPER ALIGNMENT WITH FIXTURES. INSTALL SILICONE SEALANT BETWEEN FIXTURES AND ADJACENT MATERIAL, FOR SANITARY JOINT, AND OMIT ESCUTCHEONS.

REPAIR EXISTING PLUMBING SYSTEM COMPONENTS DAMAGED BY CONSTRUCTION OPERATIONS AND RESTORE TO ORIGINAL CONDITIONS.

CLEAN WATER PIPING PER LOCAL HEALTH DEPT. REQUIREMENTS. TEST WATER SYSTEM UNDER 150 PSIG HYDROSTATIC PRESSURE, FOR (4) HOURS MINIMUM. WHEN TESTING INDICATES MATERIALS OR WORKMANSHIP IS DEFICIENT, REPLACE OR REPAIR AS REQUIRED, AND REPEAT TEST UNTIL STANDARDS ARE ACHIEVED.

FAUCETS AND OTHER PLUMBING ITEMS SHALL BE PROPERLY ADJUSTED.

HOT AND TEMPERED WATER REGIRULATING VALVES SHALL BE BALANCED TO FLOWS NOTED ON DRAWINGS USING GAUGES SUPPLIED BY VALVE MANUFACTURER.

DOMESTIC WATER PIPING SYSTEM SHALL BE PURGED OF DELETERIOUS MATTER AND DISINFECTED PRIOR TO UTILIZATION PER IPC AS FOLLOWS:
1. THE PIPE SYSTEMS SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT POINTS OF OUTLETS.
2. THE SYSTEM, OR PART THEREOF, SHALL BE FILLED WITH A WATER/CHLORINE SOLUTION CONTAINING AT LEAST 50 PPM OF CHLORINE, AND THE SYSTEM OR PART THEREOF SHALL BE VALVED OFF AND ALLOWED TO STAND FOR 24 HOURS; OR THE SYSTEM OR PART THEREOF SHALL BE FILLED WITH A WATER/CHLORINE SOLUTION CONTAINING 200 PPM OF CHLORINE AND ALLOWED TO STAND FOR 3 HOURS.
3. FOLLOWING THE REQUIRED STANDING TIME, THE SYSTEM SHALL BE FLUSHED WITH CLEAN POTABLE WATER UNTIL THE CHLORINE IS PURGED FROM THE SYSTEM.
4. THE PROCEDURE SHALL BE REPEATED WHERE SHOWN BY A BACTERIOLOGICAL EXAMINATION THAT CONTAMINATION REMAINS PRESENT IN THE SYSTEM.

—ROW———
—CN———
—HWS———
—HWR-----
—TWS-----
—TWR-----
—FW-----
—NSFW-----
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---W-----

REVERSE OSMOSIS WATER (ROW)
COLD WATER (CN)
HOT WATER SUPPLY (HWS)
HOT WATER RETURN (HWR)
TEMPERED WATER SUPPLY (TWS)
TEMPERED WATER RETURN (TWR)
FILTERED WATER SUPPLY (FW)
NON-SILAPHOS FILTERED WATER SUPPLY (NSFW)
POKER WASH LINE
GAS LINE
CONDENSATE LINE
PLUMBING VENT (V)
SANITARY WASTE (W) OR GREASE WASTE (GW) - BELOW SLAB/GRADE
SANITARY WASTE (W) OR GREASE WASTE (GW) - ABOVE SLAB/GRADE
PIPE TURNING UP/DOWN
BALL VALVE
CIRCUIT SETTER TYPE BALANCING VALVE
"CV" CHECK VALVE (DIRECTION OF FLOW)

VTR
CO
WCO
FFCO/FGCO
FD
BFP
ROW

FIXTURE OR EQUIPMENT IDENTIFICATION
PLAN NOTE
VENT THRU ROOF
CLEANOUT
WALL CLEANOUT
FLUSH FLOOR/GRADE CLEANOUT
FLOOR DRAIN (SQUARE SCORIATION COVER)
BACKFLOW PREVENTER
REVERSE OSMOSIS WATER
CONNECT TO EXISTING
DISCONNECT FROM EXISTING

J1

PLUMBING SPECIFICATIONS

J13

PLUMBING SYMBOLS LEGEND

PLUMBING EQUIPMENT LIST AND CONNECTION SCHEDULE

TAG 	DESCRIPTION	MANUFACTURER	MODEL	TRIM & ACCESSORIES	CONNECTIONS					FURNISHED BY	BACKFLOW	
					CW	HW	TW	W	V		(PC FURNISHED)	NOTES
108	SMOOTHIE MACHINE	BUNN	ULTRA-2 PAF		1/2"FW			DRIP TRAY	QT		WILKINS #38-T40 (D.C. ASSGE 1022)	2
109	COFFEE MACHINE	BUNN	#35500.0013		1/2"FW			DRIP TRAY	QT			
110	CAPPUCCINO MACHINE	BUNN	IMIX-3		1/2"FW			DRIP TRAY	QT		WILKINS #38-T40 (D.C. ASSGE 1022)	2
120	BEAN TO CUP COFFEE	CURTIS	GENESIS		1/2"FW			1"	QT		WILKINS #38-T40 (D.C. ASSGE 1022)	1
220	COLD WELL	THERMELL REFRIGERATION	I4ROB						GT			1
	CONDENSATE PUMP	ASURITY	GP-22LP					3/8" IN TO F5		PC		1
803	HOSE BIB	WATTS	LF5C-3	CAST BRASS FAUCET, CAST IRON WHEEL HANDLE, 3/4"			3/4"			-	WILKINS #34-100XL (D.C. ASSGE 1024)	
NOTES: 1) PROVIDE ALL ACCESSORIES, FITTINGS, ETC., REQUIRED FOR COMPLETE INSTALLATION. 2) EXISTING BACKFLOW PROTECTION TO BE REUSED WITH RELOCATED EQUIPMENT. REFERENCE P104 FOR MORE INFORMATION. GENERAL NOTES (APPLY TO ALL THE ABOVE): A) PLUMBING CONTRACTOR WILL PROVIDE ALL FIXTURES LISTED IN THE PLUMBING FIXTURE SCHEDULE, INCLUDING ALL ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM INCLUDING, BUT NOT LIMITED TO, DRAINS, TRAPS, STOPS, SUPPLIES, ADAPTERS, FITTINGS, ESCUTCHEONS, UNIONS, GAUGES, FLEX-CONNECTORS, ETC., WITH THE EXCEPTION OF FIXTURES WHICH ARE NOTED AS OWNER-FURNISHED, CONTRACTOR-INSTALLED IN RESPONSIBILITY MATRIX. CONTRACTOR STILL PROVIDES TRIM AND ACCESSORIES AS SCHEDULED. COORDINATE WITH GT REPRESENTATIVE. PROVIDE COMPLETE SUBMITTAL PACKAGE TO GT REPRESENTATIVE FOR APPROVAL. B) ALL DEVICE ROUGH-IN MOUNTING HEIGHTS SHALL BE VERIFIED WITH THE EQUIPMENT MANUALS PRIOR TO COMMENCING WORK. C) FURNISHED BY: QT=QUIKTRIP, PC=PLUMBING CONTRACTOR, MC=MECHANICAL CONTRACTOR, EC=ELECTRICAL CONTRACTOR. D) AFF=ABOVE FINISHED FLOOR, CW=COLD WATER, FW=FILTERED WATER, RI=ROUGH-IN, BV=BALL VALVE (FULL PORT), IW=INDIRECT WASTE, HD=HUB DRAIN, F5=FLOOR SINK. E) WHERE "FLEX" IS CALLED FOR, PROVIDE A SIX FOOT COILED LENGTH OF FOOD GRADE FLEXIBLE REINFORCED PLASTIC TUBING FROM THE ROUGH-IN TO THE EQUIPMENT, USING ADAPTERS AND HOSE CLAMPS AS REQUIRED. F) D=DEMO, R=REUSE/RELOCATE, F=FUTURE.												

—ROW—	REVERSE OSMOSIS WATER (ROW)
—CW—	COLD WATER (CW)
—HWS—	HOT WATER SUPPLY (HWS)
—HWR—	HOT WATER RETURN (HWR)
—TWS—	TEMPERED WATER SUPPLY (TWS)
—TWR—	TEMPERED WATER RETURN (TWR)
—FW—	FILTERED WATER SUPPLY (FW)
—NSFW—	NON-SILAPHOS FILTERED WATER SUPPLY (NSFW)
—PW—	POWER WASH LINE
—G—	GAS LINE
—C—	CONDENSATE LINE
—V—	PLUMBING VENT (V)
—W—	SANITARY WASTE (W) OR GREASE WASTE (GW) - BELOW SLAB/GRADE
—W—	SANITARY WASTE (W) OR GREASE WASTE (GW) - ABOVE SLAB/GRADE
—O—	PIPE TURNING UP/DOWN
—B—	BALL VALVE
—S—	CIRCUIT SETTER TYPE BALANCING VALVE
—N _{CV} —	"CV" CHECK VALVE (DIRECTION OF FLOW)
	FIXTURE OR EQUIPMENT IDENTIFICATION
	PLAN NOTE
VTR	VENT THRU ROOF
GO	CLEANOUT
WGO	WALL CLEANOUT
FFCO/FGCO	FLUSH FLOOR/GRADE CLEANOUT
FD	FLOOR DRAIN (SQUARE SCORATION COVER)
BFP	BACKFLOW PREVENTER
ROW	REVERSE OSMOSIS WATER
	CONNECT TO EXISTING
	DISCONNECT FROM EXISTING



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PROTOTYPE	COFFEE WOW
DIVISION	KANSAS CITY
VERSION	GEN 2.5 4000
DATE	08-11-2023

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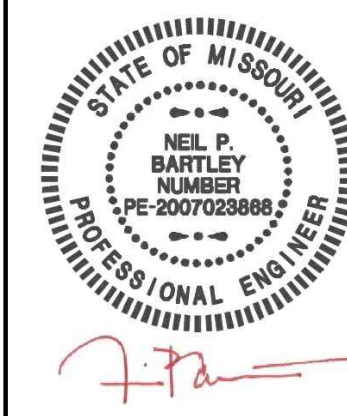
SHEET TITLE:
PLUMBING SCHEDULES & NOTES

SHEET NUMBER:
P600

3. SPECIFICATIONS: REFER TO PLUMBING SPECIFICATIONS FOR FURTHER INFORMATION AND REQUIREMENTS FOR CONTRACTOR.
4. QUICKTRIP EQUIPMENT CONTRACTOR: REFER TO OTHER PORTIONS OF DRAWINGS AND SPECIFICATIONS FOR FURTHER INFORMATION ABOUT ITEMS FURNISHED AND WORK PERFORMED BY QUICKTRIP EQUIPMENT CONTRACTOR. VERIFY ROUGH-IN AND CONNECTION REQUIREMENTS WITH OWNER REPRESENTATIVE.
5. HEALTH DEPARTMENT: COMPLY WITH LOCAL HEALTH DEPARTMENT (HD) REGULATIONS. OMIT ESCUTCHEONS IN FOOD SERVICE AREAS. SEAL PIPES NEATLY WITH GROUT AT WALL, FLOOR, OR CEILING PENETRATIONS. OMIT INSULATION ON EXPOSED PIPING BEHIND AND UNDER EQUIPMENT. PROVIDE CLEARANCE BEHIND AND UNDER EXPOSED PIPING AS REQUIRED BY HD. WHEREVER POSSIBLE, INSTALL PIPING IN FOOD SERVICE AREAS CONCEALED. CONFORM TO HD REQUIREMENTS FOR LOCATIONS OF FLOOR SINKS.
6. WORKMANSHIP SHALL BE FIRST CLASS, ACCEPTABLE TO THE OWNER.
7. MAKE COMPLETE: PROVIDE ITEMS AND WORK AS REQUIRED TO COMPLETE THE INSTALLATION OF PLUMBING SYSTEMS TO FIXTURES AND EQUIPMENT; TRAPS, STRAINERS, GAUGES, GAS AND WATER PRESSURE REGULATORS, FLEXIBLE CONNECTIONS, STOP VALVES, UNIONS, ETC. PROVIDE AND CONNECT PLUMBING PIPE FROM ROUGH-INS TO ITEMS AS SHOWN, SPECIFIED AND REQUIRED.
8. VERIFY LOCATIONS: EXISTING PIPING SHOWN ON DRAWINGS HAS BEEN LOCATED FROM INFORMATION PROVIDED BY OTHERS. VERIFY EXACT LOCATIONS ON JOB SITE.
9. BACKFLOW PREVENTION: PROVIDE BACKFLOW PREVENTERS (BFP) IN WATER LINES ONLY IF REQUIRED BY LOCAL AUTHORITIES. USE DEVICES OF TYPE (VACUUM BREAKER, DOUBLE CHECK, REDUCED PRESSURE) AND MANUFACTURER APPROVED BY LOCAL AUTHORITIES, ONLY IN LOCATIONS REQUIRED.
10. TRAP PRIMERS: PROVIDE TRAP PRIMERS ONLY IF REQUIRED BY LOCAL AUTHORITIES. USE PRECISION PLUMBING PRODUCTS OR APPROVED EQUIVALENT TRAP PRIMER VALVE, INSTALLED IN AN EXPOSED BUT UNOBJECTIONABLE LOCATION, OR ABOVE THE CEILING. PROVIDE A CONTINUOUS LENGTH OF 1/2" SOFT COPPER TUBE FROM PRIMER TO TRAP, SLOPING TO TRAP. PROVIDE ELASTOMERIC INSULATION ON PIPE INSTALLED BELOW FLOOR SLAB. USE PRECISION PLUMBING PRODUCTS DISTRIBUTION UNITS TO CONNECT MORE THAN ONE FLOOR SINK TO ONE PRIMER.
11. ALL UNDERSLAB WATER PIPING SHALL BE TYPE "K" WATER ANNEALED COPPER TUBING OR PEX WITH INSULATION PER SPEC. NO JOINTS PERMITTED UNDER SLAB.
12. ALL INTERIOR CLEANOUTS TO BE CONTRACTOR PROVIDED.
 - FINISHED FLOOR: JO-SAM #55004-1504 CAST IRON, HUB OUTLET WITH GASKET, AND SQUARE SECURED NICKEL BRONZE SCORATED COVER.
 - WALL: JO-SAM #58604-004 STAINLESS STEEL ACCESS PLATE TYPE.
13. PLUMBING CONTRACTOR TO USE A COMPLETE SYSTEM OF PVC OR ABS DWV DRAIN, WASTE, AND VENT PIPING FOR ALL WASTE, INDIRECT DRAIN, VENT AND CONDENSATE PIPING.
14. ALL PIPING & CONDUIT TRENCHES ENTERING THE BUILDING TO BE FILLED WITH CLAY OF FLOWABLE FILL.

PLUMBING EQUIPMENT LIST AND CONNECTION SCHEDULE												
TAG 1	DESCRIPTION	MANUFACTURER	MODEL	TRIM & ACCESSORIES	CONNECTIONS					FURNISHED BY	BACKFLOW (PC FURNISHED)	NOTES
					CW	HW	TW	W	V			
108	SMOOTHIE MACHINE	BUNN	ULTRA-2 PAF		1/2"FW			DRIP TRAY	QT		WILKINS #38-740 (D.C. A55E 1022)	2
109	COFFEE MACHINE	BUNN	#33500.0013		1/2"FW			DRIP TRAY	QT			
110	CAPPUCCINO MACHINE	BUNN	IMIX-3		1/2"FW			DRIP TRAY	QT		WILKINS #38-740 (D.C. A55E 1022)	2
120	BEAN TO CUP COFFEE	CURTIS	6GEN515		1/2"FW			1/2"	QT		WILKINS #38-740 (D.C. A55E 1022)	1
220	COLD WELL	THERMELL REFRIGERATION	14RCB					1"	QT			1
	CONDENSATE PUMP	ASURITY	CP-22L/P					3/8" IN TO FS		PC		1
803	HOSE BIB	WATTS	LFSC-3	CAST BRASS FAUCET, CAST IRON WHEEL HANDLE, 3/4"			3/4"			-	WILKINS #34-100XL (D.C. A55E 1024)	
NOTES: 1) PROVIDE ALL ACCESSORIES, FITTINGS, ETC., REQUIRED FOR COMPLETE INSTALLATION. 2) EXISTING BACKFLOW PROTECTION TO BE REUSED WITH RELOCATED EQUIPMENT. REFERENCE P104 FOR MORE INFORMATION.												
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A1	PLUMBING EQUIPMENT LIST AND CONNECTION SCHEDULE
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SIGNATURE DATE: 08/11/2023



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PROTOTYPE	COFFEE WOW
DIVISION	KANSAS CITY
VERSION	GEN 2.5 4000
DATE	08-11-2023

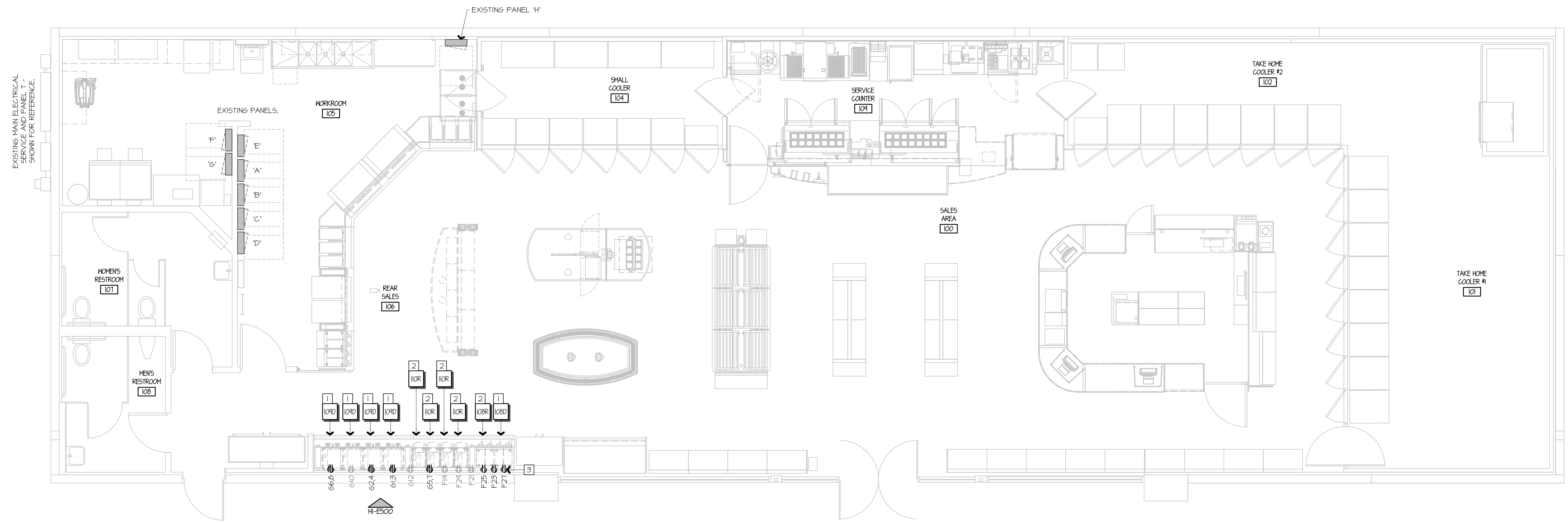
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SHEET TITLE:

ELECTRICAL POWER
FLOOR PLAN - DEMO

SHEET NUMBER

E101



- 1 REMOVE EQUIPMENT AND TURN OVER TO GT REPRESENTATIVE.
- 2 REMOVE AND RETAIN EQUIPMENT FOR RELOCATION.
- 3 REMOVE POWER BACK TO PANEL. CONTRACTOR TO VERIFY EXISTING JUNCTION BOXES AND CONDUITS SERVING EXISTING EQUIPMENT ARE CORRECTLY SIZED FOR REUSE PER ELECTRICAL EQUIPMENT SCHEDULE. RE: E600. CONTRACTOR TO PROVIDE NEW JUNCTION BOXES AND CONDUITS FOR INFRASTRUCTURE NOT BEING REUSED (TYP

BUILDING CODES:

2017 NATIONAL ELECTRIC CODE WITH LOCAL AMENDMENTS

REFER TO SHEET E600 FOR EQUIPMENT CALLOUTS



A1

ELECTRICAL POWER FLOOR PLAN - DEMO

$$\frac{1}{4}^0 = 1 - 0^0$$

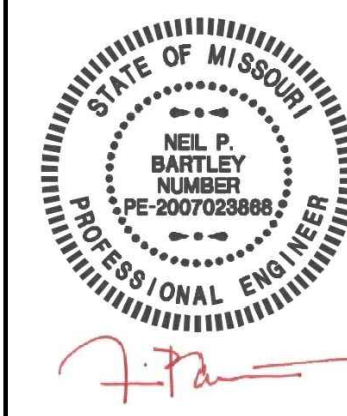
A10

BUILDING CODES

A13

PLAN NOTES

	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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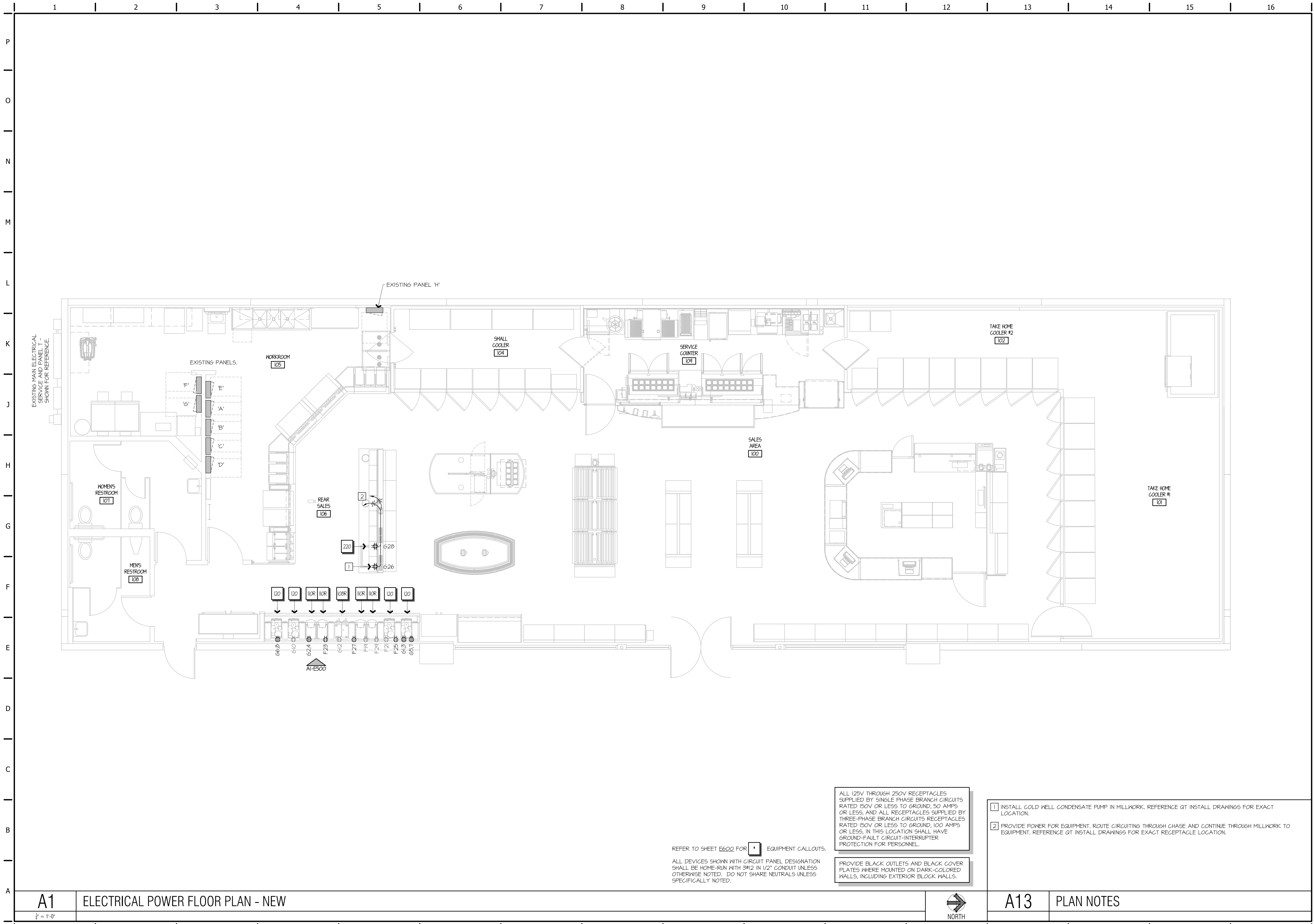
PROTOTYPE	COFFEE W/O
DIVISION	KANSAS CITY
VERSION	GEN 2.5 4000
DATE	08-11-2023

REV	DATE	DESCRIPTION

ORIGINAL ISSUE DATE: 08/11/2023

SHEET TITLE:
ELECTRICAL POWER FLOOR PLAN - NEW

SHEET NUMBER:
E102



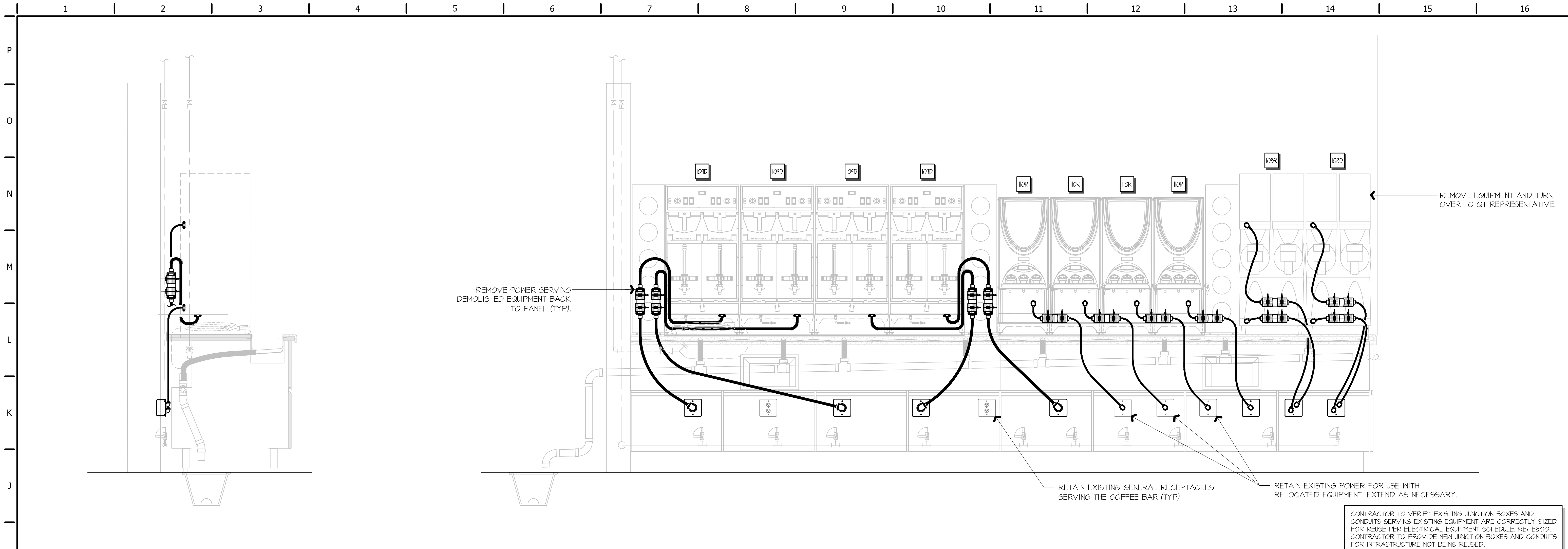
REFER TO SHEET E600 FOR EQUIPMENT CALLOUTS.

ALL DEVICES SHOWN WITH CIRCUIT PANEL DESIGNATION SHALL BE HOME-RUN WITH 3#12 IN 1/2" CONDUIT UNLESS OTHERWISE NOTED. DO NOT SHARE NEUTRALS UNLESS SPECIFICALLY NOTED.

ALL 125V THROUGH 250V RECEPTACLES SUPPLIED BY SINGLE PHASE BRANCH CIRCUITS RATED 150V OR LESS TO GROUND, 50 AMP OR LESS, AND ALL RECEPTACLES SUPPLIED BY THREE-PHASE BRANCH CIRCUITS RECEPTACLES RATED 150V OR LESS TO GROUND, 100 AMP OR LESS, IN THIS LOCATION SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL.

PROVIDE BLACK OUTLETS AND BLACK COVER PLATES WHERE MOUNTED ON DARK-COLORED WALLS, INCLUDING EXTERIOR BLOCK WALLS.

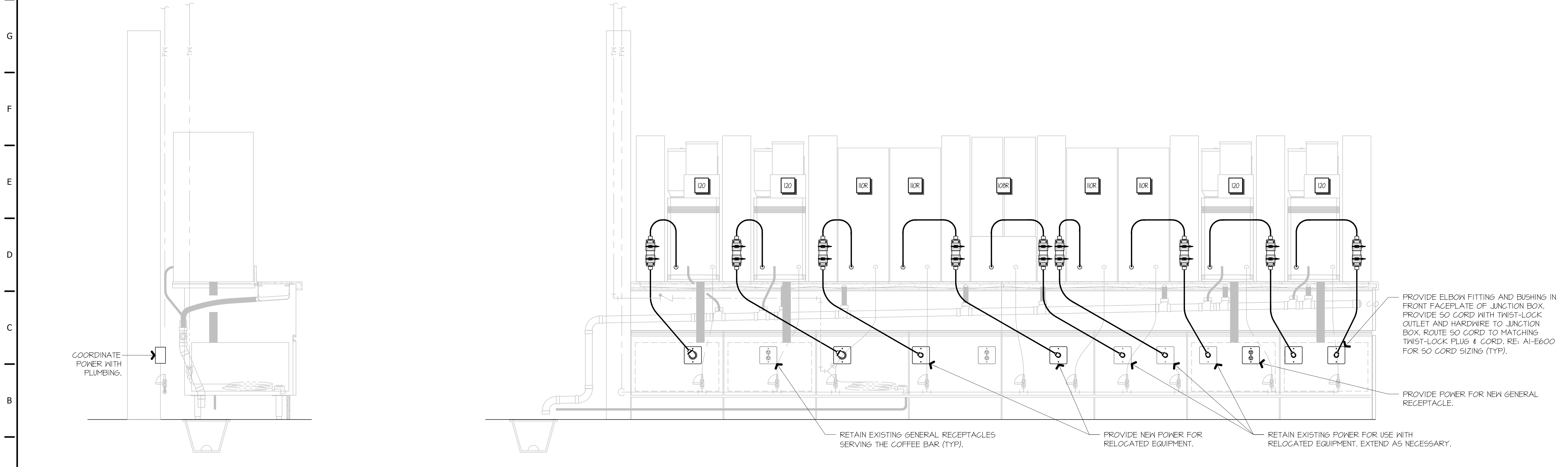
- 1 INSTALL COLD WELL CONDENSATE PUMP IN MILLWORK, REFERENCE QT INSTALL DRAWINGS FOR EXACT LOCATION.
- 2 PROVIDE POWER FOR EQUIPMENT. ROUTE CIRCUITING THROUGH CHASE AND CONTINUE THROUGH MILLWORK TO EQUIPMENT, REFERENCE QT INSTALL DRAWINGS FOR EXACT RECEPTACLE LOCATION.



H1	COFFEE BAR REAR ELEVATION & SECTION - DEMO
----	--

$$1^0 = 1^1 - 0^1$$

	A1-E101
--	---------



A1	COFFEE BAR REAR ELEVATION & SECTION - NEW
----	---

$$1^0 = 1' - 0^0$$

A1-E102



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REV	DATE	DESCRIPTION
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ORIGINAL ISSUE DATE: 08/11/2023

SHEET TITLE:

ELECTRICAL PANEL SCHEDULES

SHEET NUMBER:

F602

EXISTING PANEL: H			LOCATION: BACKROOM		CABINET MOUNTING: LUGS		REGRESSED TOP							
SYSTEM: 208/120V, 3PH, 4W			MAINS: 225A M.L.D.		NEMA ENCLOSURE:									
OPTIONS:			AIC RATINGS: 10,000											
CODE	NOTE	LOAD DESCRIPTION	BKR SIZE	BKR POLE	WATTS	GK NO.	PHASE	GK NO.	WATTS	BKR POLE	BKR SIZE	LOAD DESCRIPTION	NOTE	CODE
K		WALK-IN FREEZER	30	3	1,632	A	2	758		30		PIZZA GRS (630) (PREV. FZR)	K	
K		CONDENSER UNIT (407C)			1,632	3	B	4	160	1	20	UC FREEZER (604) (PREV. REF)		
K					1,632	5	G	6	500	1	20	DATA PRINTER (642)		
L		FSC LIGHTS & HEAT LAMP (646)	20	1	1,064	1	A	8	180	1	20	CONV. REC. (PREV. BLENDER)	K	
K		MEN BOARDS	20	1	540	4	B	10	180	1	20	CONV. REC. (PREV. BLENDER)	K	
K		HOOD EXHAUST FAN EF-2	20	1	415	11	G	12	4,680	2	50	PIZZA OVEN (621)	K	
R					415	13	A	14	4,680			(PREV. ICE CREAM)	K	
R		MONITOR	20	1	180	15	B	16	360	1	20	SECURITY BOX		
K		UC REFRIGERATOR (610)	20	1	160	11	G	18				SPACE		
K		STEAM DRAWERS (647) (PREV. ESPRESSO)	50	2	4,200	16	A	20		1	20	SPACE		
K					4,200	21	B	22		1	20	SPACE		
R		MDBMS-MONITOR	20	1	180	23	G	24	360	1	20	ROOFTOP RECEPTACLES	K	
K		MDBMS-SUB COLD PREP (630)	20	1	612	25	A	26	230	1	20	COLD MELL. CONDENSATE PUMP	12	K
R		MDBMS-MONITOR	20	1	410	21	B	28	1,070	1	20	COLD MELL. (220)	12	K
K		MDBMS-STICKY PRINTER	20	1	440	24	G	30				SPACE		
K		MDBMS-PIZZA COLD PREP (622)	20	1	1,032	31	A	32	4,680	2	50	PIZZA OVEN (621)	K	
R		MDBMS-ORDER MACHINES (601)	20	1	612	33	B	34	4,680			SPACE	K	
K		DISHWASHER (611)	60	2	4,680	35	G	36		1	20	SPACE		
K					4,680	31	A	38		1	20	SPACE		
K		BLENDER(623)	20	1	1,800	39	B	40				SPACE		
K		FREEZER HEAT TRACE	20	1	1,248	41	G	42	2,825	2	30	SUBS OVEN (632)	K	
R		PRINTER (PREV. FUTURE)	20	1	500	43	A	44	2,825			(PREV. PIZZA OVEN)		
		SPACE	20	1	45	B	46		1	20		SPACE		
		SPACE	20	1	41	G	48		1	20		SPACE		
K		ICE CREAM MACHINE (606)	30	2	1,145	51	B	52	2,825	2	30	SUBS OVEN (632)	K	
K					1,145	53	A	54	2,825			(PREV. PIZZA OVEN)		
		SPACE	20	1	55	G	56	500	1	20		EMERSON LTS. CONTROL	L	
		SPACE	20	1	51	B	58	2,150	3	30		CORBI OVEN (648)	K	
		FLOOR COOLER - 4FT (641)	20	1	936	59	G	60	2,150				K	
		FLOOR COOLER - 4FT	25	3	1,405	61	A	62	2,150				K	
K		COND. UNIT (641C)			1,405	63	B	64	2,150	3	30	CORBI OVEN (648)		
K					1,405	65	G	66	2,150					
		SURGE SUPPRESSOR	20	3	61	A	68	2,150					K	
					64	B	70	2,825	2	35		5-TIER HOT DISPLAY (217)	K	
					71	G	72	2,825					K	
					PHASE A:	34,313	WATTS	CONNECTED			NEC FEEDER LOAD			
					PHASE B:	28,604	WATTS	43732 WATTS			63291 WATTS			
					PHASE C:	31,117	WATTS	LOAD 261 AMPS			176 AMPS			
NOTES: *THIS PANELBOARD AND ALL CIRCUITS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE. EXISTING CIRCUITS ARE SHOWN FOR REFERENCE BUT HAVE NOT BEEN FIELD-VERIFIED FOR ACCURACY. CONTRACTOR SHALL FIELD-VERIFY AND ADAPT AS REQUIRED. 1. CIRCUIT AFFECTED BY REMODEL - HIGHLIGHTED FOR REFERENCE. 2. PROVIDE NEW GFCI CIRCUIT BREAKER IF NOT CURRENTLY INSTALLED.														

[illegible]

GENERAL NOTES FOR PANELBOARDS:

NEW CIRCUIT BREAKERS FOR EXISTING PANELS SHALL BE OF SAME TYPE AND MANUFACTURER AS EXISTING BREAKERS AND SHALL HAVE A.I.C. RATING EQUAL TO OR GREATER THAN EXISTING BREAKERS.

PROJECT COMPLETION NOTE:

AT COMPLETION OF PROJECT, CONTRACTOR SHALL UPDATE TYPE-WRITTEN PANEL SCHEDULES AND LEAVE ONE COPY IN A PLASTIC SLEEVE WITHIN DOOR OF PANEL, AND PRESENT ONE COPY TO GT CONSTRUCTION REPRESENTATIVE.

EXISTING PANEL:

20B/20V, 3PH, 4W

SYSTEM: EXISTING TO REMAIN

FEEDER: EXISTING TO REMAIN

OPTIONS:

G

LOCATION: CORRIDOR

MAINS: 100A MLO

AIC RATINGS:

GABINET MOUNTING: LUGS:

NEHA ENCLOSURE:

I

SURFACE

CODE NOTE

		LOAD DESCRIPTION	BKR SIZE	BKR POLE	WATTS	CK NO.	I	PHASE	CK NO.	WATTS	BKR POLE	BKR SIZE	LOAD DESCRIPTION	NOTE CODE
K	K	BEAN TO CUP COFFEE #3 (120)	20	2	1,450	1	A	1	2	1,450	2	20	BEAN TO CUP COFFEE #2 (120)	12 K
K	K				1,450	3	B	4	6	1,450	2			
K	K	BEAN TO CUP COFFEE #4 (120)	20	2	1,450	5	A	6	6	1,450	2	20	BEAN TO CUP COFFEE #1 (120)	12 K
K	K				1,450	7	B	8	8	1,450				
K	K	MDBP3-ROLLER GRILL (205)	20	1	1,730	9	A	10	10	180	1	20	COFFEE BAR GEN RCPT #1	12 R
K	K	MDBP3-ROLLER GRILL (205)	20	1	1,730	11	B	12	12	180	1	20	COFFEE BAR GEN RCPT #2	12 R
K	K	MDBP3-BUN WARMER (204)	20	1	516	8	A	14	14	1200			QUICKSHAKE	K
K	K	MDBP3-ROLLER GRILL (205)	20	1	1,730	15	B	16	16	1900	1	20	QUICKSHAKE	K
K	K	MDBP3-ROLLER GRILL (205)	20	1	1,730	17	A	18	18	840	1	20	QUICKSHAKE FRZR.	K
K	K	MDBP3-BUN WARMER (204)	20	1	516	18	A	20	20	620	1	20	FOUNTAIN MACHINE	K
K	K	MDBP3-ROLLER GRILL (205)	20	1	1,730	21	B	22	22	1471	2	20	FOUNTAIN ICE	K
K	K	MDBP3-ROLLER GRILL (205)	20	1	1,730	23	A	24	24	1471				
K	K	MDBP3-BUN WARMER (204)	20	1	516	25	A	26	26	620	1	20	FOUNTAIN	K
K	K	MDBM4-MICROWAVE (201)	20	1	1,200	27	B	28	28	1900	1	20	SMOOTHIE	K
K	K	MDBM4-MICROWAVE (201)	20	1	1,200	29	A	30	30	1900	1	20	SMOOTHIE	K
K	K	MDBM4-CHILI CHEESE (208)	20	1	460	31	A	32	32	1,200	3	20	ICE BAGGER	K
K	K	MDBM4-FLR COOLER - BFT (202)	20	1	1800	33	B	34	34	1,200			UNIT	K
K	K	MDBM4-COLD BAR (213)	20	1	1,200	35	A	36	36	1,200				
K	K	MDBM4-SFARE	20	1	O	91	A	38			3	20	SURGE SUPPRESSOR	K
K	K	MDBM4-SFARE	20	1	O	91	B	40						
K	K	WASTE PUMP & FAUCET	20	1	540	41	G	42						

PHASE A: 12548 WATTS
PHASE B: 17541 WATTS
PHASE G: 16521 WATTS

CONNECTED
46622 WATTS
LOAD:
130 AMPS

NEG FEEDER LOAD
28545 WATTS
14 AMPS

NOTES:

*THIS PANELBOARD AND ALL CIRCUITS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

EXISTING CIRCUITS ARE SHOWN FOR REFERENCE BUT HAVE NOT BEEN FIELD-VERIFIED FOR ACCURACY.

CONTRACTOR SHALL FIELD-VERIFY AND ADAPT AS REQUIRED.

1. CIRCUIT ATTACHED BY REMOVED - HIGHLIGHTED FOR REFERENCE.

2. PROVIDE NEW GFCI CIRCUIT BREAKER IF NOT CURRENTLY INSTALLED.

ELECTRICAL LOAD SUMMARY			
DESCRIPTION	CONNECTED TOTAL	NEC DEMAND FACTORS	NEC FEEDER LOAD
CURRENT PEAK DEMAND LOAD ON QT SERVICE			
EXISTING DEMAND (WATTS):			24710 WATTS
EXISTING DEMAND (AMPS):			604 AMPS
DEMOLISHED LOADS:			
KITCHEN EQUIPMENT	-32500 WATTS	0.65	-21125 WATTS
LIGHTING/SIGNAGE	0 WATTS	1.25	0 WATTS
RECEPTACLES	0 WATTS	1.00	0 WATTS
TOTAL DEMOLISHED LOAD (WATTS):	-32500 WATTS		-21125 WATTS
TOTAL DEMOLISHED LOAD (AMPS):	-80 AMPS		-54 AMPS
NEW LOADS:			
KITCHEN EQUIPMENT	21400 WATTS	0.65	14235 WATTS
LIGHTING/SIGNAGE	0 WATTS	1.25	0 WATTS
MISCELLANEOUS	0 WATTS	1.00	0 WATTS
RECEPTACLES	540 WATTS	1.00	540 WATTS
MOTORS (CONT.)	0 WATTS	1.25	0 WATTS
COOLING	0 WATTS	0.00	0 WATTS
ELECTRIC HEAT	0 WATTS	1.25	0 WATTS
GREATER OF THE TWO			
TOTAL NEW LOAD (WATTS):	22440 WATTS		14775 WATTS
TOTAL NEW LOAD (AMPS):	62 AMPS		41 AMPS
GRAND TOTAL LOAD:			24560 WATTS 611 AMPS



PROTOTYPE	COFFEE WOW
DIVISION	KANSAS CITY
VERSION	GEN 2.5 4000
DATE	08-11-2023

REV	DATE	DESCRIPTION
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ORIGINAL ISSUE DATE: 08/11/2023

SHEET TITLE:

ELECTRICAL PANEL SCHEDULES

SHEET NUMBER:

F602