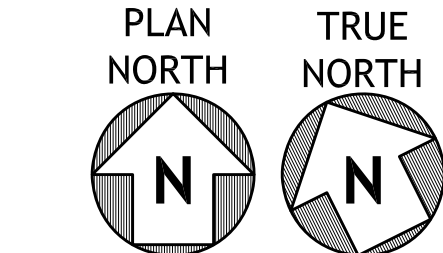
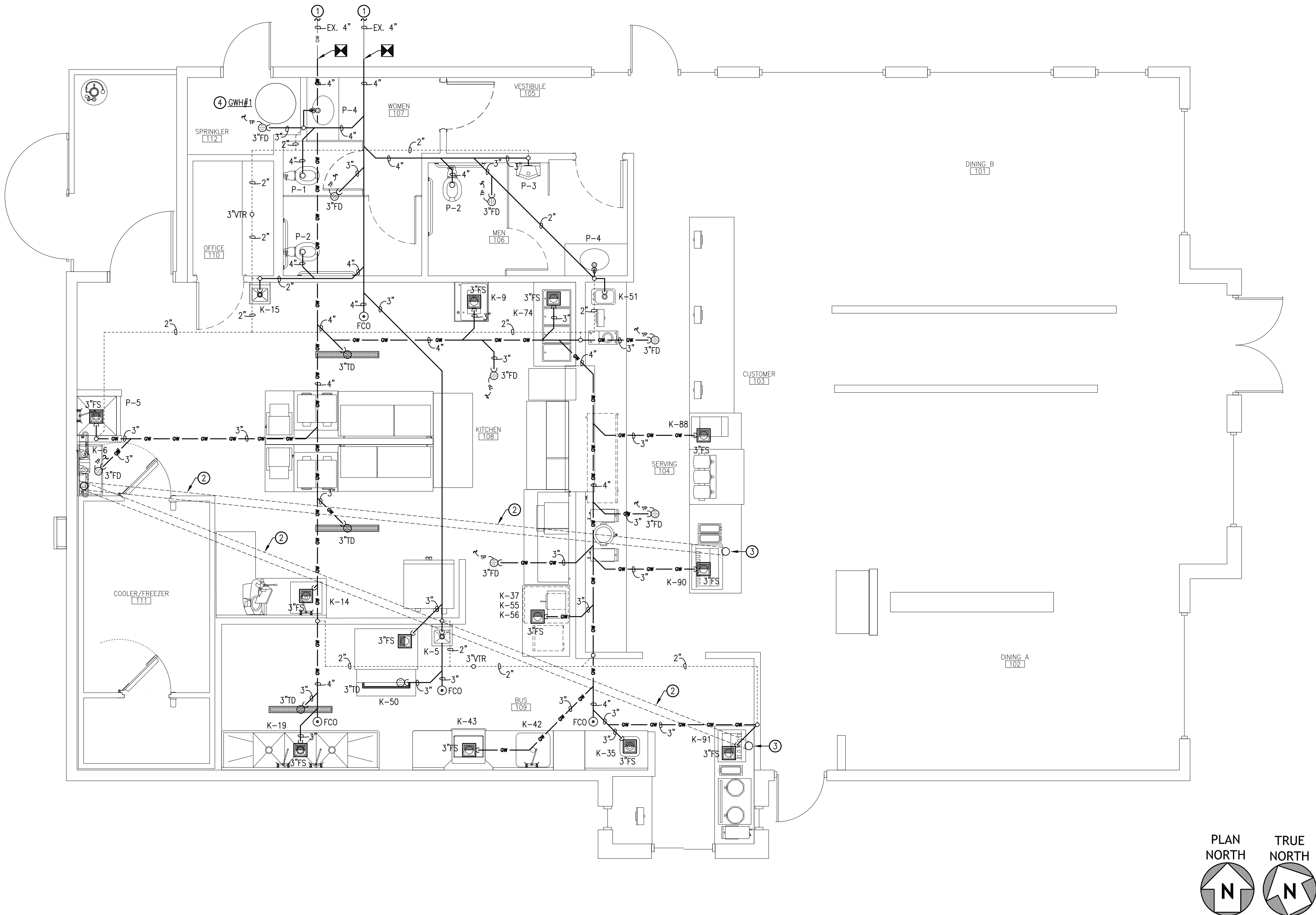


PLUMBING GENERAL NOTES

1. THIS CONTRACTOR SHALL EXECUTE ALL WORK SO THAT IT PROCEEDS WITH A MINIMUM OF INTERFERENCE WITH OTHER TRADES AND NORMAL FUNCTIONING OF EXISTING FACILITIES AND SERVICES.
2. VERIFY EXACT ROUGH-IN AND FINAL EQUIPMENT REQUIREMENTS IN FIELD.
3. THE CONTRACTOR SHALL VERIFY THAT ALL PIPING, AS SHOWN ON THESE DRAWINGS WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLES, JOINTS, VENTS, EQUIPMENT, ETC.
4. COORDINATE ROUTING AND LOCATIONS OF WASTE AND VENT PIPING WITH ALL OTHER TRADES.
5. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES, ALL REQUIRED OPENINGS AND EXCAVATIONS. ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS, AND ROOFS SHALL BE DESIGNED INTO THE STRUCTURE INITIALLY BY THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
6. ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED A MINIMUM OF 12" ABOVE THE ROOF. ALL VENTS SHALL BE A MINIMUM OF 10' FROM ANY OUTSIDE AIR INTAKE.
7. ALL FLOOR DRAINS ARE TO HAVE 4" DEEP SEAL TRAPS.
8. PROVIDE STOPS AND SHOCK ABSORBERS AT EACH FIXTURE OR GROUP OF FIXTURES.
9. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDENSATE DRAIN PIPING AND FITTINGS. INSULATE ALL CONDENSATE DRAIN PIPING AND FITTINGS WITH 1/2" "ARMAFLEX" PIPE INSULATION.
10. PROVIDE VACUUM BREAKERS AT FIXTURES WITH HOSE THREAD CONNECTIONS AND APPLIANCES WITH DIRECT CONNECTIONS TO DOMESTIC WATER.
11. PROVIDE DI-ELECTRIC UNIONS AT ALL DISSIMILAR METAL PIPE CONNECTIONS.
12. ALL WATER LINES INSTALLED IN EXTERIOR WALLS SHALL BE INSTALLED INSIDE OF WALL INSULATION AND INSULATED INDIVIDUALLY TO PROTECT FROM FREEZING. PIPING AND FITTINGS. INSULATE ALL CONDENSATE DRAIN PIPING AND FITTINGS WITH 1/2" "ARMAFLEX" PIPE INSULATION.
13. ALL PLUMBING FIXTURES SHALL BE WHITE.
14. INSTALL TRAP PRIMERS FOR ALL FLOOR DRAINS AND FLOOR SINKS.
15. PLUMBER RESPONSIBLE FOR FINAL CONNECTION TO ALL KITCHEN EQUIPMENT REGARDING WATER, WASTE AND GAS.
16. PROVIDE APPROVED BACKFLOW PREVENTION AT ALL EQUIPMENT DIRECTLY CONNECTED TO WATER SYSTEM.
17. PROVIDE FLEXIBLE CONNECTIONS WITH QUICK CONNECT COUPLINGS AT ALL GAS FIRED EQUIPMENT CONNECTIONS.
18. PROVIDE CLEANOUTS EVERY 80' OR AT EACH CHANGE IN DIRECTION MORE THAN 45' AS REQUIRED BY CODE.
19. PROVIDE A PRESSURE REDUCING VALVE IF THE INCOMING PRESSURE EXCEEDS 80 PSI. IF A PRV IS UTILIZED THEN IT SHOULD BE SET TO 80 PSI. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO DETERMINE IF IT IS REQUIRED.
20. ALL PLUMBING WORK PERFORMED SHALL COMPLY WITH THE LOCAL APPLICABLE CODES.
21. G.C. IS RESPONSIBLE FOR CALLING COKE AND SCHEDULING THEIR INSTALLATION OF LINES.  
1-800-531-2338 EXT.# 3633 BERNITA.



SANITARY WASTE PLAN  
1/4"=1'-0"

1

SITE NOTES

IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO FIELD VERIFY ALL SITE CONDITIONS PRIOR TO STARTING ANY PHASE OF CONSTRUCTION. ANY CHANGES OR COST NOT SHOWN ON THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT, ENGINEER PRIOR TO BID. ANY CHANGE ORDERS BROUGHT UP AFTER THE ACCEPTED BID THAT DIRECTLY RELATES TO FAILURE OF A SITE VISIT SHALL BE SOLELY THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR. THE OWNER WILL NOT PAY FOR CHANGE ORDERS DUE TO THE CONTRACTORS FAILURE TO PERFORM A THOROUGH SITE VISIT. COORDINATE WITH ALL TRADES, FIELD VERIFY ALL EXISTING CONDITIONS.

ALL EXISTING UTILITY LOCATIONS SHOWN ON THIS PLAN ARE ASSUMED TO BE CORRECT (IF APPLICABLE). IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO PROPERLY VERIFY ALL UNDER GROUND AND ABOVE GROUND UTILITIES PRIOR TO BID AND CONSTRUCTION.

COORDINATE DEMOLITION (IF APPLICABLE) AND NEW CONSTRUCTION WITH ALL TRADES THROUGHOUT THE ENTIRE LENGTH OF THIS PROJECT. ANY QUESTIONS ABOUT EXISTING SITE CONDITIONS CAN BE OBTAINED FROM THE ARCHITECT.

KEEP ALL CUTTING AND PATCHING TO A MINIMUM.

IT IS RECOMMENDED THAT THE SUBCONTRACTOR ARRANGE A PRE-JOB CONFERENCE WITH THE CONSTRUCTION SUPERVISOR REVIEW AND CLARIFICATION PRIOR TO STARTING ANY WORK.

GENERAL NOTES

THESE PLANS (ALL PLUMBING SHEETS) ARE SCHEMATIC IN NATURE AND ARE INTENDED TO ESTABLISH SIZE, GENERAL ROUTING, LOCATION, PERFORMANCE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. ALL WORK SHALL BE FULLY COORDINATED WITH OTHER TRADES TO INSURE THE INSTALLATION OF A COMPLETE OPERABLE SYSTEM THAT FITS IN THE SPACE ALLOTTED. PROVIDE ALL LABOR, EQUIPMENT, APPURTENANCES AND MATERIALS NECESSARY, AND PERFORM ALL OPERATIONS REQUIRED FOR THE INSTALLATION OF COMPLETE, FUNCTIONAL PLUMBING SYSTEMS AS OUTLINED ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS.

THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO ANY BID SUBMISSION TO FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS. THE CONTRACTOR SHALL MAKE ADJUSTMENTS IN ROUTING AND LOCATION, IF NECESSARY, IN SIZE, IN ORDER TO ACHIEVE THE SPECIFIED PERFORMANCE WITHOUT INCURRING ADDITIONS TO THE CONTRACT. WHERE EXISTING CONDITIONS DIFFER SIGNIFICANTLY ENOUGH TO AFFECT PRICING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO BID SUBMISSION FOR A RESOLUTION. NO ALLOWANCE WILL BE MADE FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS.

SANITARY WASTE KEYNOTES

1. THIS CONTRACTOR TO TIE NEW WASTE LINES INTO EXISTING WASTE LINE (SEE CIVIL UTILITY PLAN FOR LOCATION). IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION, DEPTH, FLOW DIRECTION, ALL NEW/EXISTING INVERTS AND CONDITION OF EXISTING LINES (IF APPLICABLE) PRIOR TO BID. THIS CONTRACTOR TO ASSURE THE EXISTING WASTE LINES ARE IN GOOD WORKING CONDITION (MEETS ALL APPLICABLE LOCAL CODES) AND FULLY FUNCTIONAL WITH CORRECT FALL/FLOW AND NO OBSTRUCTIONS (IF APPLICABLE). A SITE VISIT SHALL BE PERFORMED PRIOR TO BID. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO MAKE ANY NECESSARY DESIGN CHANGES, IF ANY, THESE APPLICABLE CHANGES SHALL BE INCLUDED IN THE ORIGINAL BID PRICE. ANY CHANGE ORDERS BROUGHT UP AFTER THE ACCEPTED BID THAT DIRECTLY RELATES TO FAILURE OF A SITE VISIT SHALL BE SOLELY THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR. THE OWNER WILL NOT PAY FOR CHANGE ORDERS DUE TO THE CONTRACTORS FAILURE TO PERFORM A THOROUGH SITE VISIT. COORDINATE WITH ALL TRADES, FIELD VERIFY ALL EXISTING CONDITIONS.
2. ROUTE THIS SECTION 6" SODA CHASE LINES BELOW SLAB AND ALSO BELOW THE PLUMBING WASTE. SYSTEM AS REQUIRED. 6" CONDUIT TO BE ELECTRICAL PVC (LONG SWEEP) AND MUST HAVE A SMOOTH INTERIOR WITH A MINIMUM INSIDE DIAMETER OF 6". CONDUIT TO HAVE LEAK TIGHT JOINTS AND MUST HAVE ONLY ONE (1) 24" RADIUS SWEEP BEND AT EACH END. FIELD VERIFY AND COORDINATE WITH ALL TRADES PRIOR TO INSTALLATION. ALSO COORDINATE WITH THE ACTUAL SODA EQUIP. PROVIDER PRIOR TO INSTALLATION.
3. EXPOSED ENDS OF CONDUIT TO BE STUBBED UP A MINIMUM OF 4" ABOVE FINISHED FLOOR, CAPPED AND SEALED AT BOTH ENDS DURING CONSTRUCTION. AFTER DRINK LINES ARE INSTALLED, OPEN ENDS ARE TO BE FILLED AND SEALED WATER TIGHT, APPROXIMATELY 2" TO 4" AT EACH END.
4. ROUTE WATER HEATER DRAIN PAN, T&P RELIEF AND CONDENSATE TO ADJACENT FLOOR DRAIN.

SOILS, WASTE AND VENT SYSTEMS MATERIAL NOTES

BELOW GRADE / FLOOR SANITARY SOIL AND WASTE SYSTEM SHALL BE PVC PIPE CONFORMING TO ASTM D 2665/1785, SCHEDULE 40 WITH PVC SOCKET FITTINGS. SCHEDULE 40 WITH PVC, ASTM F-891, CELLULAR CORE WILL NOT BE ALLOWED.

VENT PIPING SHALL BE PVC DWV PIPE AND FITTINGS CONFORMING TO ASTM D 2665/1785. SCHEDULE 40 WITH PVC, ASTM F-891, CELLULAR CORE MAY BE UTILIZED FOR VENT ONLY.

ALL WORK TO COMPLY WITH 2018 INTERNATIONAL PLUMBING CODE.

McAlister's  
• DELI •



McAlister's Deli | Kershaw County  
McAlister's Deli  
Camden, South Carolina 29020

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PROJECT 0932.1120

CONSTRUCTION DOCUMENTS

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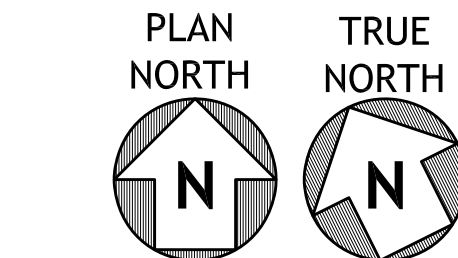
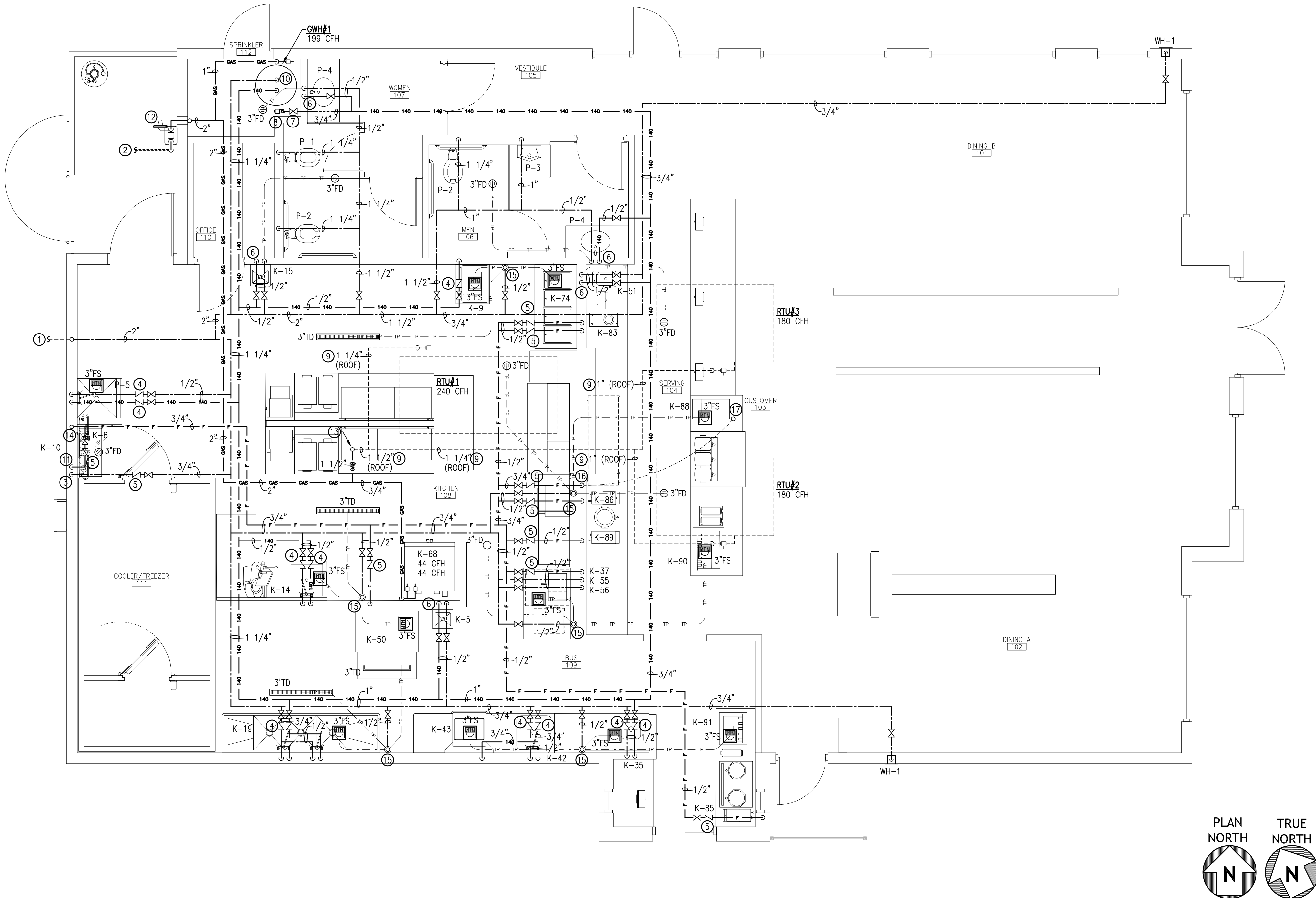
SHEET: SANITARY WASTE PLAN

P1.1



## DOMESTIC WATER AND GAS KEYNOTES

- 1 PROVIDE A NEW 2" POTABLE WATER LINE CONNECTED TO EXISTING AS SHOWN TO SERVE McALISTER'S DELI. CONNECT TO EXISTING POTABLE WATER SERVICE OR EXISTING (IF APPLICABLE). 2" POTABLE WATER APPROXIMATELY IN THIS LOCATION (SITE ADAPT ENGINEER TO VERIFY AND MODIFY ACCORDINGLY). PROVIDE A 2" DOUBLE CHECK BACKFLOW DEVICE AS DICTATED BY THE LOCAL GOVERNING CODES. THE POTABLE WATER DELIVERY PIPING SYSTEM SHALL BE OPERABLE BY THIS CONTRACTOR. COORDINATE/SCHEDULE WITH THE LOCAL UTILITY PROVIDER. FIELD VERIFY ALL CONDITIONS. COORDINATE CLOSELY WITH THE LOCAL WATER PROVIDER PRIOR TO STARTING ANY PHASE OF WORK. ALL METER AND FEES SHALL BE INCLUDED IN THE BID (IF APPLICABLE).
- 2 CONTRACTOR TO COORDINATE WITH LOCAL GAS PROVIDER TO SCHEDULE AND COORDINATE NEW GAS METER/SERVICE FOR THE NEW REQUIRED LOAD. THIS CONTRACTOR SHALL ALSO PROVIDE ANY NECESSARY REGULATORS AND MAKE ALL FINAL CONNECTIONS TO THE NEW GAS METER. THE ENTIRE SYSTEM SHALL BE OPERABLE BY THIS CONTRACTOR. ALL EXPOSED GAS PIPE LOCATED ON EXTERIOR WALLS TO BE PAINTED TO MATCH THE EXTERIOR BUILDING COLOR. ALL OTHER GAS PIPING SHALL BE PAINTED YELLOW AND PROVIDE LABELS, "GAS." FIELD VERIFY EXACT LOCATION AND COORDINATE WITH OWNER/ALL TRADES PRIOR TO INSTALLATION. THIS CONTRACTOR SHALL PAY ALL APPLICABLE FEES.
- 3 TIE 3/4" CW INTO FILTRATION SYSTEM. COORDINATE WITH OWNER (84" AFF).
- 4 CHECK VALVE.
- 5 WATTS SERIES SD-2. DUAL CHECK FOR POST MIX CARBONATED BEVERAGE EQUIPMENT AND DISPENSING EQUIPMENT FOR SODA, TEA AND COFFEE. CONTINUOUS AND INTERMITTENT PRESSURE CONDITIONS. DESIGNED FOR PROTECTION OF THE WATER SUPPLY FROM CARBON DIOXIDE AND CARBONATED WATER.
- 6 PROVIDE A ASSE 1070 TEMPERING VALVE SET @ 110°F, MOUNT UNDER SINK AS HIGH AS POSSIBLE, ATTEMPT TO CONCEAL.
- 7 HOT WATER RETURN BALANCING VALVE.
- 8 HOT WATER RECIRCULATING PUMP, 10' HEAD, 5 GPM, 120V. SUBMIT FOR APPROVAL.
- 9 THIS PORTION GAS PIPING ROUTED ON ROOF. SUPPORT NEW ROOF MOUNTED GAS PIPING ON TREATED WOOD BLOCKING, ON APPROVED ROOF PADS (MAX. 10' O.C. AND AT ANY FITTINGS), SUPPORT SHALL MATCH EXISTING.
- 10 1 1/4" COLD WATER, 1 1/4" 140° HW, AND 1" GAS TO GAS FIRED WATER HEATER.
- 11 3/4" FILTERED COLD WATER TO SODA RACK, MAKE ALL FINAL CONNECTIONS
- 12 NEW POUNDS TO INCHES PRESSURE REGULATOR. GAS PIPING SERVING EQUIPMENT ON THE ROOF AND INSIDE THE BUILDING TO BE 0.5 PSI OR LESS AND A PRESSURE DROP OF 0.3" OF WATER COLUMN. GAS PIPING SIZED @ 1086 CFH.
- 13 1 1/2" GAS PIPE UP THROUGH ROOF TO SERVE ROOFTOP MECHANICAL EQUIPMENT. COORDINATE ROUTING WITH ALL TRADES PRIOR TO INSTALLATION.
- 14 3/4" FILTERED COLD WATER UP INSIDE WALL TO ABOVE CEILING.
- 15 SELF-CONTAINED TRAP PRIMER ABOVE CEILING. ROUTE 1/2" COLD WATER TO TRAP PRIMER, THEN DOWN INSIDE WALL TO DRAIN BELOW SLAB.
- 16 3/4" COLD WATER DOWN INSIDE WALL TO BELOW GRADE. ROUTE COLD WATER BELOW FLOOR AND OVER FOR CONNECTION TO ICE DISPENSER.
- 17 3/4" COLD WATER UP FROM BELOW GRADE TO BELOW COUNTERTOP AND CONNECT TO ICE DISPENSER.



DOMESTIC WATER PLAN  
1/4\"=1'-0\"

1

## POTABLE WATER SUPPLY PIPING NOTES

COPPER TUBING SHALL BE USED FOR ALL POTABLE WATER SUPPLY PIPING. TYPE "L" TUBE SHALL BE USED ABOVE SLAB AND TYPE "K" TUBE SHALL BE USED BELOW SLAB ON GRADE. SWEAT FITTINGS SHALL BE EITHER CAST BRASS OR WROUGHT COPPER. SOLDER JOINTS SHALL BE CLEANED WITH STEEL WOOL OR EMERY CLOTH BEFORE APPLYING SOLDERING PASTE (FLUX) USING SOLDER FOR DOMESTIC WATER TUBING.

ALL WATER PIPING AS FOLLOWS SHALL BE COVERED WITH 1-INCH THICK HEAVY DENSITY FIBERGLASS SECTIONAL PIPE INSULATION EQUAL TO OWENS-CORNING FIBERGLASS 25 ASJ/SSL:

1. DOMESTIC COLD WATER
2. DOMESTIC HOT WATER (INCLUDING HOT WATER RETURN PIPING)

FITTINGS FOR THE ABOVE SHALL BE INSULATED WITH PREMOLDED FITTING INSULATION OF THE SAME MATERIAL AND THICKNESS AS THE ADJACENT INSULATION AND SHALL BE COVERED WITH A PREMOLDED PLASTIC (PVC) VAPOR BARRIER AND SEALED WITH VAPOR BARRIER LAGGING ADHESIVE. ADHERE 3-INCH WIDE BUTT JOINT STRIPS OVER ALL END JOINTS WITH VAPOR BARRIER ADHESIVE. COVERING ADJACENT TO UNIONS AND OTHER POINTS OF TERMINATION SHALL BE FINISHED WITH THE PLASTIC MATERIAL NEATLY BEVELED. INSULATE FITTINGS ON ARMAFLEX INSULATION WITH FLEXIBLE FOAM SPLIT AND JOINTS SEALED WITH APPROVED MASTIC. NO ADDITIONAL FINISH IS REQUIRED ON ARMAFLEX INSULATION INSIDE THE BUILDING WALLS.

ALL WORK TO COMPLY WITH 2018 INTERNATIONAL PLUMBING CODE.

## CONTRACTOR NOTES

THESE PLANS (ALL PLUMBING SHEETS) ARE SCHEMATIC IN NATURE AND ARE INTENDED TO ESTABLISH SIZE, GENERAL ROUTING, LOCATION, PERFORMANCE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. ALL WORK SHALL BE FULLY COORDINATED WITH OTHER TRADES TO INSURE THE INSTALLATION OF A COMPLETE OPERABLE SYSTEM THAT FITS IN THE SPACE ALLOTTED. PROVIDE ALL LABOR, EQUIPMENT, APPURTENANCES AND MATERIALS NECESSARY, AND PERFORM ALL OPERATIONS REQUIRED FOR THE INSTALLATION OF COMPLETE, FUNCTIONAL PLUMBING SYSTEMS AS OUTLINED ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS.

THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO ANY BID SUBMISSION TO FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS. THE CONTRACTOR SHALL MAKE ADJUSTMENTS IN ROUTING AND LOCATION, IF NECESSARY, IN SIZE, IN ORDER TO ACHIEVE THE SPECIFIED PERFORMANCE WITHOUT INCURRING ADDITIONS TO THE CONTRACT. WHERE EXISTING CONDITIONS DIFFER SIGNIFICANTLY ENOUGH TO AFFECT PRICING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO BID SUBMISSION FOR A RESOLUTION. NO ALLOWANCE WILL BE MADE FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS.

ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, AND LOCAL CODES.

DEFINITIONS: "FURNISH" SHALL MEAN TO PURCHASE AND LOCATE AN ITEM ON THE JOBSITE. "INSTALL" SHALL MEAN TO PHYSICALLY INSTALL AN ITEM, AND TO CONNECT ALL REQUIRED SERVICES TO MAKE THAT ITEM FULLY FUNCTIONAL. "PROVIDE" SHALL MEAN TO BOTH FURNISH AND INSTALL AN ITEM.

VERIFY ALL POINTS OF CONNECTION WITH OTHER DISCIPLINES (LOCATION AND INVERT) PRIOR TO INSTALLATION. THIS SHALL INCLUDE EXISTING SITE UTILITIES AS WELL AS NEW SITE UTILITIES INSTALLED UNDER THE SCOPE OF WORK FOR THIS PROJECT.

COORDINATE WITH OTHER TRADES TO PREVENT INTERFERENCE WITH HVAC DUCTS, ELECTRICAL LIGHTING, AND STRUCTURE IN THE CEILING PLENUMS.

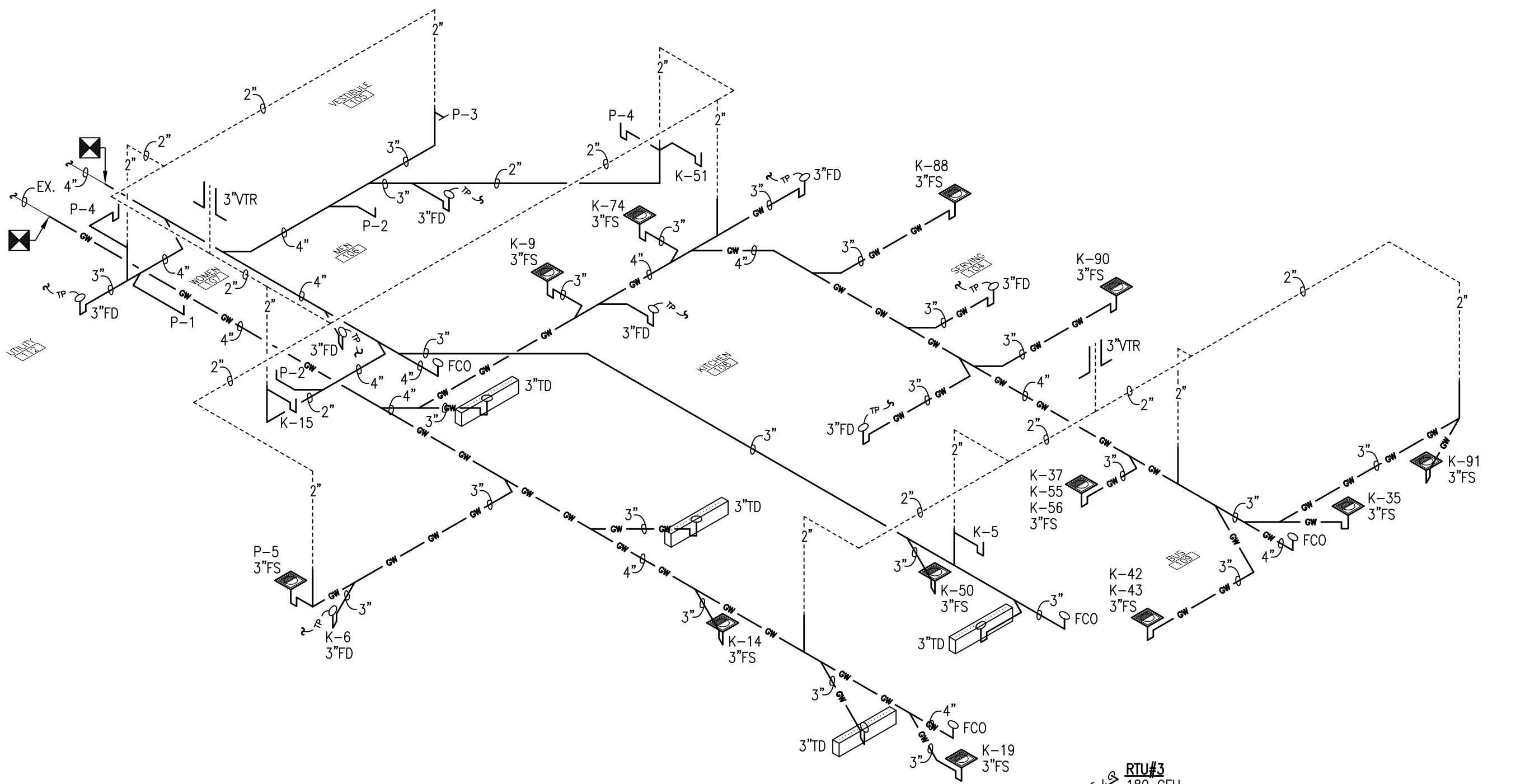
## DOMESTIC WATER AND GAS GENERAL NOTES

1. ALL PLUMBING WORK PERFORMED SHALL COMPLY WITH THE LOCAL APPLICABLE CODES.
2. ALL EXPOSED GAS PIPING SHALL BE PAINTED WITH A YELLOW EPOXY PAINT. ALSO, PROVIDE LABELS "GAS" AND "OPERATING PRESSURE". TYPICAL ENTIRE JOB, ALL AREAS, INSIDE AND EXTERIOR.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTIONS TO GAS FIRED EQUIPMENT AND SPECIFIED FIXTURES. ALL GAS FIRED EQUIPMENT AND FIXTURES SHALL BE OPERABLE AND SHALL HAVE A FULL SIZE 6" DRIP LEG.
4. HOT WATER RECIRCULATING PUMP SHALL BE PROVIDED WITH CONTROLS (TIME CLOCK AND AQUA STAT) TO TURN SYSTEM OFF WHEN THE BUILDING IS SUBJECT TO DOWN TIME. COORDINATE WITH OWNER.
5. WATER HEATER AND EXPANSION TANK SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
6. ALL DOMESTIC WATER SUPPLY PIPING SHALL BE INSULATED PER PLUMBING SPECIFICATIONS.
7. DI-ELECTRIC UNIONS SHALL BE PROVIDED AT ALL DISSIMILAR METAL CONNECTIONS.

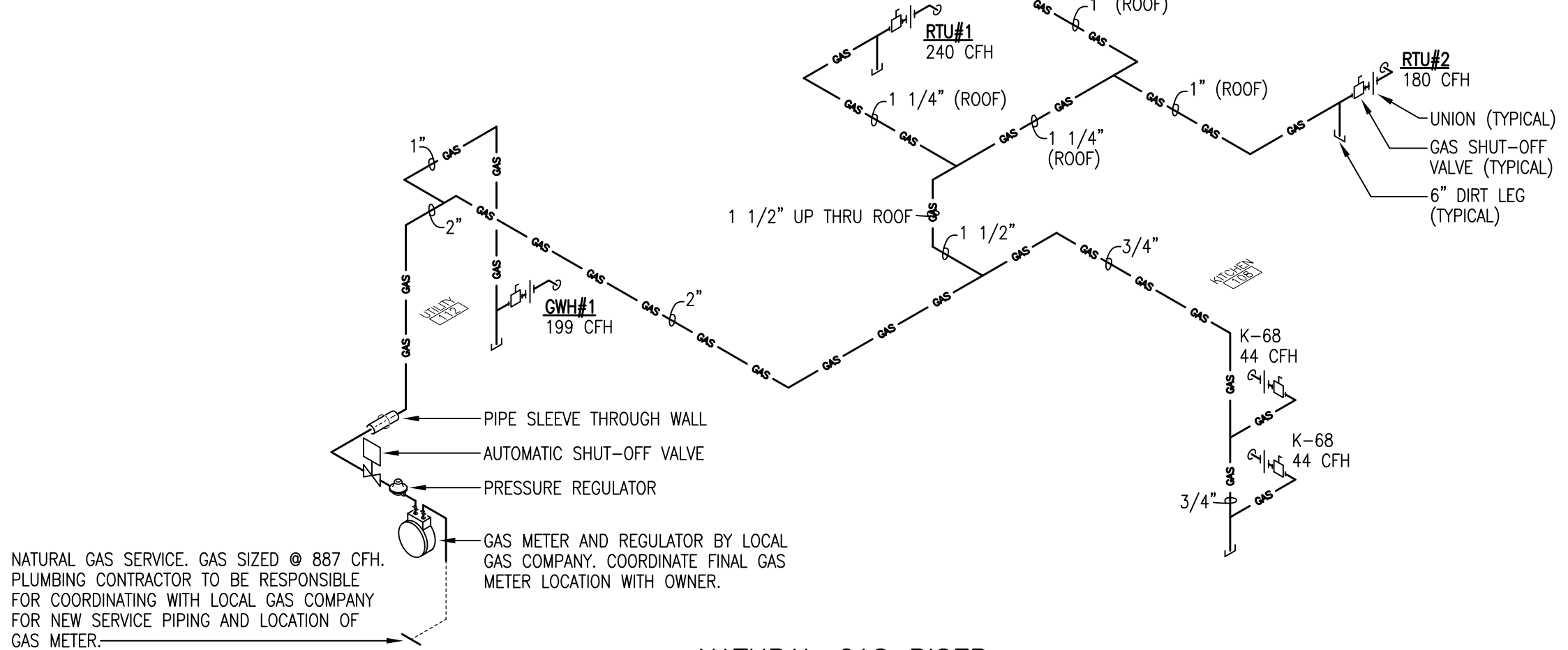
## EQUIPMENT ROUGH-IN NOTES

THE EQUIPMENT ROUGH-INS AS SHOWN ARE ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, IN SOME INSTANCES, THE OWNER OR SUPPLIER MAY SUBSTITUTE OR THE EQUIPMENT ITEM MAY VARY FROM WHAT IS SHOWN. THEREFORE, THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS WITH THE OWNER PRIOR TO CONSTRUCTION. FAILURE OF THE CONTRACTOR TO VERIFY THESE ROUGH IN DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATION DIRECTLY ON THE CONTRACTOR. THE PLUMBING CONTRACTOR SHALL BE PROVIDED WITH ALL FOOD SERVICE DRAWINGS ("K" OR "F"-SHEETS). FAILURE TO PROVIDE THE PLUMBING CONTRACTOR WITH THE CORRECT FOOD SERVICE DRAWINGS PLACES ALL RESPONSIBILITY DIRECTLY ON THE GENERAL CONTRACTOR. NO CHANGE ORDERS WILL BE ACCEPTED THAT RELATE TO THE LACK OF KNOWLEDGE CONTAINED IN THE KITCHEN EQUIPMENT DRAWINGS. (IE: MOUNTING HEIGHTS, FILTER LOCATIONS, GREASE DRAIN LINES, ETC.)

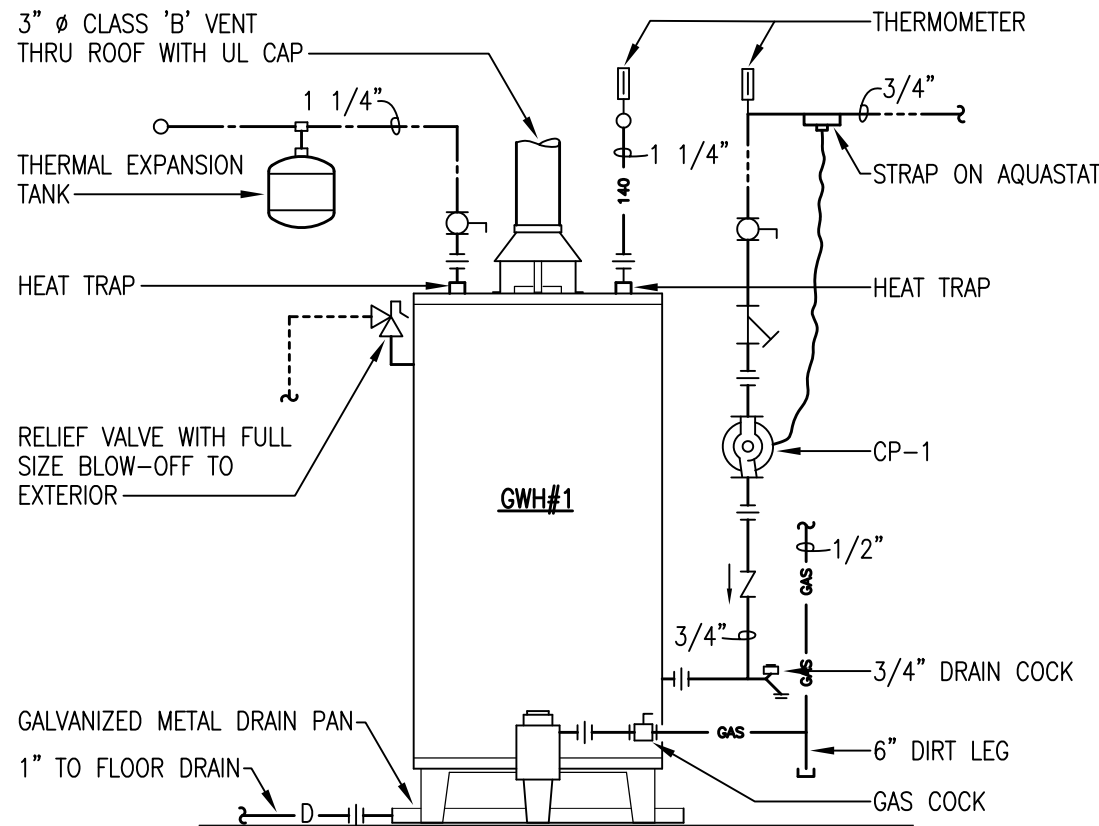




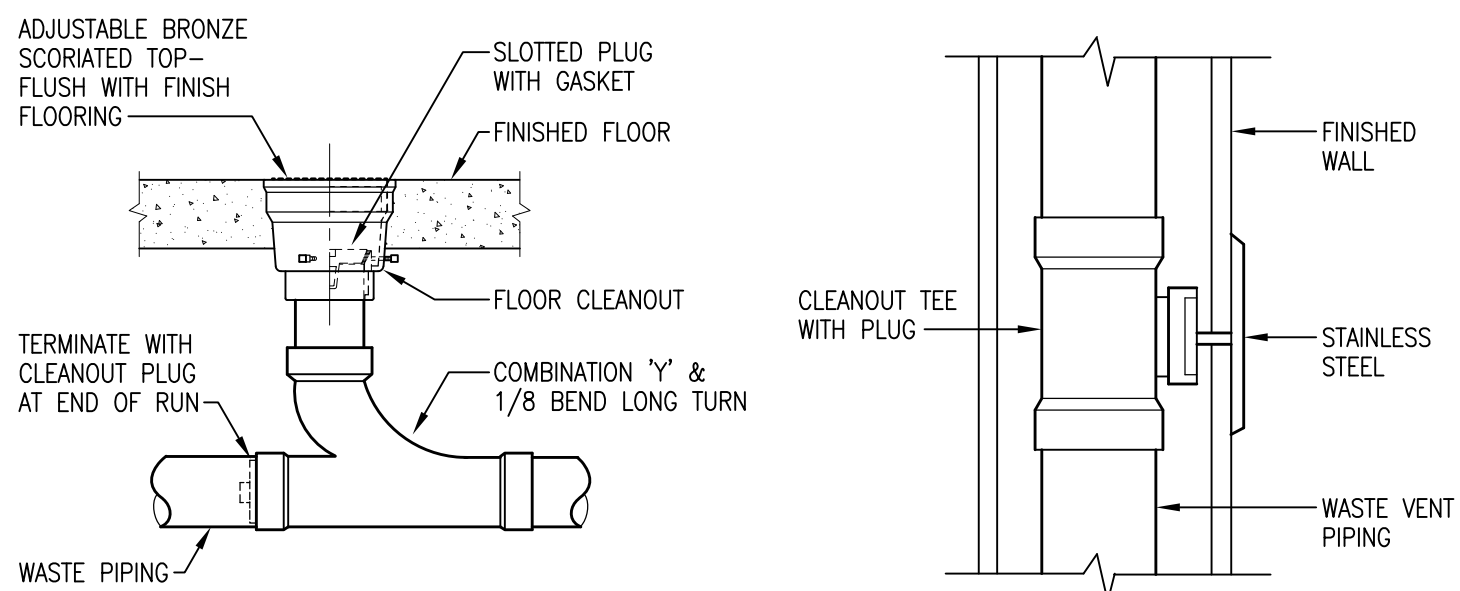
SANITARY WASTE RISER  
NOT TO SCALE



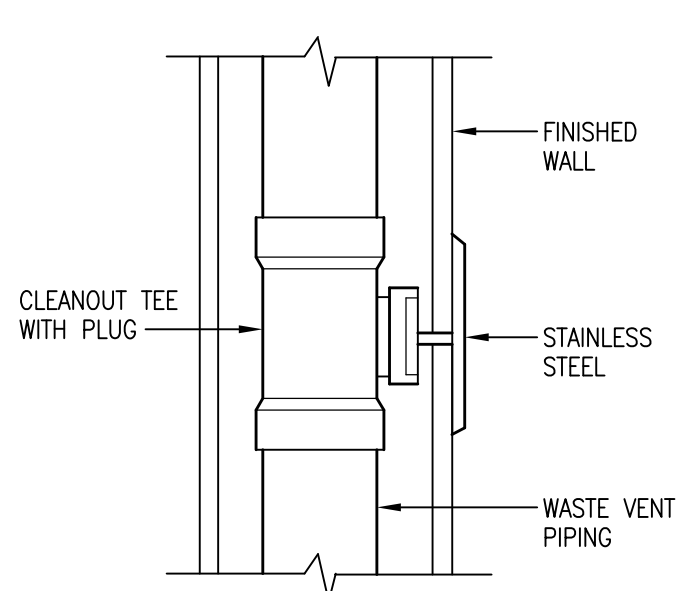
NATURAL GAS RISER  
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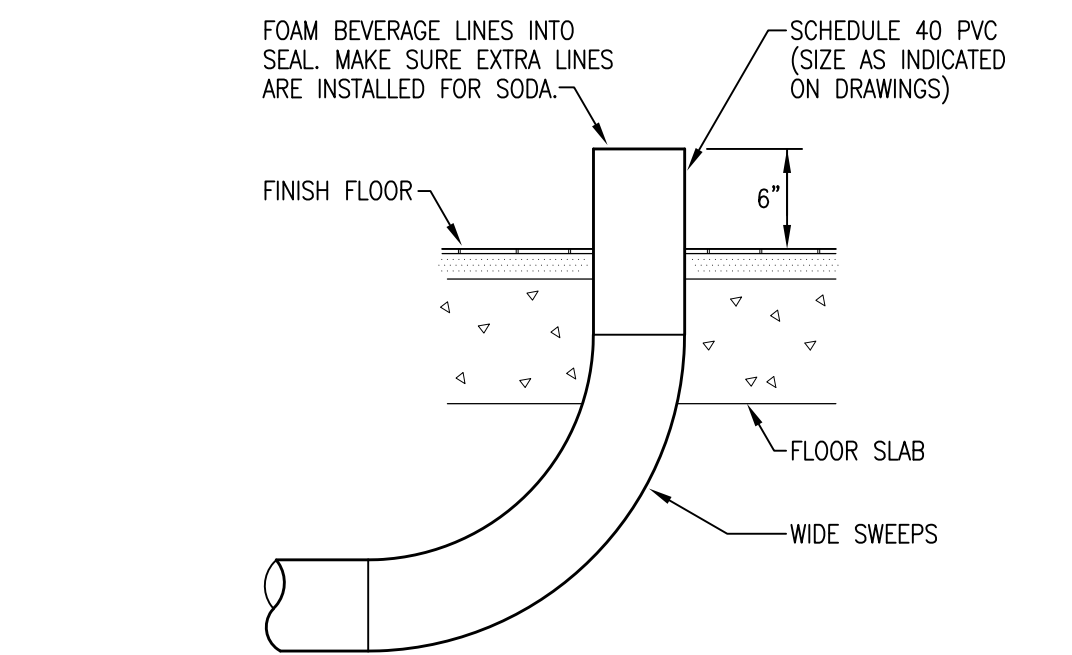
GAS FIRED WATER HEATER DETAIL  
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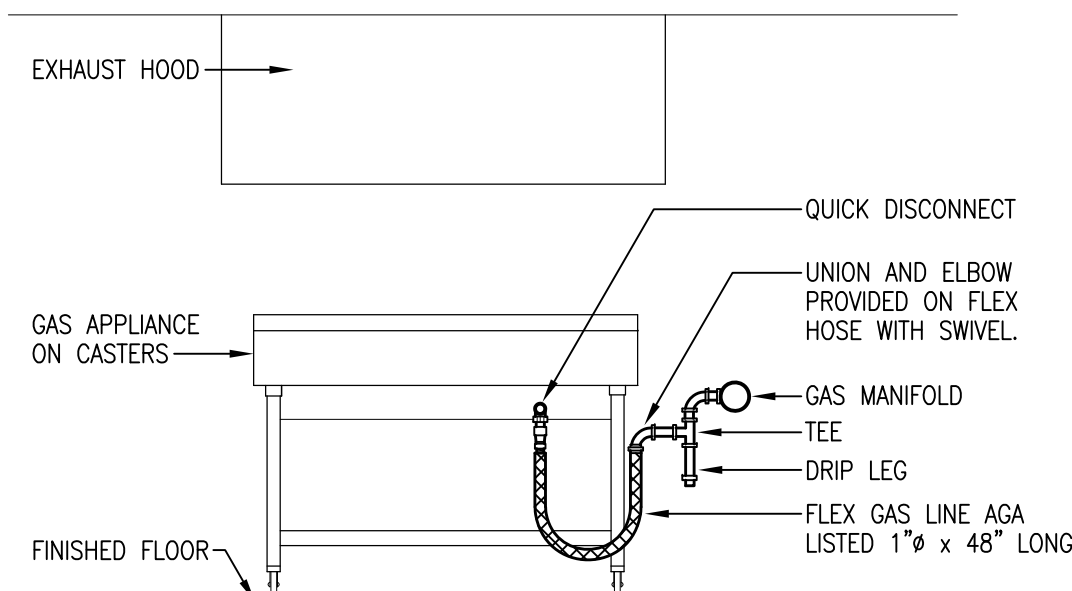
FLOOR CLEANOUT DETAIL  
NOT TO SCALE



WALL CLEANOUT DETAIL  
NOT TO SCALE



BEVERAGE LINE DETAIL  
NOT TO SCALE



GAS APPLIANCE CONNECTION  
NOT TO SCALE

PLUMBING LEGEND	
AFF	ABOVE FINISHED FLOOR
CFH	CUBIC FEET PER HOUR
CW	COLD WATER
ECO	EXTERIOR CLEANOUT
EX	EXISTING
F	FILTERED WATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
FU	FIXTURE UNIT
HB	HOSE BIBB
HW	HOT WATER
HWR	HOT WATER RETURN
SS	SANITARY SEWER
TD	TRENCH DRAIN
TWH	TANKLESS WATER HEATER
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT
-----	COLD WATER PIPING
---F---F---F---	FILTERED WATER PIPING
---GAS---	GAS PIPING
---GW---	GREASE PIPING
---140---140---	140" HOT WATER PIPING
-----	HOT WATER RETURN PIPING
---TP---TP---TP---	TRAP PRIMER PIPING
-----	WASTE PIPING
-----	VENT PIPING
☒	CONNECT NEW TO EXISTING
--- ---	CHECK VALVE
--- ---	GATE VALVE
--- ---	P-TRAP
--- ---	VENT THRU ROOF

## GENERAL NOTES

ALL HORIZONTAL PRESSURE PIPING SHALL BE RUN ABOVE CEILING ON THE PLAN ON WHICH SHOWN UNLESS OTHERWISE NOTED.

ALL HORIZONTAL GRAVITY PIPING SHALL BE RUN BELOW FLOOR ON THE PLAN ON WHICH SHOWN UNLESS OTHERWISE INDICATED. ALL HORIZONTAL VENT PIPING SHALL BE RUN ABOVE FLOOR ON THE PLAN ON WHICH SHOWN UNLESS OTHERWISE INDICATED. VENT PIPING IS SHOWN OFFSET FOR CLARITY.

THE LOCATION OF FLOOR DRAINS AND FLOOR SINKS SHALL BE COORDINATED WITH THE LOCATION AND SIZE OF THE EQUIPMENT BEING SERVED PRIOR TO INSTALLATION.

COORDINATE ROUTING OF PIPING TO AVOID CONFLICTS WITH STRUCTURAL, MECHANICAL, AND ELECTRICAL WITHIN THE BUILDING PRIOR TO INSTALLATION.

ALL FS DRAWINGS ARE PART OF THE PLUMBING DRAWINGS AND NO CHANGE ORDERS WILL BE GRANTED DUE TO CONFLICTS.

## NATURAL GAS PIPING NOTES

PIPING ABOVE GRADE SHALL BE SCHEDULE 40 BLACK STEEL ASTM A120. FITTINGS SHALL BE 150 POUND BLACK MALLEABLE SCREW PATTERN FOR ALL SIZES 2" AND SMALLER.

PIPING BELOW GROUND SHALL BE SCHEDULE 40 BLACK STEEL WITH BLACK WELDING FITTINGS AND SHALL BE PROTECTED BY MILL WRAPPING, REPUBLIC EXTRU-COST OR APPROVED EQUAL.

ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH NFPA RECOMMENDATIONS AND THE STANDARD GAS CODE COMPLETE WITH ALL NECESSARY APPURTENANCES.

THE MAIN DISTRIBUTION GAS PIPING FROM THE METER TO ALL APPLIANCES AND EQUIPMENT SHALL BE A 7-INCHES OF WATER COLUMN. THE 7-INCH W.C. REGULATOR SHALL BE LOCATED OUT DOORS ADJACENT TO THE GAS METER.

GAS COCKS SHALL BE INSTALLED BEFORE EACH PIECE OF EQUIPMENT CONNECTED TO THE SYSTEM.

HORIZONTAL PIPING SHALL DRAIN WITH A SLOPE OF 1" IN 40'-0" TO RISERS OR LOW POINTS AS REQUIRED. DRIPS SHALL BE PROVIDED AT ALL LOW POINTS AND AT BOTTOM OF RISERS. DRIPS SHALL BE SAME SIZE AS PIPE IT SERVES AND A MINIMUM OF 12 INCHES LONG.

ALL PIPING CONNECTIONS SHALL BE MADE WITH SHELLAC JOINT OR GROUND JOINT UNIONS.

ALL EXPOSED GAS PIPING SHALL BE PAINTED WITH A YELLOW EPOXY PAINT. ALSO, PROVIDE LABELS "GAS" AND "OPERATING PRESSURE". TYPICAL ENTIRE JOB, ALL AREAS, INSIDE AND EXTERIOR.

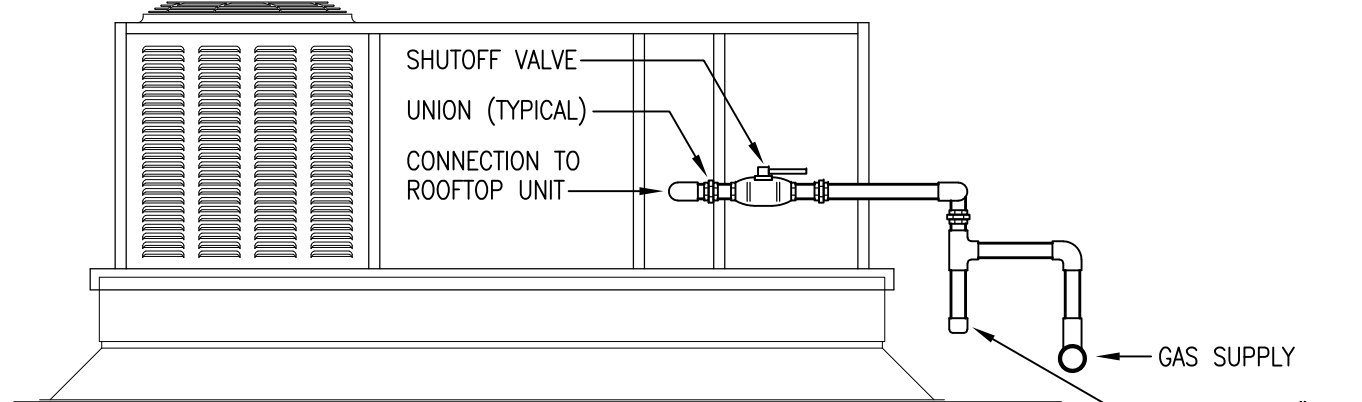
## NATURAL GAS NOTES

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTIONS TO GAS FIRED EQUIPMENT AND SPECIFIED FIXTURES. ALL GAS FIRED EQUIPMENT AND FIXTURES SHALL BE OPERABLE AND SHALL HAVE A FULL SIZE 6" DRIP LEG.

ALL GAS PIPING IS SIZED PER 2018 IFGC, TABLE 402.4(1) UTILIZING THE LONGEST RUN METHOD.

ALL GAS PIPING IS SIZED FOR A LOW PRESSURE SYSTEM. (0.5psig or LESS AND A PRESSURE DROP OF 0.3in. OF WATER COLUMN.)

VENT ALL REGULATORS PER THE 2018 IFGC.



ROOFTOP UNIT GAS PIPE DETAIL  
NOT TO SCALE

PLUMBING FIXTURE CONNECTION SCHEDULE									
MARK	FIXTURE	CONNECTIONS						DESCRIPTION (PROVIDE FIXTURE AS NOTED)	
		WASTE	VENT	CW	HW	WASTE FU	CW FU		
P-1	WATER CLOSET	4"	2"	1"	--	4	5	SLOAN FIXTURE AND FLUSHOMETER COMBINATION. WETS 2000.1201-1.28 SOLIS. 1.28 GPF. BATTERY OPERATED/SOLAR POWERED INFRARED SENSOR, HANDS FREE OPERATION WITH OVERRIDE BUTTON. CHURCH COMMERCIAL 295CT SEAT. 72 HOUR SENTINEL FLUSH. INSTALL PER MANUFACTURERS RECOMMENDATIONS. "LEED" QUALIFIED.	
P-2	WATER CLOSET (HANDICAPPED)	4"	2"	1"	--	4	5	ADA SLOAN FIXTURE AND FLUSHOMETER COMBINATION. WETS 2020.1201-ST-2029 SOLIS-811. 1.28 GPF. BATTERY OPERATED/SOLAR POWERED INFRARED SENSOR, HANDS FREE OPERATION WITH OVERRIDE BUTTON. CHURCH COMMERCIAL 295CT SEAT. 72 HOUR SENTINEL FLUSH. INSTALL PER MANUFACTURERS RECOMMENDATIONS. "LEED" QUALIFIED.	
P-3	URINAL (HANDICAPPED)	2"	2"	3/4"	--	2	5	ADA SLOAN FIXTURE AND FLUSHOMETER COMBINATION. WEUS-1002.1401-0.25 ECOS. 0.25 GPF. BATTERY OPERATED/SOLAR POWERED INFRARED SENSOR, HANDS FREE OPERATION WITH OVERRIDE BUTTON. 72 HOUR SENTINEL FLUSH. VANDAL RESISTANT STOP CAP AND STRAINER. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND PROVIDE WITH BACKING PLATE. "LEED" QUALIFIED.	
P-4	LAVATORY (HANDICAPPED)	1 1/2"	2"	1/2"	1/2"	1	2	SYNTHETIC PRE-FABRICATED LAVATORY (SEE ARCHITECTURAL) FURNISHED AND INSTALLED BY CONTRACTOR. PLUMBER TO FURNISH AND CONNECT ALL WASTE AND SUPPLIES. * SURROUND SENSOR AutoFlush Valve, BY TECHNICAL CONCEPTS MODEL #500484.	
P-5	MOP SINK	3"	2"	1/2"	1/2"	3	4	MOP SINK TO BE FABRICATED IN FIELD BY CONTRACTOR. PROVIDE WITH FIAT 830-AA SERVICE FAUCET, 832AA HOSE AND BRACKET, 889-CC MOP BRACKET 1453-BB ALTERNATE STRAINER WITH DRAIN ASSEMBLY/3" TRAP.	
FCO	FLOOR CLEANOUT	--	--	--	--	--	--	WADE W-6004-Y, CAST IRON W/ADJUSTABLE HOUSING, ROUND HEAVY CAST IRON VANDAL PROOF TOP. (ALTERNATE JOSAM NO. 58014-15)	
FD	FLOOR DRAIN	3"	2"	--	--	2	--	COATED CAST IRON WITH ADJUSTABLE NICKEL BRONZE GRATE, TRAP PRIMER CONNECTION AND DEEP SEAL TRAP. EQUAL TO JAY R. SMITH 2010-B-P.	
FS	FLOOR SINK	3"	2"	--	--	1	--	ZURN 1901, NICKEL BRONZE 12"x12"x8" DEEP, 3/4" GRATE.	
HB	HOSE BIBB	--	--	1/2"	--	--	5	WADE #W-8604-89, NON FREEZE GALV. CASING W/ NICKEL BRASS FACE, VACUUM BREAKER, AND LOCKABLE DOOR. (ALTERNATE JAY R. SMITH 5509-QT)	
TD	TRENCH DRAIN	3"	2"	--	--	2	--	J.R. SMITH 9930 ENVIRO-FLO TRENCH DRAIN, 1 SECTION, INSTALL PER MANUFACTURERS RECOMMENDATIONS. PROVIDE WITH A HEAVY DUTY, HEEL PROOF, ANTI SLIP GRATE WITH LOCKABLE COVER.	
WCO	WALL CLEANOUT	--	--	--	--	--	--	WADE #W-8453-R6, WITH BRASS PLUG AND ROUND STAINLESS STEEL SECURED ACCESS COVER. (ALTERNATE JOSAM NO. 58713)	
WH-1	WATER HYDRANT	--	--	1/2"	--	--	--	WADE #W-8604-89, NON FREEZE GALVANIZED CASING WITH NICKEL BRASS FACE, VACUUM BREAKER, AND LOCKABLE DOOR. (ALTERNATE JAY R. SMITH 5509-QT)	

\*CONTACT TECHNICAL CONCEPTS NATIONAL ACCOUNTS DIRECTOR, 800-551-5155 x 243, or 901-309-0482.

KITCHEN EQUIPMENT SCHEDULE ☼☼									
MARK	FIXTURE	CW	FILTERED CW	HW	HW TEMP	WASTE	GAS CFH	GAS CONNECTION	
K-5	HAND SINK	1/2"	--	1/2"	110°	1 1/2" DIRECT	SS	--	--
K-6	BAG-N-BOX	--	3/4"	--	--	---	--	--	--
K-9	REETHERMALIZER	--	--	1/2"	140°	4" FS	GW	--	--
K-10	FILTER SYSTEM	3/4"	3/4"	--	--	---	--	--	--
K-14	PREP TABLE SINK	1/2"	--	1/2"	140°	4" FS	GW	--	--
K-15	HAND SINK	1/2"	--	1/2"	110°	1 1/2" DIRECT	SS	--	--
K-19	THREE COMPARTMENT SINK	1/2"	--	1/2"	140°	4" FS	GW	--	--
K-35	BUSSING COUNTER SINK	1/2"	--	1/2"	140°	4" FS	GW	--	--
K-37	HOLDING CABINET	--	1/2"	--	--	4" FS	GW	--	--
K-42	SOLED DISHTABLE	1/2"	--	1/2"	140°	4" FS	GW	--	--
K-43	DISHWASHER ①	--	--	3/4"	140°	4" FS	GW	--	--
K-50	ICE MAKER WITH BIN	--	1/2"	--	--	4" FS	SS	--	--
K-51	HAND SINK	1/2"	--	1/2"	110°	1 1/2" DIRECT	SS	--	--
K-55	STEAMER	1/2"	--	--	--	---	--	--	--
K-56	STEAMER	1/2"	--	--	--	---	--	--	--
K-68	DOUBLE DECK CONVECTION OVEN	--	--	--	--	---	44	3/4"	
K-74	HOT FOOD TABLE	--	1/2"	--	--	4" FS	GW	--	--
K-83	COFFEE MAKER	--	1/2"	--	--	---	--	--	--
K-85	TEA BREWER	--	1/2"	--	--	---	--	--	--
K-86	TEA BREWER	--	1/2"	--	--	---	--	--	--
K-88	ICE DISPENSER	--	3/4"	--	--	4" FS	GW	--	--
K-89	TEA BREWER	--	1/2"	--	--	---	--	--	--
K-90	ICE/SODA DISPENSER	--	--	--	--	4" FS	GW	--	--
K-91	ICE/SODA DISPENSER	--	--	--	--	4" FS	GW	--	--

- NOTES:
- ① DISHWASHER SHALL HAVE BOOSTER HEATER TO BRING WATER TEMPERATURE UP TO MANUFACTURER'S REQUIREMENTS.
  - ② KITCHEN EQUIPMENT IS PROVIDED BY KITCHEN CONTRACTOR. SEE ARCHITECTURAL SPECIFICATIONS FOR INFORMATION ABOUT KITCHEN EQUIPMENT.
  - ③ PLUMBING CONTRACTOR SHALL COORDINATE ALL PLUMBING FIXTURES AND ROUGHIN REQUIREMENTS WITH EQUIPMENT SUPPLIER.
  - ④ FLOOR SINK LOCATIONS SHALL BE CLOSELY COORDINATED WITH SPILL PATTERN REQUIREMENTS OF SPECIFIC EQUIPMENT. FLOOR SINKS SHALL BE POSITIONED SO AS TO ACCEPT POURED WASTE FROM SAID EQUIPMENT.
  - ⑤ KITCHEN HAND SINK PROVIDED BY KITCHEN EQUIPMENT SUPPLIER AND INSTALLED BY PLUMBING CONTRACTOR. REFERENCE ARCHITECTURAL SPECIFICATIONS FOR ITEM K-511 HAND SINK DESCRIPTION.

WATER HEATER SCHEDULE									
MARK	CAPACITY (GALLONS)	GAS INPUT CFH	RECOVERY CFM @ 70° RISE	EW° F	LWT° F	BASIS OF DESIGN	UNIT WEIGHT LBS	ELECTRICAL REQUIREMENTS MCA MOC	REMARKS
1	80	199	5.6	70	140	PHOENIX PH199-80	300	8 15	①②③④⑤⑥⑦⑧

- NOTES:
- ① 3/4" INLET/OUTLET CONNECTIONS.
  - ② ELECTRICAL REQUIREMENT 75 WATTS MAX. @ 120/VAC.
  - ③ 30-80 PSI WATER PRESSURE FOR MAX. PERFORMANCE.
  - ④ 20-150 PSI WATER PRESSURE FOR MAX. PERFORMANCE.
  - ⑤ WATER HEATER MUST BE "PHOENIX" AND FROM OWNER'S CONTRACT (NO EXCEPTIONS). CONTACT HAL HILTON (704-964-8507) AT HILTON & ASSOCIATES (704-263-3067)
  - ⑥ INSTALL PER MANUFACTURER'S INSTRUCTIONS. ADHERE TO CLEARANCE FROM COMBUSTIBLES.
  - ⑦ 10-YEAR WARRANTY ON HEAT EXCHANGER, 5 YEAR ON OTHER PARTS WITH 1 YEAR LABOR.
  - ⑧ MIN/MAX NG PRESSURE 5" W.C. TO 10.5" W.C.



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McAlister's Deli | Kershaw County  
McAlister's Deli  
Camden, South Carolina 29020

PROJECT 0932.1120

CONSTRUCTION DOCUMENTS

05.21.21



SHEET: PLUMBING SCHEDULES,  
LEGEND, DETAILS, & RISERS

P3.1