



NOTE:
PLUMBING FIXTURES ON THIS PLUMBING SCHEDULE SHALL BE FURNISHED BY OWNER AND INSTALLED BY PLUMBING CONTRACTOR, EXCEPT WHERE NOTED SUPPLIED BY PLUMBING CONTRACTOR. NOTIFY OWNER IMMEDIATELY IF QUANTITIES SHOWN ARE INACCURATE OR IF CODES REQUIRE ADDITIONAL PLUMBING FIXTURES. PLUMBING CONTRACTOR SHALL FURNISH EVERYTHING NECESSARY FOR A COMPLETE INSTALLATION OF THESE PLUMBING FIXTURES.

PLUMBING FIXTURE	CORRESPONDING NPC EQUIP. #	QTY.	BY PLUMBING CONTRACTOR		FIXTURE	SOIL OR WASTE	VENT	COLD WATER	HOT WATER	TEMP'D WATER	DESCRIPTION	MANUFACTURER / MODEL NUMBER	
			SUPPLY	INSTALL									
<div>BFP002</div>		1	●	●	REDUCED PRESSURE BACKFLOW PREVENTER	--	--	1-1/2"	--	--	REDUCED PRESSURE ASSEMBLY WITH ATMOSPHERIC VENT, AND STRAINER. PIPE VENT DISCHARGE DRAIN LINE TO NEAREST DRAIN WITH PROPER AIR GAP. ASSE 1022 APPROVED.	WATTS SERIES 919QT	
<div>DW003</div>	<div>Z3-003</div>	1		●	DISHWASHER	INDIRECT	--		3/4"	--	ES-2000, CORNER DISHWASHER. HOT WATER INLET - 3/4" MINIMUM. 68GPH @140°F. THIS UNIT DOES NOT PRODUCE STEAM OR HEAT.	ECOLAB / MODEL: #ES-2000	
<div>ECO003</div>		5	●	●	EXTERIOR CLEANOUT	--	--	--	--	--	CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, ROUND SCORIATED HEAVY CAST IRON COVER.	ZURN / MODEL: #Z1400	
<div>ET001</div>		1		●	EXPANSION TANK	--	--	3/4"	--	--	EXPANSION TANK, STEEL, EXPANSION MEMBRANE 150 PSI, MAX. TEMP. 200° F, 4.5 GALLON CAPACITY.	WATTS SERIES PLT-12-M1	
<div>FCO003</div>		7	●	●	FLOOR CLEANOUT	--	--	--	--	--	CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, ROUND SCORIATED HEAVY CAST IRON COVER.	ZURN / MODEL: #Z1400	
<div>FD003</div>		5	●	●	FLOOR DRAIN (3")	3"	2"	--	--	--	COATED CAST IRON FLOOR DRAIN WITH FLANGE, INTEGRAL CLAMPING COLLAR, BOTTOM OUTLET AND ADJUSTABLE NICKEL-BRONZE ROUND STRAINER.	ZURN / MODEL: #ZN-415-3-6H	
<div>FS002</div>		2	●	●	FLOOR SINK	3"	2"	--	--		PVC 12" SQUARE FLOOR SINK, 8" DEEP, WITH ALUMINUM OR PVC DOME STRAINER AND LOOSE SET PVC SLOTTED TOP GRATE.	ZURN / MODEL: #FD-2370-PV3-DS-H	
<div>FS003</div>		1	●	●	FLOOR SINK	4"	2"	--	--		PVC 12" SQUARE FLOOR SINK, 8" DEEP, WITH ALUMINUM OR PVC DOME STRAINER AND LOOSE SET PVC SLOTTED TOP GRATE.	ZURN / MODEL: #FD-2370-PV4-DS-H	
<div>GI004</div>	<div>Z4-004</div>	1	●	●	GREASE INTERCEPTOR	4"	3"	--	--	--	75 GPM, 616 LB., RECESSED TYPE GREASE INTERCEPTOR, HIGH DENSITY POLYETHYLENE, FLUSH WITH FLOOR TYPE, INTERNAL AIR RELIEF, FIELD ADJUSTABLE RISER SYSTEM, BUILT-IN FLOW CONTROL WITH BOLTED WATER/GAS TIGHT SEAL AND MINIMUM 16,000 LBS LOAD CAPACITY.	SCHIER / MODEL: #GB-75	
<div>LV001</div>		1		●	LAVATORY	1-1/2"	1-1/2"	1/2"	--	1/2"	WHITE VITREOUS CHINA, WALL MOUNTED WITH HANGERS, OVERFLOW, ADA COMPLIANT, DRILLED FOR CONCEALED ARM CARRIER, 4" CENTERS. 21-1/4"x18-1/8" WITH SINGLE LEVER TYPE FAUCET, ADA COMPLIANT. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL. ADA COMPLIANT PREMANUFACTURED INSULATING JACKET ON DRAIN AND WATER LINES BELOW SINK. LAVATORY IS SUPPLIED WITH CONCEALED ARM CARRIER. SEE DETAIL 11/P4 FOR LAV CARRIER DETAIL.	<div></div> <div>KOHLER "KINGSTON" / MODEL: #K-2005 WITH T&S #B-2460 LAVATORY FAUCET</div>	
<div>MV002</div>		3	●	●	MIXING VALVE	--	--	1/2"	1/2"	1/2"	THERMOSTATIC MIXING VALVE, SOLID BRASS BODY, INTEGRAL CHECKS WITH SCREENS. ASSE 1070 LISTED. SET MIXING VALVE AT OUTPUT AT 110 °F	POWERS / MODEL: #e480-00 WITH	
<div>SI004</div>	<div>Z5-004</div>	1		●	3-COMP. SINK	INDIRECT	--	1/2"	1/2"	--	3 COMPARTMENT SINK, FAUCET W/ HANDLES AND DRAIN.	AERO MANUFACTURING CO.	
<div>S3004</div>	<div>Z7-004</div>	2		●	HAND SINK W/ KNEE PEDAL	1-1/2"	1-1/2"	--	--	1/2"	STAINLESS STEEL HAND SINK, WALL HUNG. INCLUDES A 6" GOOSENECK STAINLESS STEEL FAUCET W/ KNEE PEDAL VALVE.	AERO MANUFACTURING CO. / MODEL: #HSK-SKV	
<div>SS003</div>	<div>Z9-003</div>	1		●	MOP SINK	3"	2"	1/2"	1/2"	--	ONE PIECE MOP BASIN MOLDED FROM HIGH IMPACT RESISTANT DURASTONE STRUCTURAL FIBERGLASS, 24"x36"x10" DEEP AND FAUCET. FAUCET INCLUDES VACUUM BREAKER.	MUSTEE / MODEL: #65M AND T&S FAUCET #B2465	
<div>S6001</div>	<div>Z11-001</div>	1		●	VEGETABLE SINK	2" INDIRECT	2"	1/2"	1/2"	--	VEGETABLE SINK, FAUCET W/ HANDLES AND DRAIN.	AERO MANUFACTURING CO.	
<div>WC2001</div>		1		●	WATER CLOSET	4"	2"	1/2"	--	--	WHITE VITREOUS CHINA, CHROME RIGHT HAND TRIP LEVER, ELONGATED BOWL, HIGH EFFICIENCY TOILET (HET) ULTRA-LOW CONSUMPTION (4.8 LPPF/1.28 GPF) WITH BEMIS COMMERCIAL HEAVY-DUTY PLASTIC TOILET SEAT #1955CT.	<div></div> <div>AMERICAN STANDARD "CADET PRO RIGHT HEIGHT" TANK MODEL #4188A.105 RIGHT HAND TRIP LEVER, BOWL MODEL #3517A.101 WITH BEMIS COMMERCIAL TOILET SEAT MODEL #1955CT</div>	
<div>WCO003</div>		2	●	●	WALL CLEANOUT	--	--	--	--	--	CAST IRON CLEANOUT TEE WITH INLET/OUTLET SPIGOT AND THREADED BRASS PLUG, WITH STAINLESS STEEL ACCESS COVER.	ZURN / MODEL: #Z-1446-BP	
<div>WH004</div>	<div>Z13-010</div>	2	●	●	WATER HEATER	--	--	1"	1"	--	CONDENSING, TANKLESS, TEMPERATURE CONTROLLED, CONTINUOUS FLOW, GAS HOT WATER HEATER. HIGH EFFICIENCY 95%, 199,000 BTU INPUT, NATURAL GAS, PROVIDE WITH CVENT STARTER KIT 790005 AND CVENT INLINE KIT AS REQUIRED. PROVIDE WITH THERM-X-TROL ST-12-C IN-LINE TANK AND GRUNDFOS UPS 15-55 SFC RECIRCULATION PUMP WITH AQUA-STAT. PROVIDE CASCADE CABLE AND JUMPERS TO CONNECT WATER HEATER TO MODULATE OPERATION AS ONE HOT WATER SOURCE.	RINNAI / MODEL: #REU-N3237FF-US THERM-X-TROL ST-12-C GRUNDFOS UPS 15-55 SFC	- (2) REQUIRED - (1) REQUIRED - (1) REQUIRED

PLUMBING SCHEDULE

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1. THE WORK UNDER PLUMBING SECTION SHALL INCLUDE ALL LABOR, SERVICES, MATERIALS, EQUIPMENT, AND PERFORMANCE OF ALL WORK REQUIRED FOR THE INSTALLATION OF ALL PLUMBING WORK, AS SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED.

2. ALL MATERIALS SHALL BE NEW AND SHALL MEET REQUIREMENTS OF ASTM SPECIFICATIONS AND SHALL BE APPROVED BY LOCAL CODES.

3. PROVIDE ENGINEER WITH SUBMITTALS ON ALL MATERIALS TO BE FURNISHED AS SPECIFIED, OR AS AN EQUAL. EQUIPMENT SUBMITTALS SHALL BE APPROVED BY ENGINEER BEFORE CONSTRUCTION CAN BEGIN.

4. SHOULD THERE BE ANY DISCREPANCIES OR A QUESTION OF INTENT, REFER THE MATTER TO THE ENGINEER FOR A DECISION BEFORE ORDERING ANY EQUIPMENT OR MATERIALS, OR BEFORE STARTING ANY RELATED WORK.

5. WHERE WORK, CONNECTS TO THAT OF ANOTHER TRADE OR TO PIPING OR EQUIPMENT IN PLACE, FIELD MEASUREMENTS SHALL BE MADE TO MAKE CONNECTING WORK COME TRUE AND LINE UP WITH THE ITEM BEING CONNECTED.

6. WHERE WORK OF OTHER TRADES CONNECTS TO EQUIPMENT WHICH IS A PART OF THIS TRADE, PROVIDE PROPER CONNECTION(S) TO SUCH EQUIPMENT.

7. MINOR ITEMS AND ACCESSORIES OR DEVICES REASONABLY INFERRED AS NECESSARY TO THE COMPLETE AND PROPER INSTALLATION AND OPERATION OF ANY SYSTEM SHALL BE PROVIDED BY THE CONTRACTOR FOR SUCH SYSTEM. WHETHER OR NOT THEY ARE SPECIFICALLY CALLED FOR BY THE SPECIFICATIONS OR DRAWINGS.

8. CAREFULLY CHECK AND COORDINATE THE LOCATION AND LEVEL OF ALL PIPES, DUCTS, ETC. RUN PRELIMINARY LEVELS AND CHECK WITH ALL OTHER CONTRACTORS SO THAT CONFLICTS IN ALL LOCATIONS MAY BE AVOIDED.

9. ALL WORK SHALL BE EXECUTED AND INSPECTED IN ACCORDANCE WITH THE REQUIREMENTS OF ALL FEDERAL, STATE, AND LOCAL CODES, LAWS, ORDINANCES, RULES, AND REGULATIONS, AND OSHA REQUIREMENTS APPLICABLE TO THE PARTICULAR CLASS OF WORK.

10. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF OTHER CONTRACTORS ON THE JOB IN ORDER THAT THERE BE NO DELAY IN THE PROPER INSTALLATION AND COMPLETION OF SEVERAL PARTS OF THE WORK. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF HIS WORK WITH THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND ALL OTHER TRADES ON THE JOB, AND SHALL FIT HIS WORK TO AVOID INTERFERENCE. ANY RELOCATIONS OF DUCTWORK, EQUIPMENT, PIPING, VALVES, ETC. REQUIRED BECAUSE OF AN INTERFERENCE SHALL BE MADE AT THIS CONTRACTOR'S EXPENSE WITHOUT ADDITIONAL COST TO THE OWNER.

11. ALL PIPE, TUBE, AND FITTINGS SHALL COMPLY WITH LATEST ISSUED CODE AND STANDARDS, UNLESS INDICATED OTHERWISE BY LOCAL CODES.

12. WELDING PROCEDURES, WELDERS, AND OPERATORS SHOULD BE CERTIFIED IN ACCORDANCE WITH ASME B31.1 OR ASME B31.9, AS APPLICABLE, FOR SHOP AND PROJECT SITE WELDING OF PIPE WORK.

13. CERTIFY WELDING OF PIPING WORK USING STANDARD PROCEDURE SPECIFICATIONS BY, AND WELDERS TESTED UNDER SUPERVISION OF, NATIONAL CERTIFIED PIPE WELDING BUREAU (NCPWB) SUPERVISION.

14. COPPER TUBE AND FITTINGS
A. COPPER TUBE: ASTM B88 TYPE "L", AS INDICATED, FOR EACH SERVICE; HARD-DRAWN OR SOFT-DRAWN TEMPER, AS INDICATED, EXCEPT AS OTHERWISE INDICATED.
B. CAST COPPER SOLDER JOINT FITTINGS: ANSI B16.18 (ACID FREE).
C. WROUGHT COPPER SOLDER JOINT FITTINGS: ANSI B16.22 (ACID FREE).

16. BRASS PIPE FITTINGS
A. RED BRASS PIPE: ASTM B43 IN REGULAR WEIGHT.
B. CAST BRONZE THREADED FITTINGS: ANSI B16.15, CLASS 150, OR 250, AS REQUIRED.
C. CAST BRONZE THREADLESS FITTINGS: ASTM B61.

17. CAST IRON SOIL PIPE
A. HUBLESS CAST IRON SOIL PIPE: ASTM A-888 (ABOVE GRADE).

18. PLASTIC PIPES AND PIPE FITTINGS
A. POLYVINYL CHLORIDE PIPE (PVC): ASTM D1785, IN SCHEDULE WEIGHT, AS INDICATED ON DRAWINGS.
B. POLYVINYL CHLORIDE WATER PIPE (PVC): AWWA C900 IN
C. POLYVINYL CHLORIDE SEWER PIPE (PVC): ASTM D2729.
D. POLYVINYL CHLORIDE DRAIN, WASTE, AND VENT PIPE (PVC-DWV): ASTM D2665.
E. POLYVINYL CHLORIDE PIPE PSM SEWER PIPE: ASTM D3034.
F. PVC FITTINGS
1. SCHEDULE 40 SOCKET: ASTM D2466
2. SCHEDULE 80 SOCKET: ASTM D2467
3. SCHEDULE 80 THREADED: ASTM D2464
4. DWV SOCKET: ASTM D2665
5. SEWER SOCKET: ASTM D2729
6. SOLVENT CEMENT: ASTM D2564
7. SOLVENT CEMENT (TO JOIN PVC TO ABS): ASTM D3138

19. GENERAL CONTRACTOR WILL PROVIDE OPENINGS IN ROOF, FLOORS, AND EXTERIOR WALLS FOR PLUMBING EQUIPMENT AND PIPE PENETRATIONS.

20. INSULATE ALL COLD WATER AND HOT WATER PIPING ABOVE FLOOR SLAB WITH THREE QUARTER INCH (3/4") THICK FIBERGLASS INSULATION WITH VAPOR BARRIER AND ALL SERVICE JACKET. SEAL ALL JOINTS WITH SEALING LAP.

21. PLUMBING FIXTURES AND SUPPORTS
A. FURNISH PLUMBING FIXTURES AS INDICATED BY PLANS AND SCHEDULES ON THE DRAWINGS, AND AS SPECIFIED HEREIN, WITH ALL HOT AND COLD WATER SUPPLIES, WASTE AND VENT CONNECTIONS, ALL FITTINGS, SUPPORTS, FAUCETS, VALVES, AND TRAPS AS REQUIRED.

22. MEET LANDLORD'S TENANT CRITERIA WITH REGARD TO CONSTRUCTION FEATURES AND SPECIAL REQUIREMENTS, ETC. VERIFY WHEN AND HOW WORK MAY BE PERFORMED IN OTHER SPACES, WHERE REQUIRED.

23. EXISTING PIPING SHOWN ON THE DRAWINGS HAS BEEN LOCATED FROM INFORMATION PROVIDED BY OTHERS. FIELD VERIFY EXACT LOCATIONS AND COORDINATE WITH LANDLORD'S FIELD REPRESENTATIVE.

24. COMPLY WITH LOCAL HEALTH DEPARTMENT REGULATIONS. SEAL ALL PIPES NEATLY WITH GROUT AT WALL, FLOOR, OR CEILING PENETRATIONS, OMIT INSULATION ON EXPOSED PIPING BEHIND AND UNDER EQUIPMENT. PROVIDE CLEARANCE FOR CLEANING BEHIND AND UNDER EXPOSED PIPING AS REQUIRED BY HEALTH DEPARTMENT. WHERE POSSIBLE, INSTALL ALL PIPING CONCEALED. CONFORM TO HEALTH DEPARTMENT REQUIREMENTS FOR FLOOR SINKS.

25. SOIL AND WASTE PIPE SHALL SLOPE 2% MINIMUM, UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.

26. ALL DRAIN, WATER & GAS LINES SHALL BE KEPT TIGHT TO THE UNDERSIDE OF EQUIPMENT & SECURED IN PLACE.

27. CONTRACTOR TO PROVIDE TRAP PRIMER TO ALL FLOOR DRAINS.

28. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC. AND THE OWNERS REPRESENTATIVE PRIOR TO ANY INSTALLATION.

29. ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILING SHALL BE INSTALLED BEHIND AN ACCESS PANEL.

30. ALL PLUMBING FIXTURE VENTS SHALL TERMINATE A MINIMUM OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM ANY OUTSIDE AIR INTAKE.

31. PLUMBING CONTRACTOR SHALL PROVIDE GAS PIPING TO UNITS AND ALL FINAL CONNECTIONS REQUIRED FOR OPERATION.

32. INSTALL SHUT-OFF VALVES ON ALL HOT & COLD WATER LINES TO FIXTURE OR APPLIANCE. ALL EXPOSED WATER AND WASTE LINES TO BE CHROME PLATED.

33. PLUMBING CONTRACTOR TO PROVIDE A LEVER HANDLE GAS SHUT-OFF VALVE IN THE BRANCH PIPING OF EACH APPLIANCE OR PIECE OF EQUIPMENT. FOR EACH APPLIANCE INSTALL QUICK DISCONNECT. FLEXIBLE PIPE WHEN ALLOWED BY CODE AND RESTRAINING DEVICE FURNISHED BY OWNER. PLUMBING CONTRACTOR TO PROVIDE PRESSURE REDUCING VALVES AT EACH PIECE OF EQUIPMENT OR APPLIANCE, IF GAS PRESSURE GREATER THAN 1/2"wc IS USED DOWNSTREAM FROM THE GAS METER / REGULATOR.

34. ALL VALVES, UNIONS, ETC. SHALL BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.

35. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL WORK TO BE FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR. ALL ROUGH-IN PLUMBING AND FINAL CONNECTIONS TO KITCHEN EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

36. REFER TO MECHANICAL SHEETS FOR HVAC AND HOOD PLUMBING REQUIREMENTS.

37. ALL GAS LINES SHALL BE SUPPORTED IN ACCORDANCE WITH ZONE 3 SEISMIC BRACING REQUIREMENTS.

38. ALL FLOOR SINKS AND FLOOR DRAINS IN TRAFFIC AREAS SHALL BE INSTALLED FLUSH TO FLOOR SURFACE.

39. WATER HAMMER ARRESTOR SHALL BE INSTALLED AT ALL WATER LINES, PER LOCAL CODE REQUIREMENTS.

40. PROVIDE AIR GAPS FOR INDIRECT DRAINS AS REQUIRED BY CODE. THE AIR GAP SHALL BE A MINIMUM 2 TIMES THE DIAMETER OF THE INDIRECT DRAIN.

41. PRIOR TO COMMENCING WORK ON THIS PROJECT, PLUMBING CONTRACTOR SHALL VERIFY DEPTH, SIZE, LOCATION AND CONDITION OF ALL EXISTING UTILITIES IN FIELD. SHOULD CONDITIONS EXIST OTHER THAN THOSE INDICATED WHICH WOULD CAUSE THE DESIGN TO BE ALTERED, PLUMBING CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY.

42. PLUMBING CONTRACTOR SHALL INSTALL ALL BACKFLOW PROTECTION DEVICES REQUIRED BY AGENCIES HAVING JURISDICTION. BACKFLOW DEVICES REQUIRING TESTING SHALL BE INSTALLED NO HIGHER THAN 5'-0" A.F.F.

43. PLUMBING CONTRACTOR SHALL PROVIDE CONDENSATE DRAIN FROM HEATING & COOLING UNITS TO APPROVED DRAIN. GAS PIPING TO UNITS AND ALL FINAL CONNECTIONS REQUIRED FOR OPERATION.

44. THE OWNER OR KITCHEN EQUIPMENT SUPPLIER MAY SUBSTITUTE EQUIPMENT OR THE EQUIPMENT MAY VARY FROM WHAT IS SHOWN. THEREFORE, THE PLUMBING CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS WITH THE OWNER PRIOR TO CONSTRUCTION. FAILURE TO VERIFY THESE DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATION DIRECTLY UPON THE PLUMBING CONTRACTOR.

45. PLUMBING CONTRACTOR TO PROVIDE LAVATORY CARRIER WITH CONCEALED ARM SUPPORTS, HEAVY DUTY ROUND STEEL PIPE UPRIGHTS AND WELDED FEET.

GENERAL NOTES

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SYSTEM SERVED	MATERIAL	FITTINGS & JOINTS
DOMESTIC WATER BELOW FLOOR OR GRADE	TYPE K SOFT COPPER	NONE PERMITTED
DOMESTIC WATER ABOVE FLOOR OR GRADE	TYPE L HARD DRAWN COPPER	WROUGHT COPPER, SOLDERED
WASTE & VENT	PVC-DWV, ASTM D-2665	HUB WITH PVC CEMENT
GAS	SCHEDULE 40 BLACK STEEL	MALLEABLE IRON, SCREWED OR WELDED

SYMBOLS	ABBREV.	DESCRIPTION
<div>X-X000</div>		PLUMBING ITEM DESIGNATION
<div>X</div>		KITCHEN EQUIPMENT NUMBER. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR DESCRIPTION.
<div>C</div>		CONDENSATE DRAIN
<div>CW</div>		COLD WATER
<div>HW</div>		HOT WATER
<div>G</div>		GAS / GAS STUB
<div>GW</div>		SOIL OR WASTE (GREASE WASTE)
<div>SW</div>		SOIL OR WASTE (SANITARY)
<div>TW</div>		PREMIXED TEMPERATURE WATER
		VENT LINE
<div>FD</div>		FLOOR DRAIN
<div>FS</div>		FLOOR SINK
<div>FCO</div>		FLOOR CLEANOUT
<div>WC</div>		WALL CLEANOUT
<div>VTR</div>	VTR	VENT THRU ROOF
<div>SC</div>		SHUT-OFF GAS COCK
<div>SS</div>		FIRE SUPPRESSION SYSTEM SOLENOID GAS SHUT-OFF

NOT USED

NTS

5

MATERIAL SCHEDULE

NTS

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11/20/23

2956

BSGGTY

ARCF

DATE:

JOB NO:

DRAWN:

CHECKED:

ACG #:

2320307

PLUMBING
SCHEDULES



FRANCHISEE

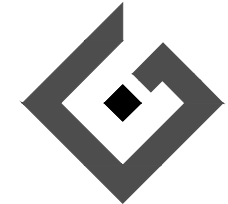


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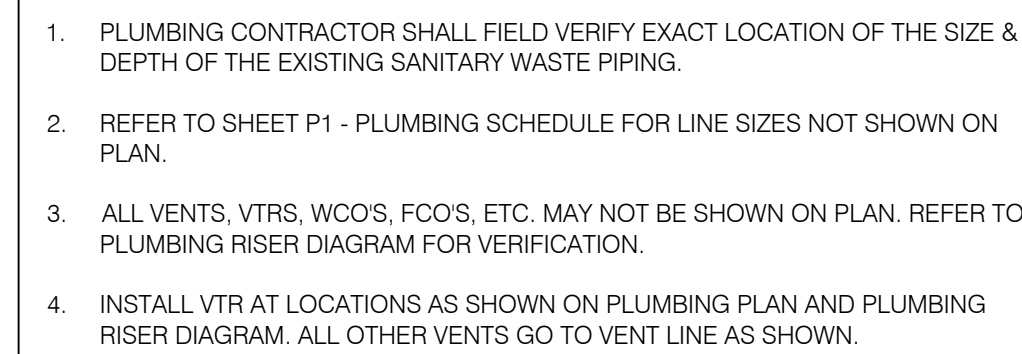


11/20/23

SHEET NUMBER

P1

REVISIONS:



- 1 PROVIDE WITH TRAP PRIMER AND CONNECT TO NEAREST CW PIPING. REFER TO DETAIL 3/F4
- 2 VENT UP THROUGH ROOF. SEE RISER FOR ALL VENT AND PIPE SIZING. PLUMBING VENTS TO BE LOCATED A MINIMUM OF 10' FROM FRESH AIR INTAKES. FIELD COORDINATE FINAL LOCATIONS.
- 3 PROVIDE 1" COPPER CONDENSATE DRAIN LINE FROM THE EVAPORATOR COILS IN THE WALK-IN COOLER AND FREEZER. PROVIDE P-TRAPS ON CONDENSATE DRAIN LINE AT EVAPORATOR COILS. ROUTE TO FLOOR DRAIN AND/OR MOP SINK AS SHOWN. CONDENSATE PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE IN WALK-IN COOLER AND FREEZER TO ALLOW FOR SHELVEING INSTALLATION. 1-1/2" AIRGAP FOR INDIRECT WASTE REQUIRED.
- 4 PROVIDE 1" PVC CONDENSATE LINE FOR HVAC UNITS. DRAIN INTO REAR GUTTER LOCATION AS SHOWN.
- 5 PROVIDE SAMPLING PORT DOWNSTREAM OF GREASE INTERCEPTOR.
- 6 ROUTE 2" WASTE LINE FROM 3-COMPARTMENT SINK TO FLOOR SINK WITH INDIRECT WASTE CONNECTION. PROVIDE AIR GAP PER CODE. 4" MINIMUM REQUIRED.
- 7 ROUTE 2" WASTE LINE FROM DISHWASHER TO FLOOR SINK WITH INDIRECT WASTE CONNECTION. PROVIDE AIR GAP PER CODE. 4" MINIMUM REQUIRED.
- 8 ROUTE 2" WASTE LINE FROM VEGETABLE SINK TO FLOOR SINK WITH INDIRECT WASTE CONNECTION. PROVIDE AIR GAP PER CODE. 4" MINIMUM REQUIRED.
- 9 CONNECT NEW SANITARY WASTE PIPING TO EXISTING SANITARY WASTE LINE. VERIFY SIZE, DEPTH AND LOCATION.
- 10 COORDINATE EXACT LOCATION OF NEW EXTERIOR GREASE INTERCEPTOR WITH FLYNN PROJECT MANAGER.

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NTS

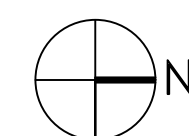
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NTS

	2
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SCHIER MODEL	Description: Polyethylene Grease Interceptor
GB-75	Dimensions: Length: 47", Width: 33", Height: 39.75" Flow Rate/Grease Capacity: 75 GPM / 861 lbs Liquid Capacity: 125 gal

IMPORTANT NOTE:
PLUMBING CONTRACTOR SHALL WRAP THE WALK-IN FREEZER DRAIN PIPING WITH HEAT TRACE TAPE, INSULATE WITH 3/4" ARMAFLEX INSULATION, AND PROVIDE PVC FIELD JACKET FOR ALL CONDENSATE PIPE IN THE FREEZER.



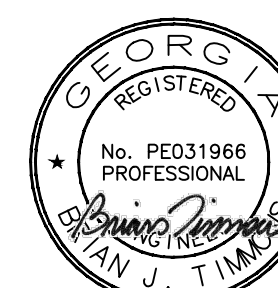
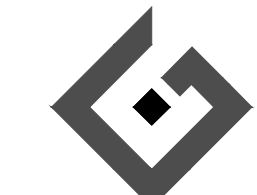
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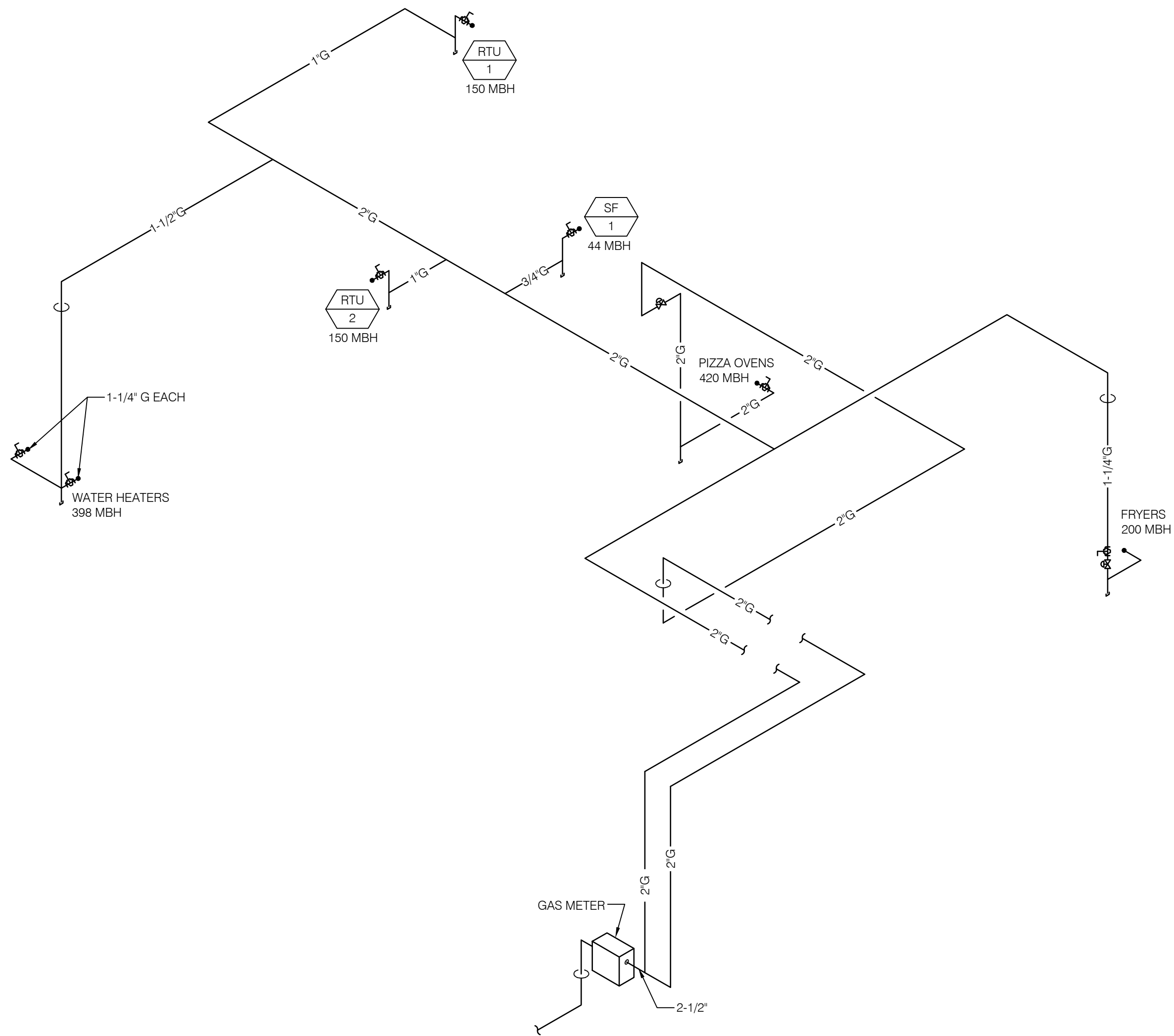


11/20/23

SHEET NUMBER

P2

REVISIONS:



GAS SERVICE DEMAND CALCULATION	
RTU 1	150 MBH
RTU 2	150 MBH
SF 1	44 MBH
WH-004 (2 @ 199 MBH EACH)	398 MBH
PIZZA OVEN (3 @ 140 MBH EACH)	420 MBH
WINGSTREET FRYERS (2 @ 100 MBH EACH)	200 MBH
TOTAL GAS DEMAND	= 1362 MBH

POST REGULATOR (DOWNSTREAM OF REGULATOR) NATURAL GAS SERVICE PIPING IS BASED ON LOW PRESSURE, LESS THAN 2 PSI WITH A 0.5" W.C. PRESSURE DROP AND SPECIFIC GRAVITY OF 0.60. PIPING FOR LOW PRESSURE SYSTEM IS BASED ON A TOTAL DEVELOPED PIPING LENGTH OF 125 FT, DELIVERY PRESSURE TO EQUIPMENT AT 7"-14" W.C.

IMPORTANT NOTE:
ALL GAS PIPING IN THIS PROJECT IS SIZED IN ACCORDANCE WITH THE 2012 INTERNATIONAL FUEL GAS CODE, BASED ON THE INDICATED TOTAL DEVELOPED LENGTHS.

- 2" GAS PIPING DOWN TO PIZZA OVENS. GAS PIPING SHALL BE ROUTED DOWN END OF WALL (NOT IN WALL) AND ELBOW AROUND THE WALL TO OVEN SIDE.
- PROVIDE SOLENOID ACTUATED EMERGENCY GAS SERVICE SHUT-OFF VALVE BELOW CEILING FOR CONNECTION TO THE EXHAUST HOOD SUPPRESSION SYSTEM. COORDINATE SOLENOID VALVE WITH TYPE OF ANSUL SYSTEM PROVIDED.
- ROUTE 1-1/4" GAS LINE DOWN FACE OF WALL (NOT IN WALL), AND PROVIDE SHUT-OFF VALVE AT 12" A.F.F. FOR THE GAS FRYERS. INSTALL SOLENOID ACTUATED EMERGENCY GAS SERVICE SHUT-OFF VALVE BELOW CEILING FOR CONNECTION TO THE EXHAUST HOOD SUPPRESSION SYSTEM. REFER TO DETAIL 12/P4.
- 1-1/2" GAS DOWN TO WATER HEATERS WITH GAS COCK, DIRT LEG AND UNION. REFER TO DETAIL 9/P4.
- 1/2" HOT AND COLD WATER PIPING DOWN IN WALL TO MIXING VALVE BELOW FIXTURE.
- 1/2" HOT AND COLD WATER PIPING TO 3-COMPARTMENT SINK. PROVIDE SHUTOFF VALVES AT STUB OUTS.
- EXTEND 1/2" COLD AND HOT WATER PIPING DOWN IN THE WALL TO THE MOP SINK.
- EXTEND 1/2" COLD AND HOT WATER PIPING DOWN IN WALL TO VEGETABLE SINK.
- PROVIDE SHUT OFF VALVE, UNION AND DIRT LEG FOR CONNECTION TO HVAC UNIT.
- PROVIDE 3/4" HOT WATER PIPING CONNECTION TO DISHWASHER AT 72" AFF. CONTRACTOR SHALL INSTALL WATER HAMMER ARRESTOR (PDI SIZE A, ASSE 1010) ON SUPPLY. CONTRACTOR SHALL INSTALL VACUUM BREAKER, AND ALL ACCESSORIES PROVIDED WITH DISHWASHER, PER MANUFACTURERS REQUIREMENTS. PROVIDE SHUTOFF VALVES AT STUB OUT.
- DO NOT ROUTE WATER LINES OVER ELECTRICAL PANELS.
- THERMOSTATIC MIXING VALVE BELOW SINK.
- PROVIDE GAS SERVICE TO SPACE WITH ALL ASSOCIATED VALVING, REGULATORS, SUPPORTS AND EQUIPMENT AS SPECIFIED BY LOCAL AHJ. REFERENCE RISER FOR TOTAL LOAD AND DEVELOPED LENGTH. COORDINATE THE NEW GAS PIPING INSTALLATION WITH LANDLORD'S FIELD REPRESENTATIVE. 2" DEDICATED LINE FOR PIZZA OVENS TO BE ROUTED BACK TO METER ALONG SIDE OF 2" LINE SERVING ALL OTHER LOADS IN SPACE. AT METER COMBINE 2" DEDICATED LINE INTO MAIN LINE.
- EXTEND NEW 1-1/4" COLD WATER PIPING AS REQUIRED, AND CONNECT TO THE EXISTING INCOMING WATER SERVICE LINE. VERIFY THE EXACT LOCATION AND SIZE IN FIELD.
- ROUTE 1/2" COLD WATER DOWN IN WALL TO 80" AFF TO HOT HOLD CABINET. PROVIDE WITH 1/4 TURN BRASS BALL VALVE ICE MAKER BOX, 10 FOOT BRAIDED STAINLESS STEEL HOSE, AND BRASS 90 ELBOW AT HOT HOLD. HOT HOLD CABINET HAS INTEGRAL AIR GAP FITTING.
- PROVIDE 1/2"H-W AT 48" ABOVE FINISH FLOOR WITH SHUTOFF VALVE FOR CONNECTION TO CLEANING SUPPLY DISPENSING SYSTEM.
- BACKFLOW PREVENTER SHOWN OFFSET FROM WALL FOR DRAWING CLARITY. CLOSELY COORDINATE INSTALLATION OF BACKFLOW PREVENTER ON WALL UNDER WATER HEATERS TO MAINTAIN ALL WORKING CLEARANCES.

GAS PIPING ISOMETRIC RISER

NTS

3

KEYNOTES

NTS

2

EQUIVALENT BRANCH PIPE SIZING CHART				
FIXTURE	COPPER SIZE		PEX SIZE	
	HW	CW	HW	CW
LAVATORY	1/2"	1/2"	1/2"	1/2"
WATER CLOSET	---	1/2"	---	3/4"
3-COMPARTMENT SINK	1/2"	1/2"	3/4"	3/4"
VEGGIE SINK	1/2"	1/2"	3/4"	3/4"
MOP SINK	1/2"	1/2"	3/4"	3/4"
HANDSINK	1/2"	1/2"	1/2"	1/2"
HOT HOLD CABINET	---	1/2"	---	1/2"
CLEANING SUPPLY DISPENSING SYSTEM	1/2"	---	1/2"	---
DISHWASHER	1/2"	---	3/4"	---

WATER DISTRIBUTION PIPE SIZES INDICATED ON DRAWINGS ARE COPPER SIZES. REFER TO THE CHART ABOVE FOR EQUIVALENT SIZES FOR PEX-A/B.

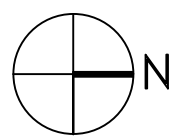
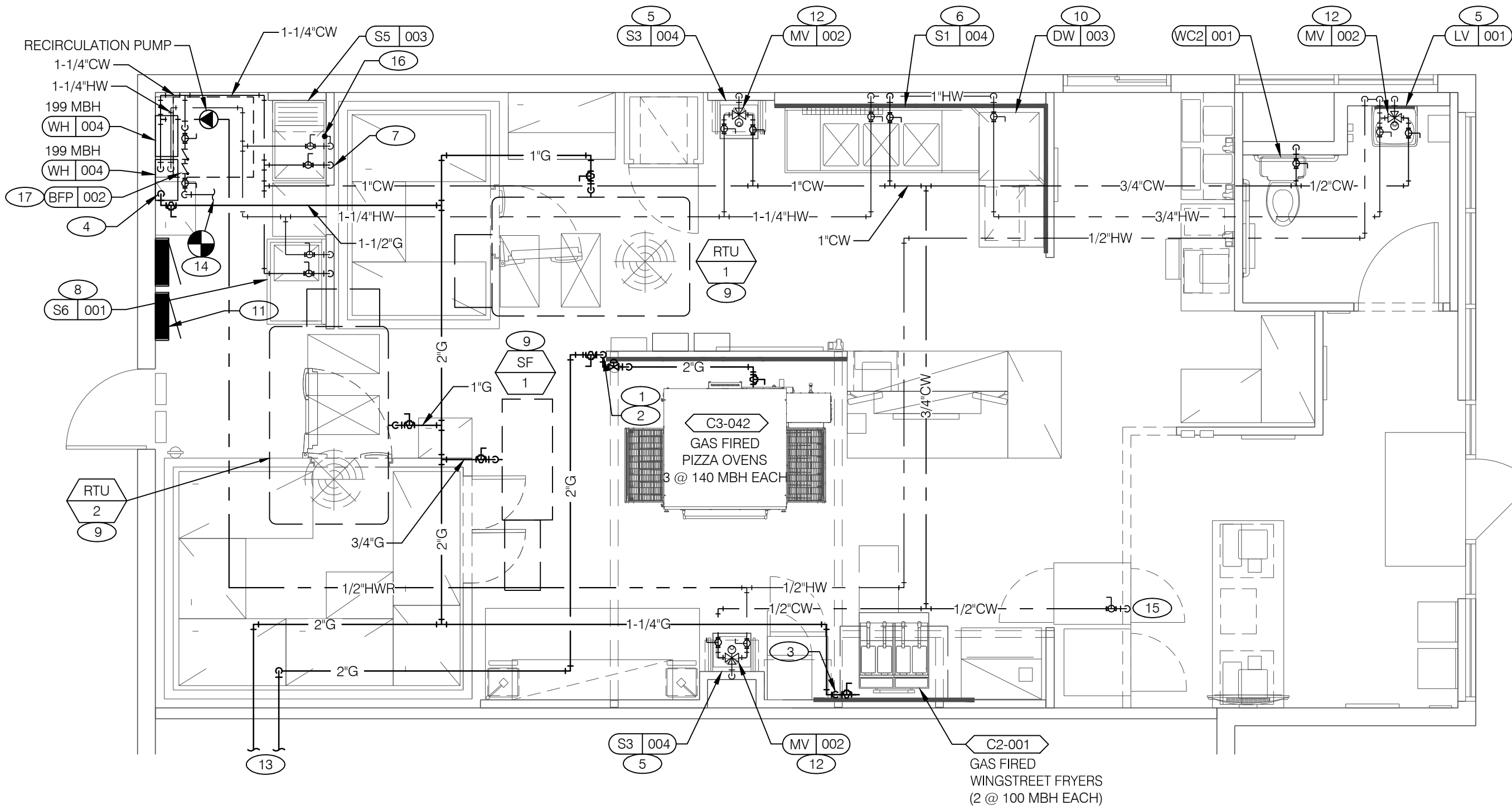
EQUIVALENT MAIN PIPE SIZING CHART				
COPPER TUBE		PEX-A		PEX-B
SIZE	ID	SIZE	ID	ID
3/8"	0.375	1/2"	0.475	1/2"
1/2"	0.500	3/4"	0.671	3/4"
3/4"	0.750	1"	0.862	1"
1"	1.000	1-1/4"	1.054	1-1/4"
1-1/4"	1.265	1-1/2"	1.244	1-1/2"
1-1/2"	1.505	2"	1.629	2"
2"	1.985			

IF ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION PEX-A OR PEX-B MAY BE USED IN LIEU OF COPPER FOR THE DISTRIBUTION OF WATER.

NOTE:
NEW GAS FIRED WATER HEATERS FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR.
PLUMBING CONTRACTOR SHALL PROVIDE ALL VENTING REQUIRED. REF: MANUFACTURER'S REQUIREMENTS.

NOTE:
FIELD VERIFY EXACT LOCATION OF GAS METER.
NEW GAS REGULATOR TO BE PROVIDED BY PLUMBING CONTRACTOR @ INDICATED LOCATION. REF: NOTE 13 THIS SHEET.

NOTE:
PLUMBING CONTRACTOR SHALL NOT RESIZE GAS PIPING OR GAS METER. DEDICATED 2" LINE FOR PIZZA OVENS IS TO BRANCH OFF MAIN AS SOON AS GAS LINE TURNS VERTICAL FROM METER.
(INSTALL PER PLANS)
PAINT EXPOSED PIPE TO MATCH BLDG. (AS REQUIRED).



GAS AND WATER PLAN

1/4" = 1'-0"

1

11/20/23
DATE:
JOB NO: 2956
DRAWN: BS GG, TY
CHECKED: AR, CF
ACG #: 2320307

GAS AND WATER SERVICE PLAN



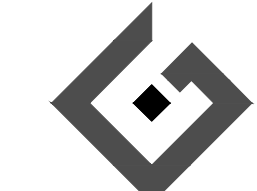
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Proj# 2320307

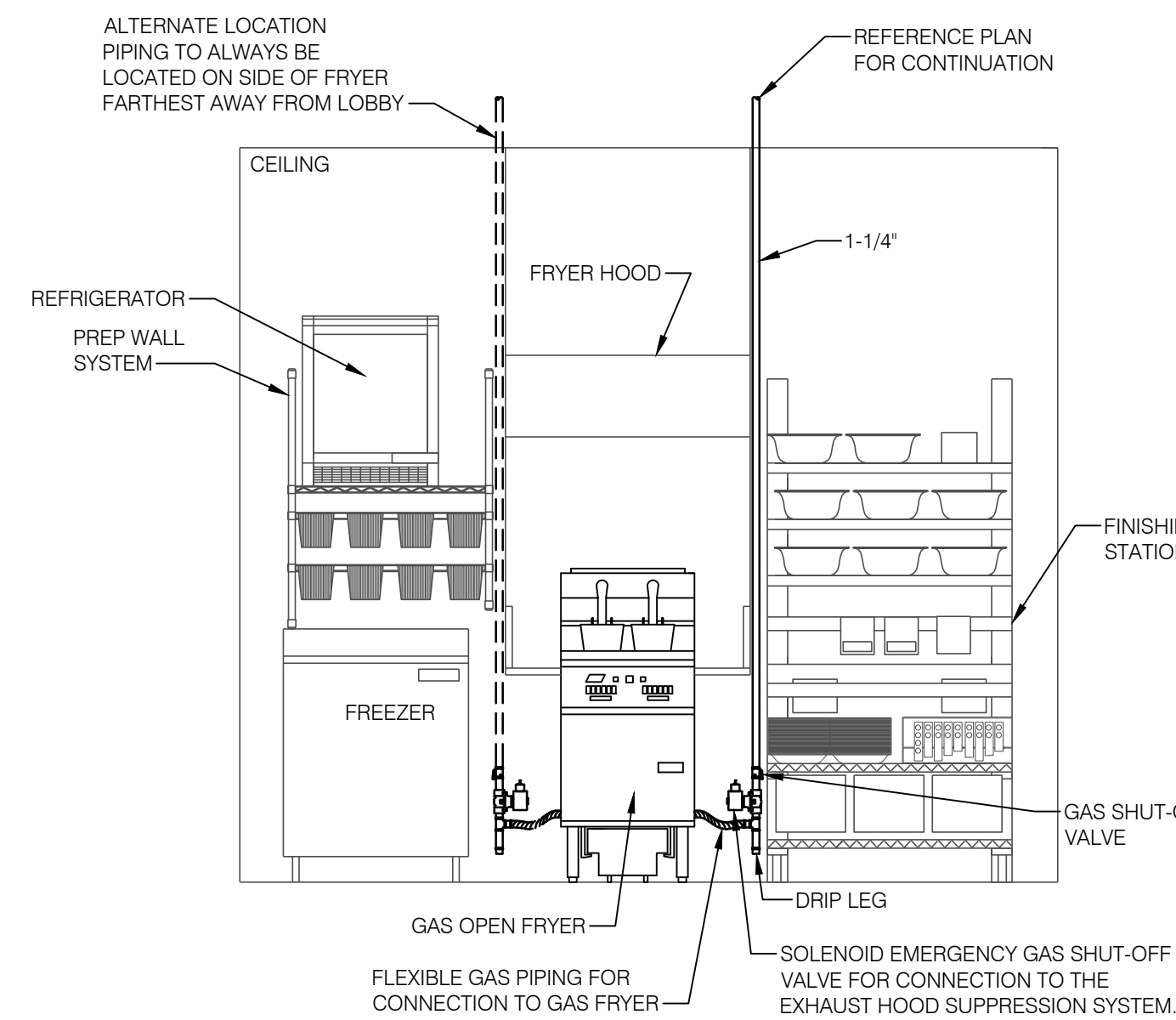


11/20/23

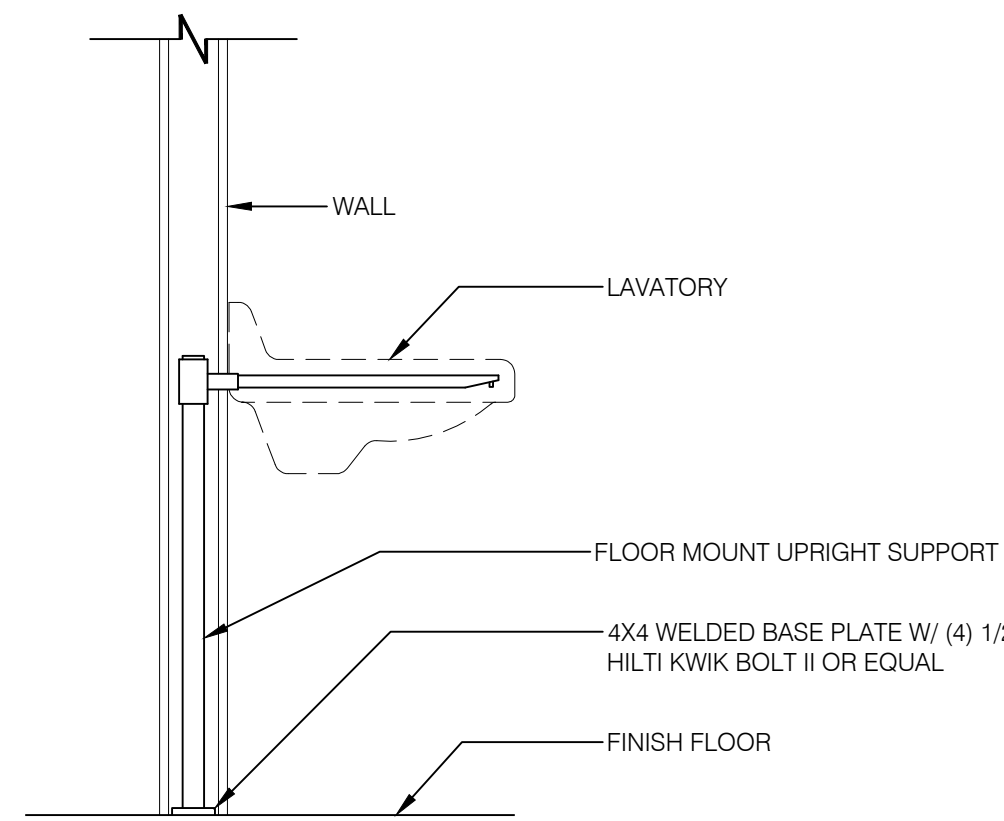
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P3

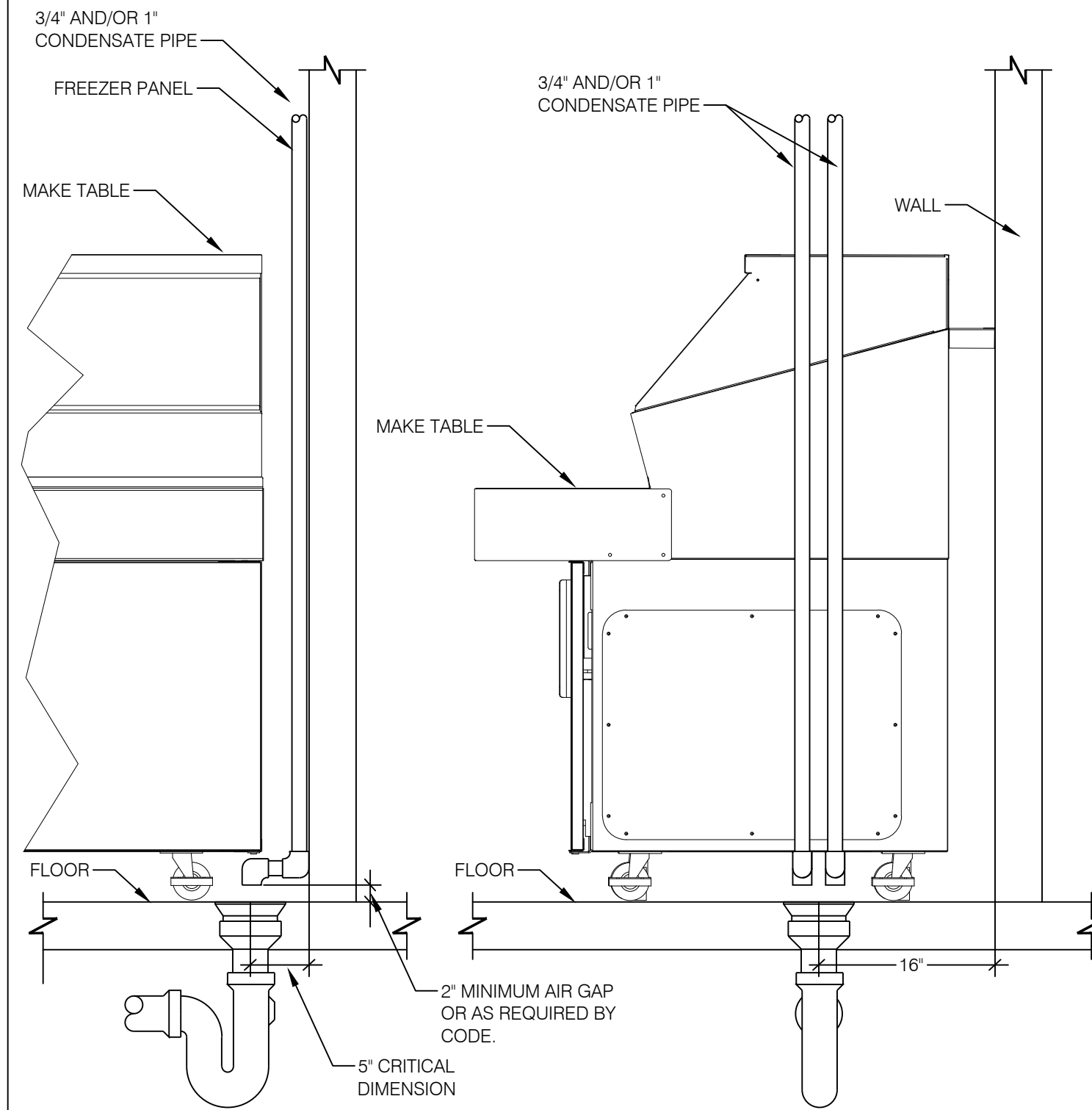
REVISIONS:



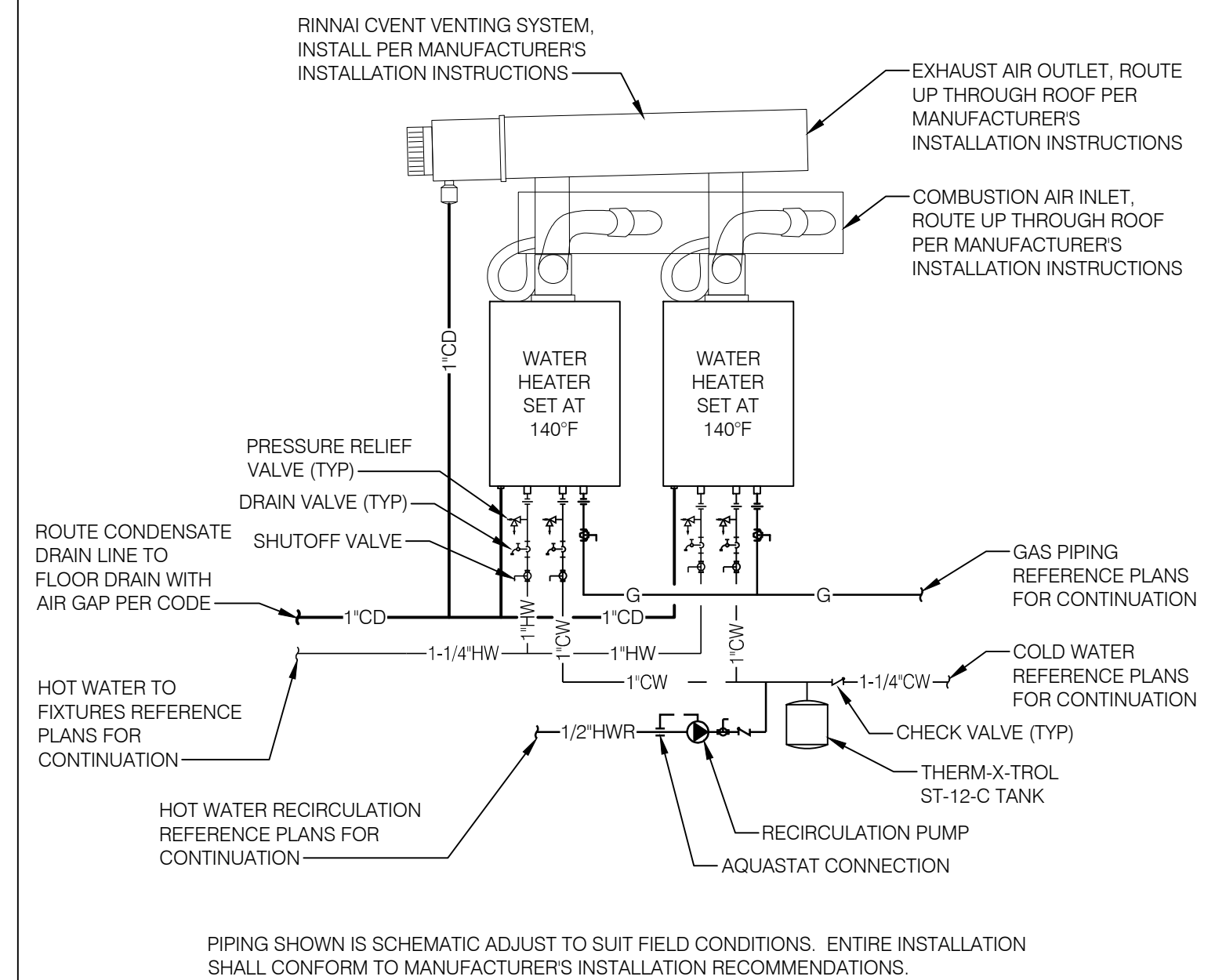
GAS FRYER CONNECTION	NTS	12
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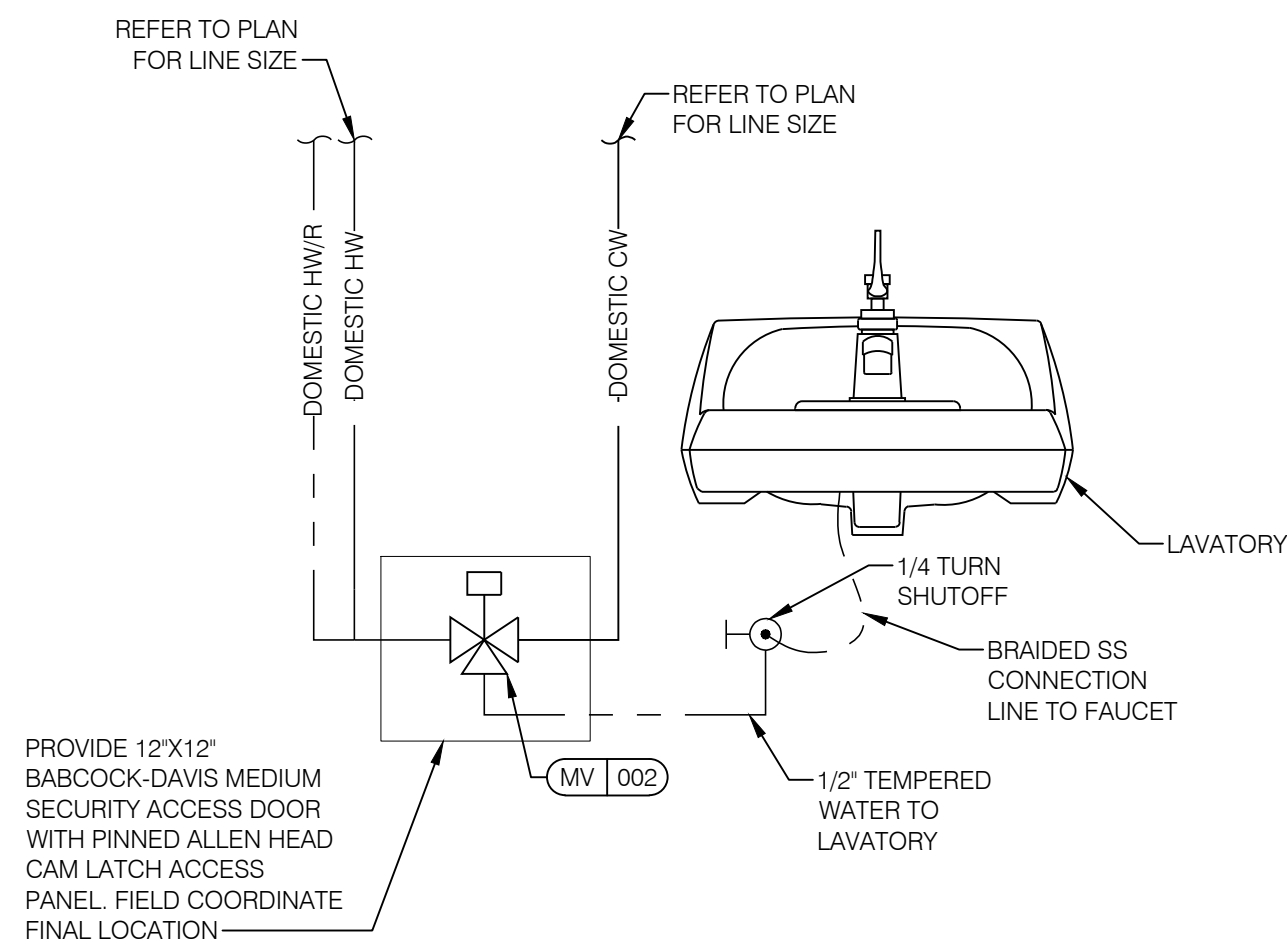
LAVATORY SUPPORT DETAIL	NTS	11
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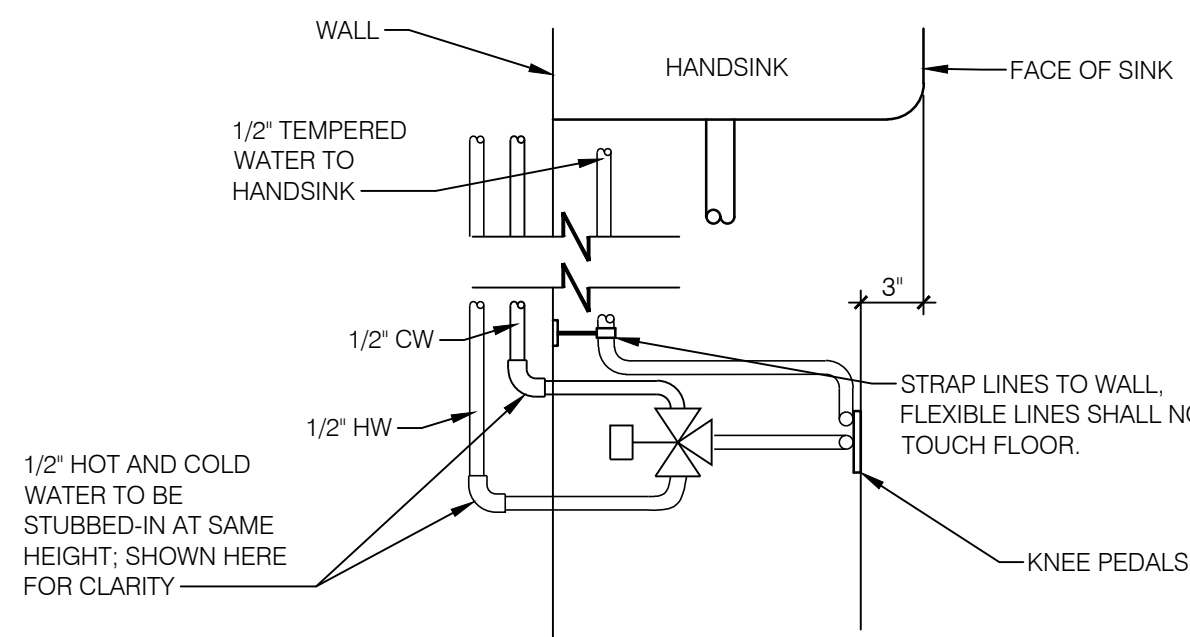
INDIRECT DRAIN AT MAKE TABLE	NTS	10
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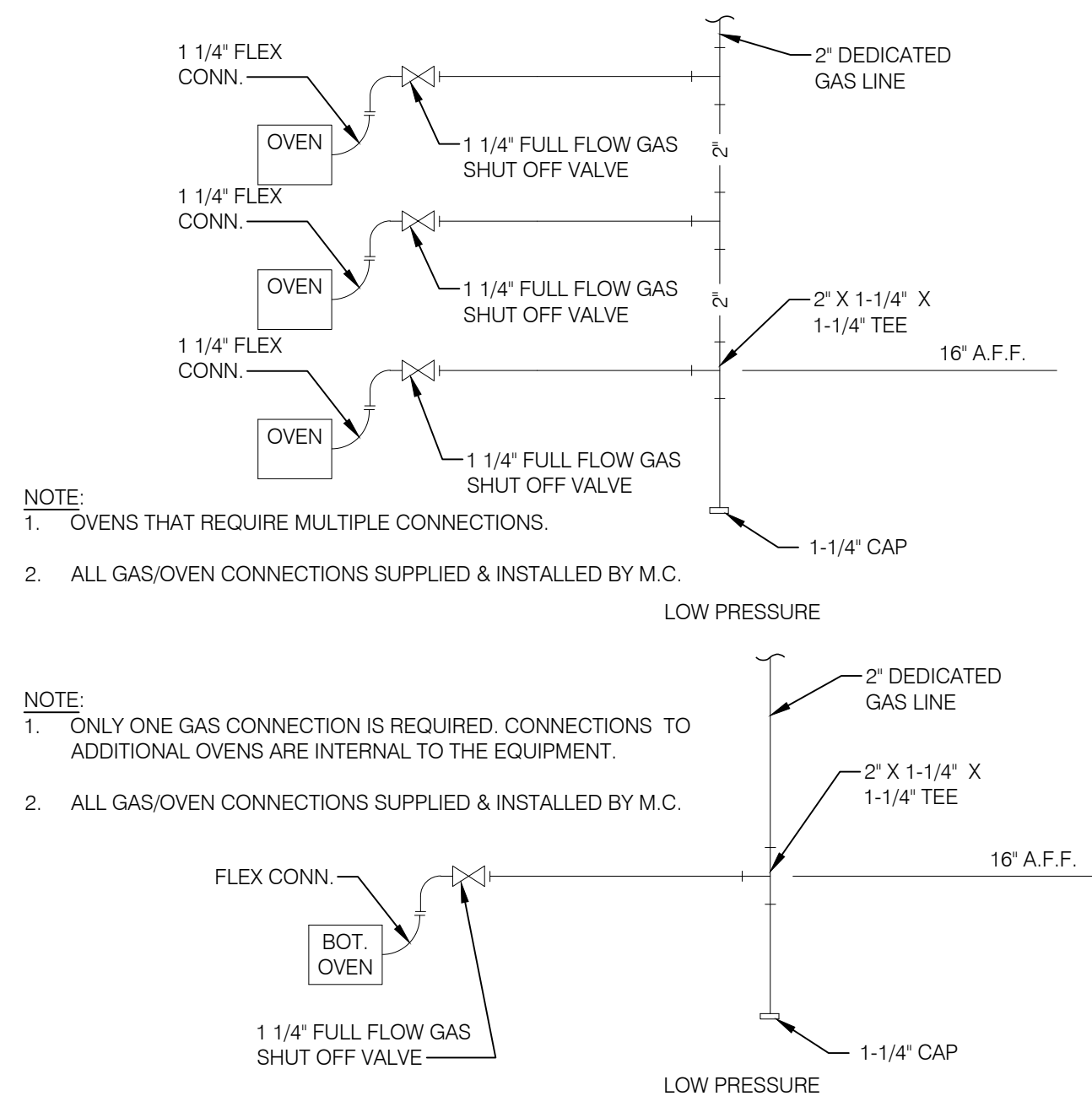
WATER HEATER	NTS	9
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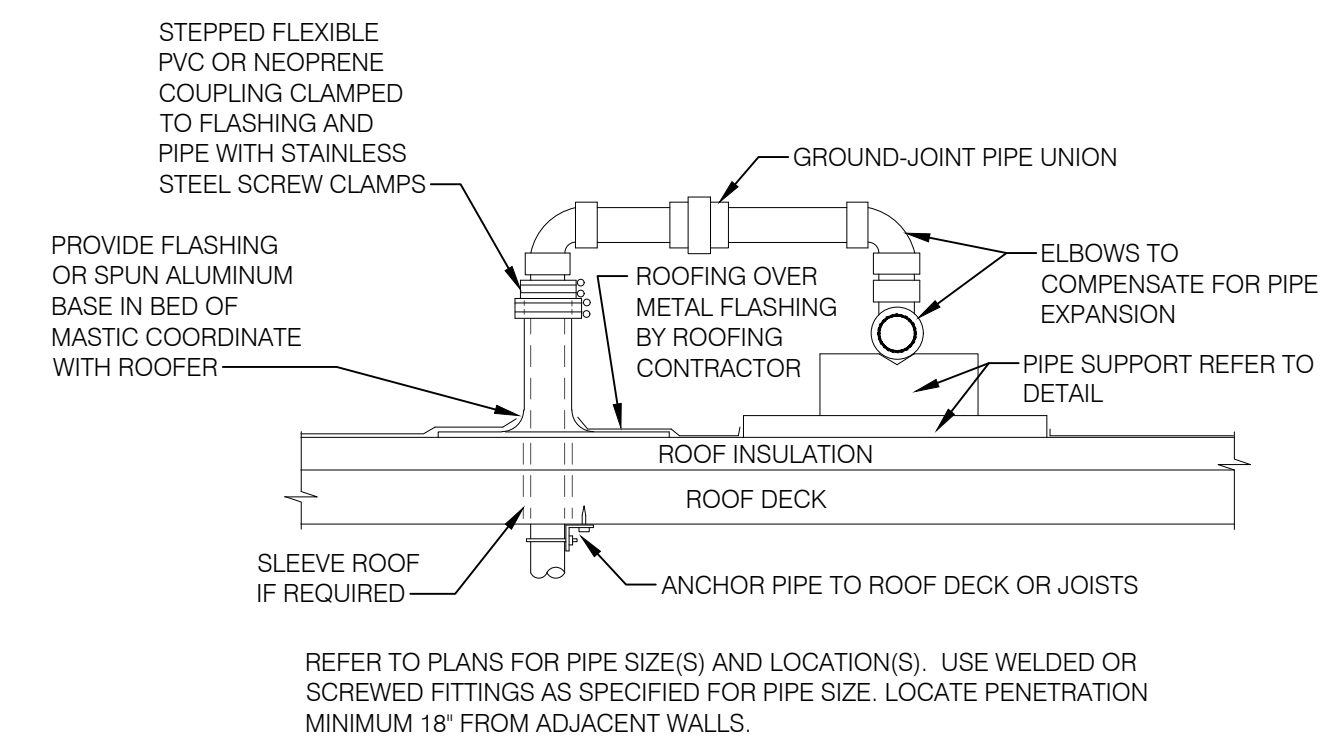
LAVATORY TEMPERING VALVE	NTS	8
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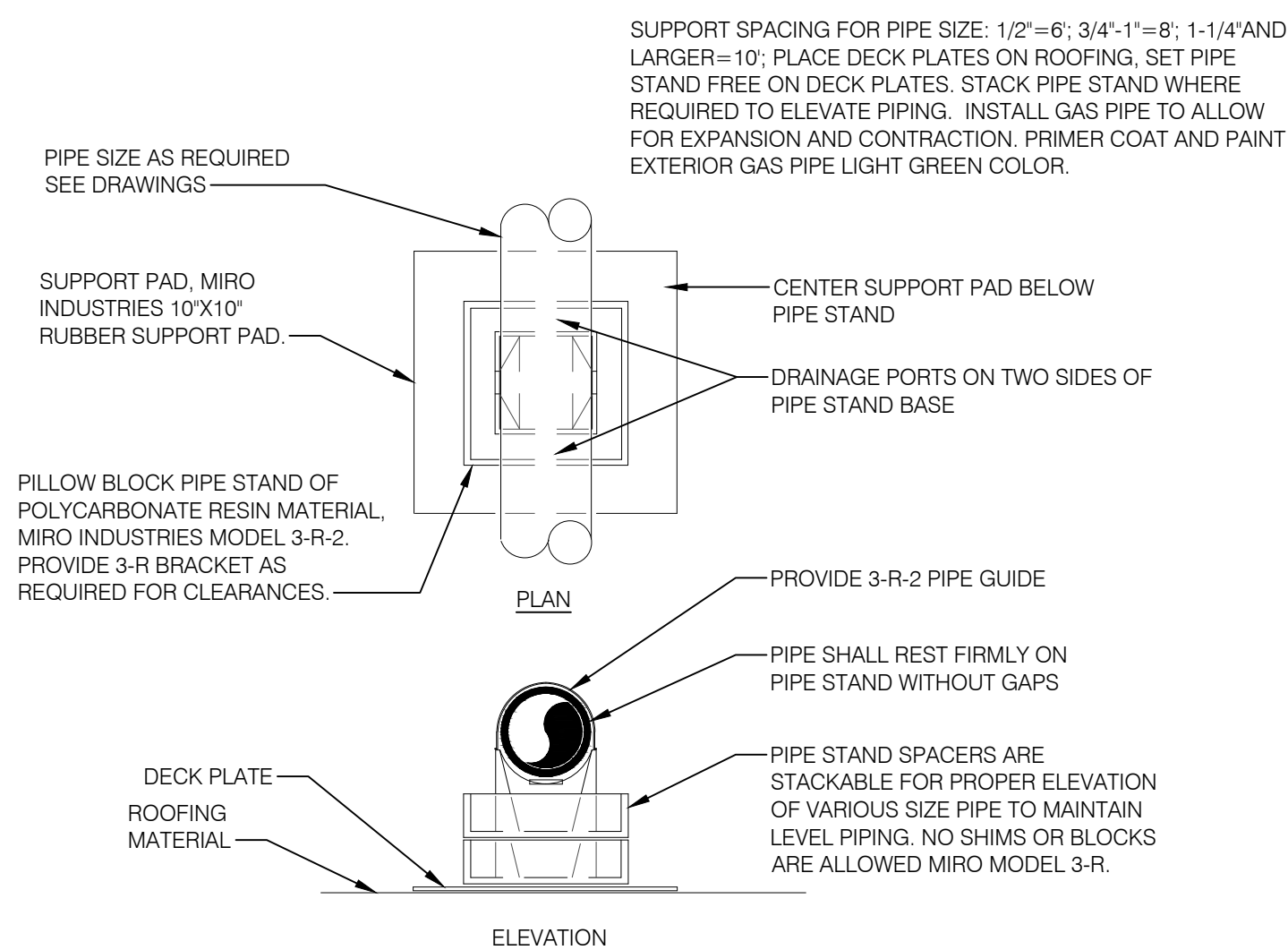
KNEE PEDAL DETAIL	NTS	7
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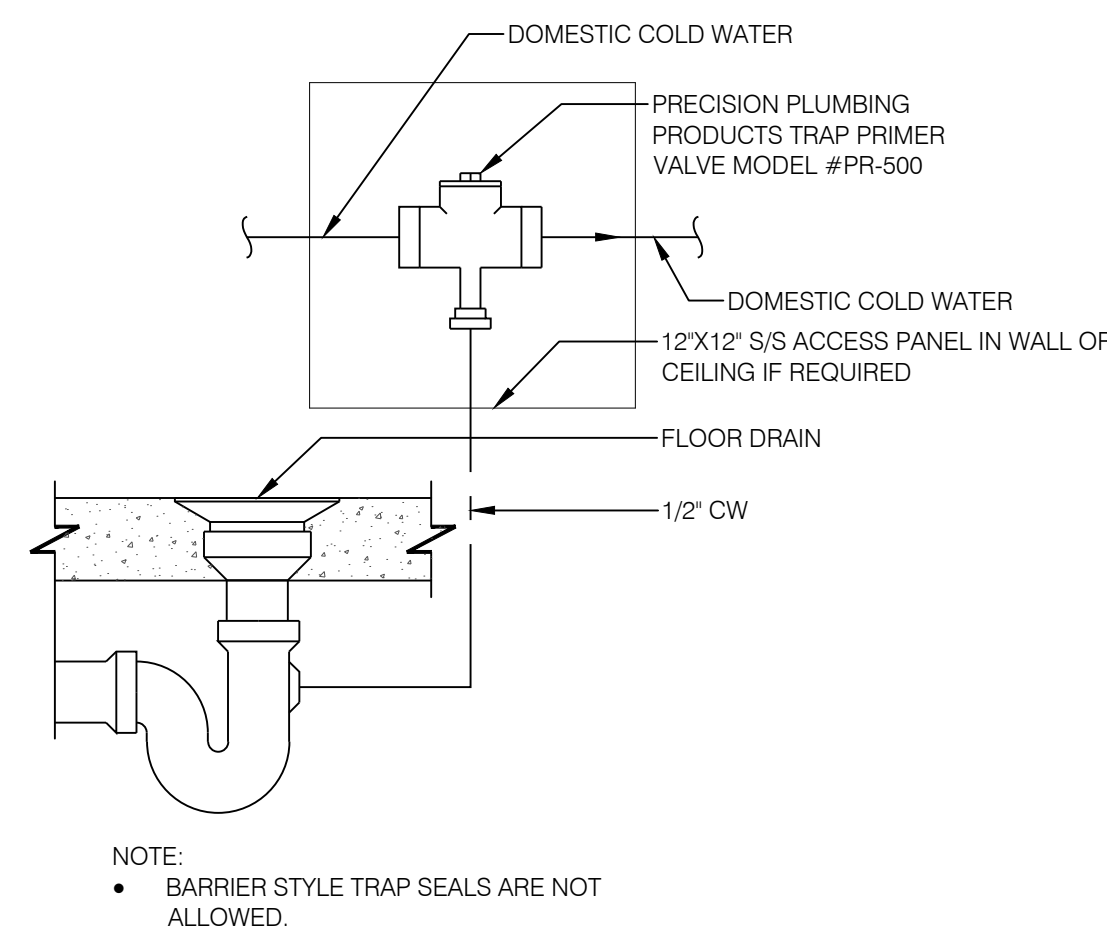
OVEN GAS CONNECTION	NTS	6
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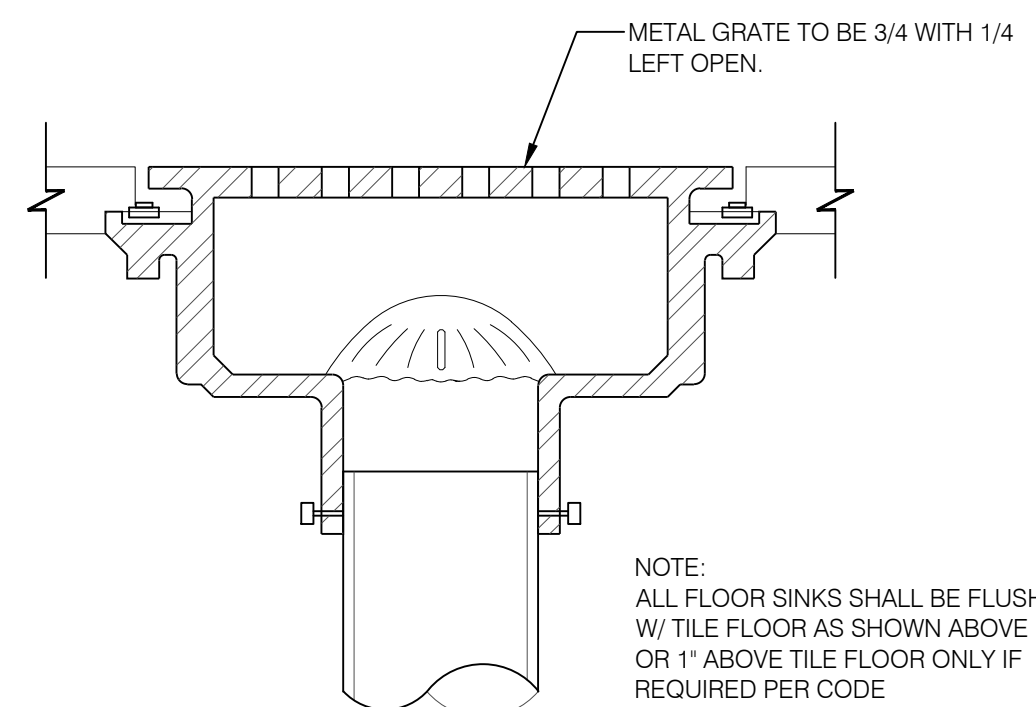
GAS PIPING ROOF PENETRATION	NTS	5
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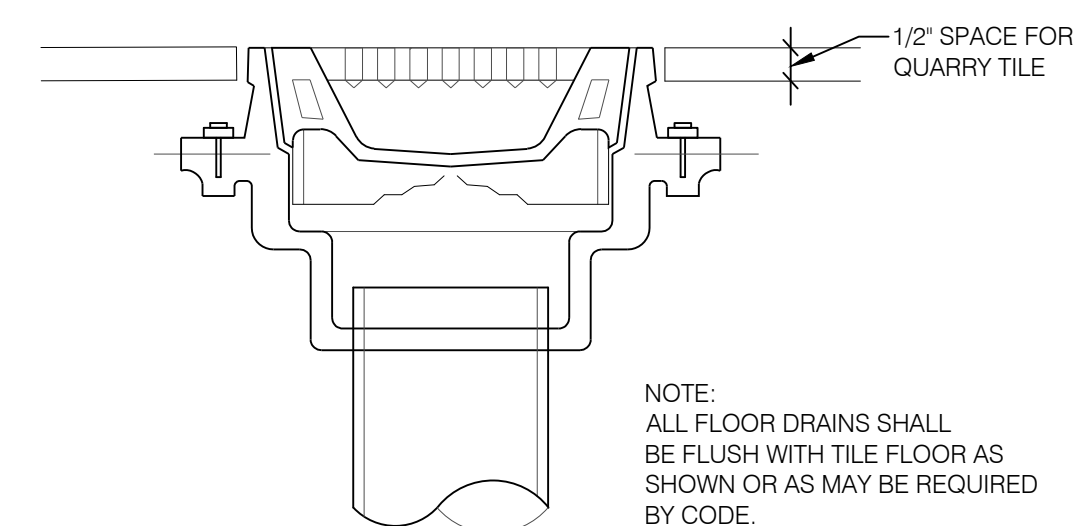
GAS PIPING ROOF SUPPORT	NTS	4
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TRAP PRIMER	NTS	3
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FLOOR SINK	NTS	2
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FLOOR DRAIN	NTS	1
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