

PIPING MATERIALS

SERVICE	SIZE	PIPE	FITTINGS	UNIONS AND FLANGES	JOINTS
WASTE AND VENT PIPING (ABOVE GRADE CONCEALED) (UNDER GRADE) (ABOVE GRADE EXPOSED ABOVE 14' AFF)	ALL	PVC PIPE & FITTINGS, DWV (ASTM D2685)	-	-	SOLVENT CEMENT, APPLY PURPLE PRIMER PRIOR TO APPLYING CEMENT, ASTM F656, ASTM D2564, ASTM D2855, ASTM F402
WASTE AND VENT PIPING (ABOVE GRADE EXPOSED PIPING BELOW 14' AFF)	ALL	SERVICE WEIGHT CAST IRON, CISPI 301	NO HUB	-	NEOPRENE GASKETS, ASTM C64
DOMESTIC COLD WATER AND HOT WATER PIPING WITHIN BUILDING	ALL	COPPER TUBE SEAMLESS TYPE "L" HARD TEMPER, ASTM B-88	CAST BRONZE	SWEAT-END UNIONS #150 BRASS GROUND JOINT CONNECT TO STEEL OR WITH DIELECTRIC ADAPTERS	SOLDERED 95-5 TIN ANTIMONY (LEAD CONTENT CERTIFIED LESS THAN 0.2%)
GAS PIPING ABOVE GRADE	2" AND LARGER	BLACK STEEL SCHEDULE 40, ASTM A 120, BUTT WELDED	FORGED STEEL BUTT WELDED SCHEDULE 40, ANSI B 16.9	#150 FORGED STEEL, FLAT FACED WELDNECK TYPE FLANGES, ANSI B 16.5	BUTT WELDED
GAS PIPING ABOVE GRADE	UNDER 2"	BLACK STEEL SCHEDULE 40, ASTM A 120, LAP WELDED	150# BLACK MALLEABLE IRON SCREWED, ANSI B16.3, BUSHINGS PROHIBITED	-	THREADED
CONDENSATE FOR CASES, HVAC (ROOFTOP UNITS)	ALL	PVC SCHEDULE 40	PVC	-	SOLVENT CEMENT, APPLY PURPLE PRIMER PRIOR TO APPLYING CEMENT, ASTM F656, ASTM D2564, ASTM D2855, ASTM F402

NOTES:

- PVC PIPING SHALL BE VERIFIED WITH LOCAL AUTHORITIES PRIOR TO SUBMITTING BID. CELLULAR FOAM CORE ABSOLUTELY NOT ALLOWED.
- PVC WILL NOT BE PERMITTED FOR DOMESTIC WATER PIPING, OR PIPING LOCATED IN ANY AIR FLENUMS.
- ALL EXPOSED SOIL AND WASTE PIPING BELOW 14' AFF OR VERTICAL SHALL BE SERVICE WEIGHT CAST IRON, NO HUB, CISPI #301, NO HUB OR SOLDERED TO SUIT PIPE, CISPI #310.

PLUMBING APPLIANCE/FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER MODEL #	SIZE	FAUCET/VALVE MANUF.	WASTE	TRAP	VENT	CW	HW	GAS	REMARKS
CS-7	3-COMPARTMENT SINK	STAINLESS STEEL	-	-	1-1/2"	-	1-1/2"	1/2"	1/2"	-	FURNISHED BY HARRIS TEETER, INSTALLED BY PLUMBING CONTRACTOR. P.C. TO PROVIDE ALL REQUIRED APPURTENANCES, INCLUDING SUPPLIES AND STOPS.
FR-2	FRYER	VULCAN	-	-	-	-	-	-	-	1/2"	FURNISHED BY HARRIS TEETER, INSTALLED BY PLUMBING CONTRACTOR. P.C. TO PROVIDE ALL REQUIRED APPURTENANCES FOR CONNECTION.
HS-1	HAND SINK	EXISTING RELOCATED	-	EXISTING RELOCATED	2"	1-1/2"	1-1/2"	1/2"	1/2"	-	FURNISHED BY HARRIS TEETER, INSTALLED BY P.C. P.C. TO PROVIDE ALL REQUIRED APPURTENANCES, INCLUDING SUPPLIES, STOPS AND CAST BRASS TRAP.
WK-1	WOK	AMERICAN RANGE	-	-	-	-	-	-	-	3/4"	FURNISHED BY HARRIS TEETER, INSTALLED BY PLUMBING CONTRACTOR. P.C. TO PROVIDE ALL REQUIRED APPURTENANCES FOR CONNECTION.
FS-1	FLOOR SINK	SILOUX CHIEF 861-4PN-2-D	10 3/4" SQUARE	-	4"	4"	2"	-	-	-	P.C. TO PROVIDE HALF GRATE.
HD-1	HUB DRAIN	-	-	-	3" PVC	3"	-	-	-	-	REFER TO DRAWINGS FOR LOCATION.
IM-1	ICE MACHINE	-	-	-	1/2"-3/4"	-	-	1/2"	-	-	FURNISHED BY HARRIS TEETER, INSTALLED BY PLUMBING CONTRACTOR. PIPE INDIRECT WASTE TO NEAREST EXISTING DRAIN.
WF-2	WATER FILTER	EVERPURE EV9324-21 INSURICE 2000	-	-	-	-	-	3/4"	-	-	FURNISHED BY HARRIS TEETER, INSTALLED BY PLUMBING CONTRACTOR. P.C. TO PROVIDE ALL REQUIRED APPURTENANCES FOR CONNECTION.

GENERAL NOTES

- DO NOT SCALE FROM THESE DRAWINGS.
 - DO NOT MAKE ANY CHANGES OR SUBSTITUTIONS WITHOUT SPECIFIC WRITTEN APPROVAL FROM THE ARCHITECT OR ENGINEER.
 - ALL INDICATED WORK SHALL BE PERFORMED BY THE PLUMBING CONTRACTOR UNLESS OTHERWISE NOTED.
 - REFER TO THE WRITTEN SPECIFICATIONS IN CONJUNCTION WITH THE PLANS FOR FULL PROJECT SCOPE.
 - IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO REVIEW THESE PLANS AND SPECIFICATIONS, AS WELL AS THE RELATED HVAC, ELECTRICAL, STRUCTURAL, REFRIGERATION, ENERGY MANAGEMENT, ARCHITECTURAL, INTERIOR DECOR AND SITE ENGINEERING DRAWINGS TO BECOME FAMILIAR WITH THE FULL PROJECT SCOPE. IN ADDITION, THIS CONTRACTOR MUST COORDINATE WITH AN OWNER REPRESENTATIVE TO FULLY UNDERSTAND ALL REQUIREMENTS WHICH MAY NOT BE SPECIFIED HEREIN AND WHICH THE OWNER MAY CONSIDER PART OF THIS CONTRACT. DURING THE COURSE OF CONSTRUCTION COORDINATION AND ACTUAL CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO WORK CLOSELY WITH ALL ACCOMPANYING CONTRACTORS AND TRADESMEN IN ORDER TO ENSURE A CAREFULLY COORDINATED AND SMOOTH INSTALLATION.
 - ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE BID DOCUMENTS OR BETWEEN THESE BID DOCUMENTS AND RELATED HVAC, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR DECOR AND SITE ENGINEERING DRAWINGS, OR BETWEEN THESE BID DOCUMENTS AND FIELD CONDITIONS OR LOCAL AUTHORITIES/CODES MUST BE BROUGHT TO THE ATTENTION OF THE OWNER, ARCHITECT AND ENGINEER PRIOR TO BID SUBMISSION.
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS INCLUDING BUT NOT LIMITED TO NATIONAL, CITY, STATE, LOCAL CODES AND ORDINANCES WHICH MAY BE IN EFFECT. ALL PLUMBING MATERIALS, INSTALLATION PROCEDURES AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES WITHIN JURISDICTION, AND IT SHALL BE THE PLUMBING CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS INSTALLATION.
 - THE PLUMBING CONTRACTOR MUST VISIT THE SITE AND NOTE ALL FIELD CONDITIONS AS WELL AS ALL CONDITIONS TO BE MET, PRIOR TO BID SUBMISSION. LACK OF A THOROUGH UNDERSTANDING OF THE PROJECT SCOPE AND CONDITIONS SHALL NOT CONSTITUTE AN EXCUSE FOR ERRORS OR OMISSIONS, NOR FOR A REQUEST FOR EXTRA COMPENSATION.
 - IT IS CRITICAL THAT THE PLUMBING CONTRACTOR FIELD VERIFIES ALL INVERTS PRIOR TO BID SUBMISSION. IF ANY CONFLICTS EXIST BETWEEN THE NEW PLUMBING SYSTEMS AND THE ON SITE SYSTEMS, THEY SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND THE ENGINEER PRIOR TO BID SUBMISSION. EXTRA COMPENSATION WILL NOT BE ALLOWED FOR ANY EXTRA WORK WHICH RESULTS FROM AN INABILITY TO MEET THE INVERTS OF THE ON SITE PIPING SYSTEMS.
 - THE PLUMBING CONTRACTOR SHALL PROVIDE A COMPLETE SET OF RECORD "AS-BUILT" DRAWINGS INDICATING THE PRECISE LOCATION OF ALL SYSTEMS, EQUIPMENT CONCEALED OR EMBEDDED PIPING, PIPING CONNECTIONS AND ACCESS DOORS. THESE DRAWINGS SHALL ALSO INCLUDE ALL CHANGES AND DEVIATIONS FROM BID DOCUMENTS.
 - ALL EXPOSED HORIZONTAL AND VERTICAL PIPING SHALL BE INSTALLED IN A NEAT ARRANGEMENT IN LOCATIONS WHICH ARE THE MOST INCONSPICUOUS. FINAL LOCATIONS OF VERTICAL DROPS SHALL BE COORDINATED AND RUN WITHIN CHASES. LOCATIONS ARE TO BE REVIEWED WITH AN OWNER REPRESENTATIVE AND ARCHITECT PRIOR TO INSTALLATION.
 - ALL DOMESTIC WATER BRANCH LINES SHALL HAVE THEIR OWN RESPECTIVE SHUT-OFF VALVES.
 - ALL REFRIGERATED CASES CONDENSATE PIPING SHALL BE PIPED TO HUB DRAINS BY THE REFRIGERATION CONTRACTOR. CONDENSATE PIPING SHALL BE AS SPECIFIED THIS SHEET.
 - BEFORE INSTALLING SYSTEMS, THE PLUMBING CONTRACTOR SHALL MEET WITH AN OWNER'S REPRESENTATIVE TO FIELD VERIFY THE EXACT LOCATION OF ALL PROPOSED EQUIPMENT WHICH MAY NOT BE CLEARLY INDICATED ON THE DRAWINGS.
- THE PLUMBING CONTRACTOR SHALL COORDINATE THE ENTIRE UNDERGROUND PLUMBING PIPING SYSTEM LOCATIONS AND INVERTS WITH THE REFRIGERATION PIPE CHASE, INCLUDING PITS AND PULLBOXES AS WELL AS ALL OTHER UNDERGROUND SYSTEMS.
 - ALL PLUMBING WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL PLUMBING CODES. PLUMBING CONTRACTOR TO BE COMPLETELY FAMILIAR WITH ALL CODES AND LOCAL REQUIREMENTS PRIOR TO SUBMITTING BID. THERE WILL BE NO ADDITIONAL COMPENSATION MADE FOR WORK BEING DONE DUE TO LACK OF KNOWLEDGE OF CODES AND LOCAL REQUIREMENTS.
 - ALL EXPOSED SOIL AND VENT LINES BELOW 14' AFF OR VERTICAL SHALL BE CAST IRON.
 - CONTRACTOR TO VERIFY EXACT LOCATION OF HUB DRAINS WITH THE OWNER PRIOR TO FINAL ROUGH-IN.
 - PROVIDE PIPING EQUIPMENT AND MATERIALS IN ACCORDANCE WITH APPLICABLE PLUMBING CODE REGULATIONS AND STANDARDS, AUTHORITIES HAVING JURISDICTION, AND AS OTHERWISE RECOMMENDED OR DIRECTED BY MANUFACTURERS.
 - COORDINATE INSTALLATION OF PIPING BELOW AND ABOVE GRADE WITH STRUCTURAL COMPONENTS AND OTHER SYSTEM INSTALLATIONS.
 - COORDINATE ALL FIXTURES, EQUIPMENT, PIPE ROUGH-IN CONNECTION LOCATIONS WITH ARCHITECTURAL DRAWINGS, OWNER AND FURNISHER OF EQUIPMENT PRIOR TO INSTALLATION.
 - NO SEWER OR VENT PIPE SHALL BE INSTALLED WITHIN ANY INSULATED COOLER OR FREEZER WALL.
 - ALL PIPING SHALL BE CONCEALED IN WALLS OR ABOVE CEILING UNLESS OTHERWISE NOTED.
 - DURING UNDERGROUND PLUMBING LINE ROUGH-IN, CONTRACTOR TO REVIEW REFRIGERATED CASE CATALOG CUTS (REF: ARCHITECTURAL DRAWINGS). CONTRACTOR TO VERIFY REFRIGERATED CASE LAYOUT.
 - CONDITIONS SHOWN ON THE PLANS RELATIVE TO THE WORK TO BE PERFORMED ARE BASED ON THE BEST INFORMATION AVAILABLE BUT ARE SUBJECT TO VERIFICATION. VERIFY LOCATIONS AND ELEVATIONS OF UTILITY TO BE CROSSED OR CONNECTED. CORRECT DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS AT NO EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT AND ENGINEER OF CONDITION IN CONFLICT WITH THE PLANS.
 - PIPE SIZES NOT INDICATED ON FLOOR PLAN, REFER TO RISER DIAGRAMS, SCHEDULE AND DETAILS.
 - ALL HD-1 SHALL HAVE 3" FIXTURE DRAINS UNLESS NOTED OTHERWISE.
 - MAINTAIN 24" FROM DRAIN OUTLET TO TRAP WEIR WHEN REQUIRED BY AHJ.
 - SPRINKLER CONTRACTOR SHALL PROVIDE ADDITIONAL SPRINKLER COVERAGE BELOW ALL AREAS OF REFRIGERATION PIPING OVER 4' IN WIDTH. REFER TO REFRIGERATION DOCUMENTS TO DETERMINE AREAS MEETING REQUIREMENT.
 - ALL DIMENSIONS SHOWN ARE BASED ON ARCHITECTURAL FIXTURE PLAN.
 - ALL FINAL LOCATIONS OF DRAINS AND STUB UPS SHALL BE COORDINATED WITH FINAL FIXTURE LAYOUT AND REVIEWED BY OWNER'S FIELD REPRESENTATIVE, REFRIGERATION CONTRACTOR, AND ARCHITECT PRIOR TO THE INSTALLATION.
 - SET DRAIN ELEVATION DEPRESSED BELOW FINISHED SLAB ELEVATIONS PER ARCHITECTURAL AND STRUCTURAL SLAB PLANS.
 - ALL HUB DRAINS, CONDENSATE FLOOR DRAINS, AND FLOOR SINKS TO BE ACCESSIBLE FOR MAINTENANCE.

APPLICABLE CODES

- BUILDING SIZE (SQ. FT.): EXISTING
- OCCUPANCY TYPE: MERCANTILE
- GOVERNING CODES & REFERENCES:
 - 2012 NORTH CAROLINA PLUMBING CODE
 - 2012 NORTH CAROLINA FUEL GAS CODE
- LOCATION: WILMINGTON, NC

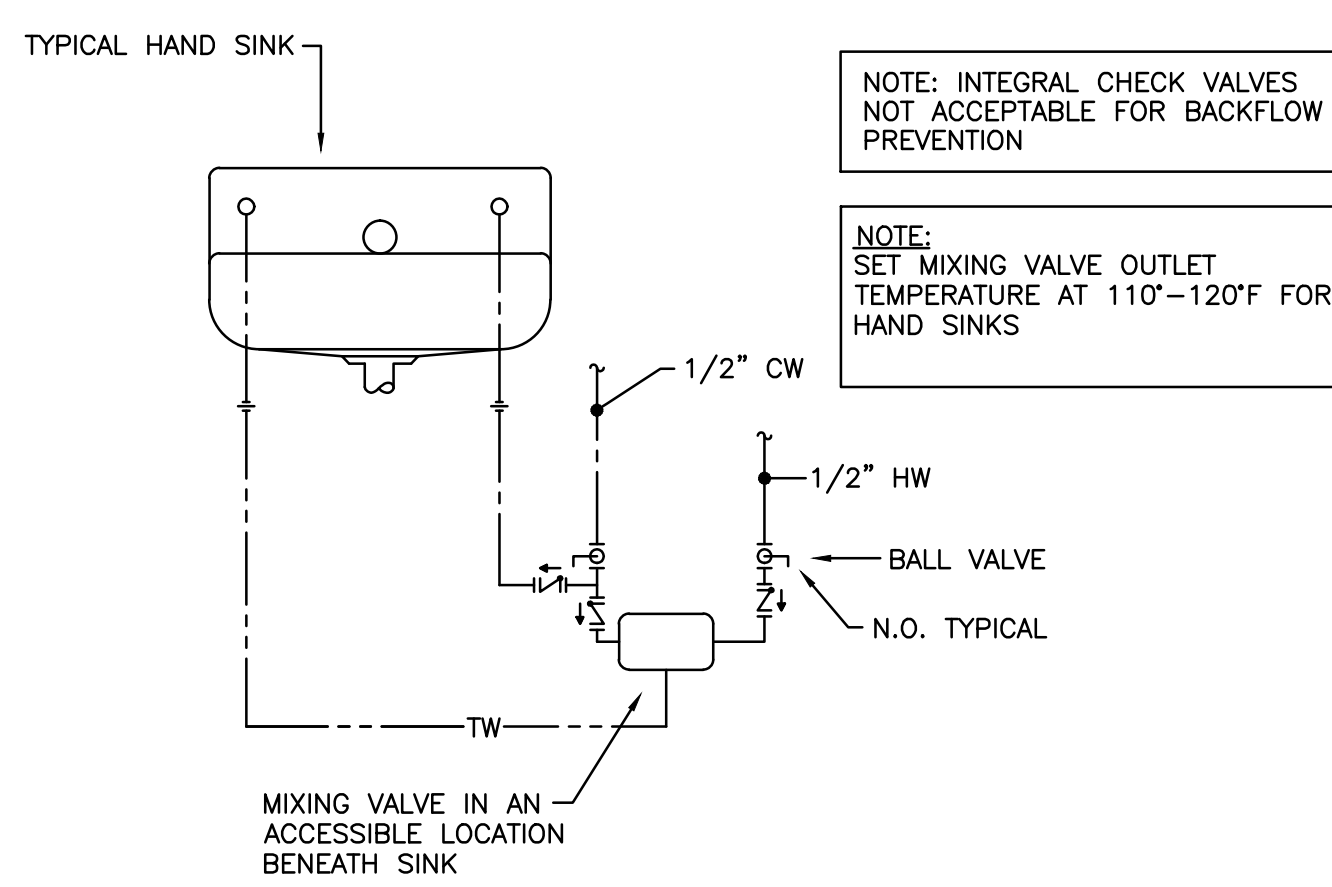
MISCELLANEOUS PLUMBING SCHEDULE

TAG	TMV-2	WHA-2
MANUFACTURER	SYMONS	PRECISION PLUMBING PRODUCTS (PPP)
TYPE	TEMPERING VALVE	WATER HAMMER ARRESTOR
MODEL#	7-210-CX	SC-500
CONNECTION	COMPRESSION	THREADED
SIZE	1/2"	1/2"
NOTES AND ACCESSORIES	3,4,5	1,2

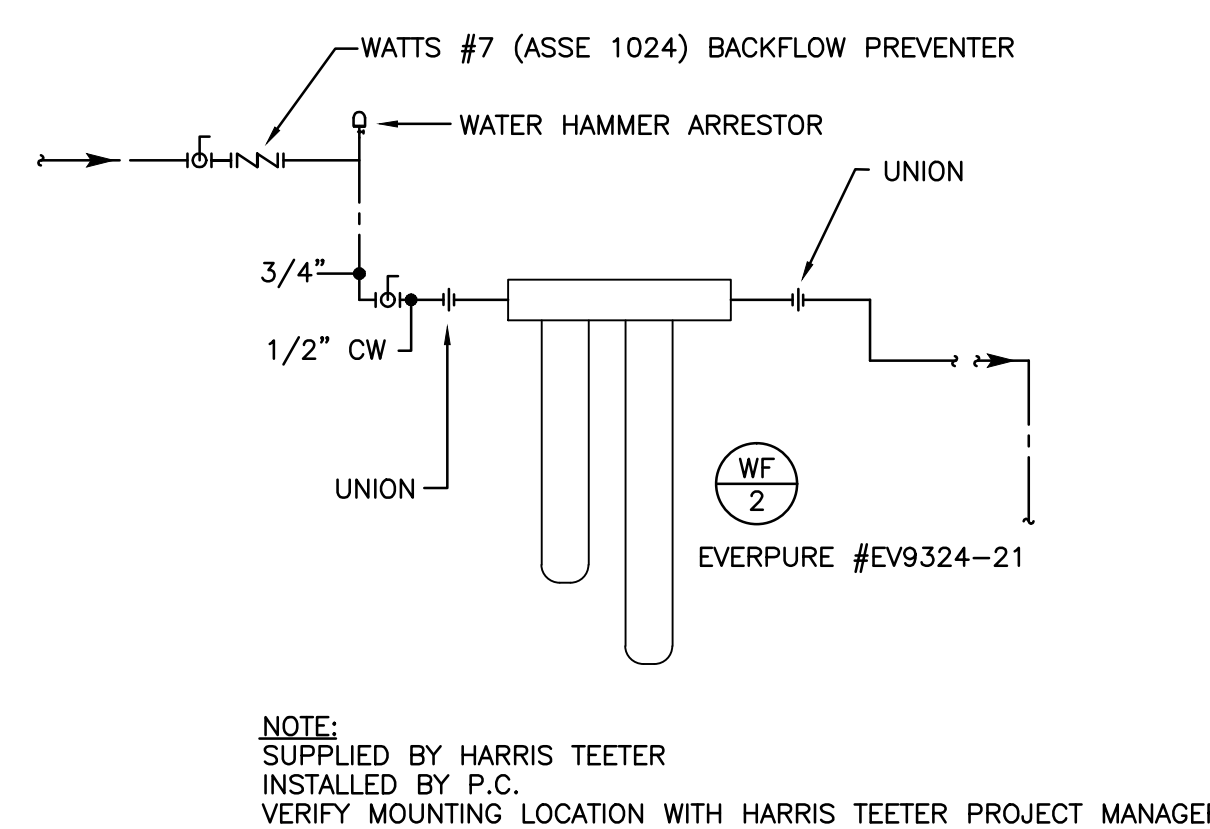
- P.D.I. AND/OR ASME APPROVED
- PISTON TYPE
- IN-LINE TYPE WITH IN-LINE CHECKS
- LOCATE AT ALL ADA SINKS AND LAVATORIES AND AT LOCATIONS REQUIRED BY AHJ
- SWEAT CONNECTION

PLUMBING SYMBOLS AND ABBREVIATIONS

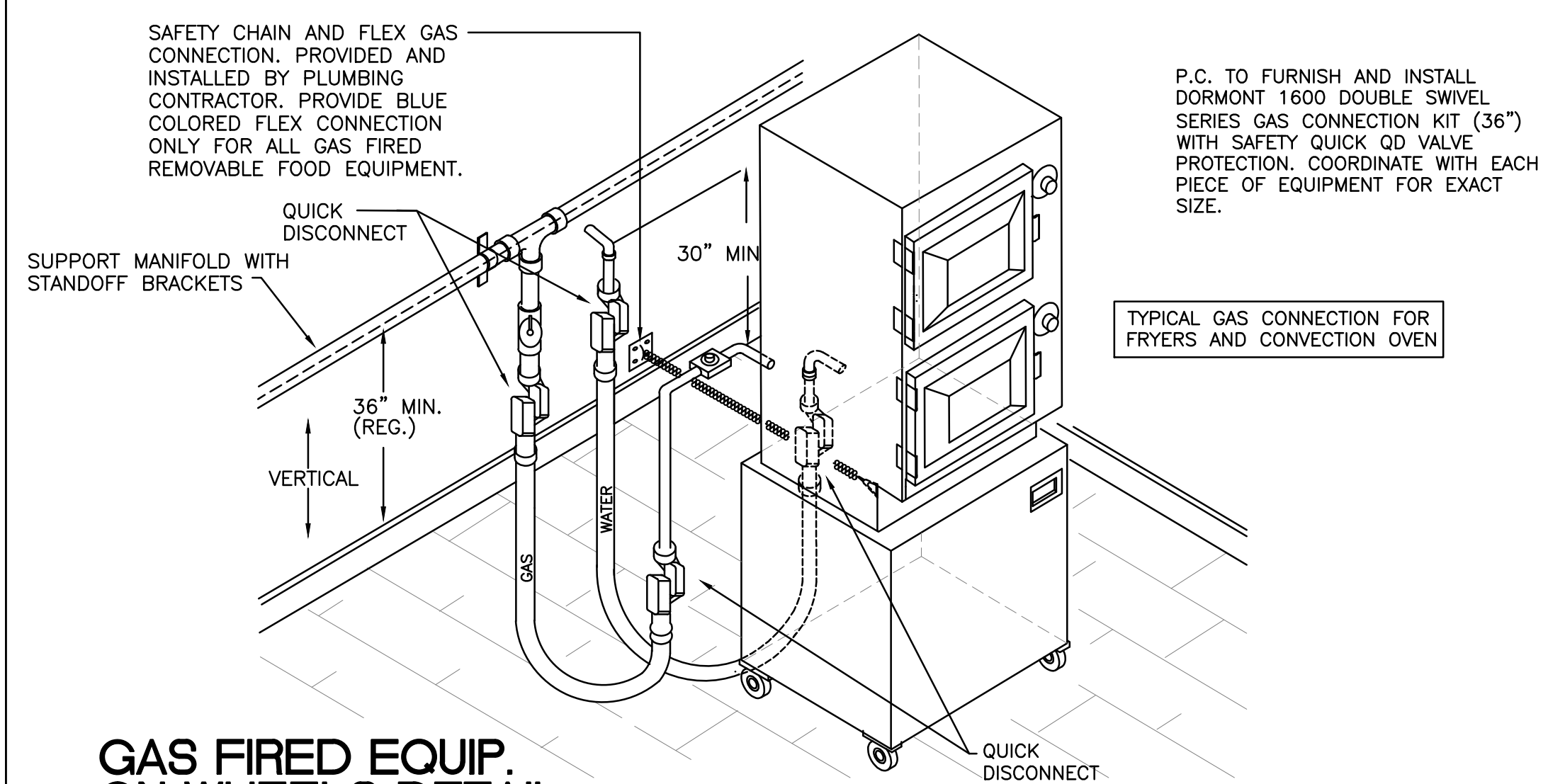
SYMBOL	DESCRIPTION AND/OR SPECIFICATION	SYMBOL	DESCRIPTION AND/OR SPECIFICATION
---	VENT PIPING	---	EXISTING GAS PIPING (G)
--- SAN ---	SANITARY PIPING	---	GAS PIPING (G)
--- GW ---	GREASE WASTE PIPING	---	GAS PRESSURE REGULATOR
---	EXISTING VENT PIPING	---	AGA APPROVED GAS VALVE
--- SAN ---	EXISTING SANITARY PIPING	---	MECHANICAL GAS VALVE
--- GW ---	EXISTING GREASE WASTE PIPING (GW)	o	BALL VALVE
---	EXISTING COLD WATER PIPING (CW)	U	UNION
---	EXISTING HOT WATER PIPING (HW)	P-T	P-TRAP/HUB DRAIN
---	EXISTING HOT WATER RECIRCULATING PIPING (HWR)	>	FLOW ARROW
---	COLD WATER PIPING (CW)	XX	EQUIPMENT FIXTURE DESIGNATION
---	HOT WATER PIPING (HW)	XX	PLAN OR DETAIL TAG
---	BRANCH-BOTTOM CONNECTION	XX-X	PLUMBING FIXTURE DESIGNATION
---	BRANCH-TOP CONNECTION	XX	KEYED NOTES
---	RISE THRU FLOOR OR ROOF	AHJ	AUTHORITY HAVING JURISDICTION
---	DROP OR RISE	AFB	ABOVE FINISHED FLOOR
---	INDIRECT WASTE (CONDENSATE)	AFG	ABOVE FINISHED GRADE
	HATCHING INDICATES ALL FIXTURES AND/OR PIPING TO BE REMOVED TO POINT INDICATED	BFF	BELOW FINISHED FLOOR
+	CONNECT NEW TO EXISTING AT POINT INDICATED	BFG	BELOW FINISHED GRADE
⊥	WATER HAMMER ARRESTOR (WHA)	DFU	DRAINAGE FIXTURE UNITS
		E.L.	EQUIVALENT LENGTH
		FW	FILTERED WATER
		TW	TEMPERED WATER



1 HAND SINK DETAIL
NO SCALE



2 WATER FILTER DETAIL (ICE MAKER)
NO SCALE



3 GAS FIRED EQUIP. ON WHEELS DETAIL
NO SCALE

HEALTH DEPARTMENT HOT WATER LOAD

EQUIP.	# FIXT.	GPH REQUIRED	TOTAL HW DEMAND (140°)
EXIST. 3-COMP SINK (30X24X14)	3	98	294
NEW 3-COMP CHEESE SINK (18X24X14)	1	59	59
EXIST. STARBUCKS 3-COMP SINK (16X20X14)	1	44	44
EXIST. 2-COMP. PREP SINK	1	10	10
EXIST. 1-COMP. PREP SINK/PURGE SINK	5	5	25
EXIST. HAND SINK/MOP SINK	9	5	45
EXIST. CAN WASH	1	10	10
EXIST. FLORAL/PHARM/EMP. LOUNGE SINK	2	5	10
NEW HAND SINK	1	5	5
TOTAL HW DEMAND			502

HEATING EQUIPMENT	MODEL #	# FIXT.	HW RECOVERY GPH	TOTAL HW RECOVERY (100° RISE)
EXIST. WATER HEATER	A.O. SMITH BTH-199	1	230	230
EXIST. HEAT RECLAIM TANK	THERMASTOR II-1	2	120	240
TOTAL RECOVERY				470

DRAWING INDEX

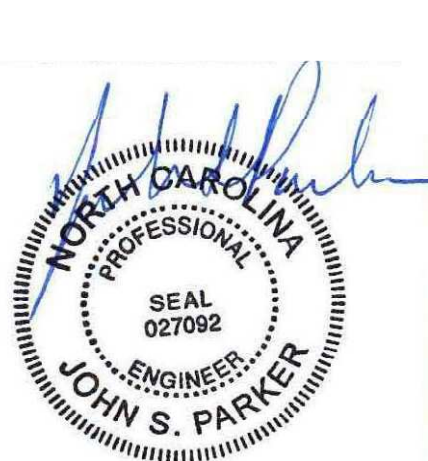
DWG. NO.	DRAWING TITLE
P1.1	PLUMBING SCHEDULES, LEGEND, DETAILS AND NOTES
P2.1	PARTIAL PLUMBING PIPING PLANS
P3.1	PLUMBING RISER DIAGRAMS

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WILMINGTON, NC



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PROJECT MANAGER
JOHN STADY

REVISIONS	Date
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PLUMBING SCHEDULES, LEGEND, DETAILS AND NOTES