

PLUMBING SPECIFICATIONS

THE WORK INCLUDES MODIFICATION TO THE EXISTING PLUMBING SYSTEM AND PROVIDING NEW MATERIALS, FITTINGS AND ACCESSORIES NECESSARY FOR 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. 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.

WARRANTY: PROVIDE LABOR AND MATERIALS TO REPAIR OR REPLACE DEFECTIVE PARTS AND MATERIALS AS REQUIRED FOR ONE YEAR AFTER SUBSTANTIAL COMPLETION OR OWNER ACCEPTANCE OF THE COMPLETED PROJECT. PROVIDE A SEPARATE LINE ITEM DEDUCT AMOUNT ON THE PROPOSAL FORM TO DELETE WARRANTY SERVICE, AT THE OWNER'S OPTION.

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 DIALECTIC UNION. ALL HANGERS SHALL BE COMPATIBLE WITH PIPING MATERIAL TO PREVENT CORROSION.

PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE PLUMBING SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED.

FIXTURES/EQUIPMENT FURNISHED BY OTHERS: PLUMBING CONTRACTOR SHALL PROVIDE UTILITY CONNECTIONS REQUIRED SUCH AS WATER, GAS, AIR, SUPPLIES, WASTE OUTLET, TRAPS, ETC. AT ALL PLUMBING TYPE FIXTURES OR EQUIPMENT FURNISHED BY OWNER, GENERAL CONTRACTOR, FOOD SERVICE CONTRACTOR, EQUIPMENT SUPPLIER, ETC. INCLUDED ARE STOP VALVES, ESCUTCHEONS, AND CHROME PLATED BRASS TUBING WITH COMPRESSION FITTINGS.

SEWER AND WASTE PIPING: PROVIDE ALL DRAINS AND SEWERS WITHIN THE SPACE WITH CONNECTION TO THE EXISTING DRAINAGE SYSTEMS ON-SITE. SANITARY DRAINAGE PIPING ABOVE FLOOR SHALL BE CO-EXTRUDED PVC DWV (SCHEDULE 40) PIPE, FITTINGS AND CONNECTIONS. SANITARY DRAINAGE PIPING BELOW GRADE SHALL BE CO-EXTRUDED PVC DWV (SCHEDULE 40) PIPE WITH SOLVENT WELD FITTINGS MAY BE USED (WHERE PERMITTED BY CODE/LOCAL AUTHORITIES). 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 SYSTEM OF STANDARD WEIGHT CAST IRON NO-HUB VENT RISERS WHERE THE CEILING SPACE IS USED AS A RETURN AIR PLENUM OR USE CO-EXTRUDED PVC DWV (SCHEDULE 40) PIPE (WHERE PERMITTED BY CODE/LOCAL AUTHORITIES) WHERE THERE IS A DUCTED RETURN AIR SYSTEM. DO NOT USE PVC PIPE IN RETURN AIR PLENUM SPACES. THE VENT SYSTEM SHALL BE CARRIED THROUGH THE ROOF WITH APPROPRIATE FLASHING.

CONDENSATE AND INDIRECT DRAIN PIPING: PIPING ABOVE FLOOR SHALL BE CO-EXTRUDED PVC DWV (SCHEDULE 40) PIPE, FITTINGS AND CONNECTIONS. PIPING BELOW GRADE SHALL BE CO-EXTRUDED PVC DWV (SCHEDULE 40) PIPE WITH SOLVENT WELD FITTINGS.

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 OBTAIN CLEAR VIEW.

WATER DISTRIBUTION PIPING: LAYOUT WATER PIPING SO THAT THE ENTIRE SYSTEM CAN BE DRAINED. HOT AND COLD WATER PIPING SHALL BE 1/2" MIN. CPVC PIPE WITH SOLVENT FITTING. PROVIDE WATER HAMMER ARRESTERS AT EACH FIXTURE OR GROUP OF FIXTURES AS REQUIRED. INSTALL CHROME PLATED BRASS ESCUTCHEON PLATES AT ALL PENETRATIONS THROUGH FINISHED SURFACES (INCLUDING CABINET INTERIORS).

PIPE INSULATION: INSULATE (AS ALLOWED BY CODE) ALL LISTED SERVICE PIPING AS FOLLOWS. DOMESTIC COLD/HOT WATER, HOT WATER RETURN, STORM WATER PIPING. PROVIDE 1" PREFORMED FIBERGLASS, ASJ/SS-11, FLAME SPREAD 25, SMOKE DEVELOPED 50, ASTM C-547, FOR CONDENSATE PIPING PROVIDE 1/2" THICK INSULATION OF SAME CHARACTERISTICS AS LISTED FOR 1" ABOVE. WHERE PERMITTED BY LOCAL CODES, PROVIDE 1/2" SELF-ADHESIVE UNCELLULAR FOAM PIPE INSULATION WITH PRE-FORMED PVC FITTING COVERS - EQUAL TO SELF-ADHESIVE ARMSTRONG 2000 WITH K FACTOR OF 0.27 AT 75 DEGREES MEAN TEMPERATURE. INSULATE ANY EXPOSED CONDENSATE PIPING WITH WASTE TEMPERATURE 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 JENKINS #902-T BALL VALVE, CHROME-FINISHED BRONZE, TEFLON SEALS AND PACKING, 400 LB. W.O.C., SOLDER END.

ACCESS PANELS SHALL BE PROVIDED WHERE CONCEALED CONTROL DEVICES, VALVES, ETC. ARE CONCEALED WITHIN WALLS, WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS POSSIBLE THROUGH LAY-IN SUSPENDED CEILING. ACCESS PANELS ARE NOT REQUIRED.

PIPING SYSTEM - PVC SCHEDULE 40, SCHEDULE 80 AND CPVC PIPE WITH SOLVENT FITTINGS SHALL BE USED WHERE PERMITTED BY CODE/LOCAL AUTHORITIES.

INSTALLATION: THOROUGHLY CLEAN ITEMS BEFORE INSTALLATION. CAP PIPE OPENINGS TO EXCLUDE DIRT INTO BUILDING STRUCTURE. IF 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.

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

ROOF PENETRATIONS SHALL COMPLY WITH "SMACNA" AND "IMCA" STANDARDS, AND WITH THE REQUIREMENTS OF THE EXISTING ROOFING WARRANTY, IF APPLICABLE. DO NOT PERFORM ROOFING PENETRATIONS IN A MANNER WHICH WOULD VOID OR OTHERWISE LIMIT THE EXISTING ROOFING WARRANTY.

GENERAL NOTES

- THE INTENT OF THESE PLANS AND SPECIFICATIONS IS TO INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND SERVICES NECESSARY TO FURNISH, INSTALL, TEST, AND ADJUST A COMPLETE WORKABLE PLUMBING INSTALLATION AS SHOWN, PRESCRIBED, OR REASONABLY IMPLIED BUT NOT LIMITED TO THAT EXPLICITLY INDICATED IN THE CONTRACT DOCUMENTS, BUT NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE INTENT THEREOF.
- THE ENTIRE INSTALLATION SHALL CONFORM TO THE APPLICABLE CODES AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION. IN THE EVENT OF CONFLICT BETWEEN SPECIFICATIONS, CODES, AND REGULATIONS, THE MORE RESTRICTIVE SHALL APPLY.
- COORDINATE ENTIRE INSTALLATION OF THE PLUMBING SYSTEM WITH THE WORK OF OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS. REPORT ANY DISCREPANCIES, IN WRITING, TO THE ENGINEER PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS WITH ALL CHANGES NOTED THEREON AT THE COMPLETION OF THE PROJECT IN ACCORDANCE WITH THE SPECIFICATIONS.
- PROVIDE ONE YEAR WARRANTY ON ALL PARTS AND LABOR.
- THE DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW SCOPE. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES TO PROVIDE THE BEST ARRANGEMENT OF ALL DUCT, PIPE, CONDUIT, ETC.
- ALL CUTTING AND PATCHING OF THE EXISTING STRUCTURE SHALL BE PROVIDED UNDER OTHER SECTIONS OF THE WORK. PROVIDE NECESSARY REQUIREMENTS TO THE PROJECT SUPERINTENDENT.
- ALL HOT WATER PIPING AND RECIRCULATION PIPING (EXCEPT RUNOUTS 12 FT. OR SHORTER TO INDIVIDUAL FIXTURES) SHALL BE INSULATED TO MEET THE REQUIREMENTS OF THE APPLICABLE CODE.
- CONDENSATE DRAINS SHALL BE PROVIDED FOR EACH AIR CONDITIONING UNIT. HORIZONTAL CONDENSATE DRAINS ABOVE ANY CEILING SHALL BE INSULATED WITH MIN. 3/8" THICK CLOSED CELL INSULATION.
- PIPING:
 - WASTE, VENT, AND STORM DRAIN PIPING SHALL BE CO-EXTRUDED PVC SCHEDULE 40
 - WATER PIPE OUTSIDE SHALL BE SCHEDULE 40 PVC INSIDE SHALL BE SCHEDULE 40 CPVC.
 - CONDENSATE PIPING SHALL BE CO-EXTRUDED PVC (SCHEDULE 40) PIPE
 - INSIDE GAS PIPING SHALL BE BLACK IRON SCHEDULE 40 WITH MALLEABLE IRON FITTINGS. OUTSIDE SHALL BE GALVANIZED IRON SCHEDULE 40 WITH GALVANIZED FITTINGS. GAS LINE TO BE PAINTED GRAY IN COLOR. A 24-HOUR METERED GAS TEST SHALL BE REQUIRED.
 - ALL PIPING NOT ENCLOSED IN CONDITION SPACE OR AT EXTERIOR WALLS SHALL BE INSULATED.
 - PIPING: PVC SCHEDULE 40, SCHEDULE 80 CPVC PIPING WITH SOLVENT WELD FITTINGS SHALL BE USED WHERE PERMITTED BY CODE/LOCAL AUTHORITIES

- ALL VENTS OR EXHAUSTS SHALL BE AT LEAST 10 FT. AWAY OR 3 FT. ABOVE ANY WINDOW, DOOR, OPENING, OR AIR INTAKE.
- CLEANOUTS SHALL BE INSTALLED PER THE APPLICABLE CODE.
- PROVIDE WATER TIGHT FLASHINGS WHEREVER PIPES PASS THROUGH EXTERIOR WALLS, ROOFS, OR FLOORS.
- PROVIDE ISOLATION FOR ALL PIPES THAT COME IN CONTACT WITH THE STRUCTURE.
- LOCATION OF EXISTING UTILITIES AND POINTS OF CONNECTION ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND DEPTHS OF EXISTING UTILITIES AND SERVICES PRIOR TO STARTING WORK OF THIS SECTION. IF INDICATED POINTS OF CONNECTION CANNOT BE MADE TO EXISTING UTILITIES AS FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO INSTALLING ANY WORK WHICH MAY BE AFFECTED.
- VALVES SHALL BE NIBCO, JENKINS, HAMMOND, RED & WHITE OR APPROVED EQUAL. SERVICE PRESSURE SHALL BE SUITABLE FOR SERVICE INTENDED. THE MAIN WATER SHUT-OFF VALVE SHALL BE A FULL PORT BALL TYPE AND APPROVED FOR SERVICE INTENDED.
- CONTRACTOR SHALL PROVIDE ALL SHUT OFF VALVES AS NECESSARY TO ISOLATE ANY EQUIPMENT, PLUMBING ITEMS, OR FIXTURES, THAT MAY NEED SERVICING OR ARE SUBJECT TO FAILURE WHETHER OR NOT SUCH VALVES ARE SHOWN ON THE DRAWINGS.
- PROVIDE HANGERS AND SUPPORTS AS REQUIRED. PLUMBERS TAPE AND WIRE ARE NOT ACCEPTABLE.
- CONTRACTOR IS RESPONSIBLE FOR HIS OWN TRENCHING, BACKFILL, AND COMPACTION OF TRENCHES NECESSARY TO COMPLETE HIS SCOPE OF WORK. BACKFILLED TRENCHES SHALL BE RETURNED TO THEIR ORIGINAL GRADE UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL AFFIX A MAINTENANCE LABEL TO ALL EQUIPMENT REQUIRING ROUTINE MAINTENANCE AND SHALL PROVIDE MAINTENANCE AND OPERATIONAL MANUALS IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL EQUIPMENT THAT REQUIRES KEYS OR SPECIAL TOOLS TO OPERATE SHALL SUPPLY THE OWNER WITH TWO OF ANY SUCH KEYS OR TOOLS FOR EACH PIECE OF EQUIPMENT THAT REQUIRE THE SAME.
- ANY CHANGE OR DEVIATION FROM THESE PLANS OR SPECIFICATIONS SHALL REQUIRE THE APPROVAL, IN WRITING, OF THE ENGINEER PRIOR TO COMMENCEMENT OF SUCH WORK.
- ALL PLUMBING, ELECTRICAL, AND GAS LINES SHALL BE CONCEALED WITHIN THE BUILDING STRUCTURE TO AS GREAT EXTENT AS POSSIBLE. ALL LINES NOT CONCEALED SHALL BE SECURED 6" OFF THE FLOOR AND 3/4" FROM THE WALLS USING STANDOFF BRACKETS
- AN APPROVED BACKFLOW PREVENTOR SHALL BE PROPERLY INSTALLED UPSTREAM OF ANY POTENTIAL HAZARD BETWEEN THE POTABLE WATER SUPPLY AND SOURCE OF CONTAMINATION.
- WATER SUPPLY CARBONATORS SHALL BE PROTECTED BY AN APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTOR. THE RELIEF VALVE SHALL DRAIN IN-DIRECTLY TO A FLOOR SINK WITH A 1" MIN. AIR GAP.
- COMMERCIAL COOKING APPLIANCES INSTALLED ON CASTERS AND APPLIANCES THAT ARE MOVED FOR CLEANING AND SANITATION PURPOSES SHALL BE CONNECTED TO THE PIPING SYSTEM WITH AN APPLIANCE CONNECTOR LISTED AS COMPLYING WITH ANSI Z21.69/CSA 6.16. THE COMMERCIAL COOKING APPLIANCE CONNECTOR INSTALLATION SHALL BE CONSIDERED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. MOVEMENT OF APPLIANCES WITH CASTERS SHALL BE LIMITED BY A RESTRAINING DEVICE INSTALLED IN ACCORDANCE WITH THE CONNECTOR AND APPLIANCE MANUFACTURER'S INSTRUCTIONS.

PLUMBING FIXTURE SCHEDULE

ITEM	FIXTURE	COLD WATER	HOT WATER	WASTE	TRAP	VENT	DESCRIPTION
WC-1	WATER CLOSET	3/4"	-	3"	INT.	2"	AMERICAN STANDARD CHAMPION-PRO FLOOR MOUNTED OUTLET (ADA), MODEL 211AA104, VITREOUS CHINA WHITE, 12" ROUGH-IN SPKRN JET, ELONGATED CLOSET FRONT TOILET SEAT WITH COVER, RIGHT SIDE FLUSH LEVER, 1.28GPF
LAV-1	LAVATORY	1/2"	1/2"	2"	1-1/2"	1-1/2"	KOHLER GREENGLAZED WALL MOUNTED MODEL K-2030-R (ADA), 20-3/4"X18-1/4"X16", CONCEALED ARM CARRIER, SINGLE HOLE CENTER, K-2030-R-TWP WITH THERMO-DRAIN GRID, FAUCET: AMERICAN STANDARD INTEGRATED TOUCHLESS FAUCET, CLEAN R. DC POWER BATTERY POWER SELECTORIC FAUCET.
3-COMP	3-COMP SINK	1/2"	1/2"	2"	2"	1-1/2"	REGENCY 54" 16-GAUGE STAINLESS STEEL THREE COMPARTMENT COMMERCIAL SINK WITH STAINLESS STEEL LEGS, CROSS BRACING, AND WITHOUT DRABBOARD - 15" X 15" X 12" BOWLS
MS-1	MOP SINK	1/2"	1/2"	2"	1-1/2"	1-1/2"	FIAT PRODUCTS NIBBOTEN4 MOLDED STONE INTEGRAL DRAIN, WITH QIC5N P/ DRAIN, 83AA SERVICE FAUCET, 83AA HOSE & HOSE BRACKET, 83BC2 MOP HANGER, 83AA SILICONE SEALANT, 83AA VINYL BUMPERBOARD, 16GSSA STAINLESS STEEL WALL GUARD.
KS-1	KITCHEN SINK	1/2"	1/2"	2"	2"	1-1/2"	KROHNE METAL MODEL NO. HS-26L HAND SINK, WALL MOUNT, 15-3/4"X15-1/4"X10-3/8"X10. SINK/BACKSPASH: 15-1/2" WIDE X 8-3/4" FRONT TO BACK X 5-5/8" DEEP BOWL, 4" OC SPLASH MOUNT FAUCET, 4-1/2" DOUBLE BEND FAUCET (LOW LEAD COMPLAINT), 1.34" H/SE SPLASHES ON LEFT & RIGHT
FS-1	FLOOR SINK	-	-	3"	3"	2"	ZURN FFD-370 12" X 12" P/80652 PVC BODY FLOOR SINK WITH FULL RIM AND SEDIMENT BUCKET STRAINER, COORDINATE GRATE CONFIGURATION WITH KITCHEN ROUGH IN PLUMBING (OR APPROVED EQUAL)
FD-1	FLOOR DRAIN	-	-	2"	2"	1-1/2"	SIXX CHEF MODEL 833 SERIES, 6-1/2" DIAMETER NICKEL BRONZE STRAINER, ROUND FLOOR DRAIN CAST IRON BODY WITH FLANGE, TRAP POWER CONNECTION, ADJUSTABLE NICKEL BRONZE STRAINER DESIGN IN ACCORDANCE WITH ASTM12.87-01
HB-1	HOSE BIBB	1/2"	1/2"	2"	1-1/2"	1-1/2"	SEE ARCHITECTURAL FOR SPECIFICATIONS.
HWS-1	HAND SINK	1/2"	1/2"	2"	1-1/2"	1-1/2"	ADVANCE TABCO/ SC-12-15-X

PLUMBING - FIXTURES UNITS

FIXTURE	TOTAL	WASTE		WATER	
		DFU	TOTAL	WSFU	TOTAL
WATER CLOSET	2	4.0	8.0	2.5	5.0
LAVATORY	2	1.0	2.0	1.0	2.0
FLOOR DRAIN	2	2.0	4.0	-	-
3-COMP. SINK	1	-	-	2.0	2.0
KITCHEN SINK	1	3.0	3.0	1.5	1.5
MOP SINK	1	3.0	3.0	3.0	3.0
FLOOR SINK	1	2.0	2.0	-	-
HOSE BIBB	1	-	-	2.5	2.5
TOTAL	-	-	22.0	-	16.0

WATER HEATER SCHEDULE

MARK	MANUFACTURER	QUANTITY	AREA SERVED	STATUS UNIT	FLOW RATE (GPM OR GPD)	NOTES
TWH-1	HAMMILL WPE-240A2	1	BUILDING	90,000	16.0 GPM	G
NOTES						
A. TWO PIPE DIRECT VENT SYSTEM						

PIPE MATERIAL SCHEDULE

SERVICE		COPPER	COPPER	COPPER	CAST	BLACK	GALV.	VTRI.	ABS	SCH.40 PVC	SCH.40 CPVC	REMARKS
		TYPE 'M'	TYPE 'L'	TYPE 'K'	IRON	STEEL	STEEL	CLAY				
WATER PIPING	INSIDE											
	OUTSIDE									X	X	
SANITARY DRAIN	INSIDE									X		
	OUTSIDE									X		
SANITARY VENT	INSIDE									X		
	OUTSIDE									X		
GAS PIPING	INSIDE					X						
	OUTSIDE						X					
STORM DRAIN	INSIDE									X		
	OUTSIDE									X		
INDIRECT DRAINAGE	INSIDE									X		
	OUTSIDE									X		
CONDENSATE	INSIDE									X		
	OUTSIDE									X		
COMPRESSED AIR	INSIDE					X						
	OUTSIDE						X					
NOTES:												

SPECIAL NOTICE TO CONTRACTORS

- ALL CONTRACTORS (GENERAL CONTRACTOR AND SUB-CONTRACTORS) BIDDING THIS PROJECT ARE REQUIRED TO VISIT THE JOB SITE AND VERIFY THE EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID. CONTRACTORS ARE TO CAREFULLY REVIEW ALL CONSTRUCTION DOCUMENTS AND NOTE ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND THE CONDITIONS OBSERVED AT THE JOB SITE PRIOR TO SUBMISSION OF ANY BID. THE BUILDING OWNER REPRESENTATIVE LISTED BELOW MAY BE CONTACTED FOR ACCESS TO THE JOB SITE.
- CONTRACTORS ARE RESPONSIBLE FOR VERIFYING THE LOCATION AND CONDITION OF ALL POINTS OF CONNECTION, LOCATION AND CONDITION OF ALL BUILDING (ROOF/FLOOR/CEILING) PENETRATIONS, LOCATION AND CONDITION OF ALL UTILITIES AND BUILDING SYSTEMS INCLUDING, BUT NOT LIMITED TO, GAS, WATER, SEWER, VENT, ELECTRICAL, BUILDING MECHANICAL SYSTEMS, DUCT CONNECTIONS, EXHAUST/OUTSIDE AIR CONNECTIONS, SECURITY, FIRE ALARM, DATA, AND PHONE PRIOR TO SUBMISSION OF THEIR BID.
- ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND THE CONDITIONS OBSERVED SHALL BE BROUGHT TO THE ATTENTION, IN WRITING, TO THE ARCHITECT AND/OR ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.

PLUMBING LEGEND

SYMBOL	ABBREV	DESCRIPTION
---	GW	GREASE WASTE
---	W	SEWER OR WASTE
---	V	VENT
---	V (E)	EXIST. VENT
---	CW	NEW COLD WATER
---	CW (E)	EXISTING COLD WATER
---	HW	NEW HOT WATER
---	HW (E)	EXIST. HOT WATER
---	NG	NEW GAS
---	G (E)	EXISTING GAS
---	CD	NEW CONDENSATE DRAIN
---	CD (E)	EXIST. CONDENSATE DRAIN
---	CA	COMPRESSED AIR
---	FCO	FLOOR CLEANOUT
---	WOO	WALL CLEANOUT
---	FD	FLOOR DRAIN
---	FS	FLOOR SINK
---	TP	TRAP PRIMER & TRAP PRIMER PIPING
---	SOV	SHUT-OFF VALVE
---	CV	CHECK VALVE
---	PRV	BACKFLOW PREVENTER W SOV'S
---	T & P	
---	DN	PIPE DOWN
---	UP	PIPE UP
---	POC	POINT OF CONNECTION
---	-	PLUMBING NOTE CALL-OUT
---	GAS	GAS INLET
---	AFF	ABOVE FINISH FLOOR
---	YCO	YARD CLEAN OUT
---	CO	CLEAN OUT
---	BLDG	BUILDING
---	CLG	CEILING
---	CONT	CONTINUATION
---	EL	ELEVATION
---	FIN	FINISH
---	FL	FLOOR
---	GR	GRADE
---	NTS	NOT TO SCALE
---	OC	ON CENTER
---	S=M %	SLOPE AT A PERCENTAGE
---	SHT	SHEET
---	TYP	TYPICAL
---	VTR	VENT THRU ROOF

BUILDING CODES:

CITY OF BRYAN CURRENT BUILDING CODES:

- 2021 International Fire Code (IFC)
- 2021 International Building Code (IBC)
- 2021 International Existing Building Code (IEBC)
- 2021 International Residential Code (IRC)
- 2021 International Mechanical Code (IMC)
- 2021 International Plumbing Code (IPC)
- 2021 International Fuel Gas Code (IFGC)
- 2021 International Swimming Pool and Spa Code (ISPSA)
- 2018 International Energy Conservation Code (IECC)
- 2020 National Electrical Code (NEC)

REVISION	ISSUE	DATE
	ISSUE FOR CLIENT REVIEW	03/02/23
	CLIENT COMMENTS	03/09/23
	ISSUE FOR PERMIT	03/13/23
	COV COMMENTS	04/10/23

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04/10/23

MAPULAS COFFEE SHOP
1500 NEWTON ST.
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PLUMBING SPECIFICATIONS

Project number
Date 10 APRIL 2023
Drawn by TJ
Checked by CXS

P.001

Scale AS NOTED

REVISION	ISSUE	DATE
	ISSUE FOR CLIENT REVIEW	03/02/23
	CLIENT COMMENTS	03/09/23
	ISSUE FOR PERMIT	03/13/23
	COX COMMENTS	04/10/23

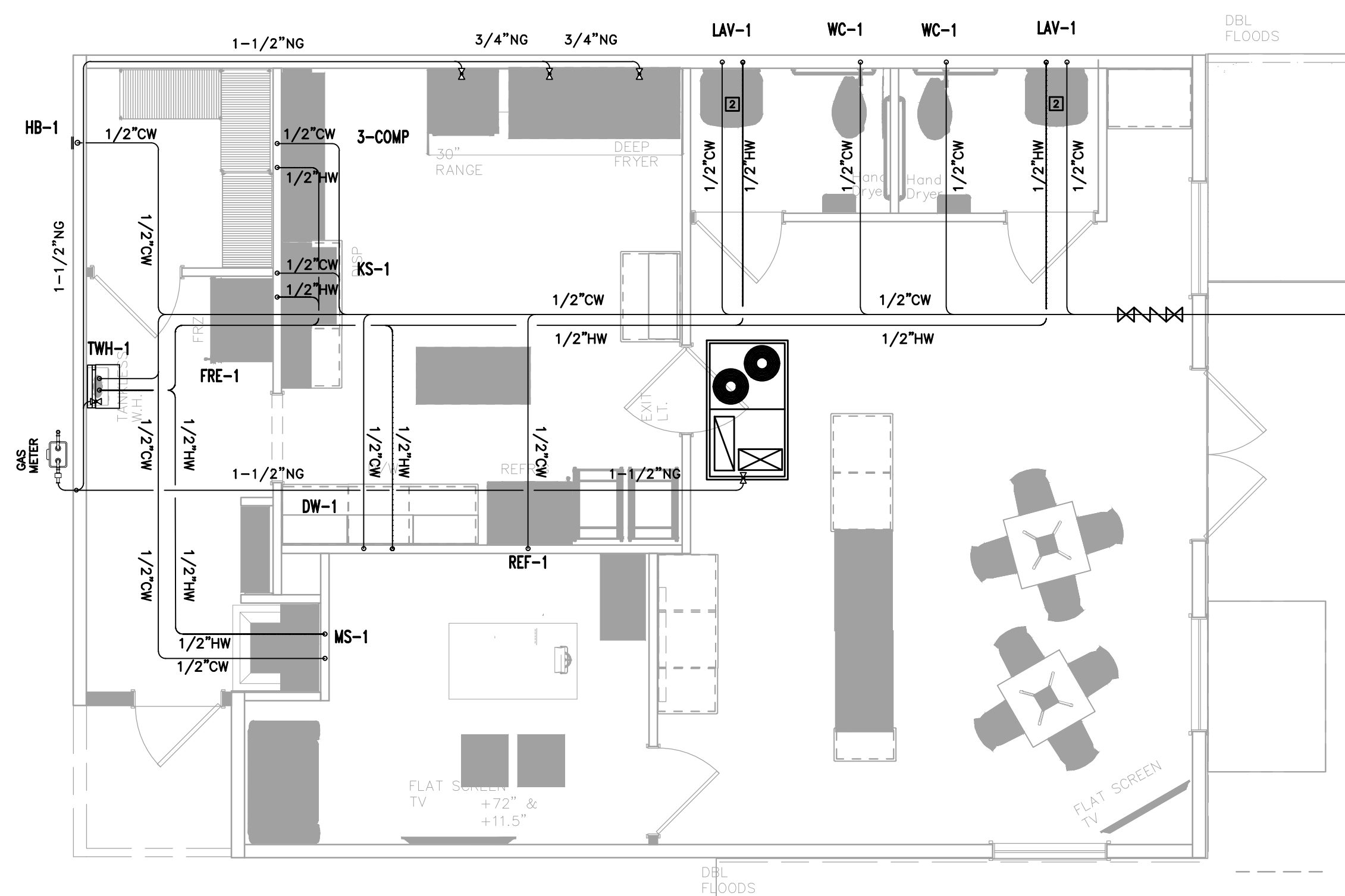


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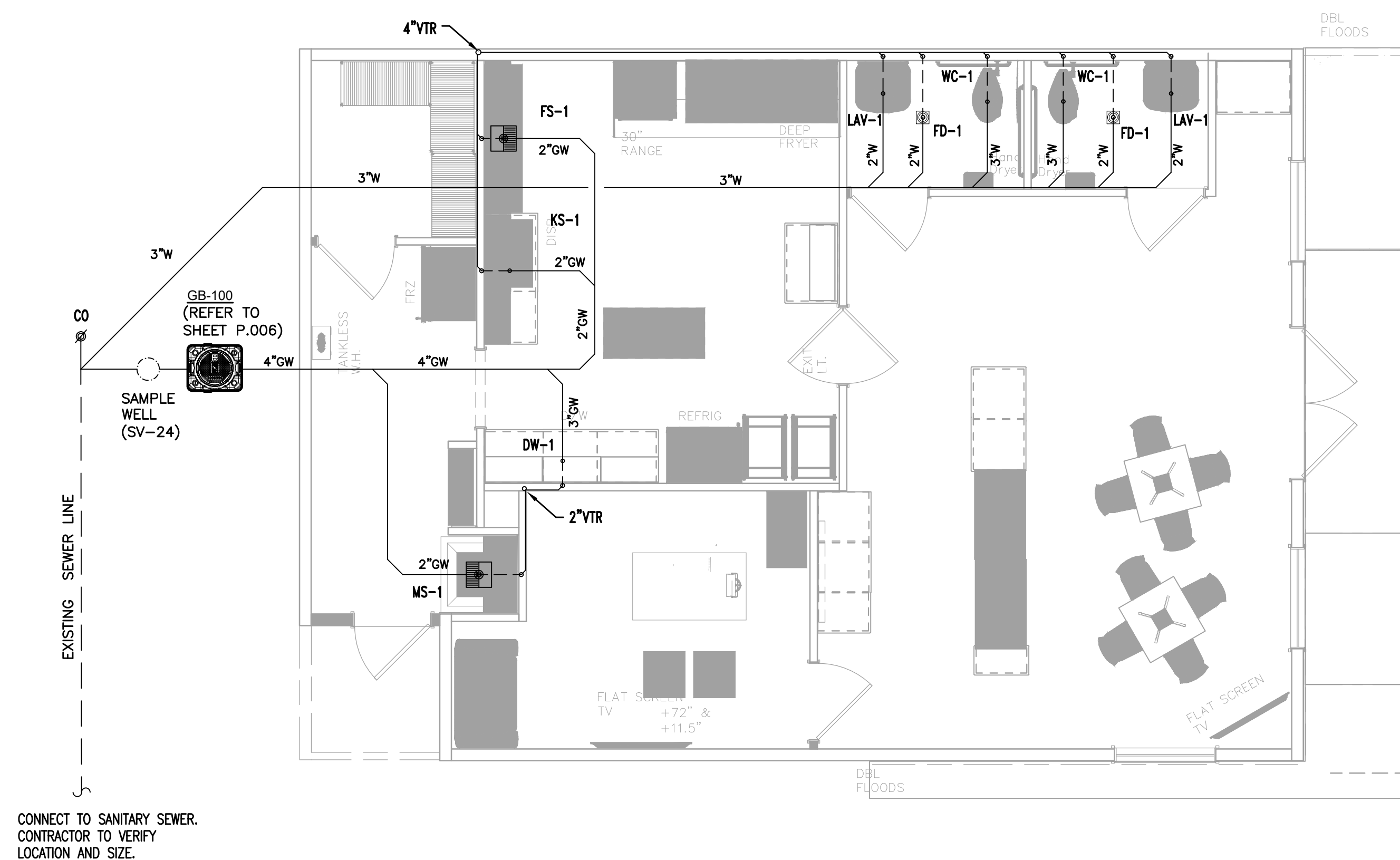
04/10/23

MAPULAS COFFEE SHOP
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PLUMBING PLAN KEYED NOTES
 [] MIXING VALVE: PROVIDE AND INSTALL ANTI-SCALD MIXING VALVE AT LAVATORY TO TEMPER HOT WATER AT FOR PUBLIC USE. SET VALVE FOR HOT WATER DISCHARGE AT LAVATORY TO 100° MAXIMUM.

1 PLUMBING WATER & GAS FLOOR PLAN
 SCALE: 1/4" = 1'-0"



2 PLUMBING SANITARY & WASTE VENT FLOOR PLAN
 SCALE: 1/4" = 1'-0"

PLUMBING WATER & GAS
 AND
 SANITARY & WASTE VENT PLAN

Project number
 Date 10 APRIL 2023
 Drawn by TJ
 Checked by CXS

P.002

Scale AS NOTED