

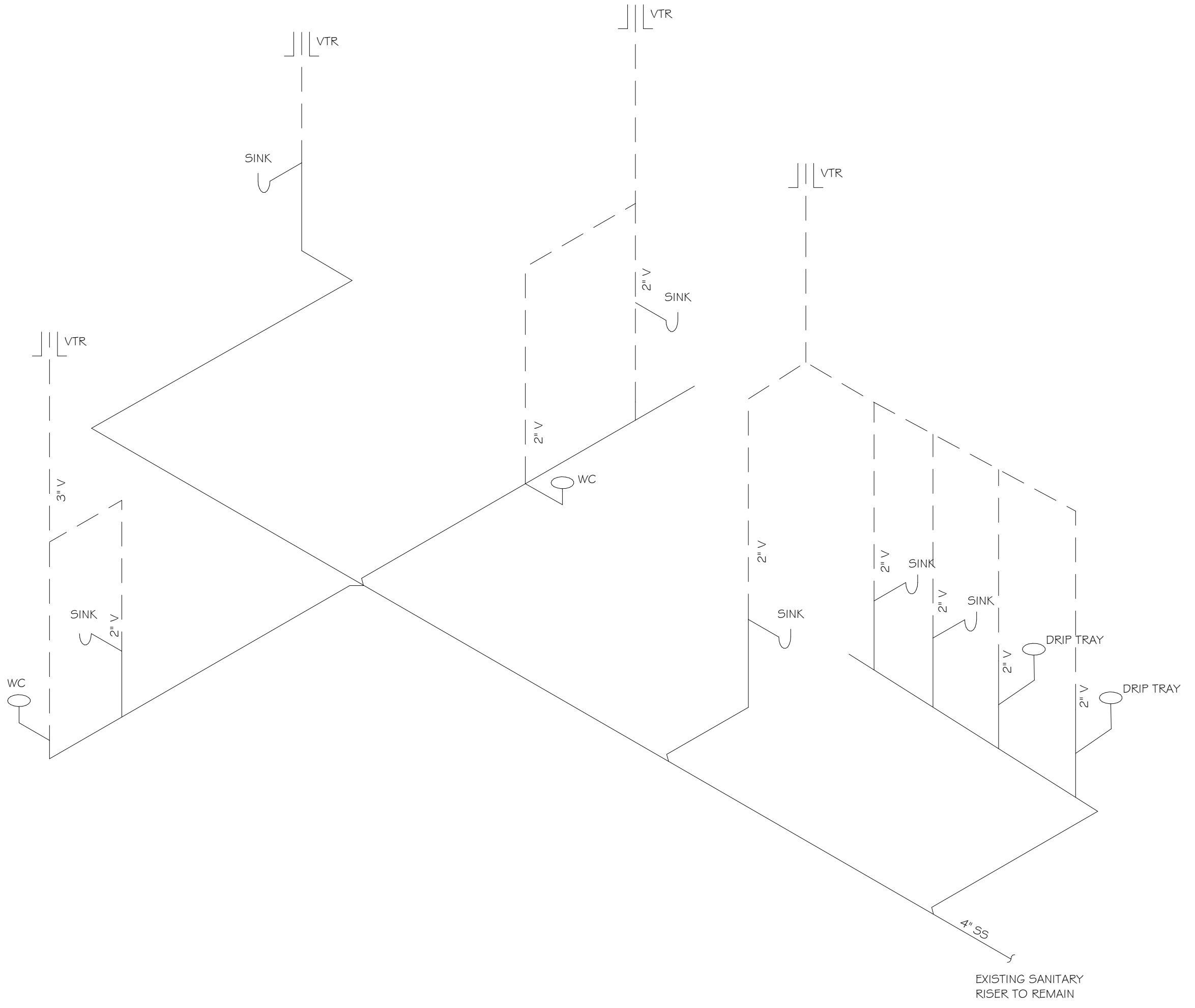
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PLUMBING ABBREVIATIONS					
A	AD	AREA DRAIN	M	MBH	1000 BRITISH THERMAL UNITS PER HOUR
	AFF	ABOVE FINISHED FLOOR		MECH	MECHANICAL
B	BFP	BACKFLOW PREVENTER		MH	MANHOLE
	BOP	BOTTOM OF PIPE	N	NIC	NOT IN CONTRACT
C	CA	COMPRESSED AIR		NO	NUMBER
	CL	CENTERLINE		NPCW	NON-POTABLE COLD WATER
	CLG	CEILING		NPHW	NON-POTABLE HOT WATER SUPPLY
D	DCV	DOUBLE CHECK VALVE		NPHWR	NON-POTABLE HOT WATER RETURN
	DCW	DOMESTIC COLD WATER		NTS	NOT TO SCALE
	DFU	DRAINAGE FIXTURE UNIT(S)	O	OFICI	OWNER FINISHED CONTRACTOR INSTALLED
	DHW	DOMESTIC HOT WATER	P	PD	PRESSURE DROP
	DHWR	DOMESTIC HOT WATER RETURN		PG	PRESSURE GAUGE
B	DI	DEIONIZED WATER SUPPLY		POE	POINT OF ENTRY
	DIR	DEIONIZED WATER RETURN		PRV	PRESSURE REDUCING VALVE
	DN	DOWN		PSIG	POUNDS PER SQUARE INCH GAUGE
	DWG	DRAWING	R	RPM	REVOLUTIONS PER MINUTE
E	EL	ELEVATION		RPZ	REDUCED PRESSURE ZONE BFP ASSEMBLY
	EWB	ELECTRIC WATER HEATER	S	SP	SUMP PUMP
	EX	EXISTING		SS	SANITARY SEWER
F	F	FAHRENHEIT	T	TD	TERRACE/TRENCH DRAIN
	FFE	FINISHED FLOOR ELEVATION		TP	TRAP PRIMER
	FT	FOOT, FEET		TW	TEMPERED WATER
C	G	GAS		TYP	TYPICAL
	GI	GREASE INTERCEPTOR	V	V	VENT
	GPH	GALLONS PER HOUR		VAC	VACUUM AIR
	GPM	GALLONS PER MINUTE		VB	VACUUM BREAKER
	GPR	GAS PRESSURE REGULATOR		VFD	VARIABLE FREQUENCY DRIVE
	GT	GREASE TRAP		VO	VALVED OUTLET
	GW	GREASY WASTE		VTR	VENT TO ROOF
	GWH	GAS WATER HEATER	W	WB	WET BULB
H	HP	HORSE POWER		WCO	WALL CLEANOUT
	HPG	HIGH PRESSURE GAS		WG	WATER GAGE
	HR	HOUR		WHA	WATER HAMMER ARRESTOR
	HVAC	HEATING, VENTILATION & AIR CONDITIONING		WPD	WATER PRESSURE DROP
D	IE	INVERT ELEVATION		WSFU	WATER SUPPLY FIXTURE UNIT
	KW	KILOWATT			
	LxWxH	LENGTH x WIDTH x HEIGHT			
	LBS	POUNDS			
	LWT	LEAVING WATER TEMPERATURE			

PLUMBING LEGEND			
	PUMP		GAS PRESSURE REGULATOR
	BACKFLOW PREVENTER		UNION
	ELBOW UP		FLEXIBLE CONNECTOR
	ELBOW DOWN		PIPE CAP
	BRANCH PIPE CONNECTION		GAUGE AND GAUGE COCK
	TEE-OUTLET DOWN		THERMOMETER
	TEE-OUTLET UP		VALVE WITH BLIND FLANGE
	PIPE REDUCER		STEAM TRAP
	GATE VALVE		THERMOSTATIC EXPANSION VALVE
	GLOBE VALVE		SPECIFIC NOTE DESIGNATION
	BUTTERFLY VALVE		POINT OF DISCONNECT
	BALL VALVE		POINT OF CONNECTION, NEW TO EXISTING
	CONTROL VALVE, 2 WAY		
	CONTROL VALVE, 3 WAY		
	CHECK VALVE		
	STRAINER		
	STRAINER AND BLOWDOWN VALVE		
	PLUG COCK/ BALANCING VALVE/ GAS COCK		
	CIRCUIT SETTER		
	PRESSURE REDUCING VALVE		

GENERAL PLUMBING NOTES	
1.	ALL WORK SHALL COMPLY WITH THE LATEST STATE AND CITY CODES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: A. INTERNATIONAL PLUMBING CODE B. INTERNATIONAL BUILDING CODE C. NFPA 70 NATIONAL ELECTRIC CODE D. NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE E. THE CONTRACT DOCUMENTS F. ALL REQUIREMENTS OF THE STATE FIRE MARSHAL G. INSURING AGENCY H. ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
2.	PROVIDE ALL MATERIAL AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
3.	CONTRACTOR SHALL COORDINATE EQUIPMENT CONNECTIONS WITH EQUIPMENT DRAWINGS AND SUPPLIER. INSTALL EQUIPMENT AND MAKE FINAL CONNECTIONS, FURNISHING CUTOFF VALVES, P-TRAPS, P.R.V.S, BACKFLOW PREVENTERS, AND PIPING AS REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ANY CONFLICTS BETWEEN THESE DOCUMENTS AND EQUIPMENT CUT SHEETS PRIOR TO CLOSING IN WALLS AND CEILINGS.
4.	CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING MOUNTING OF ALL PLUMBING FIXTURES. THIS WORK SHALL INCLUDE BUT NOT BE LIMITED TO PROVIDING WALL CARRIERS AND COORDINATING FIXTURES WITH CASEWORK.
5.	COORDINATE WATER, WASTE, VENT, AND STORM WATER PIPING WITH OTHER TRADES TO AVOID SPACING OR ROUTING PROBLEMS.
6.	FIXTURES, EQUIPMENT, CONNECTIONS, AND PIPING SHALL BE FURNISHED AND INSTALLED TO MEET OR EXCEED STATE AND LOCAL CODES AND REQUIREMENTS.
7.	FURNISH AND INSTALL WATER HAMMER ARRESTORS IN COLD WATER LINES AT CONNECTIONS TO FLUSH VALVES, QUICK CLOSING VALVES, AND AT ALL HOT AND COLD WATER CONNECTIONS TO FIXTURES.
8.	PLUMBING VENTS AND STACKS THROUGH ROOF SHALL BE INSTALLED A MINIMUM OF 10'-0" CLEAR OF A/C OUTSIDE AIR INTAKES, CLINICAL AIR COMPRESSOR INTAKES, OR WINDOWS IN STRUCTURE.
9.	PENETRATIONS THROUGH PARTITIONS AND FLOORS SHALL BE SLEEVED AND SEALED TO MAINTAIN INTEGRITY OF PARTITION AND FLOOR RATING.
10.	DRAWINGS ARE SCHEMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF ALL SERVICES WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES.
11.	ORIENT FLUSH VALVE HANDLES ASSOCIATED WITH BARRIER-FREE WATER CLOSETS ON WIDE SIDE OF STALL TO COMPLY WITH ADA REQUIREMENTS.
12.	PROVIDE INSULATION KIT FOR SUPPLIES, DRAIN PIPING AND TRAP FOR ALL HANDICAP ACCESSIBLE LAVATORIES AND SINKS. INSULATION KIT SHALL BE EQUAL TO TRUEBRO MODEL 103 (WHITE), WHERE PROTECTIVE SKIRT UNDER FIXTURES IS PROVIDED, INSULATION OF PIPING IS NOT REQUIRED.
13.	CONTRACTOR SHALL COORDINATE WITH PHASING REQUIREMENTS PROVIDED BY ARCHITECT/OWNER. TEMPORARY SERVICES SHALL BE PROVIDED FOR ANY AREA SERVED BY ANOTHER AREA IF DEMOLITION OF EXISTING SERVICE IS NECESSARY. COORDINATE ALL PLUMBING WORK WITH PHASING PLAN AS REQUIRED TO COMPLETE WORK.
14.	EXISTING SERVICES INDICATED ON THESE DRAWINGS WERE DERIVED FROM EXISTING DRAWINGS AND LIMITED FIELD OBSERVATIONS. THESE DRAWINGS MAY NOT BE ALL INCLUSIVE OF SERVICES THAT EXIST IN THE PROJECT AREA. CONTRACTOR SHALL VERIFY SERVICES, LOCATIONS, TYPE, AND SIZE PRIOR TO ANY BIDDING, PRICING, OR CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK INVOLVING DEMOLITION TIE-INS AND ROUTING CONFLICTS WITH EXISTING CONDITIONS. ANY DEVIATIONS IMPACTING WORK SHOWN ON THESE DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT FOR COORDINATION PRIOR TO CONSTRUCTION.
15.	PROVIDE FULL PORT BALL VALVES AT BRANCH LINES SERVING EACH ROOM WITH PLUMBING FIXTURES SUCH THAT EACH ROOM MAY BE INDIVIDUALLY ISOLATED. ACCESS SHALL BE PROVIDED.
16.	PROVIDE CLEANOUTS AT ALL 90° SANITARY SEWER ELBOWS AND IN ACCORDANCE WITH APPLICABLE CODES.
17.	EXISTING TIE-IN POINTS ARE APPROXIMATE. FIELD VERIFY ACTUAL TIE-IN POINTS AND PROVIDE PIPING RUNS AS REQUIRED FOR TIE-INS, PRIOR TO BIDDING.
18.	ALL SANITARY SEWER AND STORM DRAIN PIPING SHOWN SHALL BE RUN BELOW FLOOR, UNLESS NOTED OTHERWISE.
19.	ALL CW, HW, HWR, NATURAL GAS, FIRE PROTECTION, AND VENT PIPING SHOWN SHALL BE RUN ABOVE CEILING, UNLESS NOTED OTHERWISE.
20.	UNLESS OTHERWISE NOTED, ALL DRAINS SHALL BE INSTALLED AT THE LOW POINT OF ROOFS, AREAWAYS, FLOOR, ETC.
21.	ALL CLEANOUTS SHALL BE THE FULL SIZE OF THE PIPE FOR PIPE SIZES 6 IN AND SMALLER, AND SHALL BE 6 IN FOR PIPE SIZES LARGER THAN 6 IN.
22.	SLOPE SANITARY SEWER AND ALL OTHER DRAINAGE PIPING AT MINIMUM SLOPE OF 1/8" PER FOOT.
23.	PROVIDE A MINIMUM 3" FLOOR DRAIN ADJACENT TO ALL INDOOR AIR HANDLING UNITS. CONNECT FLOOR DRAIN TO NEAREST SANITARY WASTE AND VENT SYSTEMS.
24.	PROVIDE ICE MAKER BOX, WITH 1/2" TURN BRASS VALVE, AT ALL REFRIGERATOR LOCATIONS. COORDINATE WITH OWNER FOR FINAL EQUIPMENT LOCATIONS.
25.	PROVIDE 1/2" ANGLE STOP VALVE BENEATH COUNTERTOP AND ROUTE 1/2" DOMESTIC COLD WATER LINE THROUGH COUNTERTOP FOR COFFEE MAKER. COORDINATE WITH OWNER FOR FINAL EQUIPMENT LOCATIONS.

APPROVED
maevans , 9/29/2022 , 12:11:40 PM



PIPE & FITTING SCHEDULE				
TYPE	SIZE	MATERIAL	FITTINGS	LOCATION
WASTE AND VENT	15" AND SMALLER	HVY. DUTY C.I. HUBLESS	HVY. DUTY NO-HUB COUPLINGS	ABOVE GRADE & BELOW GRADE
	15" AND SMALLER	HVY. DUTY C.I. HUB AND SPIGOT	HVY. DUTY C.I. HUB AND SPIGOT	BELOW GRADE (16 MIL WRAPPED)
	ALL SIZES	SCHEDULE 40 PVC	SCHEDULE 80 PVC	BELOW GRADE
LAB WASTE AND VENT	ALL SIZES	GLASS REINFORCED EPOXY (GRE)	GLASS REINFORCED EPOXY (GRE)	ABOVE GRADE & BELOW GRADE
LAB WASTE AND VENT P-TRAPS	ALL SIZES	GLASS	VITON SEALS	ABOVE GRADE
GREASY WASTE AND VENT	ALL SIZES	HVY. DUTY C.I. HUBLESS	HVY. DUTY NO-HUB COUPLINGS	ABOVE GRADE & BELOW GRADE
DOMESTIC WATER	ALL SIZES	TYPE "L" HARD COPPER	WROUGHT COPPER	ABOVE GRADE
		SCHEDULE 80 CPVC	SCHEDULE 80 CPVC	
	ALL SIZES	TYPE "K" HARD COPPER	WROUGHT COPPER SILVER BRAZED	BELOW GRADE (16 MIL WRAPPED)
NATURAL GAS	ALL SIZES	TYPE "L" HARD COPPER	WROUGHT COPPER	ABOVE GRADE
	ALL SIZES	TYPE "K" HARD COPPER	WROUGHT COPPER SILVER BRAZED	BELOW GRADE (16 MIL WRAPPED)
	ALL SIZES	SCHEDULE 40 STEEL PIPE	THREADED FITTINGS	ABOVE GRADE & BELOW GRADE
CONDENSATE DRAIN	ALL SIZES	SCHEDULE 80 CPVC	SCHEDULE 80 CPVC	ABOVE GRADE & BELOW GRADE
LAB GASES	ALL SIZES	316 STAINLESS STEEL	316 STAINLESS STEEL (ORBITAL WELDED)	ABOVE GRADE
VACUUM AIR (VAC)	ALL SIZES	SCHEDULE 40 PVC	SCHEDULE 40 PVC	ABOVE GRADE
COMPRESSED AIR	ALL SIZES	TYPE "K" COPPER	WROUGHT COPPER	ABOVE GRADE
DEIONIZED WATER (DI)	ALL SIZES	SCHEDULE 80 CPVC	SCHEDULE 80 CPVC	ABOVE GRADE

HUNGRY EYES



CICADA

MASON HEREFORD
4206 Magazine St.

PROJECT NO:	12019
PHASE:	75% CD
ISSUED FOR:	
DATE	8/26/2022

PLUMBING NOTES AND LEGENDS

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