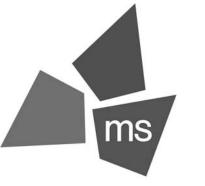
PLUMBING SYMBOLS

(SOME SYMBOLS MAY NOT BE USED ON THE DRAWINGS) **PIPING LABELS ABBREVIATIONS** PLUMBING SYMBOLS ABV **ABOVE** NIC NOT IN CONTRACT SANITARY WASTE _____S___ FLOOR SINK DRAIN DIFFERENTIAL PRESSURE TAPS ADJUSTABLE ADJ NO NORMALLY OPEN OS&Y VALVE AFC ABOVE FINISHED CEILING NTS - - - - -SANITARY VENT NOT TO SCALE FLOOR DRAIN WITH P-TRAP ABOVE FINISHED FLOOR ON CENTER OC \longrightarrow **GREASE WASTE** —— GW —— AFG ABOVE FINISHED GRADE CHECK VALVE $\int \int \int dR \, dR \, dR$ P-TRAP OVERHEAD ОН ARCH ARCHITECT, ARCHITECTURAL CONDENSATE DRAIN —— CD —— ORD **OVERFLOW ROOF DRAIN** ACID VENT ROOF DRAIN / OVERFLOW DRAIN PRESSURE REDUCING VALVE PHASE AVG AVERAGE -----AW -----ACID WASTE PLBG PLUMBING HOSE BIBB/WALL HYDRANT ACID WASTE PLUG VALVE ——— AV ——— ACID VENT BFF BELOW FINISHED FLOOR PSI POUNDS PER SQUARE INCH AIR OUTLET BLDG BUILDING PRESSURE RELIEF VALVE, PRV NON-POTABLE WATER ----NPW -----**BUTTERFLY VALVE** PRESSURE REDUCING VALVE BOP BOTTOM OF PIPE _____DCW____ DOMESTIC COLD WATER PVC POLYVINYL CHLORIDE BOTTOM OF STRUCTURE WATER HAMMER ARRESTOR, SIZED PER PLUMBING BOS PIPE SUPPORT AND DRAINAGE INSTITUTE (PDI) REQUIREMENTS QTY QUANTITY BTU BRITISH THERMAL UNIT ——DHW—— DOMESTIC HOT WATER RD **ROOF DRAIN** CAPACITY CAP 2-WAY SELF-CLEANOUT -----DHWR-----DOMESTIC HOT WATER RECIRCULATION RE: REFERENCE, REFER CFH CUBIC FEET PER HOUR OPERATING VALVE RECIRC RECIRCULATE CUBIC FEET PER MINUTE CFM REVERSE OSMOSIS WATER —— RO —— 3-WAY SELF-REINF REINFORCING PLUMBING FIXTURES CAST IRON OPERATING VALVE ----- SW -----SOFT WATER REQD REQUIRED CIRC CIRCULATING MOTOR OPERATED VALVE REV REVISION, REVISE CENTERLINE —— CA (100) —— COMPRESSED AIR (PRESSURE NOTED) **NEW EQUIPMENT** RMROOM CEILING CLG (SIZE, SHAPE WILL VARY) NATURAL GAS ——G—— \longrightarrow SOLENOID VALVE RPM REVOLUTIONS PER MINUTE CO CLEANOUT SANITARY CPVC SAN PROPANE GAS CHLORINATED POLYVINYL CHLORIDE ——LPG —— SEC CW COLD WATER SECONDS RECIRCULATING PUMP PNEUMATIC OPERATING VALVE TRENCH DRAIN LINE ——TD —— SQUARE FEET DCW DOMESTIC COLD WATER SIMILAR ——RD —— **ROOF DRAIN** DGCO DOUBLE GRADE CLEANOUT GAUGE COCK COMPRESSED AIR DROP WITH FILTER SQ SQUARE DEG DEGREES ____OD____ OVERFLOW DRAIN REGULATOR AND QUICK DISCONNECT SS STAINLESS STEEL DIAMETER PIPE GUIDE NON-POTABLE WATER ----NPW -----STD STANDARD DIMENSION TRAP PRIMER POST HYDRANT _____ TP ____ STL STEEL DOWN PIPE CAP SUSP REVERSE OSMOSIS WATER ------ RO ------SUSPEND DOWNSPOUT TRAP PRIMER VALVE DWG DRAWING TEMP **TEMPERATURE** ——— VAC ——— VACUUM FLOW SWITCH EACH THRU THROUGH **ELEC ELECTRICAL** TRAP PRIMER PIPING SYMBOLS PRESSURE SWITCH **ELEV GENERAL NOTES ELEVATION TYPICAL EQUIP EQUIPMENT** UNDERFLOOR T&P RELIEF VALVE PIPE CONTINUATION **EWB** ENTERING WET BULB A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS FOR CONSTRUCTION. UNDERGROUND U/G **EWC** ELECTRICAL WATER COOLER U/S UNDERSLAB B. COORDINATE WORK WITH ALL OTHER TRADES. PRESSURE GAUGE PIPE UP (AND DN) WITH GAUGE COCK UON UNLESS OTHERWISE NOTED MAINTAIN A MINIMUM OF 8 INCHES ABOVE FINISHED CEILING TO PROVIDE CLEARANCE FOR LIGHTING FCO FLOOR CLEANOUT URINAL **ELBOW DOWN** FLOOR DRAIN THERMOMETER D. PLUMBING CONTRACTOR SHALL VERIFY ALL INVERT ELEVATIONS WITH THE CIVIL DRAWINGS PRIOR TO VENT FLOW LINE COMMENCING WORK. VAC VACUUM FLOOR VALVE IN DROP E. ROUTE PIPING CONCEALED THROUGHOUT EXCEPT WHERE INDICATED. VERT VERTICAL FLOOR SINK WATER METER F. SLOPE ALL SANITARY PIPING AT 1/4" PER FOOT MINIMUM UNLESS NOTED OTHERWISE. VARIABLE FREQUENCY DRIVE VFD FROM ABOVE VALVE IN CENTER DROP VTR G. LOCATE CLEANOUTS WHERE INDICATED. EXACT PLACEMENT SHALL PROVIDE NECESSARY CLEARANCES AS VENT THROUGH ROOF FROM BELOW GAS REGULATOR PER THE LOCAL PLUMBING CODE. PROVIDE ADDITIONAL FLOOR CLEANOUTS AS NECESSARY TO COMPLY WITH WATT, WIDTH FOOT, FEET CODES AND THE LOCAL AUTHORITY HAVING JURISDICTION. VALVE IN RISE WITH _____ GROUND FLEXIBLE CONNECTION COORDINATE THE EXACT LOCATION OF SLEEVES, FLOOR DRAINS, FLOOR SINKS, AND FLOOR CLEANOUTS WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS, AND MECHANICAL EQUIPMENT LOCATIONS PRIOR TO W/O WITHOUT NATURAL GAS INSTALLATION OF DRAINS. DIRECTION OF FLOW WATER CLOSET, WATER COLUMN GAUGE PIPE FLANGE COORDINATE WORK WITH ARCHITECTURAL FEATURES AND COORDINATE WORK SO THAT INTERFERENCES WALL HYDRANT GALLON BETWEEN PIPING, EQUIPMENT, MECHANICAL WORK, ELECTRICAL WORK, AND BUILDING STRUCTURE WILL BE DIRECTION OF SLOPE DOWN WEIGHT GALV GALVANIZED THERMOMETER WELL GENERAL CONTRACTOR FURNISH ACCESS DOORS IN WALLS AND CEILINGS TO ACCESS CONCEALED PLUMBING EQUIPMENT, VALVES, CONCENTRIC REDUCER WATER HAMMER ARRESTORS, CONTROLS, AND OTHER DEVICES. GCO GRADE CLEANOUT PRESSURE LIMITING VALVE VERIFY EXACT LOCATIONS OF CITY SANITARY SEWER AND WATER MAINS, AND ADJUST PIPING LOCATIONS AS GALLONS PER HOUR **SHEET SYMBOLS** ECCENTRIC REDUCER GALLONS PER MINUTE PETE'S PLUG FURNISH AND INSTALL GREASE INTERCEPTOR PER DETAIL IN THIS DRAWING SET OR AS REQUIRED BY CODE. GREASE TRAP/INTERCEPTOR GREASE WASTE TEE OUTLET UP M. FURNISH AND INSTALL CONDENSATE AND INDIRECT DRAINS FROM KITCHEN EQUIPMENT AS DIRECTED BY TYPE OF SERVICE FIRE SPRINKLER HEAD KITCHEN EQUIPMENT MANUFACTURER. HUB DRAIN (I.E. HW = HOT WATER) POTABLE WATER SYSTEM DESIGN IS BASED UPON A PRESSURE OF 50.5 PSI AVAILABLE AT THE BUILDING. IF HOR HORIZONTAL TEE OUTLET DOWN PIPE CLEAN OUT RISER BUBBLE CONDITIONS ARE DIFFERENT, ADJUST PIPE SIZING ACCORDINGLY. HORSEPOWER O. COORDINATE PLUMBING FIXTURE PLACEMENT WITH WALL LOCATIONS AS DIMENSIONED ON ARCHITECTURAL HEATING _____ wco WALL CLEANOUT RISER NUMBER UNION INVERT ELEVATION WHATABURGER TO PROVIDE T & S BRASS FAUCETS FOR ALL FIXTURES REQUIRING FAUCETS INSTALLED BY THE GENERAL CONTRACTOR., EXCEPT EXTERIOR HOSE BIBBS WHICH SHALL BE BOTH FURNISHED AND OR (RTU-XXX) **EQUIPMENT TAG** PIPE ANCHOR REDUCED PRESSURE BACKFLOW PREVENTER WATER COLUMN INSTALLED BY THE GC. **RPBFP** KILOWATT **EXPANSION JOINT** <u>~~</u> AIR FLOW INDICATOR LENGTH LAVATORY STRAINER WITH **POUNDS** NOTE BY SYMBOL BLOWDOWN VALVE THERMOSTATIC MIXING VALVE LINEAR FEET (KEYNOTE) MANUAL $\longrightarrow \bowtie$ GATE VALVE MAX MAXIMUM REVISION **MECH** MECHANICAL GLOBE VALVE **MFGR** MANUFACTURER POINT OF CONNECTION (NEW TO EXISTING) MINIMUM BALL VALVE MOP SINK POINT OF DISCONNECTION NOT APPLICABLE BALANCING VALVE W/ NORMALLY CLOSED



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~ BURGE 4



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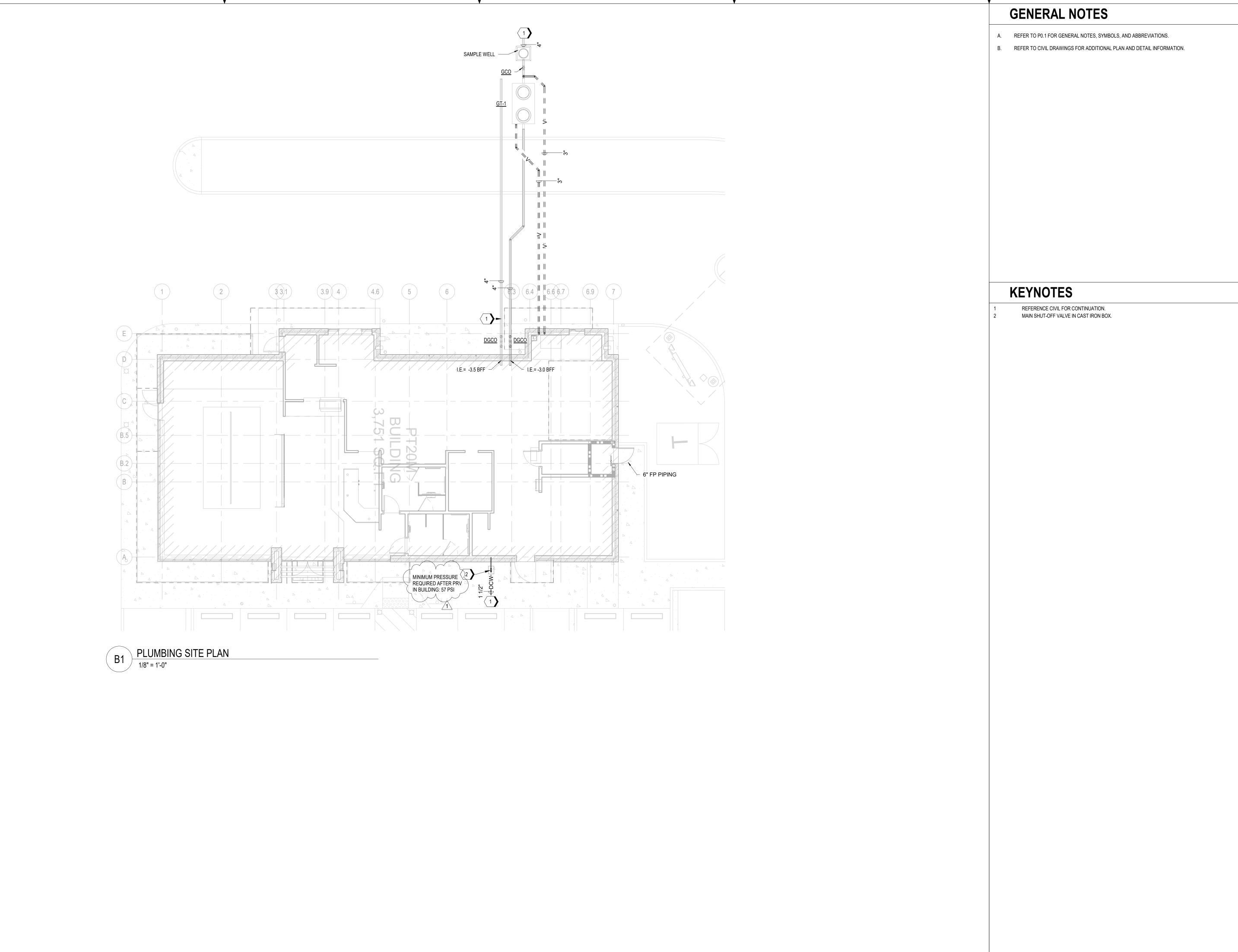
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62-40497-01 Project No.: Client Project No.:

Drawing Title:

PLUMBING SYMBOLS AND **ABBREVIATIONS**

Date:	12/22/2020	Phase:	BID SET
Designed:	DCU	Drawing No). <i>:</i>
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1	REV-1 Plan Review	01/27/21

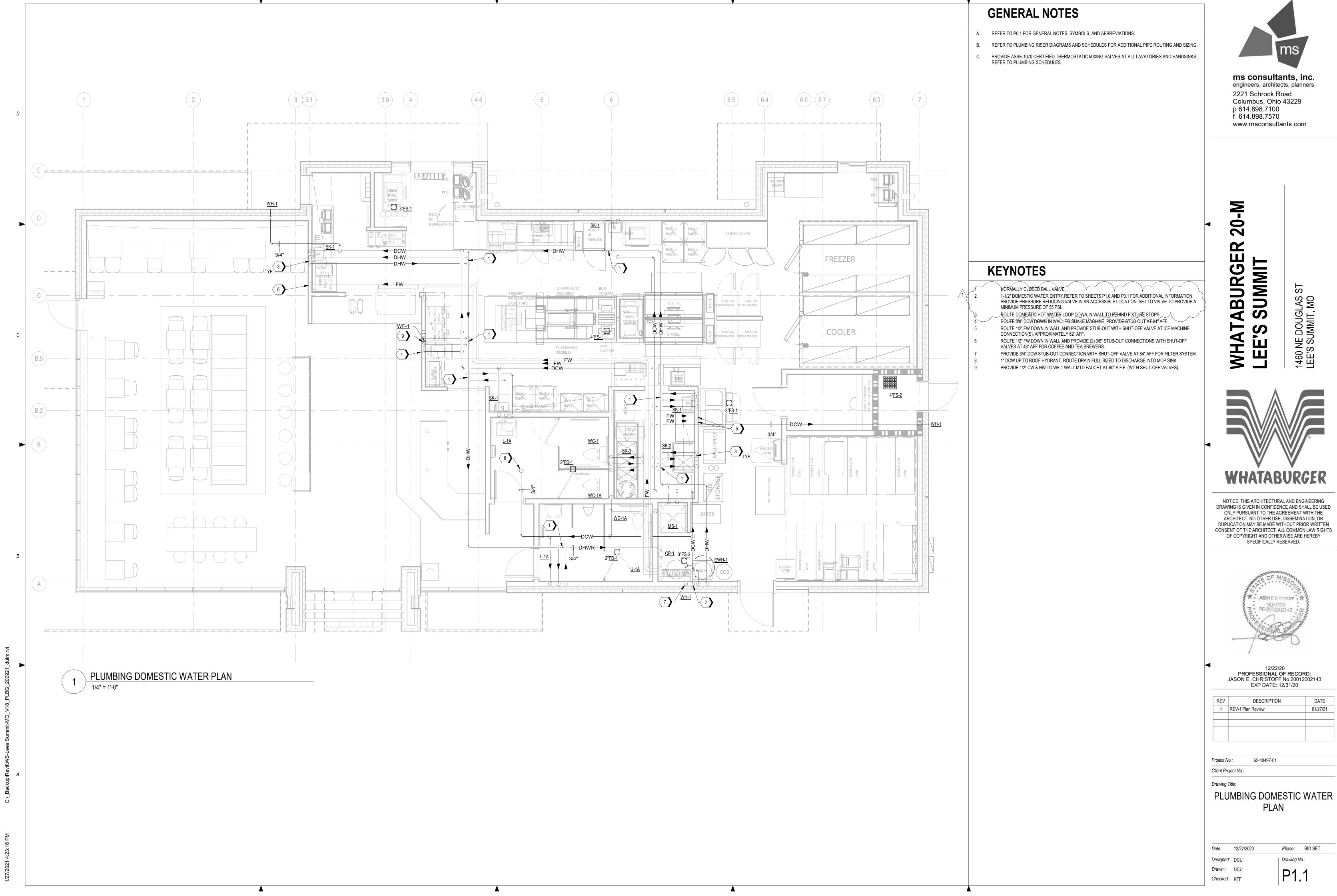
62-40497-01 Project No.: Client Project No.:

Drawing Title:

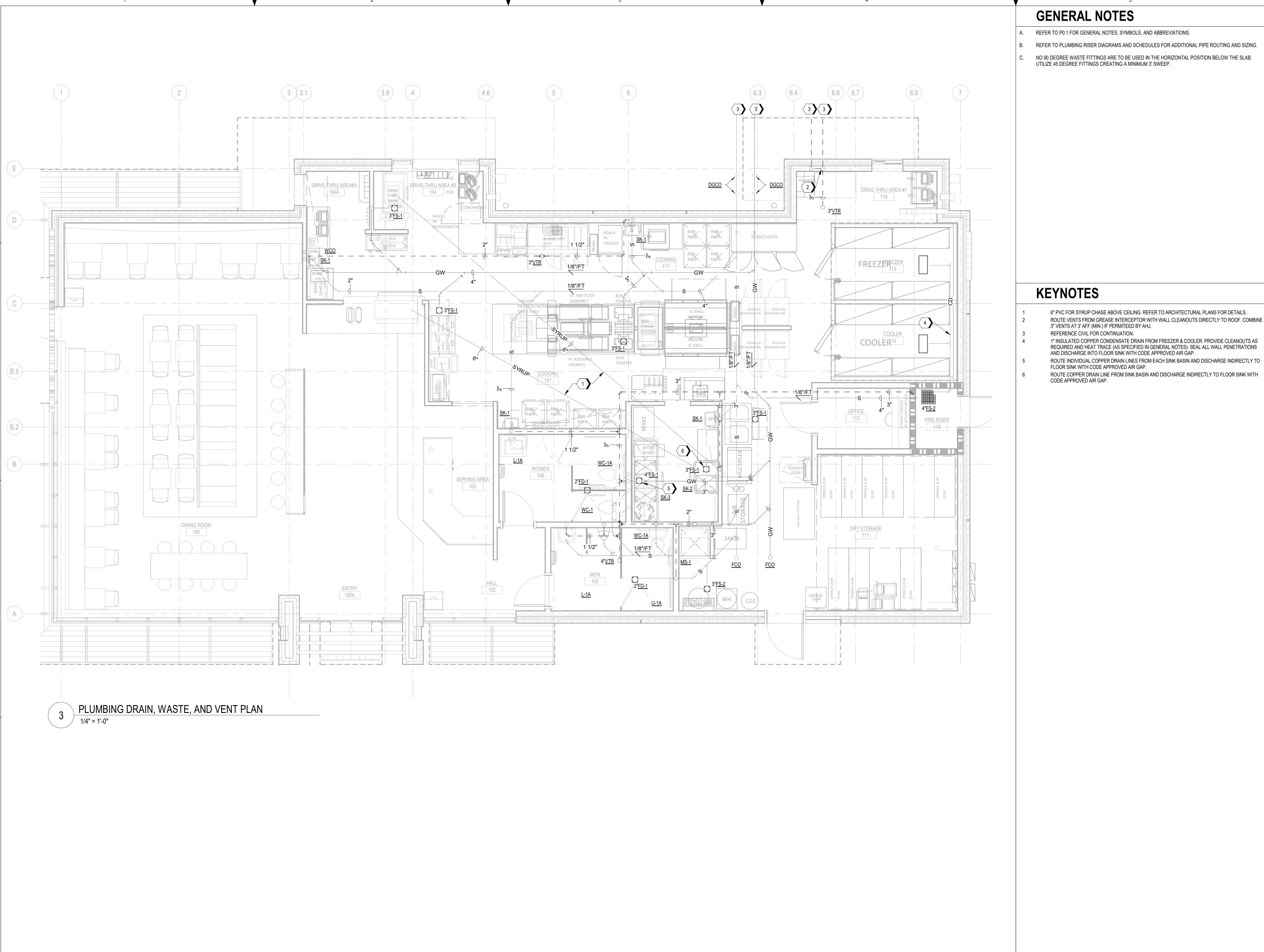
PLUMBING SITE PLAN

Date: 12/22/2020 Drawing No.: Designed: DCU Drawn: DCU

Checked: KFF



	REV	DESCRIPTION	DATE
	1	REV-1 Plan Review	01/27/21
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- REFER TO PLUMBING RISER DIAGRAMS AND SCHEDULES FOR ADDITIONAL PIPE ROUTING AND SIZING.
- NO 90 DEGREE WASTE FITTINGS ARE TO BE USED IN THE HORIZONTAL POSITION BELOW THE SLAB. UTILIZE 45 DEGREE FITTINGS CREATING A MINIMUM 3' SWEEP.



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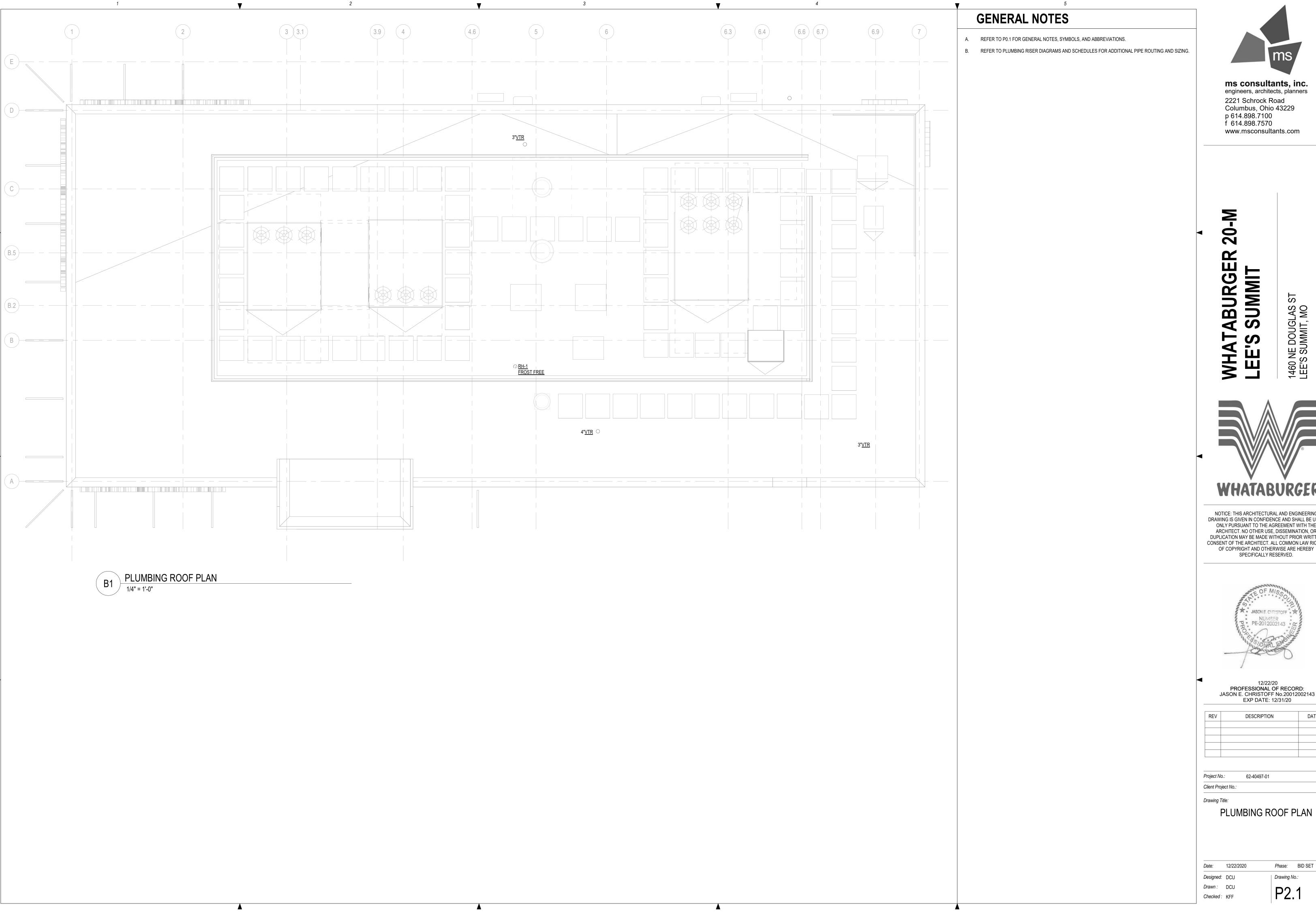
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Drawing Title:

PLUMBING DWV PLAN

Phase: BID SET Date: 12/22/2020 Designed: DCU Drawing No.: Drawn: DCU

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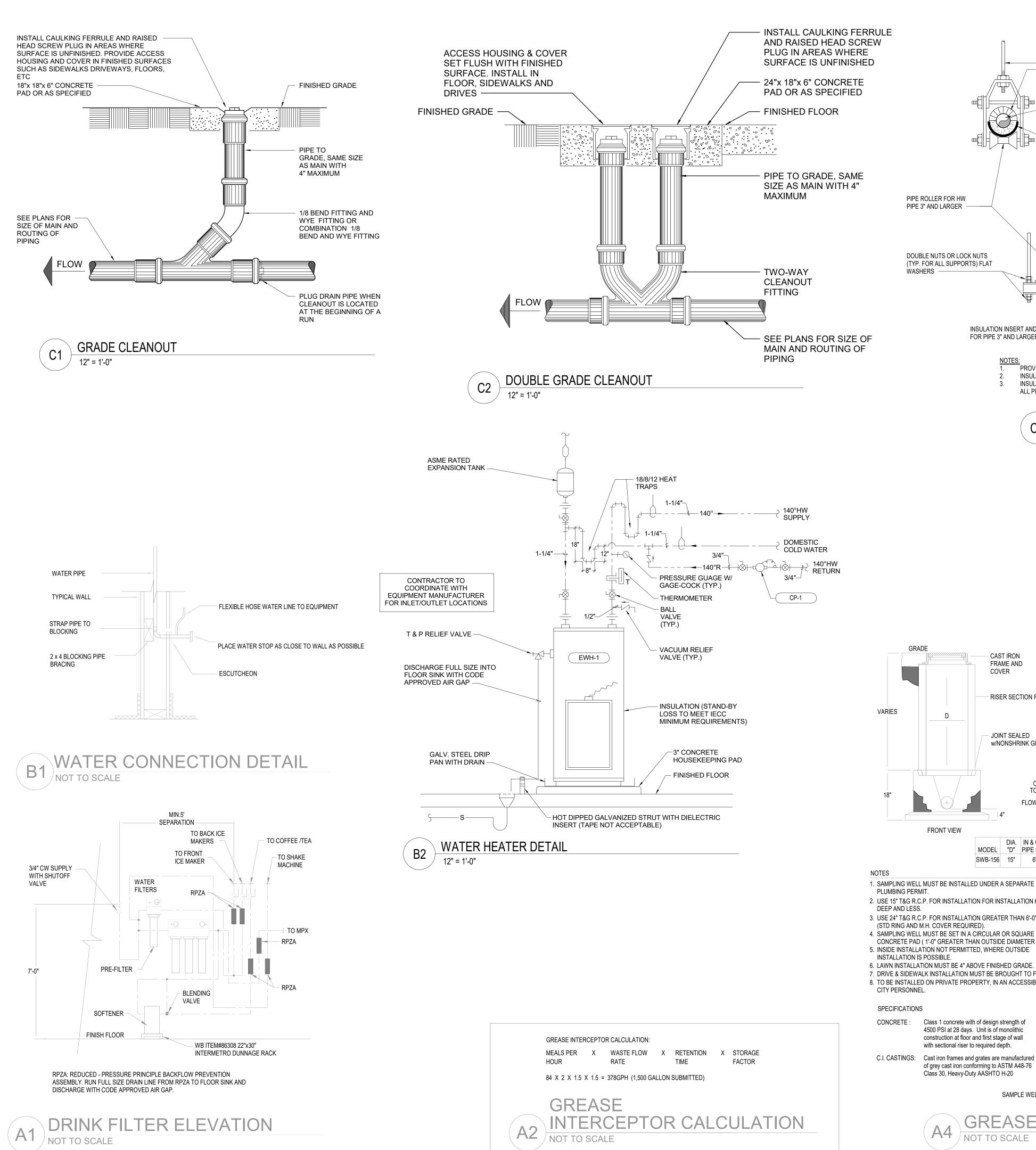
REV	DESCRIPTION	DATE
1	REV-1 Plan Review	01/27/21

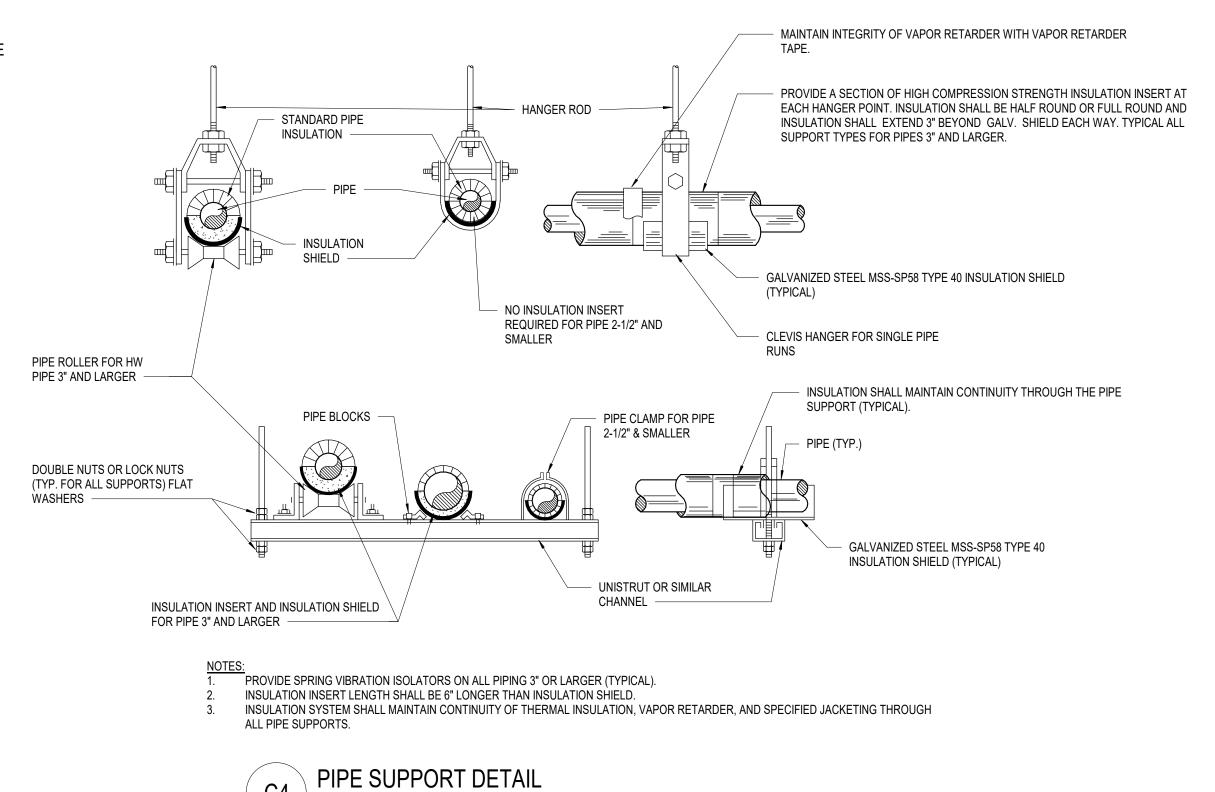
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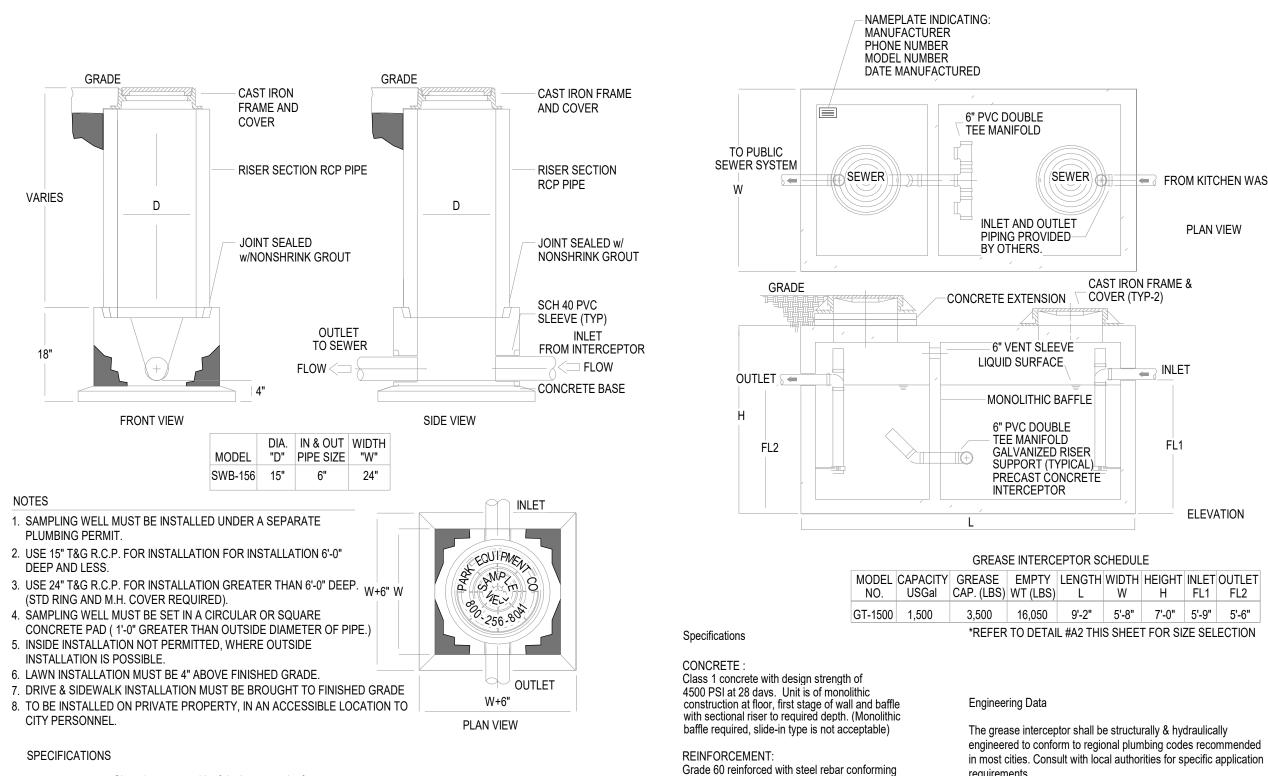
PLUMBING RISER DIAGRAMS

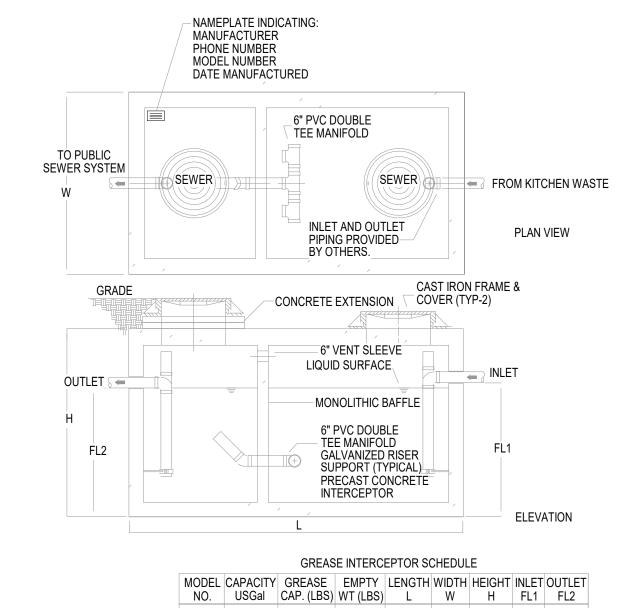
Designed: DCU Drawn: DCU P3.1

Checked: KFF









requirements.

shipping information.

GREASE INTERCEPTOR

Shop drawings shall include complete structural & buoyancy

Consult with manufacturer for exact excavation dimensions &

calculations certified by a licensed professional engineer.

to ASTM A615 on required centers or equal.

of grey cast iron conforming to ASTM A48-76

Class 30. Manhole shall be nominal 24 inch

Manhole frames, covers or grates are manufactured

C.I. CASTINGS:

diameter and be traffic duty.

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PLUMBING DETAILS

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Checked:	KFF	P4.	

GREASE INTERCEPTOR AND SAMPLE WELL DETAIL NOT TO SCALE

SAMPLE WELL

4500 PSI at 28 days. Unit is of monolithic

construction at floor and first stage of wall

of grey cast iron conforming to ASTM A48-76

with sectional riser to required depth.

Class 30, Heavy-Duty AASHTO H-20

MARK	SERVICE	LOCATION	TYPE	CAPACITY (GPM)	BOOST PRESSURE, PSI (FT HD)	MOTOR, VOLTAGE/PHASE/HP	MOTOR SPEED (RPM)	MANUFACTURER, MODEL
CP-1	DOMESTIC HW	UTILITY ROOM	IN-LINE	1	2	230/1/0.75	VARIABLE	GRUNDFOS ALPHA 2

WATER HEATER SCHEDULE

VV/ (TEIX TIE/ (TEIX GOTTEDGEE										
	MARK	LOCATION	SERVICE	STORAGE (GAL)	RECOVERY RATE @ 80° F RISE (GPH)	OPERATING TEMPERATURE, °F	INPUT (BTU / kW)	POWER VOLTAGE/PHASE	FUEL	MANUFACTURER, MODEL
	EWH-1	UTILITY ROOM	DOMESTIC HOT WATER	120	51	140°	10 kW	208 / 3	ELEC	A.O. SMITH DEN 120

EXPANSION TANK SCHEDULE

MARK	SERVICE	LOCATION	TOTAL TANK VOLUME (GALLONS)	ACCEPTANCE VOLUME (GALLONS)	MAX. PRESSURE (PSIG)	MANUFACTURER, MODEL
ET-1	WATER HEATER	PLUMBING ROOM	8		150	ELBI#DTS-30

MIXING VALVE SCHEDULE

MARK	FLOW (GPM)	LOCATION	DWH TEMP. IN	TEMP OUT (BLEND)	MANUFACTURER, MODEL
TMV-1	0.5-2.2	I AV/SINK	140° F	RE: PLBG FIX SCHD	WATTS #I FMMV-I IS-M1

PIPE MATERIALS LEGEND

DOMESTIC COLD WATER	ASTM B88 COPPER: EXTERIOR (TYPE "K") AND INTERIOR (TYPE "M
DOMESTIC HOT WATER	ASTM B88 COPPER: EXTERIOR (TYPE "K") AND INTERIOR (TYPE "M
DOMESTIC HOT WATER RETURN	ASTM B88 COPPER: EXTERIOR (TYPE "K") AND INTERIOR (TYPE "M
FILTERED WATER	ASTM B88 COPPER: EXTERIOR (TYPE "K") AND INTERIOR (TYPE "M
SYRUP CHASE	SCHEDULE 40 PVC
SANITARY	SCHEDULE 40 PVC
GREASE	SCHEDULE 40 PVC
VENT	SCHEDULE 40 PVC

PLUMBING FIXTURE SCHEDULE

				CONNECTIONS					
	MARK	DESCRIPTION	QUANTITY	WASTE	VENT	TRAP	DCW	DHW	MANUFACTURER, MODEL
		WATER CLOSET (ADA); 1.1 GPF, FLOOR-MOUNT, VITREOUS CHINA WITH EVERCLEAN (ANTI-MICROBIAL) SURFACE, FULLY-GLAZED TRAPWAY, PRESSURE-ASSISTED FLUSH TANK WITH LOCKING COVER.	3	4"	2"	INTEGRAL	3/4"	-	AMERICAN STANDARD "CADET" #3483.001 UNIVERSAL BOWL, #4142.601 LOCKING TANK, #4142.901 FOR RIGHT HAND TRIP
	U-1A	URINAL (ADA); X.125 GPF, WALL-HUNG, VITREOUS CHINA WITH EVERCLEAN (ANTI-MICROBIAL) SURFACE, FULLY/GLAZED TRAPWAY, EXPOSED HARD-WIRED ELECTRONIC SENSOR DIAPHRAGM FLUSH VALVE	1	2"	1-1/2"	INTEGRAL	3/4"	-	AMERICAN STANDARD "PINTBROOK" #6002.001, 6063.013,002
}	L-1A	LAVATORY (ADA); WALL-MOUNTED, CORIAN, METERED, 1.5 GPM @ 15 SEC. CYCLE = 0.25 GAL/CYCLE, HARD-WIRED ELECTRONIC SENSOR FAUCET, PROVIDE WITH TMV-1 SET TO 105°F, AND FIELD INSTALLED SENSOR WITH 15 SEC T/O (PART #3335116).	2	2"	1-1/2"	1-1/4"	3/4"	3/4"	SLOAN #DSWD-81000 SINK, EAF-900 FAUCET
1	MS-1	MOP SINK; FLOOR-MOUNTED, 36"x36"x12" TERRAZO MOP SINK WITH FRONT DROP AND RIM GUARD, WALL SHIELDS, SPRING-LOADED MOP HANGER AND HOSE WALL HOOK	1	3"	2"	3"	3/4"	3/4"	STERN WILLIAMS "HILOW" #2000, T-10-VB, T-35, T-40-BP
	IMB-1	ICE MAKER BOX; WHITE POWDER COATED GALVANIZED STEEL WITH QUARTER TURN VALVE AND MINI ARRESTER.	-	-	-	-	3/4"	-	GUY GREY #MIB1HAAB
	IMB-2	ICE MAKER BOX; WHITE POWDER COATED GALVANIZED STEEL WITH QUARTER TURN VALVE AND MINI ARRESTER. COORDINATE FINAL LOCATION WITH ARCHITECT. PROVIDE DUAL CHECK VALVE (BFP-2) IN-LINE FOR CONNECTION TO COFFEE MAKER.	-	-	-	-	3/4"	-	GUY GREY #MIB1HAAB, WATTS #SD2
	SK-1	HAND SINK; STAINLESS STEEL, PROVIDE WITH TMV-1 SET TO 105°F	4	2"	1-1/2"	1-1/4"	3/4"	3/4"	SINK SUPPLIED BY KITCHEN EQUIPMENT MANUFACTURER, T&S BRASS #B-1115 FAUCET SUPPLIED BY CONTRACTOR
	SK-2	1 COMPARTMENT SINK; STAINLESS STEEL, PROVIDE WITH TMV-1 SET TO 110°F	1	3"	2"	-	3/4"	3/4"	SINK SUPPLIED BY KITCHEN EQUIPMENT MANUFACTURER, T&S BRASS #B-023-CR FAUCET SUPPLIED BY WHATABURGER
		3 COMPARTMENT SINK; STAINLESS STEEL, PROVIDE WITH TMV-1 SET TO 110°F	1	3"	2"	-	3/4"	3/4"	SINK SUPPLIED BY KITCHEN EQUIPMENT MANUFACTURER, T&S BRASS #B-0156-CR FAUCET SUPPLIED BY WHATABURGER
	WF-1	WALL FAUCET;	1	-	-	-	3/4"	3/4"	FOR SHAKE MACHINE BY CONTRACTOR, T&S BRASS #B-0231-CR WITH #00JJ STOPS

GENERAL NOTES (PLUMBING FIXTURE SCHEDULE):

1. PLUMBER IS REQUIRED TO REGISTER ATTACHED WARRANTY REGISTRATION CARD FOLLOWING INSTALLATION CHECKOUT.

2. PLUMBER IS REQUIRED TO ROUTE INDIVIDUAL COPPER DRAIN LINES FROM EACH SINK BASIN AND DISCHARGE INDIRECTLY TO FLOOR SINK WITH CODE APPROVED AIR GAP

3. FURNISH AND INSTALL WATTS SERIES 8 VACUUM BREAKER ON ALL THREADED FAUCETS AND HOSE BIBBS SERVING CLEANING AND UTILITY USES.

FLOOR DRAIN/SINK SCHEDULE

MARK	DESCRIPTION	SERVICE	GRATE DIMENSION	OUTLET DIAMETER	MANUFACTURER, MODEL
FD-1	FLOOR DRAIN; COATED CAST-IRON BODY WITH BOTTOM OUTLET, CLAMPING COLLAR, ADJUSTABLE COLLAR WITH SEEPAGE SLOTS,	RESTROOMS,	8x8"	*	ZURN
	AND POLISHED NICKEL-BRONZE, HEAVY-DUTY SQUARE HEEL-PROOF GRATE WITH VANDAL-RESISTANT SCREWS.	GEN. SERVICE			ZN-415-6S-HD
FS-1	FLOOR SINK; 6" DEEP CAST-IRON BODY, MEDIUM-DUTY SLOTTED 1/2 GRATE, ANCHOR FLANGE, SEEPAGE HOLES, CLAMPING COLLAR,	KITCHEN,	8x8"	*	ZURN
	ANTI-SPLASH DOME STRAINER; WHITE ACID RESISTING PORCELAIN ENAMEL FINISH ON INTERIOR, GRATE, AND STRAINER.	EQUIPMENT			Z-1910-KC-2-33
FS-2	FLOOR SINK; ACID-RESISTANT EPOXY COATED CAST-IRON BODY WITH BOTTOM OUTLET, ANCHOR FLANGE, SECONDARY DOME STRAINER,	FIRE RISER,	12x12"	*	MIFAB
	TRAP SEAL PRIMER TAPPING. AND 1/2 TRACTOR GRATE.	CONDENSATE			F1480-7-11-20-FL-150

GENERAL NOTES (FLOOR DRAIN/SINK SCHEDULE):

1. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

2. ALL FLOOR DRAINS SHALL INCLUDE AN ANCHORING FLANGE.

3. INSULATE BODY, TAILPIECE AND P-TRAP OF ALL FLOOR DRAINS SERVING HVAC EQUIPMENT.

4. PROVIDE BARRIER TYPE TRAP SEAL PROTECTION EQUAL TO RECTORSEAL "SURESEAL" ON ALL FLOOR DRAINS/SINKS.

* REFER TO FLOOR PLAN FOR PIPE SIZE.

	HYDRANT	/ HOSE B	IBB SCHEDULE
--	---------	----------	--------------

MARK	DESCRIPTION	MANUFACTURER, MODEL
WH-1	WALL HYDRANT; NON-FREEZE ENCLOSED TYPE WITH FACEPLATE, AUTOMATIC DRAINING, ANTI-SIPHON VACUUM	WOODFORD
	BREAKER, 3/4" THREADED INLETS, AND LOOSE TEE OPERATING KEY.	B65-CH
RH-1	ROOF HYDRANT; NON-FREEZE PEDESTAL TYPE, AUTOMATIC DRAINING, ANTI-SIPHON VACUUM	WOODFORD
	BREAKER. 3/4" THREADED INLETS. AND LOOSE TEE OPERATING KEY.	RHY2-MS

BACKFLOW PREVENTER SCHEDULE

MARK	DESCRIPTION	SIZE	LOCATION/SERVICE	MANUFACTURER, MODEL
BFP-1	DUAL CHECK VALVE BACKFLOW PREVENTER WITH VACUUM BREAKER, RELIEF VENT, AND Y-STRAINER	1/2"	ICE MAKERS	WATTS #007
BFP-2	DUAL CHECK VALVE BACKFLOW PREVENTER	1/2"	COFFEE MAKERS	WATTS #SD2



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	1	REV-1 Plan Review	01/27/21

Project No.: 62-40497-01

Client Project No.:

Drawing Title: PLUMBING SCHEDULES

Phase: BID SET Date: 12/22/2020 Designed: DCU Drawing No.: Drawn: DCU

Checked: KFF

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