

- SOIL AND WASTE PIPE SHALL SLOPE 2% MINIMUM, UNLESS OTHERWISE NOTED OR REQUIRED BY CODE
- ALL DRAWN WATER & GAS LINES SHALL BE KEPT TIGHT TO THE UNDERSIDE OF EQUIPMENT & SECURED IN PLACE.
- VERIFY THE LOCATION OF THE SANITARY SEWER ON THE SITE PLAN AND SHALL REVISE THE SEWER SYSTEM AS REQUIRED.
- PROVIDE TRAP PRIMERS FOR FLOOR DRAINS IN RESTROOMS, WHERE REQUIRED BY CODES. PROVIDE DEEP SEAL TRAPS FOR FLOOR DRAINS WITHOUT TRAP PRIMERS.
- ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC. AND THE OWNERS REPRESENTATIVE PRIOR TO ANY INSTALLATION.
- 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.
- ALL PLUMBING FIXTURE VENTS SHALL TERMINATE A MINIMUM OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM ANY OUTSIDE AIR INTAKE
- PROVIDE GAS PIPING TO UNITS AND ALL FINAL CONNECTIONS REQUIRED FOR OPERATION
- INSTALL SHUT-OFF VALVES ON ALL HOT & COLD WATER LINES TO FIXTURE OR APPLIANCE. ALL EXPOSED WATER AND WASTE LINES TO BE CHROME PLATED
- 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. 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.
- ALL VALVES, UNIONS, ETC. SHALL BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS
- REFER TO KITCHEN EQUIPMENT DRAWINGS FOR PLUMBING ROUGH-IN SCHEDULE & FOR ADDITIONAL WORK TO BE FURNISHED & INSTALLED BY CONTRACTOR. ALL ROUGH-IN PLUMBING AND FINAL CONNECTIONS TO KITCHEN EQUIPMENT SHALL BE MADE BY THE CONTRACTOR U.O.N.
- REFER TO MECHANICAL SHEETS FOR HVAC AND HOOD PLUMBING REQUIREMENTS
- ALL GAS LINES SHALL BE SUPPORTED SEE SPECS
- ALL FLOOR SINKS AND FLOOR DRAINS IN TRAFFIC AREAS SHALL BE INSTALLED FLUSH TO FLOOR SURFACE
- PROVIDE WATER HAMMER ARRESTOR FOR ALL HAND SINKS AND URINAL WATER LINES
- PROVIDE AIR GAPS FOR INDIRECT DRAINS AS REQUIRED BY CODE. AIR GAP SHALL BE MINIMUM 2 TIMES THE DIAMETER OF THE INDIRECT DRAIN.
- PRIOR TO COMMENCING WORK ON THIS PROJECT, 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, CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY.
- COORDINATE INSTALLATION OF PLUMBING WORK WITH ALL OTHER TRADES SO AS TO AVOID UNNECESSARY DELAY OR INTERFERENCES. CONTRACTOR SHALL REVIEW ARCHITECTURAL AND EQUIPMENT SHEETS.
- FURNISH & 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.
- PROVIDE CONDENSATE DRAIN FROM A/C UNITS TO APPROVED DRAIN. GAS PIPING TO UNITS AND ALL FINAL CONNECTIONS REQUIRED FOR OPERATION.
- THE OWNER OR KITCHEN EQUIPMENT SUPPLIER MAY SUBSTITUTE EQUIPMENT OR THE EQUIPMENT MAY VARY FROM WHAT IS SHOWN. THEREFORE, VERIFY ALL CRITICAL DIMENSIONS WITH THE OWNER PRIOR TO CONSTRUCTION. FAILURE OF THE CONTRACTOR TO VERIFY THESE DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATION DIRECTLY UPON THE CONTRACTOR.
- ALL WATER LINES SHALL BE RUN OVERHEAD U.O.N.
- ALL WATER LINES SHALL BE FLUSHED PRIOR TO CONNECTING ANY FIXTURES OR EQUIPMENT.
- PROVIDE ESCUTCHEON PLATES AND SILICONE SEALANT AT ALL UTILITY PENETRATIONS INTO WALLS, CEILINGS, AND FLOORS. DO NOT USE CAULKS OR EXPANDING FOAMS FOR SEALANT.
- CPVC SCHEDULE 40 WASTE PIPE CAN BE SUBSTITUTED FOR BLACK IRON WASTE PIPE WHERE ALLOWED BY LOCAL MUNICIPALITIES.
- PEX PLASTIC TUBING AND FITTING CAN BE USED AS AN OPTION. ALL INSTALLATION SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SHALL COMPLY WITH SECTION 605.10.1 AND SECTION 605.10.2

GENERAL NOTES

E

- IF GEN POWER SOAK SINK USED THEN ADD A MIXING VALVE TO SINK ABOVE SUSPENDED CEILING.

Order Plans @

KEYNOTE

F

SYMBOLS	ABBREV.	DESCRIPTION
	Y.B.	YARD BOX
	R.D.	ROOF DRAIN
	A.P.	ACCESS PANEL
	V.T.R.	VENT THRU ROOF
	V.B.F.	VENT BELOW FLOOR
	U.T.R.	UP THRU ROOF
	V.C.P.	VITRIFIED CLAY PIPE
	C.I.	CAST IRON
	A.C.P.	ASBESTOS CEMENT PIPE
	(N)	NEW
	(E)	EXISTING
⊕	F.D.	FLOOR DRAIN
⊙	H.D.	HUB DRAIN
⊖	OFD	OVERFLOW DRAIN
⊗	F.S.	FLOOR SINK
	G.L.	GAS LINE
	A.F.F.	ABOVE FINISHED FLOOR
(X-X) [0000]		PLUMBING EQUIPMENT DESIGNATION
(XXX)		KITCHEN EQUIPMENT NUMBER: REFER TO KITCHEN EQUIP. DRAWINGS FOR DESCRIPTION.
—SS—	◇	SOIL OR WASTE (SANITARY)/ WASTE STUB
—GW—	◇	SOIL OR WASTE (GREASE WASTE)/WASTE STUB
—G—	G	GAS / GAS STUB
—CW—	CW	COLD WATER / CW STUB
—HW—	HW	HOT WATER / HW STUB
—HWR—	H.W.R.	HOT WATER RETURN
—V—	V.	SANITARY VENT
—SD—	S.D.	STORM DRAIN
—CD—	C.D.	CONDENSATE DRAIN
⊕	F.C.O.	FLOOR CLEANOUT OR CLEANOUT TO GRADE
↑	W.C.O.	WALL CLEANOUT
—FW—	FW	FILTERED WATER
—TW—	TW	PREMIXED TEMPERATURE WATER
↑	H.B.	HOSE BIBB
↑	S.O.V.	SHUT-OFF GATE VALVE
↑	S.O.C.	SHUT-OFF GAS COCK
↑	C.V.	CHECK VALVE
↑	P.T.R.V.	PRESS-TEMPERATURE RELIEF VALVE
↑	B.V.	BALL VALVE
↑	C.W.	COLD WATER BELOW GRADE
⊕	E.C.O.	EXTERIOR CLEAN OUT
	BFP	BACK FLOW PREVENTER
	FU	FIXTURE UNIT

PLUMBING LEGEND

C

FIXTURE	NO.	DRAIN		COLD WATER		HOT WATER	
		D.F.U.	TOTAL D.F.U.	F.U. C.W.	TOTAL C.W.	F.U. H.W.	TOTAL H.W.
WATER CLOSET	2	4	8	5	15	--	--
URINAL	--	--	--	--	--	--	--
LAVATORY	2	1	2	1.5	3	1.5	3
HAND SINK	2	1	2	1.5	3	1.5	3
PREP SINK *	1	--	--	3	3	3	3
3 - COMPARTMENT SINK *	1	--	--	3	3	3	3
HOSE BIBB/WATER FILTRATION UNIT	2/1	--	--	2.5/1/1	3.5	--	--
FLOOR DRAIN	7	2	14	--	--	--	--
HUB DRAIN	1	2	2	--	--	--	--
FLOOR SINK	4	5	20	--	--	--	--
MOP SINK	1	2	2	2.25	2.25	2.25	2.25
REHEATER/MIXER*	1	--	--	--	--	1.0	1.0
TOTAL	--	--	50	--	37.75	--	15.25

PROBABLE DEMANDS/ AND PIPE SIZING REQUIREMENTS: COLD WATER: 37.75 FU = 22 GPM; 36 DFU; DRAIN: SAN 30 DFU; HOT WATER: 15.25 FU = 17 GPM. USE 1-1/2" CW SERVICE USE 4" SANITARY (MIN) USE 4" SANITARY (MIN) USE 1" HW SERVICE. BASED ON 2018 IPC (COMBINATION DRAIN & VENT). *FIXTURE HAS INDIRECT WASTE TO FLOOR SINK

WATER CALCULATION'S

B

ITEM	FIXTURE	SOIL OR WASTE	VENT	COLD WATER	HOT WATER	TEMPD WATER	WASTE FU	WATER FU	DESCRIPTION	MANUFACTURER / MODEL NUMBER
(ECO) 1	EXTERIOR CLEANOUT	--	--	--	--	--	--	--	CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, ROUND SCORIATED HEAVY CAST IRON COVER.	JOSAM / MODEL: 56000 WADE / MODEL: 6000Z ZURN / MODEL: Z-1400
(FS) 1	FLOOR SINK	4'	2'	--	--	--	6	--	LIGHT DUTY, ACID RESISTANCE, WHITE PVC FLOOR SINK W/ 12" SQUIRE WHIT PVC HALF GRATE AND STAINLESS STEEL DEBRIS BUCKET WITH LIFTING HANDLE.	SIQUX CHIEF / MODEL: 861-4PNOW
(FS) 2	FLOOR SINK	4'	2'	--	--	--	6	--	PVC 12" SQUARE FLOOR SINK, 6" DEEP, WITH ALUMINUM DOME STRAINER AND NICKEL BRONZE HINGED TOP.	SIQUX / MODEL: 861-4-PND
(FD) 1	FLOOR DRAIN (3')	3'	2'	--	--	--	2	--	LIGHT DUTY ADJUSTABLE PVC WITH THREADED ADAPTOR AND 5" DIAMETER NICKEL BRONZE RING AND FASTENED GRATE.	ZURAM / MODEL: FD-2210 SIQUX CHIEF-842 CAT# 72000
(ECO) 1	FLOOR CLEANOUT	--	--	--	--	--	--	--	CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, ROUND SCORIATED HEAVY CAST IRON COVER.	JOSAM / MODEL: 56000 WADE / MODEL: 6000Z ZURN / MODEL: Z-1400
(WCO) 1	WALL CLEANOUT	--	--	--	--	--	--	--	CAST IRON CLEANOUT TEE WITH INLET/OUTLET SPIGOT AND THREADED BRASS PLUG, WITH STAINLESS STEEL ACCESS COVER.	JOSAM / MODEL: 56510 WADE / MODEL: 8560E ZURN / MODEL: Z-1446 BP
(HB) 1	HOSE BIBB	--	--	3/4"	--	--	--	2.5/1	NON-FREEZE WALL HYDRANT WITH INTEGRAL VACUUM BREAKER, BRONZE CASING AND NICKEL BRONZE BOX.	JOSAM / MODEL: 71000 WADE / MODEL: 8660L ZURN / MODEL: Z-1300
(WC) 1	WATER CLOSET	4'	2'	1/2"	--	--	4	5	WHITE VITREOUS CHINA FLOOR MOUNTED FLOOR METER TANK (PRESSURE ASSISTED) TYPE, ELONGATED BOWL, ADA COMPLIANT, 1.1 G.P.O. WITH OPEN FRONT SEAT LESS COVER, OLSENITE #96 OR EQUIVALENT, FLOOR MOUNTED, SLOAN FLUSHMATE OR EQUAL. PROVIDE TANK COVER LOCK. FLUSH VALVES SHALL BE RIGHT HAND OR LEFT HAND AS REQUIRED TO CORRECT AND WITH ACCESS FROM WIDE SIDE OF STALL. VERIFY FLUSH SIDE REQUIREMENTS.	AM. STD. CADET / MODEL: 2467.100 KOHLER "HIGHLINE" / MODEL: K-3519 CRANE "ECONOMISER" / MODEL: 31888
(L) 1	LAVATORY	1-1/4"	1-1/2"	--	--	1/2"	1	1	WHITE VITREOUS CHINA WALL HUNG WITH CONCEALED ARMS SUPPORT, 4" CENTERS WITH INTEGRAL BACKSPASH, ADA ACCESSIBLE, FLAT GRID STRAINER, BRAIDED WATER LINES AND 0.5 GPM AERATOR. FAUCET: FURNISHED BY OWNER. INSTALLED BY G.C. BATTERY POWERED SLOAN #S2255, ADA COMPLIANT. SEE 8/P8.0 FOR LAV SUPPORT DETAIL.	A.S. COMRADE / MODEL: 0124 131
(S) 1	HAND SINK	1-1/2"	1-1/2"	1/2"	--	1/2"	1	5	316 STAINLESS STEEL HAND SINK WALL HUNG, INCLUDES A 6" GOOSENECK STAINLESS BRACKET, W/ KNEE PEDAL. BRAIDED WATER LINES, 0.5 GPM AERATOR.	...
(S) 2	MOP SINK	3'	2'	1/2"	1/2"	--	2	--	MOP SINK, AERO-3MP 2424-6 W/ 48" HIGH S/S LEFT SIDE AND BACK SPLASH. FURNISHED BY OWNER, INSTALLED BY GC. FAUCET: 1&S #B2465, WITH VACUUM BREAKER, FURNISHED BY OWNER, INSTALLED BY GC.	...
(S) 3	3-COMP. SINK	INDIRECT	--	1/2"	1/2"	--	3	--	SINK, FAUCET, 0.65 GPM NOZZLE, DRAIN, & GEN IV POWER SOAK STANDARD, GEN III IS AN OPTION FOR FRANCHISES.	...
(S) 4	PREP SINK	DIRECT	--	1/2"	1/2"	--	2	--	SINK, FAUCET, 0.65 GPM NOZZLE, & DRAIN.	...
(MV) 1	MIXING VALVE	--	--	1/2"	1/2"	--	--	--	THERMOSTATIC, 125 P516, 200VF BRONZE BODY, STAINLESS STEEL PISTON LINER, CHECK VALVES SIZE PER PIPE CONNECTIONS.	POWERS SERIES LF495 LAWLER SERIES 310 LEONARD SERIES 170
(WH) 1	WATER HEATER	--	--	1-1/2"	1-1/2"	--	--	--	GAS FIRED WATER HEATER, 98.5% THERMAL EFF., 120,000 BTUH INPUT, 60 GAL. STORAGE TANK, 138 GPH @ 100 DEG. RISE REC. RATE, 3" PVC FLUE & AIR INTAKE, ASME RTD TEMP. & PRESS. REL. VALVE, ELECTRONIC IGNITION SYSTEM AND ELECTRONIC CONTROLS. Call 800-477-1953 Option #1 for National Account Price & Service.	AO SMITH / BTH 120 STATE / SUF 100 120 NE
(ET) 1	EXPANSION TANK	--	--	3/4"	--	--	--	--	EXPANSION TANK, STEEL, EXPANSION MEMBRANE 150 PSI, 160" F, 12 GALLON CAPACITY.	WATTS SERIES DET AMTRLO SERIES ST WILKINS SERIES WXTP
(SA) 1	SHOCK ARRESTOR	--	--	1/2"	--	--	--	--	STAINLESS STEEL CASING WITH STAINLESS STEEL BELOW, PRECHARGED WITH NITROGEN SIZED PER PDI-WH201	WADE / SHOKSTOP JOSAM / MODEL: 75000 ZURN / SHOKTROL
(RO) 1	REVERSE OSMOSIS	INDIRECT	--	1/2"	--	--	--	--	REVERSE OSMOSIS FILTER SYSTEM BY OWNER, SEE DETAIL 9/P6.0	...
(HD) 1	HUB DRAIN	3'	2'	--	--	--	2	--	CAST IRON DEEP SEAL P-TRAP WITH FUNNEL, NO-HUB OUTLET AND BRASS GASKETED CLEANOUT PLUG.	JOSAM / MODEL: 88213 WADE / MODEL: 2453EF ZURN / MODEL: Z-1019
(BFP) 1	BACKFLOW PREVENTOR	--	--	VERIFY	--	--	1	--	REDUCED PRESSURE ZONE BACKFLOW PREVENTER, CAST BRONZE CONSTRUCTION WITH QUARTER TURN FULL-PORT BALL VALVES AND BRONZE STRAINER.	WATTS / MODEL: LF008M2QTS WILKINS / MODEL: 975XLS FEBCO / MODEL: 860
(GI) 1	GREASE INTERCEPTOR	4'	--	--	--	--	--	--	PRECAST 1,000 GALLON GREASE INTERCEPTOR. SEE SITE PLAN FOR EXTERIOR GREASE INTERCEPTOR LOCATION.	JENSEN / JP1000G

GREASE INTERCEPTOR SIZING TCB-40.

FIXTURE	QTY.	FIXTURE D.F.U.	TOTAL D.F.U.
MOP SINK	1	2	2
HAND SINKS	0	0	0
COMM. SINK 3-COMP. (FS)	1	3	3
PREP. SINK 1-COMP (FS)	1	2	2
FLOOR SINK	4	5	10
FLOOR DRAIN	5	2	10
TOTAL			27

TOTAL DRAIN FIXTURE UNITS = 27 DFU. FROM THE 2018 INTERNATIONAL PLUMBING CODE. SIZE OF THE GREASE INTERCEPTOR IS 1,000 GALLONS

PLUMBING SCHEDULE

A

ROBERT L. QUEATHEN
ENGINEER
1950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2800
www.rlcvc.com

CONTRACT DATE: XX/XX/20
BUILDING TYPE: ENDEAVOR MED 40
PLAN VERSION: SEPT 2020
BRAND DESIGNER: 200109
SITE NUMBER: 297222
STORE NUMBER: 003717

TACO BELL
8151 HWY 278 NW
COVINGTON, GA 30014



ENDEAVOR
"GO MOBILE"

PLUMBING SCHEDULES AND NOTES

P1.0