WATER CALCULATION WORKSHEET FOR: The Downtowner, Lake Geneva, WI, 53147

BUILDING INFORMATION				
1.	Demand of building in gallons per minute (65 SFU).	33	gpm	
2.	Size of the water meter. (Proposed size for hydraulic calcs, subject to Water Utility review.)	1.50	inch	
3.	Low pressure at building entrance.	35.0	psi	

Date Designer

(Line 9 + B1 - B2) 38.0 psi

0.060 psi/ft

6.0

"A" =

6.0 psi/100 ft

psi/100 ft

CALCULATE PRESSURE AVAILABLE AFTER BUILDING CONTROL VALVE

4.	Low pressure at building entrance.	40.0	psi
5.	Pressure loss due to water meter.	2.0	psi
6.	Available pressure after building water meter. (Line 6 - 7a - 7b - 8)	38.0	psi

CALCULATE PRESSURE AVAILABLE FOR UNIFORM LOSS (VALUE OF "A")

Pressure available for uniform loss. (Total Available Pressure / Developed Length.)

Pressure available for uniform loss per 100 ft. (Multiply by 100 / 100.)

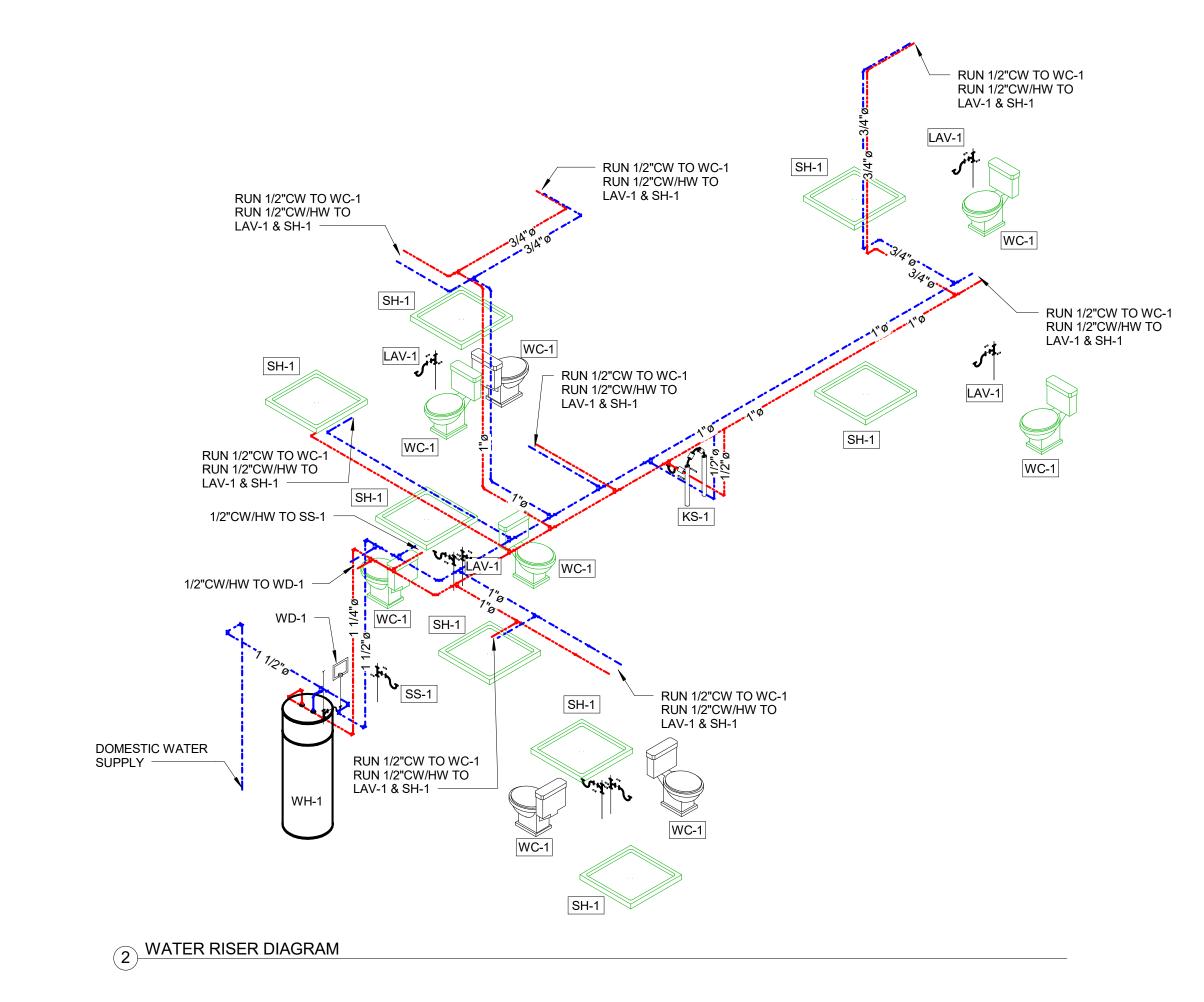
A. Pressure available for uniform loss per 100 ft. (Value rounded up to next integer.)

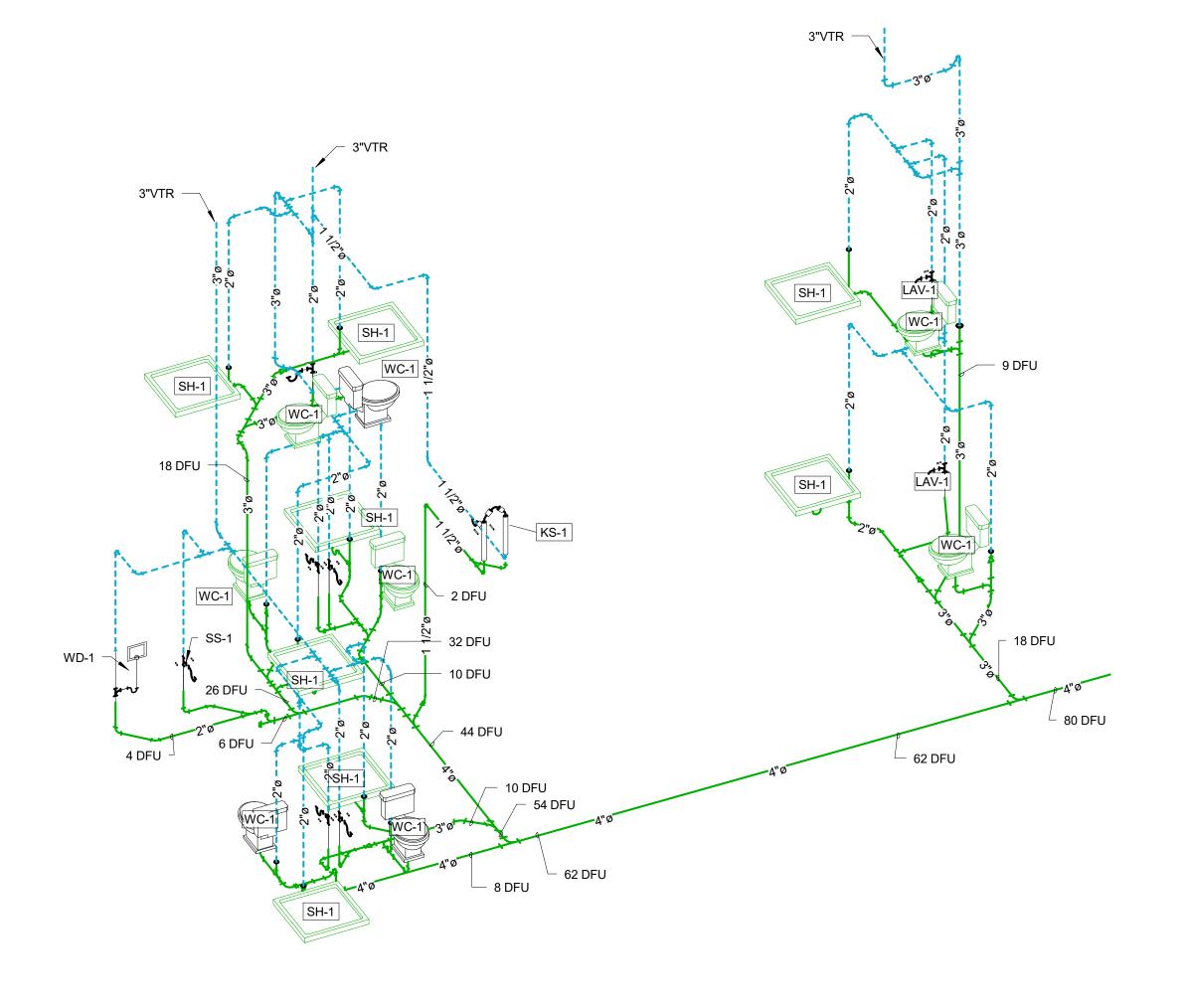
Available distribution pressure.

D.	Pressure required at controlling fixture. (Shower in second floor bathroom.)			20.0	psi
			Subtotal	18.0	psi
E.	Head loss from the building control valve to the controlling fixture. (Elevation change, multiply by 0.434 psi/ft.)				
	Elevation change ft	25		10.9	psi
			Subtotal	7.2	psi
F.	Pressure loss due to water treatment devices, instantaneous water heaters, backflow preventers, and other accessories which serve the controlling fixture.				
	N/A			0.0	psi
		Total Ava	ailable Pressure	7.2	psi
G.	Actual pipe length from building control valve to controlling fixture ft	80			
	Developed length. (Actual length, multiply by fitting/loss factor.)	fitting/loss factor	1.5	120.0	feet

Building Information:	Vacation Rental			
Drain fixture Unit Calculations				
FIXTURE	DFU/Unit	# of Units	Total DFU	
Shower	2	8	16	
Lavatory	1	8	8	
Water Closet	6	8	48	
Washing Machine	4	1	4	
Service Sink	2	1	2	
Kitchen sink	2	1	2	
		Total DFU's	80	

	ITEM	FIXTURE	DRAINAGE		WATER		
			WASTE	VENT	НОТ	COLD	
	KS-1	KITCHEN SINK	1-1/2"	1-1/2"	1/2"	1/2"	
	LAV-1	LAVATORY	2"	2"	1/2"	1/2"	
	SH-1	SHOWER	2"	2"	1/2"	1/2"	
	SS-1	SERVICE SINK	2"	2"	1/2"	1/2"	
	WC-1	WATER CLOSET	3"	2"	-	1/2"	
	WD-1	WASHER BOX	2"	2"	1/2"	1/2"	



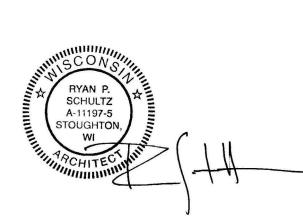


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Plumbing Designer: Zenteno Solutions 1530 P B Lane # Z4646 WICHITA FALLS, TX, 76302 roberto@zenteno.net | 832.449.9278



#1075-B, 10th main, HAL 2nd stage, Bengaluru -08 HVAC Designer: Desapex shreenidhi@desapex.com



opening design

Architect: OpeningDesign 312 W. Lakeside St. | Madison, WI 53715 hello@openingdesign.com | 773-425-6456

Date	Description
05.03.2017	Issue for Permit
05.22.2017	Issue for Bid
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RISER DIAGRAMS | 640 West Main Street, Lake Geneva, WI 53147

1 SANITARY RISER DIAGRAM

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