

Preliminary calculations show an incoming domestic water pipe size of 2-1/2". The combined domestic and cold water gpm load, calculated using methods described in 2012 IPC, is 72.0 GPM. The main sanitary building drain pipe size is 4".

PROJECT NAME: East Lees Summit Library JOB NUMBER: 1013.004 DATE: August 16, 2018

CALCULATED BY: DRS
CHECKED BY: RDH

INTERNATIONAL PLUMBING CODE - 2012										
FIXTURE TYPE	QTY	FIXTURE UNITS PER FIXTURE				TOTAL FIXTURE UNITS				
		WASTE	COLD	HOT	COMB. C/H	WASTE	COLD	нот	COMB. C/H	
Bathroom Group - Priv. FT		5.0	2.7	1.5	3.6	0	0	0	0	
Bathroom Group - Priv. FV		6.0	6.0	3.0	8.0	0	0	0	0	
Bathtub - Private		2.0	1.0	1.0	1.4	0	0	0	0	
Bathtub - Public		2.0	3.0	3.0	4.0	0	0	0	0	
Bidet - Private		1.0	1.5	1.5	2.0	0	0	0	0	
Dishwashing Mach Resid.	1	2.0	0.0	1.4	1.4	2	0	1.4	1.4	
Dishwashing Mach Comm.		4.0	0.0	6.0	6.0	0	0	0	0	
Hose Bibb	8	0.0	1.5	0.0	1.5	0	12	0	12	
Drinking Fountain	1	0.5	0.25	0.0	0.25	0.5	0.25	0	0.25	
Kitchen Sink - Single	2	2.0	1.0	1.0	1.4	4	2	2	2.8	
Kitchen Sink - Double		2.0	3.0	3.0	4.0	0	0	0	0	
3 Compartment Sink		3.0	3.0	3.0	5.0	0	0	0	0	
Laundry Tray/Tub - Priv.		2.0	1.0	1.0	1.4	0	0	0	0	
Lavatory - Private		1.0	0.5	0.5	0.7	0	0	0	0	
Lavatory - Public	9	1.0	1.5	1.5	2.0	9	13.5	13.5	18	
Service Sink	1	2.0	2.25	2.25	3.0	2	2.25	2.25	3	
Shower Valve - Public		2.0	3.0	3.0	4.0	0	0	0	0	
Shower Valve - Private		2.0	1.0	1.0	1.4	0	0	0	0	
Urinal - 1" FV		4.0	10.0	0.0	10.0	0	0	0	0	
Urinal - 3/4" FV	1	2.0	5.0	0.0	5.0	2	5	0	5	
Clothes Wash. Mach 8		2.0	1.0	1.0	1.4	0	0	0	0	
Clothes Wash. Mach 15		2.0	3.0	3.0	4.0	0	0	0	0	
Clothes Wash. Mach C		3.0	4.0	4.0	6.0	0	0	0	0	
Water Closet - Private FV		4.0	6.0	0.0	6.0	0	0	0	0	
Water Closet - Private FT		4.0	2.2	0.0	2.2	0	0	0	0	
Water Closet - Public FV	7	4.0	10.0	0.0	10.0	28	70	0	70	
Water Closet - Public FT		4.0	5.0	0.0	5.0	0	0	0	0	
Water Closet - FMT		4.0	2.0	0.0	2.0	0	0	0	0	
Floor Drain - Emergency		0.0	0.0	0.0	0.0	0	0	0	0	
Floor Drain	5	2.0	0.0	0.0	0.0	10	0	0	0	
3/8" Supply		1.0	1.0	1.0	1.5	0	0	0	0	
1/2" Supply		1.5	1.0	1.0	1.5	0	0	0	0	
1/2" CW Supply	3	1.5	1.0	0.0	1.0	4.5	3	0	3	
1" Supply		3.0	2.5	2.5	3.0	0	0	0	0	

FU Totals:	62	108	19.15	115.45
GPM:		69.7	19.6	72.0
Minimum Pipe Size:	4"	2"	1-1/2"	2-1/2"

^{*}Please note that calculations are based on preliminary design drawings as of 7-30-2018, and may change during the building construction document process