



LRL File No. 220536-03
Project: Commercial Development
Location: 5254 Bank Street
Date: April 2, 2024
Designed: K. Herold
Drawing Ref.: C401

Sanitary Pipe Sizing

DESIGN GUIDELINES

Sanitary Design Parameters	
Avg. Daily Flow	280 L/p/day
Commercial & Industrial Flow	28000 L/ha/day
Light Industrial Flow	35000 L/ha/day
Heavy Industrial Flow	55000 L/ha/day
Maximum Residential Peak Factor	4
Industrial Peak Factor (as per Appendix 4-B)	7
Commercial & Industrial Peak Factor	1.5
Extraneous Flow	0.33 L/s/gross ha

Pipe Design Parameters	
Minimum velocity	Manning's "n"
0.60 m/s	0.013

Domestic Demand			
Unit Type	Persons/Unit	No. of Units	Pop.
1 bedroom apartment	1.4	0	0.0
2 bedroom apartment	2.1	0	0.0
3 bedroom apartment	3.1	0	0.0
Single family dwelling	3.4	0	0.0
		0	0.0

LOCATION			RESIDENTIAL					COMMERCIAL		INDUSTRIAL		INSTITUTIONAL		C-I-I	INFILTRATION			TOTAL	PIPE							
STREET	From	To	AREA	POP.	CUMMULATIVE	PEAK	PEAK	AREA	ACCU.	AREA	ACCU.	PEAK	AREA	ACCU.	PEAK	TOTAL	ACCU.	INFILT.	TOTAL	LENGTH	DIA.	SLOPE	MAT.	CAP. (FULL)	VEL. (FULL)	
			(ha)		AREA	FACT.	FLOW	(ha)	AREA	AREA	AREA	FACT.	(ha)	AREA	FLOW	(ha)	AREA	FLOW	(ha)	(ha)	(L/s)	(m)	(mm)	(%)		(L/s)
Bank Street	Prop. Bldg	Septic	0.000	0.0	0.000	0.0	4.0	0.00	0.000	0.000	0.172	0.172	7.0	0.000	0.000	0.49	0.172	0.172	0.06	0.54	5.0	150	2.00%	PVC	21.54	1.22