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 AREA**	**CUMMULATIVE POP.**	**PEAK FACT.**	**PEAK FLOW**	**AREA**	**ACCU. AREA**	**AREA**	**ACCU. AREA**	**PEAK FACT.**	**AREA**	**ACCU. AREA**	**PEAK FLOW**	**TOTAL AREA**	**ACCU. AREA**	**INFILT. FLOW**	**TOTAL FLOW**	**LENGTH**	**DIA.**	**SLOPE**	**MAT.**	**CAP. (FULL)**	**VEL. (FULL)**
			(ha)		(ha)			(L/s)	(ha)	(ha)	(ha)	(ha)		(ha)	(ha)	(L/s)	(ha)	(ha)	(L/s)	(L/s)	(m)	(mm)	(%)		(L/s)	(m/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
					0.000	0.0				0.000		0.172			0.000			0.172								