



PROJECT: Lora Bay Phase 4 Block 39
 PROJECT #: 183-5908
 FILE: Sanitary Sewer Design

LORA BAY PHASE 4 BLOCK 39
SANITARY SEWER DESIGN MODEL

DESIGN: Z. Holland
 CHECK: A. Spencer
 UPDATED: September 29, 2021

N = 0.013
 Population = 2.3 p.p.u.

Peak Factor (M) = $1 + (14/4 + (P/1000)^{0.5})$
 Avg. Daily/Capita Flow = 450 L/cap.d
 Q infiltration = 0.23 L/ha.s

Units	FROM SAN MH	TO SAN MH	Catchment Area I.D.	Length (m)	Area (Ha)	Units	Pop.	TOTAL trib pop	Peak Factor	Avg. Flow (l/s)	Max Flow (l/s)	Infiltr. (l/s)	TOTAL Infiltr.	Combined (l/s)	Pipe Diam (mm)	Upper Inv. El.	Lower Inv. El.	Slope (%)	Cap. (l/s)	Vel. (m/s)	Ground Upper	Ground Lower	Cover Upper	Cover Lower
Block 1, 2	SANMH#8	SANMH#7	8	51.2	0.25	7	16	16	4.39	0.08	0.37	0.06	0.06	0.43	200	206.65	206.14	1.00%	32.80	1.04	209.99	209.73	3.14	3.39
Block 2, 3, 4	SANMH#9	SANMH#7	9	77.8	0.41	11	25	25	4.37	0.13	0.58	0.09	0.09	0.67	200	206.92	206.14	1.00%	32.80	1.04	210.12	209.73	3.00	3.39
-	SANMH#7	SANMH#6	7	21.8	0.04	0	0	41	4.33	0.22	0.93	0.01	0.16	1.09	200	206.06	205.95	0.50%	23.19	0.74	209.73	209.41	3.47	3.26
-	SANMH#6	SANMH#5	6	18.0	0.01	0	0	41	4.33	0.22	0.93	0.00	0.16	1.10	200	205.90	205.81	0.50%	23.19	0.74	209.41	209.17	3.31	3.16
Block 5	SANMH#13	SANMH#10	13	36.6	0.19	5	12	12	4.41	0.06	0.26	0.04	0.04	0.31	200	206.45	206.09	1.00%	32.80	1.04	208.09	207.91	1.44	1.62
Block 6	SANMH#11	SANMH#10	12	39.1	0.19	5	12	12	4.41	0.06	0.26	0.04	0.04	0.31	200	206.48	206.09	1.00%	32.80	1.04	207.71	207.91	1.03	1.62
-	SANMH#10	SANMH#5	10	33.2	0.03	0	0	23	4.37	0.12	0.52	0.01	0.09	0.62	200	206.01	205.84	0.50%	23.19	0.74	207.91	209.17	1.70	3.13
Block 7	SANMH#4	SANMH#3	2, 4	25.1	0.18	5	12	12	4.41	0.06	0.26	0.04	0.04	0.31	200	206.17	205.92	1.00%	32.80	1.04	209.43	209.33	3.06	3.21
-	SANMH#3	SANMH#5	5	5.1	0.01	0	0	12	4.41	0.06	0.26	0.00	0.04	0.31	200	205.87	205.84	0.50%	23.19	0.74	209.33	209.17	3.26	3.13
-	SANMH#5	SANMH#1	3	41.9	0.08	0	0	76	4.27	0.40	1.69	0.02	0.32	2.01	200	205.76	205.55	0.50%	23.19	0.74	209.17	209.47	3.21	3.72
-	SANMH#1	Sanitary Stub	1	11.7	0.01	0	0	76	4.27	0.40	1.69	0.00	0.32	2.01	200	205.50	205.44	0.50%	23.19	0.74	209.47	-	3.77	-