

SANITARY SEWER DESIGN SHEET 150 STEELES AVE (MERITOR) Town of Milton, Halton Region	PROJECT DETAILS Project No: 21-678 Date: MAR 2025 Designed by: MH Checked by: SR	DESIGN CRITERIA Min Diameter = 200 mm Avg. Domestic Flow = 215.0 l/c/d Mannings 'n' = 0.013 Infiltration = 0.286 l/s/ha Min. Velocity = 0.6 m/s Max. Peaking Factor = 4.50 Max. Velocity = 3.0 m/s Min. Peaking Factor = 2.00 Factor of Safety = 30 %
NOMINAL PIPE SIZE USED		

STREET	FROM MH	TO MH	RESIDENTIAL							COMMERCIAL/INDUSTRIAL/INSTITUTIONAL							FLOW CALCULATIONS							PIPE DATA						
			AREA (ha)	ACC. AREA (ha)	UNITS (#)	DENSITY (P/ha)	DENSITY (P/unit)	POP	ACCUM. RES. POP.	AREA (ha)	ACC. AREA (ha)	EQUIV. POP. (p/ha)	FLOW RATE (l/s/ha)	EQUIV. POP.	ACCUM. EQUIV. POP.	INFILTRATION (l/s)	TOTAL ACCUM. POP.	PEAKING FACTOR	RES. FLOW (l/s)	COMM. FLOW (l/s)	ACCUM. COMM. FLOW (l/s)	TOTAL FLOW (l/s)	LENGTH (m)	SLOPE (%)	PIPE DIAMETER (mm)	FULL FLOW CAPACITY (l/s)	FULL FLOW VELOCITY (m/s)	ACTUAL VELOCITY (m/s)	PERCENT FULL (%)	
BLOCK 18	CTRL MH1A	MH2A	0.49	0.49	411		1.9	781	781								0.1	781	3.87	7.5			7.7		1.00	200	32.8	1.0	0.82	23%
STREET A	MH2A	MH3A	0.54	1.03					781								0.3	781	3.87	7.5			7.8		0.50	200	23.2	0.7	0.64	34%
BLOCK 19	CTRL MH4A	MH3A	0.24	0.24	80		1.9	152	152								0.1	152	4.19	1.6			1.7		1.00	200	32.8	1.0	0.54	5%
STREET A	MH3A	MH5A		1.27					933								0.4	933	3.82	8.9			9.2		0.50	200	23.2	0.7	0.69	40%
STREET A	MH5A	MH6A		1.27					933								0.4	933	3.82	8.9			9.2		0.50	200	23.2	0.7	0.69	40%
BLOCK 20	CTRL MH7A	MH6A	0.96	0.96	295		1.9	561	561								0.3	561	3.95	5.5			5.8		1.00	200	32.8	1.0	0.78	18%
BLOCK 16	CTRL MH8A	MH6A	0.74	0.74	424		1.9	806	806								0.2	806	3.86	7.7			8.0		1.00	200	32.8	1.0	0.85	24%
STREET A	MH6A	MH9A	0.65	3.62					2300								1.0	2300	3.54	20.2			21.3		0.50	250	42.0	0.9	0.85	51%
BLOCK 21	CTRL MH10A	MH9A	1.40	1.40	949		1.9	1804	1804								0.4	1804	3.62	16.3			16.7		1.00	200	32.8	1.0	1.03	51%
BLOCK 13	CTRL MH11A	MH9A	0.45	0.45	388		1.9	738	738								0.1	738	3.88	7.1			7.3		1.00	200	32.8	1.0	0.82	22%
STREET A	MH9A	MH12A		5.47					4842								1.6	4842	3.26	39.3			40.8		0.50	300	68.4	1.0	1.00	60%
STREET A	MH12A	MH13A		5.47					4842								1.6	4842	3.26	39.3			40.8		0.50	300	68.4	1.0	1.00	60%
BLOCK 14	CTRL MH14A	MH15A	0.56	0.56	329		1.9	626	626								0.2	626	3.92	6.1			6.3		1.00	200	32.8	1.0	0.79	19%
STREET B	MH15A	MH16A	0.69	1.25					626								0.4	626	3.92	6.1			6.5		0.50	200	23.2	0.7	0.63	28%
BLOCK 17	CTRL MH17A	MH16A	0.28	0.28	209		1.9	398	398								0.1	398	4.02	4.0			4.1		1.00	200	32.8	1.0	0.70	12%
EX COMMERCIAL (HONDA)	CTRL MH18A	MH16A	2.61	2.61	1200		1.9	2280	2280								0.7	2280	3.54	20.1			20.8		1.00	250	59.5	1.2	1.09	35%
STREET B	MH16A	MH19A		4.14					3304								1.2	3304	3.41	28.0			29.2		0.50	300	68.4	1.0	0.90	43%
STREET B	MH19A	MH20A		4.14					3304								1.2	3304	3.41	28.0			29.2		0.50	300	68.4	1.0	0.90	43%
#REF!	MH20A	MH13A	0.09	4.23					3304								1.2	3304	3.41	28.0			29.2		0.50	300	68.4	1.0	0.90	43%
STREET A	MH13A	MH21A		9.70					8146								2.8	8146	3.04	61.7			64.4		0.50	375	124.0	1.1	1.11	52%
STREET A	MH21A	MH22A	0.51	10.21					8146								2.9	8146	3.04	61.7			64.6		0.50	375	124.0	1.1	1.11	52%
BLOCK 2	CTRL MH23A	MH24A	0.74	0.74		260			193								0.2	193	4.15	2.0			2.2		1.00	200	32.8	1.0	0.60	7%
STREET A	MH24A	MH22A		0.74					193								0.2	193	4.15	2.0			2.2		0.50	200	23.2	0.7	0.47	10%
BLOCK 1	CTRL MH25A	MH22A	0.49	0.49	197		1.9	375	375								0.1	375	4.04	3.8			3.9		1.00	200	32.8	1.0	0.70	12%
STREET E	MH22A	MH26A		11.44					8714								3.3	8714	3.01	65.4			68.6		0.50	375	124.0	1.1	1.13	55%

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BLOCK 3	CTRL MH27A	MH26A	0.47	0.47	186		1.9	354	354								0.1	354	4.05	3.6			3.7		1.00	200	32.8	1.0	0.69	11%
STREET E	MH26A	MH28A	0.27	12.18					9068								3.5	9068	3.00	67.6			71.1		0.50	375	124.0	1.1	1.13	57%
BLOCK 5	CTRL MH29A	MH28A	0.58	0.58	338		1.9	643	643								0.2	643	3.92	6.3			6.4		1.00	200	32.8	1.0	0.80	20%
STREET E	MH28A	MH31A		12.76					9711								3.6	9711	2.97	71.7			75.4		0.50	375	124.0	1.1	1.16	61%
BLOCK 4	CTRL MH30A	MH31A	1.65	1.65		260		429	429								0.5	429	4.01	4.3			4.8		1.00	200	32.8	1.0	0.73	14%
STREET E	MH31A	MH32A		14.41					10140								4.1	10140	2.95	74.4			78.5		0.50	375	124.0	1.1	1.16	63%
BLOCK 22	CTRL MH33A	MH34A	1.04	1.04		40		42	42								0.3	42	4.33	0.5			0.7		1.00	200	32.8	1.0	0.41	2%
STREET D	MH34A	MH32A	0.87	1.91					42								0.5	42	4.33	0.5			1.0		0.50	200	23.2	0.7	0.36	4%
STREET D																														
BLOCK 06	CTRL MH35A	MH32A	0.53	0.53	234		1.9	445	445								0.2	445	4.00	4.4			4.6		1.00	200	32.8	1.0	0.73	14%
STREET D	MH32A	MH36A		16.85					10627								4.8	10627	2.93	77.4			82.3		0.50	375	124.0	1.1	1.18	66%
STREET D	MH36A	MH37A		16.85					10627								4.8	10627	2.93	77.4			82.3		0.50	375	124.0	1.1	1.18	66%
STREET D	MH37A	MH38A		16.85					10627								4.8	10627	2.93	77.4			82.3		0.50	375	124.0	1.1	1.18	66%
BLOCK 8 (FUT. RESIDENTIAL)	CTRL MH39A	MH38A	0.13	0.13		260		34	34								0.0	34	4.35	0.4			0.4		1.00	200	32.8	1.0	0.27	1%
STREET D	MH38A	MH40A		16.98					10661								4.9	10661	2.93	77.7			82.5		0.50	450	201.6	1.3	1.18	41%
MARTIN STREET	MH40A	MH41A		16.98					10661								4.9	10661	2.93	77.7			82.5		0.50	450	201.6	1.3	1.18	41%
MARTIN STREET	MH41A	MH42A		16.98					10661								4.9	10661	2.93	77.7			82.5		0.50	450	201.6	1.3	1.18	41%
WOODWARD AVENUE	MH42A	MH43A		16.98					10661								4.9	10661	2.93	77.7			82.5		0.50	450	201.6	1.3	1.18	41%
WOODWARD AVENUE	MH43A	MH44A		16.98					10661								4.9	10661	2.93	77.7			82.5		3.50	450	533.4	3.4	2.41	15%
WOODWARD AVENUE	MH44A	MH45A		16.98					10661								4.9	10661	2.93	77.7			82.5		1.50	450	349.2	2.2	1.78	24%
WOODWARD AVENUE	MH45A	EX MH		16.98					10661								4.9	10661	2.93	77.7			82.5		1.00	450	285.1	1.8	1.52	29%