

Appendix C

Sanitary Study



Legend

- Sanitary Sewer Manholes
- Sanitary Sewers
- Combined Sewer Manholes
- Combined Sewers
- Dual Manholes
- Street Centreline
- Parcels



1:7,162

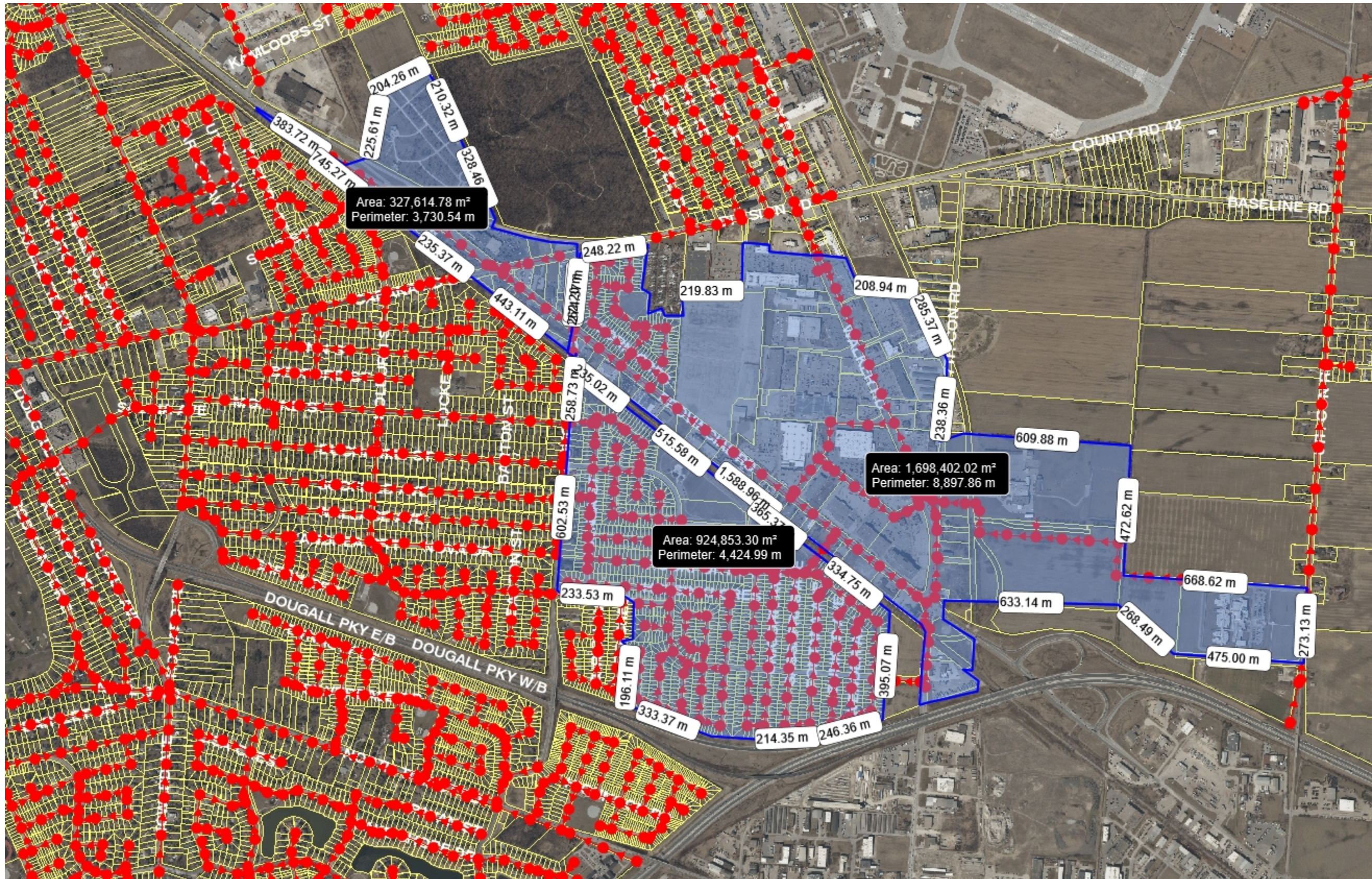
363.8 0 181.91 363.8Meters

Notes



Legend

- Sanitary Sewer Manholes
- Sanitary Sewers
- Combined Sewer Manholes
- Combined Sewers
- Dual Manholes
- Street Centreline
- Parcels



1: 14,324

727.6 0 363.82 727.6 Meters

Notes

**6TH CONCESSION ROAD PROPOSED APARTMENT BUILDING
SANITARY SEWER DESIGN SHEET (Ultimate D.A Design)**

Land Use	Population Density Code	AVERAGE DAILY PER CAPITA FLOW PEAK EXTRANEIOUS FLOW	0.0042 L/s/c 363 L/cap/day 0.156 L/ha/s	According To City Windsor development manual = 0.0042 L/s/cap = 0.0042x24x60x60 = 363 L/cap/day	Project : 6TH CONCESSION ROAD PROPOSED APARTMENT BUILDING
Residential	50 Persons/ha	VELOCITY RANGE	0.75 m/s to 3 m/s	MOE HARMON PEAKING FACTOR	Client : PAWAN
Commercial	74 Persons/ha	MINIMUM PIPE SIZE	200 mm	M = 1 + 14/ 4+P ^{0.5}	
Industrial	62 Persons/ha			P = DESIGN POPULATION, IN THOUSANDS	
Institutional	22 Persons/ha				

LOCATION				DESIGN AREA SERVED (ha)		DESIGN POPULATION (PERSONS)		PEAKING FACTOR	MAXIMUM FLOW			SEWER DATA								PROFILE			
STREET OR EASEMENT	Area Included	From Node	To Node	INCREMENT	TOTAL	INCREMENT	TOTAL		LOTS/UNITS	INFILTRATION (L/s)	SEWAGE (L/S)	TOTAL SEWAGE AND INFILTRATION (L/s)	Dia. (m) Actual	Dia. (mm)	Type	Manning's "n"	Slope (%)	Length (m)	Capacity (L/s)	Velocity (m/s)	Ratio (%)	Upstream Elevation	Downstream Elevation
																					Invert (m)	Invert (m)	
6TH CONESSION ROAD	A1	PROPOSED BUILDING	SPAGO CRES JUNCTION	0.840	0.840	27	95	95	4.25	0.131	1.69	1.82	0.250	250	PVC	0.013	0.39%	104.83	37.142	0.76	4.90	187.467	187.058
HOLBURN STREET / ZURICH ROAD	A1+A2	MH 7S4615	MH 7S4661	8.810	9.650	120	441	535	3.96	1.505	8.90	10.40	0.250	250	PVC	0.013	0.39%	75.02	37.142	0.76	28.01	186.756	186.463
HOLBURN STREET / PROVIDENEC CRESCENT	A1+A2+A3	MH 7S3990	MH 7S3989	16.960	26.610	180	848	1383	3.70	4.151	21.53	25.68	0.300	300	PVC	0.013	0.30%	46.00	52.972	0.75	48.47	183.885	183.747
HOLBURN PARK	A4	MH 7S4732	MH 7S3987	2.200	2.200		0	0	0.00	0.343	0.00	0.34	0.300	300	PVC	0.013	0.34%	25.70	56.393	0.80	0.61	183.402	183.315
MARLO CRT/ HOLBURN STREET	A1-A5	MH 7S3987	MH 7S3986	8.180	36.990	90	409	1792	3.62	5.770	27.27	33.04	0.300	300	PVC	0.013	0.34%	57.50	56.393	0.80	58.59	183.256	183.061
HOLBURN STREET/NOVA STREET	A1-A6	MH 7S3071	MH 7S10150	9.230	46.220	66	462	2254	3.54	7.210	33.56	40.77	0.300	300	PVC	0.013	0.25%	96.02	48.357	0.68	84.32	181.076	180.836
HOLBURN STREET/WALLACE AVENUE	A1-A7	MH 7S10150	MH 7S2596	6.560	52.780	56	328	2582	3.50	8.234	37.93	46.16	0.300	300	PVC	0.013	0.25%	101.02	48.357	0.68	95.46	180.838	180.585
HOLBURN STREET/SCOFIELD AVENUE	A1-A8	MH 7S2596	MH 7S2599	6.470	59.250	49	324	2905	3.45	9.243	42.16	72.93	0.375	375	PVC	0.013	0.34%	127.03	102.247	0.93	71.33	180.598	180.166
HOLBURN STREET/DUCHARME	A1-A9	MH 7S2602	MH 7S2603	9.590	68.840	49	480	3385	3.40	10.739	48.31	59.05	0.450	450	PVC	0.013	0.24%	78.02	139.691	0.88	42.27	179.997	179.810
WEST PROVINCIAL RD	A10	MH 7S3087	MH 7S3086	30.630	30.630		2267	2267	4.25	4.778	40.43	45.20	0.300	300	PVC	0.013	0.37%	126.10	58.828	0.83	76.84	181.844	181.377
EAST PROVINCIAL RD	A11	MH 7S3647	MH 7S3086	135.130	135.130		9666	9666	3.18	21.080	128.99	150.07	0.600	600	PVC	0.013	0.15%	107.12	237.836	0.84	63.10	180.899	180.738
6TH CONESSION ROAD / PROVINCIAL	A10,A11	MH 7S3086	MH 7S3085	0.000	165.760		0	11932	3.05	25.859	152.67	178.53	0.675	675	PVC	0.013	0.08%	65.22	237.785	0.66	75.08	180.720	180.668
6TH CONESSION ROAD / MORAND STREET	A10-A12	MH7S10157	MH7S10158	106.670	272.430		5531	17463	2.82	42.499	207.04	249.54	0.750	750	PVC	0.013	0.56%	138.80	833.208	1.89	29.95	180.924	180.147
MORAND ST TRUNK SEWER	A1-A13	MH 7S2603	MH 7S2604	9.348	350.618		467	21315	2.71	54.696	242.83	297.53	0.900	900	PVC	0.013	0.06%	126.52	443.491	0.70	67.09	179.610	179.534



Design By:	Kolja Nikac		
PROJECT NO:	21-150	6TH CONCESSION ROAD PROPOSED APARTMENT BUILDING	Checked:
			G.S.