

WEST PARRY SOUND POOL AND CULTURAL PROJECT MUNICIPAL SITE SERVICE COST COMPARISON CCT VS TULLOCH

	CC Tatham Estimate			CC Tatham Estimate Revised			CC Tatham Estimate Revised for Public Slide	Tulloch Estimates Revised			
	UNIT PRICE	EST. QTY.	AMOUNT	UNIT PRICE	EST. QTY.	AMOUNT		UNIT PRICE	UNIT	EST. QTY.	AMOUNT
General											
Bonds & Insurance			\$25,000			\$25,000		Allow		\$20,000	
Mobilization			\$50,000			\$50,000		Allow		\$25,000	
Blasting - Vibration Monitoring and Pre-Construction Survey			\$50,000			\$50,000		Allow		\$50,000	
Traffic Control			\$20,000			\$30,000		Allow		\$5,625	
Silt, Erosion & Dewatering Controls			\$25,000			\$25,000		Allow		\$20,000	
General Utility Costs			\$30,000			\$50,000		Allow		\$30,000	
Geotech			\$25,000			\$25,000		Allow		\$25,000	
TOTAL GENERAL			\$225,000			\$255,000	\$225,000.00			\$175,625	
WATER & SANITARY											
INTERNAL - WATER AND SANITARY for Building		100 M from New Road			100 M from New Road				130 m from New Road		
WATER											
150 mm (6") diameter Watermain	\$300	100	\$30,000	\$300	100	\$30,000		\$425 m	160	\$68,000	
Fire Hydrants	\$8,000	1	\$8,000	\$8,000	1	\$8,000		\$7,500 ea.	1	\$7,500	
Waterbooster Pump								\$150,000	1	\$150,000	
SANITARY											
150 mm (6") diameter Forcemain	\$300	0	\$0	\$300	0	\$0				\$0	
200 mm (8") diameter Gravity Sanitary Sewer	\$400	100	\$40,000	\$400	100	\$40,000		\$325 m	160	\$52,000	
1200 mm (48") diameter Sanitary Man Hole	\$8,500	2	\$17,000	\$8,500	2	\$17,000		\$8,500 m	2	\$17,000	
Watermain and Sanitary Common Trench Rock	\$175	0	\$0	\$175	0	\$0		\$90 m ³	800	\$72,000	
TOTAL INTERNAL WATER & SANTIARY for BUILDING LOT			\$95,000			\$95,000				\$366,500	
INTERNAL - WATER & SANITARY for NEW ROAD											
WATER											
150 mm (6") diameter Watermain	\$300	150	\$45,000	\$300	150	\$45,000		\$425 m	0	\$0	
200 mm (8") diameter Watermain	\$400	0	\$0	\$400	0	\$0		\$525 m	130	\$68,250	
Fire Hydrants	\$8,000	2	\$16,000	\$8,000	2	\$16,000		\$7,500 ea.	1	\$7,500	
SANITARY			\$5,000			\$5,000				\$0	
150 mm (6") diameter Forcemain	\$300	0	\$0	\$300	0	\$0		\$0 m		\$0	
200 mm (8") diameter Gravity Sanitary Sewer	\$400	150	\$60,000	\$400	150	\$60,000		\$325 m		\$0	
300 mm (12") diameter Gravity Sanitary Sewer	\$600	0	\$0	\$600	0	\$0		\$525 m	130	\$68,250	
1200 mm (48") diameter Sanitary Man Hole	\$8,500	3	\$25,500	\$8,500	3	\$25,500		\$8,500 m	3	\$25,500	
Watermain and Sanitary Common Trench Rock	\$175	1,400	\$245,000	\$175	1,400	\$245,000		\$90 m ³	400	\$36,000	
TOTAL INTERNAL WATER & SANTIARY for NEW ROAD			\$396,500			\$396,500				\$205,500	
TOTAL INTERNAL WATER & SANITARY			\$491,500			\$491,500	\$491,500.00			\$572,000	
EXTERNAL - WATER & SANITARY		125m from PS Drive to Beatty			125m from PS Drive to Beatty						
WATER											
150 mm (6") diameter Watermain	\$300	160	\$48,000	\$300	160	\$48,000		\$425 m	0	\$0	
200 mm (8") diameter Watermain	\$400	0	\$0	\$400	0	\$0		\$525 m	80	\$42,000	
Fire Hydrants	\$8,000	1	\$8,000	\$8,000	1	\$8,000		\$7,500 ea.	0	\$0	
Connect to Existing Watermain	\$5,000	1	\$5,000	\$5,000	1	\$5,000		\$5,000 ea.	1	\$5,000	
SANITARY											
300 mm (12") diameter Gravity Sanitary Sewer	\$600	305	\$183,000	\$600	305	\$183,000		\$525 m	182	\$95,550	
1200 mm (48") diameter Sanitary Man Hole	\$8,500	4	\$34,000	\$8,500	4	\$34,000		\$8,500 m	1	\$8,500	
125 mm diameter Sanitary Service Incl. Cleanout	\$5,500	20	\$110,000	\$5,500	20	\$110,000		\$5,500 ea.	7	\$38,500	
Connect to Existing Sanitary Sewer System	\$5,000	1	\$5,000	\$5,000	1	\$5,000		\$6,500 ea.	1	\$6,500	
Watermain Trench Rock Ex.	\$210	150	\$31,500	\$210	150	\$31,500		\$90 m ³	0	\$0	
Sanitary Trench Rock Ex.	\$210	200	\$42,000	\$210	200	\$42,000		\$90 m ³	50	\$4,500	
Watermain and Sanitary Common Trench Rock	\$210	500	\$105,000	\$210	500	\$105,000		\$90 m ³	600	\$54,000	
Clearing & Grubbing						\$0		\$20 m ²	350	\$7,000	

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	CC Tatham Estimate			CC Tatham Estimate Revised			CC Tatham Estimate Revised for Public Slide	Tulloch Estimates Revised			
	Aligned with Beatty Street w Gravity Sanitary to Beatty (Trench with Roads)			Aligned with Beatty Street w Gravity Sanitary to Beatty (Trench with Roads)				UNIT PRICE	UNIT	EST. QTY.	AMOUNT
	UNIT PRICE	EST. QTY.	AMOUNT	UNIT PRICE	EST. QTY.	AMOUNT					
TOTAL EXTERNAL WATER & SANITARY			\$571,500			\$571,500	\$571,500.00			\$261,550	
TOTAL WATER & SANITARY			\$1,063,000			\$1,063,000	\$1,063,000.00			\$833,550	
ROAD AND SITE WORKS											
INTERNAL - BUILDING and PARKING SITE WORKS											
Building 40,000 sqft											
Clearing and Grubbing	\$25	5,000	\$125,000	\$25	5,000	\$125,000			10,000	\$40,000	
Strip and Dispose Topsoil	\$15	1,000	\$15,000	\$15	1,000	\$15,000			1,000	\$10,000	
Rock Excavation	\$175	3,000	\$525,000	\$175	3,000	\$525,000			2,000	\$140,000	
Earth Excavation and Grading	\$25	1,000	\$25,000	\$25	1,000	\$25,000			1,000	\$10,000	
OGS			\$50,000			\$50,000			Allow	\$50,000	
Granular A - Building Slab	\$35	3,650	\$127,750	\$35	4,110	\$143,850			5,000	\$175,000	
100 mm (4") Topsoil and Sod	\$15	1,500	\$22,500	\$15	1,500	\$22,500			3,000	\$36,000	
Concrete Pathway Around Building		0	\$0	\$120	1,100	\$132,000			1,100	\$132,000	
Landscaping			\$50,000			\$50,000			1	\$50,000	
Hydro Servicing Cost			\$300,000			\$300,000			1	\$90,000	
Parking Lot - 200 parking spots 8000 m²											
a Silt & Erosion Control			\$20,000			\$20,000				\$0	
a Clearing and Grubbing	\$25	8,000	\$200,000	\$25	8,000	\$200,000			10,000	\$40,000	
a Strip and Dispose Topsoil	\$15	1,000	\$15,000	\$15	1,000	\$15,000			1,000	\$10,000	
a Rock Excavation	\$175	3,000	\$525,000	\$175	3,000	\$525,000			6,200	\$434,000	
a Earth Excavation and Grading	\$25	1,000	\$25,000	\$25	1,000	\$25,000			1,500	\$15,000	
a 100 mm (4") Topsoil and Sod	\$15		\$0	\$15		\$0			1,000	\$9,000	
a Light Standards	\$8,500	4	\$34,000	\$8,500	4	\$34,000			8	\$68,000	
a Construct Parking Lot and Storm Sewers	\$150	8,000	\$1,200,000	\$175	5,200	\$910,000				\$566,000	
Storm Sewers											
150 mm (6") diameter. Sub drain	\$40		\$0	\$40		\$0			1	\$40,000	
300 mm (12") - Granular B Type 2	\$25		\$0	\$25		\$0			250	\$7,500	
150 mm (6") - Granular A	\$35		\$0	\$35		\$0			6,900	\$172,500	
HL4 Base Course Asphalt - 90 mm (3.5")	\$220		\$0	\$220		\$0			3,200	\$96,000	
HL3 Top Course Asphalt - 40 mm (1.5")	\$180		\$0	\$180		\$0			800	\$180,000	
Pavement Paint Markings			\$0			\$0			300	\$67,500	
a Storm Water Management Pond			\$150,000			\$150,000			1	\$2,500	
									1	\$75,000	
INTERNAL - BUILDING and PARKING SITE WORKS											
			\$3,409,250			\$3,267,350				\$1,950,000	
Driveway from New Road to Parking lot											
		100 m from New Road			100 m from New Road			70m from New Road			
Clearing and Grubbing	\$25	2,000	\$50,000	\$25	2,000	\$50,000		\$4 m ²	1,400	\$5,600	
Strip and Dispose Topsoil	\$15	200	\$3,000	\$15	200	\$3,000		\$4 m ³	650	\$2,600	
Rock Excavation	\$175	3,000	\$525,000	\$175	3,000	\$525,000		\$70 m ³	1,100	\$77,000	
Earth Excavation and Grading	\$25	800	\$20,000	\$25	800	\$20,000		\$10 m ³	200	\$2,000	
Construct Driveway:	\$355	100	\$35,500	\$1,100	100	\$110,000		\$958.21 m	70	\$67,075	
150 mm (6") diameter. Sub drain	\$40	100	\$4,000			\$0		\$30 m	140	\$4,200	
300 mm (12") - Granular B Type 2	\$25	100	\$2,500			\$0		\$25 t	600	\$15,000	
150 mm (6") - Granular A	\$35	80	\$2,800			\$0		\$30 t	260	\$7,800	
Concrete Curb and Gutter	\$120	0	\$0			\$0		\$110 m	180	\$19,800	
Concrete Sidewalk	\$120	100	\$12,000			\$0		\$110 m ²	80	\$8,800	
HL4 Base Course Asphalt - 90 mm (3.5")	\$220	40	\$8,800			\$0		\$225 t	51	\$11,475	
HL3 Top Course Asphalt - 40 mm (1.5")	\$180	30	\$5,400			\$0		\$180 t		\$0	
Light Standards	\$8,500	2	\$17,000	\$8,500	2	\$17,000		\$8,500 ea.	2	\$17,000	
100 mm (4") Topsoil and Sod	\$15	2,000	\$30,000	\$15	2,000	\$30,000		\$7 m ²	800	\$5,200	
INTERNAL - ROAD WORKS (8.5m wide)											
		160 Meters to Parry Sound Dr			160 Meters to Parry Sound Dr			160 Meters to Parry Sound Dr			
Clearing and Grubbing	\$25	3,500	\$87,500	\$25	3,500	\$87,500		\$20 m ²	3,500	\$70,000	

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	Aligned with Beatty Street w Gravity Sanitary to Beatty (Trench with Roads)			Aligned with Beatty Street w Gravity Sanitary to Beatty (Trench with Roads)				UNIT PRICE	UNIT	EST. QTY.	AMOUNT
	UNIT PRICE	EST. QTY.	AMOUNT	UNIT PRICE	EST. QTY.	AMOUNT					
Strip and Dispose Topsoil	\$15	1,550	\$23,250	\$15	1,550	\$23,250		\$10 m ³	700	\$7,000	
Rock Excavation	\$175	6,000	\$1,050,000	\$175	6,000	\$1,050,000		\$70 m ³	4,050	\$283,500	
Earth Excavation and Grading	\$25	2,200	\$55,000	\$25	2,200	\$55,000		\$10 m ³	800	\$8,000	
Construct Internal Road:	\$591	160	\$94,500	\$1,100	160	\$176,000		\$1,080.31 m	160	\$172,850	
150 mm (6") diameter. Sub drain	\$40	150	\$6,000			\$0		\$30 m	290	\$8,700	
300 mm (12") - Granular B Type 2	\$25	148	\$3,700			\$0		\$25 t	1,400	\$35,000	
150 mm (6") - Granular A	\$35	120	\$4,200			\$0		\$30 t	650	\$19,500	
Concrete Curb and Gutter	\$120	300	\$36,000			\$0		\$110 m	320	\$35,200	
Concrete Sidewalk	\$120	150	\$18,000			\$0		\$110 m ²	145	\$15,950	
HL4 Base Course Asphalt - 90 mm (3.5")	\$220	80	\$17,600			\$0		\$225 t	260	\$58,500	
HL3 Top Course Asphalt - 40 mm (1.5")	\$180	50	\$9,000	\$180		\$0		\$180 t		\$0	
Pavement Paint Markings			\$0			\$0		\$2,000 Allow	1	\$2,000	
Light Standards	\$8,500	2	\$17,000	\$8,500	2	\$17,000		\$8,500 ea.	4	\$34,000	
100 mm (4") Topsoil and Sod	\$15	3,000	\$45,000	\$15	3,000	\$45,000		\$7 m ²	900	\$5,850	
TOTAL INTERNAL ROAD WORKS			\$2,052,750			\$2,208,750				\$759,675	
TOTAL INTERNAL SITE WORKS			\$5,462,000			\$5,476,100	\$5,087,600.00			\$1,976,675	
EXTERNAL - ROAD WORKS (Beatty & Parry Sound Dr)											
Clearing and Grubbing	\$30	800	\$24,000	\$30	800	\$24,000		\$20 m ²		\$0	
Earth Excavation and Grading	\$25	800	\$20,000	\$25	800	\$20,000		\$10 m ³		\$0	
300 mm (12") - Granular B Type 2	\$25	1,200	\$30,000	\$25	1,200	\$30,000		\$25 t	460	\$11,500	
150 mm (6") - Granular A	\$35	600	\$21,000	\$35	600	\$21,000		\$30 t	200	\$6,000	
Base Course Asphalt - 90 mm (3.5") - HL4	\$220	210	\$46,200	\$220	210	\$46,200		\$225 t	75	\$16,875	
Top Course Asphalt - 40 mm (1.5") - HL3	\$180	170	\$30,600	\$180	170	\$30,600		\$180 t		\$0	
Driveway Repairs - Pavement	\$5,000	17	\$85,000	\$5,000	17	\$85,000		\$1,000 ea.	3	\$3,000	
Driveway Repairs - Gravel			\$0			\$0		\$750 ea.	7	\$5,250	
Ditch Regrading	\$35	460	\$16,100	\$35	460	\$16,100		\$35 m		\$0	
100 mm (4") Topsoil and Sod	\$15	1,200	\$18,000	\$15	1,200	\$18,000		\$12 m ²	95	\$1,140	
Asphalt Removal	\$15	1,600	\$24,000	\$15	1,600	\$24,000		\$15 m ²	100	\$1,500	
Pavement Paint Markings			\$5,000			\$5,000		Allow		\$0	
Road Improvements at Entrance			\$200,000			\$200,000		\$10,000 Allow	1	\$10,000	
EXTERNAL - ROAD WORKS			\$519,900			\$519,900	\$499,100.00			\$55,265	
PROVISIONAL ITEMS											
19 mm dia Clear Stone Bedding Wrapped in Filter Fabric	\$40	200	\$8,000	\$40	200	\$8,000		\$40 t	200	\$8,000	
50 mm Thick Styrofoam SM Insulation	\$60	300	\$18,000	\$60	300	\$18,000		\$60 m ²	50	\$3,000	
Remove and Dispose Chemically Unsuitable Material	\$60	250	\$15,000	\$60	250	\$15,000		\$60 m ³	100	\$6,000	
Select Subgrade Material	\$30	4,000	\$120,000	\$30	4,000	\$120,000		\$25 t	1,000	\$25,000	
TOTAL PROVISIONAL ITEMS			\$161,000			\$161,000	\$161,000.00			\$42,000	
TOTAL CONSTRUCTION COSTS			\$7,430,900			\$7,475,000	\$7,035,700.00			\$3,816,115	
Contingency	25%		\$1,857,725.00	25%		\$1,868,750.00	\$1,760,000.00	25%		\$954,028.75	
Engineering	10%		\$928,862.50	10%		\$934,375.00	\$880,000.00	10%		\$477,014.38	
TOTAL BUDGET			\$10,217,488			\$10,278,125	\$9,675,700			\$5,247,158	

Summary of Differences with Site Servicing Costing

	CC Tatham Estimate			Difference	Carling Municipal Engineer Estimates		
Clearing and Grubbing	\$25 m ²	19,300	\$486,500	-\$330,900.00	\$6 m ²	24,900	\$155,600
Strip and Dispose Topsoil	\$15 m ³	3,750	\$56,250	-\$26,650.00	\$9 m ³	3,350	\$29,600
Earth Excavation and Grading	\$25 m ³	5,800	\$145,000	-\$110,000.00	\$10 m ³	3,500	\$35,000
Rock Excavation	\$175 m ³	15,000	\$2,625,000	-\$1,690,500.00	\$70 m ³	13,350	\$934,500
Watermain and Sanitary Common Trench Rock	\$184 m ³	1,900	\$350,000	-\$188,000.00	\$90 m ³	1,800	\$162,000
100 mm (4") Topsoil and Sod	\$15 m ²	7,700	\$115,500	-\$58,310.00	\$10 m ²	5,795	\$57,190
			\$3,778,250	-\$2,404,360.00			\$1,373,890