

DETAILED DESIGN FOR THE COLLEGEWAY CYCLE TRACK - WINSTON CHURCHILL BOULEVARD TO SOUTH MILLWAY EAST					07-Aug-20
PERSON HOURS					
DESCRIPTION OF WORK	ROAD DESIGN				TREE SURVEY
	PM	Design Tech.	Survey Tech.	CAD	Arborist
HOULY RATES	\$240	\$125	\$116	\$135	\$100
1. PRELIMINARY DESIGN AND CONSULTATION					
1.1 Attend Start-up Meeting with COM PM	4.0	4.0			
1.2 Topographic Survey			80.0		
1.3 Field Review / Collect and Review Background Data	1.0	5.0			
1.4 Prepare Base Plans		5.0		25.0	
1.5 Tree Survey					60.0
1.6 Develop Preliminary Drawings	2.0	15.0		40.0	
1.7 Prepare cross-sections	1.0	15.0			
1.8 Send preliminary drawings to utility companies for mark-up		10.0			
1.9 Coordinate drawings including chainage with City design teams	1.0	4.0		4.0	
1.10 30% Design Submission	1.0	8.0		8.0	
1.11 Attend 30% Design Review Meeting	4.0	4.0			
SUB-TOTAL PRELIMINARY DESIGN AND CONSULTATION	14.0	70.0	80.0	77.0	60.0
2. DETAIL DESIGN					
2.1 Detail Design / Contract Drawings					
2.1.1 Title Sheet		0.5		2.0	
2.1.2 Index Sheet		1.0		5.0	
2.1.3 Removals (8 sheets) 1:250 scale	1.0	15.0		15.0	
2.1.4 New Construction (16 sheets) 1:250 scale	5.0	30.0		45.0	
2.1.5 Cycle Track Pavement Markings and Signing (8 sheets) 1:250 scale	2.0	15.0		30.0	
2.1.6 Typical Sections (4 sheets)	1.0	10.0		22.5	
2.1.7 Details (2 sheets)	1.0	4.0		15.0	
2.1.8 Coordination with City design teams w.r.t. drawings and specs	1.0	4.0		4.0	
2.2 Permits	1.0	5.0			
2.3 60% Submission	2.0	5.0		5.0	
2.4 60% Review Meeting with City PM, traffic signals, lighting, noise walls, landscaping and roadworks	5.0	5.0			
2.5 Quantities	2.0	7.5		2.0	
2.6 Special Provisions / Specifications	15.0	22.5			
2.7 Engineer's Construction Estimate	1.0	5.0			
2.8 60% revisions	1.0	15.0		15.0	

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	PM	Design Tech.	Survey Tech.	CAD	Arborist	
2.9	90% Submission	2.0	5.0		5.0	
2.10	90% Review Meeting with City PM, traffic signals, lighting, noise walls, landscaping and roadworks	5.0	5.0			
2.11	90% revisions	4.0	15.0		15.0	
2.12	100% Finalize Drawings / Documents	5.0	15.0		5.0	
2.13	Assistance During Tendering and Bid Review	2.0	7.5			
2.14	Prepare issued for construction drawings		5.0		15.0	
2.15	Support during construction	5.0	40.0		8.0	
2.16	Prepare as-built drawings		3.0		30.0	
SUB-TOTAL DETAIL DESIGN		61.0	240.0	0.0	238.5	0.0
TOTAL PERSON HOURS		75.0	310.0	80.0	315.5	60.0
Disbursements		\$2,500				
Geotechnical Investigation		\$10,800				
SUB-TOTAL		\$121,923				\$6,000
TOTAL		\$127,923				