

### Stormwater Capital Program

Capital Program ID	Name	Description	Class EA Schedule	Project Type	Size (mm)	Length (m)	Class Estimate Type	Project Complexity	Accuracy Range	Area Condition	Total Estimated Cost (2022\$)	Timeline
SW-LI-001a	Emil Kolb Parkway and De Rose Avenue	Cost estimate for the upsizing of a portion of the storm sewer network from 300 mm diameter to 375 mm diameter	A+	Linear Infrastructure	375 mm	70 m	Class 4	Low	30%	Suburban	\$ 112,000	2038
SW-LI-001b	Emil Kolb Parkway and De Rose Avenue	Cost estimate for the upsizing of a portion of the storm sewer network from 375 mm diameter to 450 mm diameter	A+	Linear Infrastructure	450 mm	115 m	Class 4	Low	30%	Suburban	\$ 201,000	2038
SW-LI-001c	Emil Kolb Parkway and De Rose Avenue	Cost estimate for the upsizing of a portion of the storm sewer network from 450 mm diameter to 525 mm diameter	A+	Linear Infrastructure	525 mm	120 m	Class 4	Low	30%	Suburban	\$ 226,000	2038
SW-LI-001d	Emil Kolb Parkway and De Rose Avenue	Cost estimate for the upsizing of a portion of the storm sewer network from 525 mm diameter to 600 mm diameter	A+	Linear Infrastructure	600 mm	130 m	Class 4	Low	30%	Suburban	\$ 315,000	2038
SW-LI-002a	Bovaird Drive and Consetoga Drive	Cost estimate for the upsizing of a portion of the storm sewer network from 375 mm diameter to 450 mm diameter	A+	Linear Infrastructure	450 mm	289 m	Class 4	Low	30%	Suburban	\$ 506,000	Opportunistic
SW-LI-002b	Bovaird Drive and Consetoga Drive	Cost estimate for the upsizing of a portion of the storm sewer network from 450 mm diameter to 525 mm diameter	A+	Linear Infrastructure	525 mm	144 m	Class 4	Low	30%	Suburban	\$ 1,183,000	Opportunistic
SW-LI-002c	Bovaird Drive and Consetoga Drive	Cost estimate for the upsizing of a portion of the storm sewer network from 525 mm diameter to 600 mm diameter	A+	Linear Infrastructure	600 mm	97 m	Class 4	Low	30%	Suburban	\$ 234,000	Opportunistic
SW-LI-003a	Steeles Avenue West and Rivermont Road	Cost estimate for the upsizing of a portion of the storm sewer network from 300 mm diameter to 375 mm diameter	A+	Linear Infrastructure	375 mm	101 m	Class 4	Low	30%	Suburban	\$ 161,000	2024
SW-LI-003b	Steeles Avenue West and Rivermont Road	Cost estimate for the upsizing of a portion of the storm sewer network from 375 mm diameter to 450 mm diameter	A+	Linear Infrastructure	450 mm	309 m	Class 4	Low	30%	Suburban	\$ 1,453,000	2024
SW-LI-004	Steeles Avenue West and Lancastershire Lane	Cost estimate for the upsizing of the storm sewer network from 300 mm diameter to 375 mm diameter	A+	Linear Infrastructure	375 mm	196 m	Class 4	Low	30%	Suburban	\$ 315,000	Opportunistic
SW-LI-005a	Derry Road and Dishley Court	Cost estimate for the upsizing of a portion of the storm sewer network from 300 mm diameter to 375 mm diameter	A+	Linear Infrastructure	375 mm	100 m	Class 4	Low	30%	Suburban	\$ 160,000	2030
SW-LI-005b	Derry Road and Dishley Court	Cost estimate for the upsizing of a portion of the storm sewer network from 375 mm diameter to 450 mm diameter	A+	Linear Infrastructure	450 mm	77 m	Class 4	Low	30%	Suburban	\$ 135,000	2030
SW-LI-005c	Derry Road and Dishley Court	Cost estimate for the upsizing of a portion of the storm sewer network from 450 mm diameter to 525 mm diameter	A+	Linear Infrastructure	525 mm	13 m	Class 4	Low	30%	Suburban	\$ 25,000	2030
SW-LI-006	Erin Mills Parkway and QEW Ramp West	Cost estimate for the upsizing of the storm sewer network from 300 mm diameter to 375 mm diameter	A+	Linear Infrastructure	375 mm	170 m	Class 4	Low	30%	Suburban	\$ 272,000	2030
SW-LID-001	Erin Mills north of Mississauga Road	Implementation of an LID at Erin Mills north of Mississauga Road	A+	LID	-	-	Class 4	Low	30%	Suburban	\$ 1,000,000	2024
SW-LID-002	Derry Road near McLaughlin	Implementation of an LID at Derry Road near McLaughlin	A+	LID	-	-	Class 4	Low	30%	Suburban	\$ 1,000,000	2028
SW-LID-003	Derry Road east of Highway 410	Implementation of an LID at Derry Road east of Highway 410	A+	LID	-	-	Class 4	Low	30%	Suburban	\$ 1,000,000	2028
SW-LID-004	Derry Road west of Highway 410	Implementation of an LID at Derry Road west of Highway 410	A+	LID	-	-	Class 4	Low	30%	Suburban	\$ 1,000,000	2028
SW-LID-005	Mayfield Road east of Dixie Road	Implementation of an LID at Mayfield Road east of Dixie Road	A+	LID	-	-	Class 4	Low	30%	Suburban	\$ 1,000,000	2024 or 2039
SW-LID-006	Erin Mills south of Mississauga Road	Implementation of an LID at Erin Mills south of Mississauga Road	A+	LID	-	-	Class 4	Low	30%	Suburban	\$ 1,000,000	2028
SW-LID-007	Dixie Road south of Highway 401	Implementation of an LID at Dixie Road south of Highway 401	A+	LID	-	-	Class 4	Low	30%	Suburban	\$ 1,000,000	2038
SW-LID-008	Erin Mills south of Highway 403	Implementation of an LID at Erin Mills south of Highway 403	A+	LID	-	-	Class 4	Low	30%	Suburban	\$ 1,000,000	2028
SW-LID-009	Kennedy Road south of Queen Street	Implementation of an LID at Kennedy Road south of Queen Street	A+	LID	-	-	Class 4	Low	30%	Suburban	\$ 1,000,000	2022
Total P	Program					1,931 m					\$ 14,298,000	







## Project No.: SW-LI-001a Project Name: Project Description:

Emil Kolb Parkway and De Rose Avenue Cost estimate for the upsizing of a portion of the storm sewer network from 300 mm diameter to 375 mm diameter

Class Estimate Type:	Class 4	Class adjusts Construction Contingency and expected accuracy	= Field has drop down
Project Complexity	Low	Complexity adjusts Additional Construction Costs, Geotech, Property and expected accuracy	= Field must be manually populated
Accuracy Range:	30%		= Field auto-filled based on project details
Area Condition:	Suburban	Area Condition adjusts Pipe Construction Uplift	
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PROPOSED DIAME	TER:	375 mm	
TOTAL LENGTH:		70 m	
	Tunnelled	0 m	0%
Open Cut		70 m	100%

CLASS EA REQUIREMENTS:	A+
CONSTRUCTION ASSUMPTION:	Sewer 5m

COMPONENT	RATE (%)	RATE (\$)	UNIT	ESTIMATED QUANTITY	COST PER UNIT	SUB-TOTAL	COMMENTS
Construction Cost							
Pipe Construction - Open Cut			m	70 m	\$808	\$56,528	Existing road ROW
Pipe Construction - Tunneling	i i		m	0 m	\$7,751	\$0	
Pipe Construction Uplift (Based on Area Conditions)	20%					\$11,306	
Minor Creek Crossings			ea.	0	\$204,000	\$0	
Major Creek Crossings			ea.	0	\$1,212,000	\$0	
Road Crossings	i i		ea.	0	\$514,000	\$0	
Major Road Crossings (Highway)			ea.	0	\$1,212,000	\$0	
Utility Crossings			ea.	0	\$514,000	\$0	
Additional Construction Costs	10%		ea.			\$6,783	Includes Mod/Demob,connections, inspection, hydrants, signage, traffic management, bonding, insurance
Provisional & Allowance	10%		ea.			\$7,462	Provisional Labour and Materials in addition to base
		1	1	1	1 1		
Total Construction Costs						\$82,000	
Geotechnical Requirements							
i. Geo-tech/Hydrogeo/Materials	0.5%					\$400	
Geotechnical Sub-Total						\$400	
Property Requirements							
i. Property and Easements	1.0%					\$800	
Property Requirements Sub-total						\$800	
Sub-Total Base Costs						\$83 200	
					1	\$00,200	
Consultant Engineering							
Study/Design/Contract Administration	15%					\$12,300	
Consultant Engineering Sub-total						\$12,300	
	•	•					
In-house Fees							
Study/Design/Contract Administration	8%					\$6,600	
In-house Fees Sub-total						\$6,600	
Project Contingency							
Project Contingency	109/					\$9.200	
Project Contingency Sub-total	10%					\$8,200	
						\$8,200	
Non Refundable HST							
Non Refundable HST	1.76%					\$1,800	
Non Refundable HST Sub-total						\$1,800	
Total (2021 Dollars)						\$112,000	
Chosen Estimate						\$112.000	2021 Estimate





## Project No.: SW-LI-001b Project Name: Project Description:

Emil Kolb Parkway and De Rose Avenue Cost estimate for the upsizing of a portion of the storm sewer network from 375 mm diameter to 450 mm diameter

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Class Estimate Type:	Class 4	Class adjusts Construction Contingency and expected accuracy	= Field has drop down
Project Complexity	Low	Complexity adjusts Additional Construction Costs, Geotech, Property and expected accuracy	= Field must be manually populated
Accuracy Range:	30%		= Field auto-filled based on project details
Area Condition:	Suburban	Area Condition adjusts Pipe Construction Uplift	



CLASS EA REQUIREMENTS:	A+
CONSTRUCTION ASSUMPTION:	Sewer 5m

COMPONENT	(%)	(\$)	UNIT	QUANTITY	COST PER UNIT	SUB-TOTAL	COMMENTS
Construction Cost							
Pipe Construction - Open Cut			m	115 m	\$883	\$101,534	Existing road ROW
Pipe Construction - Tunneling			m	0 m	\$7,751	\$0	
Pipe Construction Uplift (Based on Area Conditions)	20%					\$20,307	
Minor Creek Crossings			ea.	0	\$241,000	\$0	
Major Creek Crossings			ea.	0	\$1,249,000	\$0	
Road Crossings			ea.	0	\$551,000	\$0	
Major Road Crossings (Highway)			ea.	0	\$1,249,000	\$0	
Utility Crossings			ea.	0	\$551,000	\$0	
Additional Construction Costs	10%		ea.			\$12,184	Includes Mod/Demob,connections, inspection, hydrants, signage, traffic management, bonding, insurance
Provisional & Allowance	10%		ea.			\$13,403	Provisional Labour and Materials in addition to base construction cost
Total Construction Costs						\$147.000	
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Geotechnical Requirements							
i. Geo-tech/Hydrogeo/Materials	0.5%					\$700	
Geotechnical Sub-Total		•				\$700	
Property Requirements	1						
i. Property and Easements	1.0%					\$1,500	
Property Requirements Sub-total						\$1,500	
Sub-Total Base Costs						\$149,200	
					1	<b>*</b> 1.10,200	
Consultant Engineering							
Study/Design/Contract Administration	15%					\$22,100	
Consultant Engineering Sub-total						\$22,100	
In-house Fees							
Study/Design/Contract Administration	8%					\$11.800	
In-house Fees Sub-total	070					\$11,800	
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Project Contingency							
Project Contingency	10%					\$14,700	
Project Contingency Sub-total						\$14,700	
		•					
Non Refundable HST							
Non Refundable HST	1.76%					\$3,300	
Non Refundable HST Sub-total						\$3,300	
Total (2021 Dollars)						\$204.000	
Chosen Estimate						\$201,000	2021 Estimate





## Project No.: SW-LI-001c Project Name: Project Description:

Emil Kolb Parkway and De Rose Avenue Cost estimate for the upsizing of a portion of the storm sewer network from 450 mm diameter to 525 mm diameter

Class Estimate Type:	Class 4	Class adjusts Construction Contingency and expected accuracy	= Field has drop down
Project Complexity	Low	Complexity adjusts Additional Construction Costs, Geotech, Property and expected accuracy	= Field must be manually populated
Accuracy Range:	30%		= Field auto-filled based on project details
Area Condition:	Suburban	Area Condition adjusts Pipe Construction Uplift	

PROPOSED DIAME	TER:	525 mm		
TOTAL LENGTH:		120 m		
	Tunnelled	0 m	0%	
Open Cut		120 m	100%	

CLASS EA REQUIREMENTS:	A+
CONSTRUCTION ASSUMPTION:	Sewer 5m
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COMPONENT	(%)	(\$)	UNIT	QUANTITY	COST PER UNIT	SUB-TOTAL	COMMENTS
Construction Cost	(,	(+)					
Pipe Construction - Open Cut			m	120 m	\$948	\$113,701	Existing road ROW
Pipe Construction - Tunneling	i i		m	0 m	\$7,751	\$0	
Pipe Construction Uplift (Based on Area Conditions)	20%					\$22,740	
Minor Creek Crossings	i i		ea.	0	\$241,000	\$0	
Major Creek Crossings	i i		ea.	0	\$1,249,000	\$0	
Road Crossings			ea.	0	\$551,000	\$0	
Major Road Crossings (Highway)			ea.	0	\$1,249,000	\$0	
Utility Crossings			ea.	0	\$551,000	\$0	
Additional Construction Costs	10%		ea.			\$13,644	Includes Mod/Demob,connections, inspection, hydrants, signage, traffic management, bonding, insurance
Provisional & Allowance	10%		ea.			\$15,009	Provisional Labour and Materials in addition to base construction cost
Total Construction Costs						\$165,000	
Geotechnical Requirements							
i. Geo-tech/Hydrogeo/Materials	0.5%					\$800	
Geotechnical Sub-Total		1				\$800	
Property Requirements							
i. Property and Easements	1.0%					\$1,700	
Property Requirements Sub-total						\$1,700	
							1
Sub-Total Base Costs						\$167,500	
Consultant Engineering							
Study/Design/Contract Administration	15%					\$24.800	
Consultant Engineering Sub-total						\$24,800	
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In-house Fees							
Study/Design/Contract Administration	8%					\$13,200	
In-house Fees Sub-total						\$13,200	
Project Contingency							1
Project Contingency	10%					\$16,500	
Project Contingency Sub-total						\$16,500	
Nan Defundakia UST							
Non Refundable HST	1 769/					¢0 700	
Non Refundable HST Sub-total	1.76%					\$3,700	
						\$3,700	
Total (2021 Dollars)						\$226,000	
Chosen Estimate						\$226,000	2021 Estimate





## Project No.: SW-LI-001d Project Name: Project Description:

Emil Kolb Parkway and De Rose Avenue Cost estimate for the upsizing of a portion of the storm sewer network from 525 mm diameter to 600 mm diameter

Class Estimate Type:	Class 4	Class adjusts Construction Contingency and expected accuracy	= Field has drop down
Project Complexity	Low	Complexity adjusts Additional Construction Costs, Geotech, Property and expected accuracy	= Field must be manually populated
Accuracy Range:	30%		= Field auto-filled based on project details
Area Condition:	Suburban	Area Condition adjusts Pipe Construction Uplift	

600 mm		
130 m		
0 m	0%	
130 m	100%	
	600 mm 130 m 0 m 130 m	

CLASS EA REQUIREMENTS:	A+
CONSTRUCTION ASSUMPTION:	Sewer 5m

COMPONENT	(%)	(\$)	UNIT	QUANTITY	COST PER UNIT	SUB-TOTAL	COMMENTS
Construction Cost							
Pipe Construction - Open Cut			m	130 m	\$1,217	\$158,170	Existing road ROW
Pipe Construction - Tunneling			m	0 m	\$7,751	\$0	
Pipe Construction Uplift (Based on Area Conditions)	20%					\$31,634	
Minor Creek Crossings			ea.	0	\$241,000	\$0	
Major Creek Crossings			ea.	0	\$1,249,000	\$0	
Road Crossings			ea.	0	\$551,000	\$0	
Major Road Crossings (Highway)	i i		ea.	0	\$1,249,000	\$0	
Utility Crossings	i i		ea.	0	\$551,000	\$0	
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Additional Construction Costs	10%		ea.			\$18,980	Includes Mod/Demob,connections, inspection, hydrants, signage, traffic management, bonding, insurance
Provisional & Allowance	10%		ea.			\$20,878	Provisional Labour and Materials in addition to base construction cost
Total Construction Costs						\$230,000	
Geotechnical Requirements							
i. Geo-tech/Hydrogeo/Materials	0.5%					\$1,200	
Geotechnical Sub-Total		1				\$1,200	
Property Requirements							
i. Property and Easements	1.0%					\$2,300	
Property Requirements Sub-total						\$2,300	
Sub-Total Base Costs						\$233 500	
					1	φ200,000	
Consultant Engineering							
Study/Design/Contract Administration	15%					\$34,500	
Consultant Engineering Sub-total						\$34,500	
	•	•					•
In-house Fees							
Study/Design/Contract Administration	8%					\$18,400	
In-house Fees Sub-total						\$18,400	
Broigst Contingency							
Project Contingency	109/					\$22.000	
Project Contingency	10%					\$23,000	
Froject Contingency Sub-total						\$23,000	
Non Refundable HST							
Non Refundable HST	1.76%					\$5,100	
Non Refundable HST Sub-total						\$5,100	
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Total (2021 Dollars)						\$315,000	
Chosen Estimate						\$315,000	2021 Estimate





## Project No.: SW-LI-002a Project Name: Project Description:

Bovaird Drive and Consetoga Drive Cost estimate for the upsizing of a portion of the storm sewer network from 375 mm diameter to 450 mm diameter

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Class Estimate Type:	Class 4	Class adjusts Construction Contingency and expected accuracy	= Field has drop down
Project Complexity	Low	Complexity adjusts Additional Construction Costs, Geotech, Property and expected accuracy	= Field must be manually populated
Accuracy Range:	30%		= Field auto-filled based on project details
Area Condition:	Suburban	Area Condition adjusts Pipe Construction Uplift	
		•	

PROPOSED DIAME	TER:	450 mm	
TOTAL LENGTH:		289 m	
Tunnelled Open Cut		0 m	0%
		289 m	100%

CLASS EA REQUIREMENTS:	A+
CONSTRUCTION ASSUMPTION:	Sewer 5m

COMPONENT	RATE (%)	RATE (\$)	UNIT	ESTIMATED QUANTITY	COST PER UNIT	SUB-TOTAL	COMMENTS
Construction Cost							
Pipe Construction - Open Cut			m	289 m	\$883	\$255,160	Existing road ROW
Pipe Construction - Tunneling			m	0 m	\$7,751	\$0	
Pipe Construction Uplift (Based on Area Conditions)	20%					\$51,032	
Minor Creek Crossings			ea.	0	\$241,000	\$0	
Major Creek Crossings			ea.	0	\$1,249,000	\$0	
Road Crossings			ea.	0	\$551,000	\$0	
Major Road Crossings (Highway)			ea.	0	\$1,249,000	\$0	
Utility Crossings			ea.	0	\$551,000	\$0	
Additional Construction Costs	10%		ea.			\$30,619	Includes Mod/Demob,connections, inspection, hydrants, signage, traffic management, bonding, insurance
Provisional & Allowance	10%		ea.			\$33,681	Provisional Labour and Materials in addition to base construction cost
				•			
Total Construction Costs						\$370,000	
Geotechnical Requirements							
i. Geo-tech/Hydrogeo/Materials	0.5%					\$1,900	
Geotechnical Sub-Total						\$1,900	
Property Requirements							
i. Property and Easements	1.0%					\$3,700	
Property Requirements Sub-total						\$3,700	
Sub-Total Base Costs						\$375,600	
Consultant Engineering							
Study/Design/Contract Administration	15%					\$55.500	
Consultant Engineering Sub-total						\$55,500	
					1		
In-house Fees							
Study/Design/Contract Administration	8%					\$29,600	
In-house Fees Sub-total						\$29,600	
Project Contingency							
Project Contingency	10%					\$37,000	
Project Contingency Sub-total						\$37,000	
Non Refundable HST							
Non Refundable HST	1.76%					\$8,200	
Non Refundable HST Sub-total						\$8,200	
Total (2021 Dollars)						\$506 000	
Chosen Estimate						\$506,000	2021 Estimate





## Project No.: SW-LI-002b Project Name: Project Description:

Bovaird Drive and Consetoga Drive Cost estimate for the upsizing of a portion of the storm sewer network from 450 mm diameter to 525 mm diameter

Class Estimate Type:	Class 4	Class adjusts Construction Contingency and expected accuracy		= Field has drop down
Project Complexity	Low	Complexity adjusts Additional Construction Costs, Geotech, Property and expected accuracy		= Field must be manually populated
Accuracy Range:	30%			= Field auto-filled based on project details
Area Condition:	Suburban	Area Condition adjusts Pipe Construction Uplift		
PROPOSED DIAMETER.	505		A .	

PROPOSED DIAME	IER:	525 mm		
TOTAL LENGTH:		144 m		
Tunnelled		0 m	0%	
Open Cut		144 m	100%	

CLASS EA REQUIREMENTS:	A+
CONSTRUCTION ASSUMPTION:	Sewer 5m
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COMPONENT	(%)	(\$)	UNIT	QUANTITY	COST PER UNIT	SUB-TOTAL	COMMENTS
Construction Cost							
Pipe Construction - Open Cut			m	144 m	\$948	\$136,442	Existing road ROW
Pipe Construction - Tunneling			m	0 m	\$7,751	\$0	
Pipe Construction Uplift (Based on Area Conditions)	20%					\$27,288	
Minor Creek Crossings			ea.	0	\$241,000	\$0	
Major Creek Crossings			ea.	0	\$1,249,000	\$0	
Road Crossings			ea.	1	\$551,000	\$551,000	
Major Road Crossings (Highway)			ea.	0	\$1,249,000	\$0	
Utility Crossings			ea.	0	\$551,000	\$0	
Additional Construction Costs	10%		ea.			\$71,473	Includes Mod/Demob,connections, inspection, hydrants, signage, traffic management, bonding, insurance
Provisional & Allowance	10%		ea.			\$78,620	Provisional Labour and Materials in addition to base construction cost
Total Construction Casts						\$965 000	
						\$865,000	
Geotechnical Requirements							
i. Geo-tech/Hydrogeo/Materials	0.5%					\$4,300	
Geotechnical Sub-Total						\$4,300	
Property Requirements							
i. Property and Easements	1.0%					\$8,700	
Property Requirements Sub-total						\$8,700	
Sub-Total Base Costs						\$878.000	
						<i>\\</i> 010,000	
Consultant Engineering							
Study/Design/Contract Administration	15%					\$129,800	
Consultant Engineering Sub-total						\$129,800	
In-house Fees							
Study/Design/Contract Administration	8%					\$69,200	
In-house Fees Sub-total						\$69,200	
Project Contingency							
Project Contingency	10%					\$86.500	
Project Contingency Sub-total						\$86,500	
	1						
Non Refundable HST							
Non Refundable HST	1.76%					\$19,300	
Non Refundable HST Sub-total						\$19,300	
Total (2021 Dollars)						\$1,183,000	
Chosen Estimate						\$1,183,000	2021 Estimate





## Project No.: SW-LI-002c Project Name: Project Description:

Bovaird Drive and Consetoga Drive Cost estimate for the upsizing of a portion of the storm sewer network from 525 mm diameter to 600 mm diameter

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Class Estimate Type:	Class 4	Class adjusts Construction Contingency and expected accuracy	= Field has drop down
Project Complexity	Low	Complexity adjusts Additional Construction Costs, Geotech, Property and expected accuracy	= Field must be manually populated
Accuracy Range:	30%		= Field auto-filled based on project details
Area Condition:	Suburban	Area Condition adjusts Pipe Construction Uplift	
		-	

600 mm	
97 m	
0 m	0%
97 m	100%
	600 mm 97 m 0 m 97 m

CLASS EA REQUIREMENTS:	A+
CONSTRUCTION ASSUMPTION:	Sewer 5m

Construction Cost         m         97 m         \$1,217         \$118,0           Pipe Construction - Tunneling         m         0 m         \$7,751         \$120         \$12,00         \$22,000         \$22,000         <	9 Existing road ROW						
Pipe Construction - Open Cut         m         97 m         \$1,217         \$118.0           Pipe Construction - Tunneling         m         0 m         \$7,751         \$23,6           Pipe Construction Uplit (Based on Area Conditions)         20%         ea.         0         \$241,000           Minor Creek Crossings         ea.         0         \$241,000         \$23,6           Major Creek Crossings         ea.         0         \$241,000         \$3651,000           Major Creek Crossings         ea.         0         \$1249,000         \$3651,000           Major Road Crossings (Highway)         ea.         0         \$551,000         \$3551,000           Utility Crossings         ea.         0         \$551,000         \$3651,000         \$374,11,11         \$374,11,11         \$374,11,11         \$374,11,11         \$374,11,11         \$360         \$360         \$360         \$360	19 Existing road ROW 30 14						
Pipe Construction - Tunneling         m         0 m         \$7,751           Pipe Construction Uplift (Based on Area Conditions)         20%          \$23,6           Minor Creek Crossings         ea.         0         \$241,000           Major Creek Crossings         ea.         0         \$12,49,000           Road Crossings         ea.         0         \$551,000           Major Road Crossings (Highway)         ea.         0         \$12,49,000           Utility Crossings         ea.         0         \$12,49,000           Additional Construction Costings (Highway)         ea.         0         \$12,49,000           Utility Crossings         ea.         0         \$12,49,000         \$12,49,000           Additional Construction Costs         10%         ea.         0         \$12,49,000           Additional Construction Costs         10%         ea.         0         \$12,49,000           Construction Costs         10%         ea.         0         \$12,49,000           Cost construction Costs         10%         ea.         0         \$14,1           Provisional & Allowance         10%         ea.         \$15,5           Geotechnical Requirements         0.5%         \$9         \$9 </td <td>50 04</td>	50 04						
Pipe Construction Uplift (Based on Area Conditions)         20%         state         s	)4						
Minor Creek Crossings         ea.         0         \$241,000           Major Creek Crossings         ea.         0         \$1,249,000           Road Crossings         ea.         0         \$551,000           Major Road Crossings (Highway)         ea.         0         \$1,249,000           Utility Crossings         ea.         0         \$551,000           Additional Construction Costs         10%         ea.         \$14,1           Provisional & Allowance         10%         ea.         \$15,5           Geotechnical Requirements         i. Geo-tech/Hydrogeo/Materials         \$19           Geotechnical Sub-Total         \$10%         \$1,7            1.0%         \$1,7 <td></td>							
Major Creek Crossings         ea.         0         \$1,249,000           Road Crossings         ea.         0         \$551,000           Major Road Crossings (Highway)         ea.         0         \$1,249,000           Utility Crossings         ea.         0         \$1,249,000           Itility Crossings         10%         ea.         \$14,1           Provisional & Allowance         10%         ea.         \$17,1,00           Geotechnical Requirements         1.0%         \$1,7         \$1,7           Froperty Requirements <td< td=""><td>60</td></td<>	60						
Road Crossings         ea.         0         \$\$551,000           Major Road Crossings (Highway)         ea.         0         \$1,249,000           Utility Crossings         ea.         0         \$551,000           Additional Construction Costs         10%         ea.         0         \$14,1           Provisional & Allowance         10%         ea.         \$14,1           Provisional & Allowance         10%         ea.         \$15,5           Total Construction Costs         10%         ea.         \$171,00           Geotechnical Requirements         \$1,60         \$19         \$19           I. Geo-tech/Hydrogeo/Materials         0.5%         \$19         \$19           Property Requirements         \$1,0%         \$1,7         \$1,7           Property Requirements         1.0%         \$1,7         \$1,7	50						
Major Road Crossings (Highway)     ea.     0     \$1,249,000       Utility Crossings     ea.     0     \$551,000       Additional Construction Costs     10%     ea.     0       Additional Construction Costs     10%     ea.     \$14,1       Provisional & Allowance     10%     ea.     \$15,5       State       State </td <td>0</td>	0						
Utility Crossings     ea.     0     \$551,000       Additional Construction Costs     10%     ea.     \$14,1       Provisional & Allowance     10%     ea.     \$15,5       Total Construction Costs     \$10%     ea.     \$15,5       Total Construction Costs     \$10%     ea.     \$171,00       Geotechnical Requirements     \$3       i. Geo-tech/Hydrogeo/Materials     0.5%     \$9       Geotechnical Sub-Total     \$9       Property Requirements     \$1,0%     \$1,7       i. Property and Easements     1.0%     \$1,7       Property Requirements Sub-total     \$1,7	50						
Additional Construction Costs     10%     ea.     \$14,1       Provisional & Allowance     10%     ea.     \$15,5       Total Construction Costs     \$10%     ea.     \$15,5       Total Construction Costs     \$171,00       Geotechnical Requirements     \$1,60     \$9       Geotechnical Sub-Total     \$9       Property Requirements     \$1,0%     \$1,7       I. Property and Easements     1.0%     \$1,7       Property Requirements Sub-total     \$1,7	50						
Additional Construction Costs     10%     ea.     \$14,1       Provisional & Allowance     10%     ea.     \$15,5       Total Construction Costs       Total Construction Costs       Construction Costs       Storage of Materials       Geotechnical Requirements       I. Geo-tech/Hydrogeo/Materials       O.5%       Sectorical Sub-Total       Sport of the Cost of the							
Provisional & Allowance     10%     ea.     \$15,5       Total Construction Costs     \$171,00       Geotechnical Requirements     \$171,00       I. Geotech/Hydrogeo/Materials     0.5%     \$59       Geotechnical Sub-Total     \$59       Property Requirements     \$1.0%       I. Property and Easements     \$1.0%       Strand     \$1,7       Property Requirements Sub-total     \$1,7	<sup>12</sup> Includes Mod/Demob,connections, inspection, hydrants, signage, traffic management, bonding, insurance						
Total Construction Costs     \$171,00       Geotechnical Requirements     0.5%       i. Geo-tech/Hydrogeo/Materials     0.5%       Geotechnical Sub-Total     \$9       Property Requirements     \$1.0%       i. Property and Easements     1.0%       St.7.7     \$1.7       Property Requirements Sub-total     \$1.7	Provisional Labour and Materials in addition to base						
Total Construction Costs     \$171,00       Geotechnical Requirements     \$9       Geotech/Hydrogeo/Materials     0.5%       Geotechnical Sub-Total     \$9       Property Requirements     \$9       I. Property and Easements     1.0%       String     \$1,7       Property Requirements Sub-total     \$1,7							
Geotechnical Requirements       0.5%       \$9         I. Geo-tech/Hydrogeo/Materials       0.5%       \$9         Geotechnical Sub-Total       \$9         Property Requirements       \$10%       \$1,7         Property Requirements Sub-total       \$1,7       \$1,7	0						
i. Geo-tech/Hydrogeo/Materials 0.5% 59 Geotechnical Sub-Total 59 Property Requirements i. Property and Easements 1.0% 51,7 Property Requirements Sub-total 51,7							
Geotechnical Sub-Total     \$9       Property Requirements     \$1.0%       I. Property and Easements     \$1.7       Property Requirements Sub-total     \$1,7	00						
Property Requirements       i. Property and Easements       1.0%       S1,7       Property Requirements Sub-total       \$1,7	00						
Property Requirements         1.0%         \$1,7           I. Property and Easements         \$1,0         \$1,7           Property Requirements Sub-total         \$1,7         \$1,7							
i. Property and Easements \$1,7 Property Requirements Sub-total \$1,7							
Property Requirements Sub-total \$1,7	00						
	00						
Sub-Total Base Costs \$173,60	0						
Consultant Engineering							
Consultaint Engineering Budd/Docide Administration 450/ 525.7	200						
Study Design Contract Automission and Contract Automissiona and Contract Automission and Contract Automission and Contrac							
Consultant Engineering Subrota \$23,0							
In-house Fees							
Study/Design/Contract Administration 8% \$13,7	00						
In-house Fees Sub-total \$13,7	00						
Project Contingency							
Project Contingency 10% \$17,1	00						
Project Contingency Sub-total \$17,1	0						
	•						
Non Refundable HST							
Non Refundable HST 1.76% \$3.8	00						
Non Refundable HST Sub-total \$3.8	00						
Total (2021 Dollars) \$234,00							





Project No.: SW-LI-003a Project Name: Project Description:

Steeles Avenue West and Rivermont Road Cost estimate for the upsizing of a portion of the storm sewer network from 300 mm diameter to 375 mm diameter

Class Estimate Type:	Class 4	Class adjusts Construction Contingency and expected accuracy	= Field has drop down
Project Complexity	Low	Complexity adjusts Additional Construction Costs, Geotech, Property and expected accuracy	= Field must be manually populated
Accuracy Range:	30%		= Field auto-filled based on project details
Area Condition:	Suburban	Area Condition adjusts Pipe Construction Uplift	
		•	

1011
n
0%
<mark>m</mark> 100%

CLASS EA REQUIREMENTS:	A+
CONSTRUCTION ASSUMPTION:	Sewer 5m

COMPONENT	RATE (%)	RATE (\$)	UNIT	ESTIMATED QUANTITY	COST PER UNIT	SUB-TOTAL	COMMENTS
Construction Cost		(1)					
Pipe Construction - Open Cut			m	101 m	\$808	\$81,561	Existing road ROW
Pipe Construction - Tunneling			m	0 m	\$7,751	\$0	
Pipe Construction Uplift (Based on Area Conditions)	20%					\$16,312	
Minor Creek Crossings			ea.	0	\$204,000	\$0	
Major Creek Crossings			ea.	0	\$1,212,000	\$0	
Road Crossings			ea.	0	\$514,000	\$0	
Major Road Crossings (Highway)			ea.	0	\$1,212,000	\$0	
Utility Crossings			ea.	0	\$514,000	\$0	
Additional Construction Costs	10%		ea.			\$9,787	Includes Mod/Demob,connections, inspection, hydrants, signage, traffic management, bonding, insurance
Provisional & Allowance	10%		ea.			\$10,766	Provisional Labour and Materials in addition to base construction cost
	•		•	•			
Total Construction Costs						\$118,000	
Geotechnical Requirements							
i. Geo-tech/Hydrogeo/Materials	0.5%					\$600	
Geotechnical Sub-Total						\$600	
Property Requirements							
i. Property and Easements	1.0%					\$1.200	
Property Requirements Sub-total						\$1,200	
Sub-Total Base Costs						\$119,800	
Consultant Engineering							
Study/Design/Contract Administration	450/				I	\$47.700	
Consultant Engineering Sub-total	15%					\$17,700	
						\$17,700	
In-house Fees							
Study/Design/Contract Administration	8%					\$9,400	
In-house Fees Sub-total						\$9,400	
Project Contingency							
Project Contingency	10%					\$11,800	
Project Contingency Sub-total						\$11,800	
Nan Bafundahla HST							
Non Refundable HST	4 700/					<b>*</b> ** ***	
Non Refundable HST Sub-total	1.76%					\$2,600	
						\$ <b>2,60</b> 0	
Total (2021 Dollars)						\$161,000	
						φ101,000	





## Project No.: SW-LI-003b Project Name: Project Description:

Steeles Avenue West and Rivermont Road Cost estimate for the upsizing of a portion of the storm sewer network from 375 mm diameter to 450 mm diameter

Class Estimate Type:	Class 4	Class adjusts Construction Contingency and expected accuracy	= Field has drop down
Project Complexity	Low	Complexity adjusts Additional Construction Costs, Geotech, Property and expected accuracy	= Field must be manually populated
Accuracy Range:	30%		= Field auto-filled based on project details
Area Condition:	Suburban	Area Condition adjusts Pipe Construction Uplift	

50 mm	
09 m	
m	0%
09 m	100%
09 m	9 m 1 9 m

CLASS EA REQUIREMENTS:	A+
CONSTRUCTION ASSUMPTION:	Sewer 5m

COMPONENT	RATE (%)	RATE (\$)	UNIT	ESTIMATED QUANTITY	COST PER UNIT	SUB-TOTAL	COMMENTS
Construction Cost				1			
Pipe Construction - Open Cut			m	309 m	\$883	\$272,819	Existing road ROW
Pipe Construction - Tunneling			m	0 m	\$7,751	\$0	
Pipe Construction Uplift (Based on Area Conditions)	20%		i i			\$54,564	
Minor Creek Crossings			ea.	0	\$241,000	\$0	
Major Creek Crossings			ea.	0	\$1,249,000	\$0	
Road Crossings			ea.	1	\$551,000	\$551,000	
Major Road Crossings (Highway)			ea.	0	\$1,249,000	\$0	
Utility Crossings			ea.	0	\$551,000	\$0	
			i i				
Additional Construction Costs	10%		ea.			\$87,838	Includes Mod/Demob,connections, inspection, hydrants, signage, traffic management, bonding, insurance
Provisional & Allowance	10%		ea.			\$96,622	Provisional Labour and Materials in addition to base
			1	1	11		
Total Construction Costs						\$1,063,000	
Geotechnical Requirements							
i. Geo-tech/Hydrogeo/Materials	0.5%					\$5,300	
Geotechnical Sub-Total						\$5,300	
Property Requirements							
i. Property and Easements	1.0%					\$10,600	
Property Requirements Sub-total						\$10,600	
						A. 070 000	
Sub-Total Base Costs						\$1,078,900	
Consultant Engineering							
Study/Design/Contract Administration	15%					\$159.500	
Consultant Engineering Sub-total						\$159.500	
					I		
In-house Fees							
Study/Design/Contract Administration	8%					\$85,000	
In-house Fees Sub-total						\$85,000	
Project Contingency							
Project Contingency	10%					\$106,300	
Project Contingency Sub-total						\$106,300	
Non Refundable HST							
Non Refundable HST	1.76%					\$23,700	
Non Refundable HST Sub-total						\$23,700	
Total (2021 Dollars)						\$1,453,000	
Chosen Estimate						\$1,453,000	2021 Estimate





Project No.: SW-LI-004 Project Name: Project Description:

Steeles Avenue West and Lancastershire Lane Cost estimate for the upsizing of the storm sewer network from 300 mm diameter to 375 mm diameter

		_	 _
Class Estimate Type:	Class 4	Class adjusts Construction Contingency and expected accuracy	= Field has drop down
Project Complexity	Low	Complexity adjusts Additional Construction Costs, Geotech, Property and expected accuracy	= Field must be manually populated
Accuracy Range:	30%		= Field auto-filled based on project details
Area Condition:	Suburban	Area Condition adjusts Pipe Construction Uplift	
		-	



CLASS EA REQUIREMENTS:	A+
CONSTRUCTION ASSUMPTION:	Sewer 5m

STIMATED

Considiation Considing in a large of the second of the sec	COMPONENT	(%)	(\$)	UNIT	QUANTITY	COST PER UNIT	SUB-TOTAL	COMMENTS		
Pipe Construction - Open CultImI	Construction Cost									
Pice Construction Control Pice Construction (Highean on Ana Condition)nnnnNNN<	Pipe Construction - Open Cut			m	196 m	\$808	\$158,277	Existing road ROW		
Pipe Construction Uplit (Based on Area Condition)       20%       en.       0       \$31.65	Pipe Construction - Tunneling			m	0 m	\$7,751	\$0			
Marc CrossingsImage Crossing SeriesSeriesSeriesRead Crossings (Mg/may)Image Cross (Social Section Sectin	Pipe Construction Uplift (Based on Area Conditions)	20%					\$31,655			
Mage Creatingse.a.0\$1212.00050Majer Read Creatingse.a.0\$514.00050Majer Read Creatings (Mijhway)e.a.0\$1212.00050Majer Read Creatings (Mijhway)e.a.0\$1212.00050Uilly Costingse.a.0\$1212.00050Additional Construction Costs10%e.a.0\$1212.000Provisional & Allowance10%e.a.0\$1200.00Total Construction Costs10%e.a.0\$1200.00Construction Costs10%e.a.0\$1200.00Construction Costs10%e.a.1\$1200.00Construction Costs0.9%51.200.00Construction Costs0.9%\$1.200.00Construction Costs0.9%\$1.200.00Construction Costs0.9%\$1.200.00Construction Costs0.9%\$1.200.00Construction Costs0.9%\$1.200.00Construction Costs0.9%\$1.200.00Construction Costs0.9%\$2.200.00Properly Requirements\$1.200.00\$2.300.00Construction Costs1.0%\$2.300.00Construction Costs1.0%\$2.300.00Construction Costs1.0%\$2.300.00Construction Costs1.0%\$2.300.00Construction Costs1.0%\$2.300.00Construction Costs1.0% <t< td=""><td>Minor Creek Crossings</td><td></td><td></td><td>ea.</td><td>0</td><td>\$204,000</td><td>\$0</td><td></td></t<>	Minor Creek Crossings			ea.	0	\$204,000	\$0			
Read Consensings         e.e.         0         \$554.000         50           Major Read Consensing Mighaway)         e.e.         0         \$514.000         50           Major Read Consensing Mighaway         e.e.         0         \$514.000         50           Major Read Consensing Mighaway         e.e.         0         \$514.000         50           Additional Constancian Costa         10%         e.e.         0         \$514.000         Foundational Constancian Costa           Additional Construction Costa         10%         e.e.         0         \$514.000         Foundational Construction Costa           Total Construction Costa         10%         e.e.         0         \$518.000         Foundation Costa           Total Construction Costa         10%         e.e.         \$520.000         Foundation Costa           Geotechnical Regulaments         0.5%         \$12.00         Foundation Costa           Geotechnical Sub-Total         0.5%         \$23.00         Foundation Costa           Fright and Ease Mighaway         1.0%         \$23.00         Foundation Costa           Sub/Delay Costa Administration         10%         \$34.000         Foundation Costa           Sub/Delay Costa Administration         10%         \$34.000         Foundat	Major Creek Crossings			ea.	0	\$1,212,000	\$0			
Major Rad Crossings (Highway)         e.         0         \$1,212,000         50           Uildy Crossings         e.         0         \$514,000         50           Additional Construction Costs         10%         e.a.         0         \$516,000         50           Additional Construction Costs         10%         e.a.         0         \$516,000         \$500,000           Provisional & Adowance         10%         e.a.         0         \$500,000         \$500,000           Total Construction Costs         5220,000         \$500,000         \$500,000         \$500,000           Construction Costs         5220,000         \$500,000         \$500,000         \$500,000           Construction Costs         5220,000         \$500,000	Road Crossings			ea.	0	\$514,000	\$0			
Unity Crossings         os.         0         \$\$14,000         50           Additorial Construction Costs         10%         ea.           Includes Man2Demote Scored Son, Hope Construction, Hope Janage, Tatif Ansa Sone Sone Sone Sone Sone Sone Sone Sone	Major Road Crossings (Highway)			ea.	0	\$1,212,000	\$0			
Additional Construction Costs10%e.a.Includes MoDDemob connections, inspection, hydrams, standing, ratificer management, bodring, insuranceProvisional A Allowance10%e.a.\$20.83Standage, teller management, bodring, insuranceProvisional A Allowance10%e.a.\$20.83Standage, teller management, bodring, insuranceTotal Construction Costs\$20.83\$20.83Standage, teller management, bodring, insuranceGeotechnical Requirements\$20.84\$20.85Standage, teller management, bodring, insuranceGeotechnical Requirements0.5%\$20.80Standage, teller management, bodring, insuranceGeotechnical Requirements0.5%\$1.200StandageGeotechnical Sub-Total0.5%\$1.200StandageProperty Requirements\$1.200\$23.30Property RequirementsLi Constituta Engineering\$23.30Property Requirements\$23.30Sub-Total Base Costs\$23.4500\$34.500\$34.500Consultant Engineering Sub-total\$18.400\$34.500Includes Fees\$18.400\$18.400Includes Fees Sub-total\$18.400Project Contingency10%\$2.300Project Contingency10%\$2.300Project Contingency Sub-total\$2.300Project Contingency Sub-total\$1.75%Non Refundable HST\$5.100Non Refundable HST\$5.100Non Refundable HST Sub-total\$5.100Non Refundable HST Sub-total\$5.100Sub-total\$5.100Non Ref	Utility Crossings			ea.	0	\$514,000	\$0			
Additional Construction Costs         10%         e.a.         \$18.000         Statuss signage, truttion management, bonning, resurce on signage, truttion management, bonning, resurce on social construction cost           Total Construction Costs         \$20.000         \$20.000           Geotechnical Requirements         \$1.000         \$1.000         \$1.000           L Geotechnical Sub-Total         \$1.000         \$1.000         \$1.000           Geotechnical Sub-Total         \$1.200         \$1.200         \$1.000           Property Requirements         \$1.200         \$1.200         \$1.200           Property Requirements Sub-Total         \$1.200         \$1.200         \$1.200           Property Requirements Sub-Total         \$1.200         \$1.200         \$1.200           Sub/Total Base Costs         \$2.300         \$2.300         \$1.000           Consultant Engineering Sub-total         \$2.300         \$2.300         \$2.300           Consultant Engineering Sub-total         \$3.4.500         \$3.4.500         \$3.4.500           Consultant Engineering Sub-total         \$3.4.500         \$3.4.500         \$3.4.500           Very Devel Sub-total         \$3.4.500         \$3.4.500         \$3.4.500         \$3.4.500         \$3.4.500         \$3.4.500         \$3.4.500         \$3.4.500         \$3.4.500 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>										
Provisional & Allowance         9200 Biol         9200 Biol </td <td>Additional Construction Costs</td> <td>10%</td> <td></td> <td>ea.</td> <td></td> <td></td> <td>\$18,993</td> <td>Includes Mod/Demob,connections, inspection, hydrants, signage, traffic management, bonding, insurance</td>	Additional Construction Costs	10%		ea.			\$18,993	Includes Mod/Demob,connections, inspection, hydrants, signage, traffic management, bonding, insurance		
Tail Construction Costs       \$220,000         Geotechnical Requirements       51,200         Geotechnical Sub-Total       \$1,200         Property Requirements       \$1,200         I. Property Requirements Sub-total       \$2,300         Property Requirements Sub-total       \$2,300         Sub-Total Base Costs       \$2,300         Sub-Total Base Costs       \$2,300         Consultant Engineering       \$2,300         Sub/Total Base Costs       \$2,300         Consultant Engineering Sub-total       \$3,4,500         Consultant Engineering Sub-total       \$3,4,500         Consultant Engineering Sub-total       \$3,4,500         Property Requirements       \$16,400         In-house Fees       \$16,400         In-house Fees Sub-total       \$18,400         Project Contingency       10%       \$2,300         Project Contingency       10%       \$2,300         Project Contingency Sub-total       \$2,300       \$2,300         Non Refundable HST       \$2,800       \$2,800         Non Refundable HST       \$3,100       \$2,000         Total Contingency Sub-total       \$2,000       \$2,000         Total Contingency Sub-total       \$2,000       \$2,000         <	Provisional & Allowance	10%		ea.			\$20,893	Provisional Labour and Materials in addition to base construction cost		
Convert         Convert           Geotechnical Requirements         51.200           Concentry drogeo/Materials         0.5%           Geotechnical Sub-Total         \$1.200           Property Requirements         1.0%           L. Property Requirements Sub-total         \$2.200           Sub-Total Ease Costs         \$23.300           Consultant Engineering         \$2.300           Consultant Engineering Sub-total         \$2.300           Consultant Engineering Sub-total         \$34.500           In-house Fees         Sub/Contract Administration           Study/Design/Contract Administration         \$%           In-house Fees Sub-total         \$18.400           Project Contingency         10%           Project Contingency         \$23.000           Non Refundable HST         \$3.000           Non Refundable HST         \$3.000           Non Refundable HST         \$3.000           Total (221 Dollars) <t< td=""><td>Total Construction Costs</td><td></td><td></td><td></td><td></td><td></td><td>\$230.000</td><td></td></t<>	Total Construction Costs						\$230.000			
Geotechnical Requirements         0.5%         \$1.00           Geotechnical Sub-Total         \$1.200           Geotechnical Sub-Total         \$1.200           Property Requirements         \$1.200           Image: Sub-Total         \$2.300           Property Requirements         \$2.300           Sub-Total Easements         \$2.300           Sub-Total Ease         \$22.300           Consultant Engineering         \$2.300           Consultant Engineering         \$34.500           Consultant Engineering Sub-total         \$34.500           Sudy/Design/Contract Administration         15%           Sudy/Design/Contract Administration         15%           Sudy/Design/Contract Administration         8%           Inclosue Fees         \$18.400           Inclosue Fees         \$18.400           Inclosue Fees Sub-total         \$18.400           Inclosue Fees Sub-total         \$18.400           Inclosue Fees Sub-total         \$23.000           Project Contingency         10%         \$23.000           Project Contingency         10%         \$23.000           Project Contingency         \$25.100         \$23.000           Non Refundable HST         \$5.100         \$5.100							φ200,000			
L Geoten/Hydrogeo/Materials         0.5%         \$1.200           Geoten/Hydrogeo/Materials         \$1.200           Geoten/Hydrogeo/Materials         \$1.200           Property Requirements         \$1.200           I. Property Requirements         \$2.300           Property Requirements Sub-total         \$2.300           Stb-Total Ease Costs         \$2.233,500           Stb-Total Ease Costs         \$2.233,500           Consultant Engineering         \$34.500           Consultant Engineering Sub-total         \$15,400           In-house Fees         \$16,400           StudyDesgin/Contract Administration         8%           StudyDesgin/Contract Administration         8%           In-house Fees         \$18,400           Project Contingency         10%         \$23.000           Project Contingency         10%         \$23.000           Project Contingency Sub-total         \$23.000         \$23.000           Non Refundable HST         \$51.000         \$51.000 <td< td=""><td>Geotechnical Requirements</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Geotechnical Requirements									
Geotechnical Sub-Total         \$1,200           Property Requirements	i. Geo-tech/Hydrogeo/Materials	0.5%					\$1,200			
Property Requirements         1.0%         \$2,00           Property Requirements Sub-total         \$2,300           Sub-Total Base Costs         \$23,350           Consultant Engineering         \$23,00           Sub/Design/Contract Administration         15%         \$34,500           Consultant Engineering Sub-total         \$34,500         \$34,500           Consultant Engineering Sub-total         \$34,500         \$34,500           Consultant Engineering Sub-total         \$34,500         \$34,500           Inhouse Fees         \$318,400         \$318,400           Inhouse Fees Sub-total         \$18,400         \$318,400           Project Contingency         10%         \$23,000           Project Contingency         1.76%         \$5,100           Non Refundable HST         \$25,100         \$2000           Non Refundable HST Sub-total         \$25,100         \$2000           Subcode Elevence         \$2000         \$2000	Geotechnical Sub-Total	•	•				\$1,200			
Property Requirements         1.0%         \$2,300           Property Requirements Sub-total         \$2,300           Sub-Total Base Costs         \$2233,500           Sob-Total Base Costs         \$2233,500           Consultant Engineering         \$34,500           Study/Design/Contract Administration         15%         \$34,500           Consultant Engineering Sub-total         \$34,500         \$34,500           Consultant Engineering Sub-total         \$34,500         \$34,500           Inhouse Fees         \$34,500         \$34,500           Study/Design/Contract Administration         8%         \$18,400           Inhouse Fees         \$18,400         \$18,400           Project Contingency         10%         \$23,000           Project Contingency         10%         \$23,000      <										
i. Property and Easements         52.00           Property Requirements Sub-total         \$2.00           Stb-Total Base Costs         \$233,500           Stb-Total Base Costs         \$233,500           Consultant Engineering         \$34,500           Study/Design/Contract Administration         15%           Study/Design/Contract Administration         15%           In-house Fees         \$34,500           Study/Design/Contract Administration         8%           In-house Fees Sub-total         \$18,400           Project Contingency         \$18,400           Project Contingency         10%           Project Contingency         10%           Project Contingency         10%           Non Refundable HST         \$5.100           Non Refundable HST         \$5.100           Non Refundable HST Sub-total         \$5.100           Non Refundable HST Sub-total         \$5.100	Property Requirements									
Property Requirements Sub-total         \$2,300           Sub-Total Base Costs         \$233,500           Consultant Engineering         \$34,500           Consultant Engineering Sub-total         \$34,500           Consultant Engineering Sub-total         \$34,500           Consultant Engineering Sub-total         \$34,500           In-house Fees         \$15,400           In-house Fees Sub-total         \$18,400           In-house Fees Sub-total         \$18,400           Project Contingency         \$18,400           Project Contingency         \$18,400           Project Contingency         \$23,000           Project Contingency         \$23,000           Non Refundable HST         \$23,000           Non Refundable HST         \$51,100           Non Refundable HST Sub-total         \$51,100           Non Refundable HST Sub-total         \$51,000	i. Property and Easements	1.0%					\$2,300			
Sub-Total Base Costs       \$233,500         Consultant Engineering       Study/Design/Contract Administration       15%       S34,500         Consultant Engineering Sub-total       \$34,500       S34,500         Consultant Engineering Sub-total         Study/Design/Contract Administration       8%       S18,400       S18,400         In-house Fees         Study/Design/Contract Administration       8%       S18,400       S18,400         Project Contingency         Project Contingency         Project Contingency         Project Contingency         Project Contingency         Study/Design/Contract Administration         Non Refundable HST         Non Refundable HST         Non Refundable HST         Stady of stady colspan="2">Stady of stady colspan="2">Stady of stady colspan="2">Stady colspan="2"         Total (2021 Dollars)       \$315,000         Stady colspan="2"         Stady colspan="2"         Stady colspan="2"         Stady colspan="2"         Stady colspan="2"         Stady colspan="2" <td <="" colspan="2" td=""><td>Property Requirements Sub-total</td><td></td><td></td><td></td><td></td><td></td><td>\$2,300</td><td></td></td>	<td>Property Requirements Sub-total</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$2,300</td> <td></td>		Property Requirements Sub-total						\$2,300	
Consultant Engineering         V200,000           Study/Design/Contract Administration         15%         \$34,500           Consultant Engineering Sub-total         \$34,500         \$34,500           In-house Fees         \$34,500         \$34,500           Study/Design/Contract Administration         8%         \$18,400           In-house Fees         \$18,400         \$18,400           Project Contingency         8%         \$18,400           Project Contingency         10%         \$23,000           Project Contingency         10%         \$23,000           Project Contingency         10%         \$23,000           Non Refundable HST         \$5,100         \$5,100           Non Refundable HST Sub-total         \$5,100         \$5,100	Sub-Total Base Costs						\$233 500			
Consultant Engineering         Stady/Design/Contract Administration         15%         Stady/Design/Contract Administration         15%         Stady Consultant Engineering Sub-total         Stady Consultant Engineering Sub-total <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>φ200,000</td> <td></td>							φ200,000			
Study/Design/Contract Administration         15%         \$34,500           Consultant Engineering Sub-total         \$34,500           In-house Fees         Study/Design/Contract Administration         8%         \$18,400           Study/Design/Contract Administration         8%         \$18,400         \$18,400           In-house Fees         \$18,400         \$18,400         \$18,400           In-house Fees Sub-total         \$18,400         \$18,400         \$18,400           Project Contingency         10%         \$23,000         \$23,000         \$23,000           Project Contingency         10%         \$23,000 <t< td=""><td>Consultant Engineering</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Consultant Engineering									
Consultant Engineering Sub-total         \$34,500           In-house Fees         \$18,400           Study/Design/Contract Administration         8%         \$18,400           In-house Fees Sub-total         \$18,400         \$18,400           In-house Fees Sub-total         \$18,400         \$18,400           Project Contingency         \$18,400         \$18,400           Project Contingency         10%         \$23,000           Project Contingency Sub-total         \$23,000         \$23,000           Non Refundable HST         \$5,100         \$55,100           Non Refundable HST         \$5,100         \$51,000           Total (2021 Dollars)         \$315,000         \$315,000	Study/Design/Contract Administration	15%					\$34,500			
In-house Fees         Study/Design/Contract Administration         8%         \$18,400         \$18,400           In-house Fees Sub-total         \$18,400         \$10,400<	Consultant Engineering Sub-total						\$34,500			
In House Fees       \$18,400       \$18,400         Study/Design/Contract Administration       8%       \$18,400         In-house Fees Sub-total       \$18,400       \$18,400         Project Contingency       10%       \$23,000         Project Contingency Sub-total       \$23,000       \$23,000         Non Refundable HST       \$5,100       \$5,100         Non Refundable HST Sub-total       \$5,100       \$5,100         Total (2021 Dollars)       \$315,000       \$315,000										
Stady Tool reduines auton         S76         \$16,400           In-house Fees Sub-total         \$18,400         \$18,400           Project Contingency         10%         \$23,000           Project Contingency Sub-total         \$23,000         \$23,000           Non Refundable HST         \$23,000         \$23,000           Non Refundable HST         \$5,100         \$5,100           Total (2021 Dollars)         \$315,000         \$315,000	Study/Decian/Contract Administration	00/				I	£19.400			
Initialize Fees Substation         \$16,400           Project Contingency         10%         \$23,000           Project Contingency Sub-total         \$23,000         \$23,000           Project Contingency Sub-total         \$23,000         \$23,000           Non Refundable HST         \$5,100         \$5,100           Non Refundable HST Sub-total         \$5,100         \$5,100		0%					\$18,400			
Project Contingency         10%         \$23,00           Project Contingency Sub-total         \$23,000         \$23,000           Project Contingency Sub-total         \$23,000         \$23,000           Non Refundable HST         \$5,100         \$5,100           Non Refundable HST Sub-total         \$5,100         \$5,100           Total (2021 Dollars)         \$315,000         \$315,000							\$10,400			
Project Contingency         10%         \$23,000           Project Contingency Sub-total         \$23,000         \$23,000           Non Refundable HST         \$23,000         \$23,000           Non Refundable HST         1.76%         \$5,100           Non Refundable HST         \$5,100         \$55,100           Total (2021 Dollars)         \$315,000         \$315,000	Project Contingency									
Project Contingency Sub-total         \$23,000           Non Refundable HST	Project Contingency	10%					\$23,000			
Non Refundable HST           Non Refundable HST           1.76%           S5,100           Non Refundable HST Sub-total           55,100           Total (2021 Dollars)           \$315,000	Project Contingency Sub-total						\$23,000			
Non Refundable HST         \$5,100           Non Refundable HST         \$5,00           Non Refundable HST Sub-total         \$5,00										
Non Refundable HST         1.76%         \$5,100           Non Refundable HST Sub-total         \$5,100         \$5,100	Non Refundable HST									
Non Refundable HST Sub-total \$5,100	Non Refundable HST	1.76%					\$5,100			
Total (2021 Dollars) \$315,000	Non Refundable HST Sub-total						\$5,100			
10tal (2021 Dollars) \$\$315,000										
	iotai (2021 Dollars)						\$315,000			





### Project No.: SW-LI-005a Project Name: Project Description:

Derry Road and Dishley Court Cost estimate for the upsizing of a portion of the storm sewer network from 300 mm diameter to 375 mm diameter

Class Estimate Type:	Class 4	Class adjusts Construction Contingency and expected accuracy		= Field has drop down
Project Complexity	Low	Complexity adjusts Additional Construction Costs, Geotech, Property and expected accuracy		= Field must be manually populated
Accuracy Range:	30%			= Field auto-filled based on project details
Area Condition:	Suburban	Area Condition adjusts Pipe Construction Uplift		
DRODOGED DIAMETER.	075		A .	

PROPOSED DIAME	TER:	375 mm	
TOTAL LENGTH:		100 m	
	Tunnelled	0 m	0%
Open Cut		100 m	100%

CLASS EA REQUIREMENTS:	A+
CONSTRUCTION ASSUMPTION:	Sewer 5m

COMPONENT	(%)	(\$)	UNIT	QUANTITY	COST PER UNIT	SUB-TOTAL	COMMENTS
Construction Cost							
Pipe Construction - Open Cut			m	100 m	\$808	\$80,754	Existing road ROW
Pipe Construction - Tunneling			m	0 m	\$7,751	\$0	
Pipe Construction Uplift (Based on Area Conditions)	20%					\$16,151	
Minor Creek Crossings			ea.	0	\$204,000	\$0	
Major Creek Crossings			ea.	0	\$1,212,000	\$0	
Road Crossings			ea.	0	\$514,000	\$0	
Major Road Crossings (Highway)			ea.	0	\$1,212,000	\$0	
Utility Crossings			ea.	0	\$514,000	\$0	
Additional Construction Costs	10%		ea.			\$9,690	Includes Mod/Demob,connections, inspection, hydrants, signage, traffic management, bonding, insurance
Provisional & Allowance	10%		ea.			\$10,660	Provisional Labour and Materials in addition to base construction cost
Total Construction Costs						\$117,000	
Geotechnical Requirements							
i. Geo-tech/Hydrogeo/Materials	0.5%					\$600	
Geotechnical Sub-Total						\$600	
Property Requirements							
i. Property and Easements	1.0%					\$1,200	
Property Requirements Sub-total		1				\$1,200	
Sub-Total Base Costs						\$118,800	
					1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Consultant Engineering							
Study/Design/Contract Administration	15%					\$17,600	
Consultant Engineering Sub-total						\$17,600	
In-house Fees							
Study/Design/Contract Administration	8%					\$9.400	
In-house Fees Sub-total						\$9,400	
Project Ocotionen							
Project Contingency	100/					<b>A</b> 44 300	1
Project Contingency	10%					\$11,700	
Project Contingency Sub-total						\$11,700	
Non Refundable HST							
Non Refundable HST	1.76%					\$2,600	
Non Refundable HST Sub-total						\$2,600	
Total (2021 Dollars)						\$160,000	
Chosen Estimate						\$160.000	2021 Estimate





### Project No.: SW-LI-005b Project Name: Project Description:

Derry Road and Dishley Court Cost estimate for the upsizing of a portion of the storm sewer network from 375 mm diameter to 450 mm diameter

Class Estimate Type:	Class 4	Class adjusts Construction Contingency and expected accuracy	= Field has drop down
Project Complexity	Low	Complexity adjusts Additional Construction Costs, Geotech, Property and expected accuracy	= Field must be manually populated
Accuracy Range:	30%		= Field auto-filled based on project details
Area Condition:	Suburban	Area Condition adjusts Pipe Construction Uplift	

PROPOSED DIAME	TER:	450 mm	
TOTAL LENGTH:		77 m	
	Tunnelled	0 m	0%
Open Cut		77 m	100%

CLASS EA REQUIREMENTS:	A+
CONSTRUCTION ASSUMPTION:	Sewer 5m

COMPONENT	(%)	(\$)	UNIT	QUANTITY	COST PER UNIT	SUB-TOTAL	COMMENTS
Construction Cost							
Pipe Construction - Open Cut			m	77 m	\$883	\$67,984	Existing road ROW
Pipe Construction - Tunneling			m	0 m	\$7,751	\$0	
Pipe Construction Uplift (Based on Area Conditions)	20%					\$13,597	
Minor Creek Crossings			ea.	0	\$241,000	\$0	
Major Creek Crossings			ea.	0	\$1,249,000	\$0	
Road Crossings			ea.	0	\$551,000	\$0	
Major Road Crossings (Highway)			ea.	0	\$1,249,000	\$0	
Utility Crossings			ea.	0	\$551,000	\$0	
Additional Construction Costs	10%		ea.			\$8,158	Includes Mod/Demob,connections, inspection, hydrants, signage, traffic management, bonding, insurance
Provisional & Allowance	10%		ea.			\$8,974	Provisional Labour and Materials in addition to base construction cost
Total Construction Costs						\$99.000	
					I	<b>\$00,000</b>	
Geotechnical Requirements							
i. Geo-tech/Hydrogeo/Materials	0.5%					\$500	
Geotechnical Sub-Total		•				\$500	
Property Requirements							1
I. Property and Easements	1.0%					\$1,000	
Property Requirements Sub-total						\$1,000	
Sub-Total Base Costs						\$100,500	
Consultant Engineering							
Study/Design/Contract Administration	15%					\$14,000	
Consultant Engineering Sub-total	1378					\$14,500	
						\$14,500	
In-house Fees							
Study/Design/Contract Administration	8%					\$7,900	
In-house Fees Sub-total						\$7,900	
Paralant Constitution							
	400/					<b>^</b>	r
Project Contingency	10%					\$9,900	
						\$9,900	
Non Refundable HST							
Non Refundable HST	1.76%					\$2.200	
Non Refundable HST Sub-total						\$2,200	
		•					
Total (2021 Dollars)						\$135,000	
Chosen Estimate						\$135,000	2021 Estimate





### Project No.: SW-LI-005c Project Name: Project Description:

Derry Road and Dishley Court Cost estimate for the upsizing of a portion of the storm sewer network from 450 mm diameter to 525 mm diameter Note: may require upsizing through park to facilitate stormwater

Project Complexity	Low	Complexity adjusts Additional Construction Costs, Geotech, Property and expected accuracy		= Field must be manually populated
Accuracy Range:	30%			= Field auto-filled based on project details
Area Condition:	Suburban	Area Condition adjusts Pipe Construction Uplift		
		-		
PROPOSED DIAMETER	505		A .	

PROPOSED DIAME	IER:	525 mm	
TOTAL LENGTH:		13 m	
	Tunnelled	0 m	0%
Open Cut		13 m	100%

CLASS EA REQUIREMENTS:	A+
CONSTRUCTION ASSUMPTION:	Sewer 5m

COMPONENT	(%)	(\$)	UNIT		COST PER UNIT	SUB-TOTAL	COMMENTS	
Construction Cost								
Pipe Construction - Open Cut			m	13 m	\$948	\$12,318	Existing road ROW	
Pipe Construction - Tunneling			m	0 m	\$7,751	\$0		
Pipe Construction Uplift (Based on Area Conditions)	20%					\$2,464		
Minor Creek Crossings			ea.	0	\$241,000	\$0		
Major Creek Crossings			ea.	0	\$1,249,000	\$0		
Road Crossings			ea.	0	\$551,000	\$0		
Major Road Crossings (Highway)			ea.	0	\$1,249,000	\$0		
Utility Crossings			ea.	0	\$551,000	\$0		
Additional Construction Costs	10%		ea.			\$1,478	Includes Mod/Demob, connections, inspection, hydrants,	
Provisional & Allowance	10%		ea			\$1.626	Provisional Labour and Materials in addition to base	
	1070		00.		<u> </u>	\$1,020	construction cost	
Total Construction Costs						\$18,000		
						<b>\$10,000</b>		
Geotechnical Requirements								
i. Geo-tech/Hydrogeo/Materials	0.5%					\$100		
Geotechnical Sub-Total	•					\$100		
Property Requirements								
i. Property and Easements	1.0%					\$200		
Property Requirements Sub-total						\$200		
						¢40.000		
Sub-Total Base Costs						\$18,300		
Consultant Engineering								
Study/Design/Contract Administration	15%					\$2.700		
Consultant Engineering Sub-total						\$2.700		
		1			I			
In-house Fees								
Study/Design/Contract Administration	8%					\$1,400		
In-house Fees Sub-total						\$1,400		
Project Contingency								
Project Contingency	10%					\$1,800		
Project Contingency Sub-total						\$1,800		
Non Refundable HST		1					Γ	
Non Refundable HST	1.76%					\$400		
Non Refundable HST Sub-total						\$400		
Total (2021 Dollars)						ÉOE COO		
Choson Estimato						\$25,000	2021 Estimato	
Ghosen Estimate						\$25,000	2021 Estimate	





# Project No.: SW-LI-006 Project Name: Project Description:

Erin Mills Parkway and QEW Ramp West Cost estimate for the upsizing of the storm sewer network from 300 mm diameter to 375 mm diameter

Class Estimate Type:	Class 4	Class adjusts Construction Contingency and expected accuracy	= Field has drop down
Project Complexity	Low	Complexity adjusts Additional Construction Costs, Geotech, Property and expected accuracy	= Field must be manually populated
Accuracy Range:	30%		= Field auto-filled based on project details
Area Condition:	Suburban	Area Condition adjusts Pipe Construction Uplift	•
		-	

PROPOSED DIAME	TER:	375 mm	
TOTAL LENGTH:		170 m	
	Tunnelled	0 m	0%
	Open Cut	170 m	100%

CLASS EA REQUIREMENTS:	A+
CONSTRUCTION ASSUMPTION:	Sewer 5m

COMPONENT	(%)	(\$)	UNIT	QUANTITY	COST PER UNIT	SUB-TOTAL	COMMENTS
Construction Cost			1		· · ·		
Pipe Construction - Open Cut			m	170 m	\$808	\$137,281	Existing road ROW
Pipe Construction - Tunneling			m	0 m	\$7,751	\$0	
Pipe Construction Uplift (Based on Area Conditions)	20%					\$27,456	
Minor Creek Crossings			ea.	0	\$204,000	\$0	
Major Creek Crossings			ea.	0	\$1,212,000	\$0	
Road Crossings			ea.	0	\$514,000	\$0	
Major Road Crossings (Highway)			ea.	0	\$1,212,000	\$0	
Utility Crossings			ea.	0	\$514,000	\$0	
Additional Construction Costs	10%		ea.			\$16,474	Includes Mod/Demob,connections, inspection, hydrants, signage, traffic management, bonding, insurance
Provisional & Allowance	10%		ea.			\$18,121	Provisional Labour and Materials in addition to base construction cost
Total Construction Casta						\$100.000	
						\$199,000	
Geotechnical Requirements							
i. Geo-tech/Hydrogeo/Materials	0.5%					\$1,000	
Geotechnical Sub-Total						\$1,000	
Property Requirements							
I. Property and Easements	1.0%					\$2,000	
Property Requirements Sub-total						\$2,000	
Sub-Total Base Costs						\$202,000	
Consultant Engineering							
Study/Design/Contract Administration	15%					\$29,900	
Consultant Engineering Sub-total						\$29,900	
In-house Fees							
Study/Design/Contract Administration	8%					\$15.900	
In-house Fees Sub-total						\$15,900	
Project Contingency							
Project Contingency	10%					\$19,900	
Project Contingency Sub-total						\$19,900	
Non Refundable HST							
Non Refundable HST	1.76%					\$4,400	
Non Refundable HST Sub-total						\$4,400	
Total (2021 Dollars)						\$373.000	
Chosen Estimate		_				\$272,000	2021 Estimate
Giosen Estimate						\$272,000	2021 Estimate