

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 Program						1,931 m					\$ 14,298,000	

Project No.: SW-LI-001a
Project Name: Emil Kolb Parkway and De Rose Avenue
Project Description: 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		

PROPOSED DIAMETER:	375 mm			CLASS EA REQUIREMENTS:	A+
TOTAL LENGTH:	70 m			CONSTRUCTION ASSUMPTION:	Sewer 5m
Tunnelled	0 m	0%			
Open Cut	70 m	100%			

COST ESTIMATION SPREADSHEET

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			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			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 construction cost
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	
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	10%					\$8,200	
Project Contingency Sub-total						\$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: Emil Kolb Parkway and De Rose Avenue
Project Description: 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 DIAMETER:	450 mm			
TOTAL LENGTH:	115 m			
	Tunnelled	0 m	0%	
	Open Cut	115 m	100%	

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

COST ESTIMATION SPREADSHEET

COMPONENT	RATE (%)	RATE (\$)	UNIT	ESTIMATED 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	
Geotechnical Requirements							
i. Geo-tech/Hydrogeo/Materials	0.5%					\$700	
Geotechnical Sub-Total						\$700	
Property Requirements							
i. Property and Easements	1.0%					\$1,500	
Property Requirements Sub-total						\$1,500	
Sub-Total Base Costs						\$149,200	
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						\$11,800	
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)						\$201,000	
Chosen Estimate						\$201,000	2021 Estimate

Project No.: SW-LI-001c
Project Name: Emil Kolb Parkway and De Rose Avenue
Project Description: 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:	525 mm
TOTAL LENGTH:	120 m
Tunnelled	0 m 0%
Open Cut	120 m 100%

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

COST ESTIMATION SPREADSHEET

COMPONENT	RATE (%)	RATE (\$)	UNIT	ESTIMATED 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			m	0 m	\$7,751	\$0	
Pipe Construction Uplift (Based on Area Conditions)	20%					\$22,740	
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.			\$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						\$800	
Property Requirements							
i. Property and Easements	1.0%					\$1,700	
Property Requirements Sub-total						\$1,700	
Sub-Total Base Costs						\$167,500	
Consultant Engineering							
Study/Design/Contract Administration	15%					\$24,800	
Consultant Engineering Sub-total						\$24,800	
In-house Fees							
Study/Design/Contract Administration	8%					\$13,200	
In-house Fees Sub-total						\$13,200	
Project Contingency							
Project Contingency	10%					\$16,500	
Project Contingency Sub-total						\$16,500	
Non Refundable HST							
Non Refundable HST	1.76%					\$3,700	
Non Refundable HST Sub-total						\$3,700	
Total (2021 Dollars)						\$226,000	
Chosen Estimate						\$226,000	2021 Estimate

Project No.: SW-LI-001d
Project Name: Emil Kolb Parkway and De Rose Avenue
Project Description: 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		

PROPOSED DIAMETER:	600 mm
TOTAL LENGTH:	130 m
Tunnelled	0 m 0%
Open Cut	130 m 100%

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

COST ESTIMATION SPREADSHEET

COMPONENT	RATE (%)	RATE (\$)	UNIT	ESTIMATED 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)			ea.	0	\$1,249,000	\$0	
Utility Crossings			ea.	0	\$551,000	\$0	
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						\$1,200	
Property Requirements							
i. Property and Easements	1.0%					\$2,300	
Property Requirements Sub-total						\$2,300	
Sub-Total Base Costs						\$233,500	
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	
Project Contingency							
Project Contingency	10%					\$23,000	
Project Contingency Sub-total						\$23,000	
Non Refundable HST							
Non Refundable HST	1.76%					\$5,100	
Non Refundable HST Sub-total						\$5,100	
Total (2021 Dollars)						\$315,000	
Chosen Estimate						\$315,000	2021 Estimate

Project No.: SW-LI-002a
Project Name: Bovaird Drive and Consetoga Drive
Project Description: 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 DIAMETER:	450 mm
TOTAL LENGTH:	289 m
Tunnelled	0 m 0%
Open Cut	289 m 100%

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

COST ESTIMATION SPREADSHEET

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	
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: Bovaird Drive and Consetoga Drive
Project Description: 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:	525 mm
TOTAL LENGTH:	144 m
Tunnelled	0 m 0%
Open Cut	144 m 100%

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

COST ESTIMATION SPREADSHEET

COMPONENT	RATE (%)	RATE (\$)	UNIT	ESTIMATED 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 Costs						\$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	
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	
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: Bovaird Drive and Consetoga Drive
Project Description: 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		

PROPOSED DIAMETER:	600 mm
TOTAL LENGTH:	97 m
Tunnelled	0 m 0%
Open Cut	97 m 100%

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

COST ESTIMATION SPREADSHEET

COMPONENT	RATE (%)	RATE (\$)	UNIT	ESTIMATED QUANTITY	COST PER UNIT	SUB-TOTAL	COMMENTS
Construction Cost							
Pipe Construction - Open Cut			m	97 m	\$1,217	\$118,019	Existing road ROW
Pipe Construction - Tunneling			m	0 m	\$7,751	\$0	
Pipe Construction Uplift (Based on Area Conditions)	20%					\$23,604	
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.			\$14,162	Includes Mod/Demob, connections, inspection, hydrants, signage, traffic management, bonding, insurance
Provisional & Allowance	10%		ea.			\$15,579	Provisional Labour and Materials in addition to base construction cost
Total Construction Costs						\$171,000	
Geotechnical Requirements							
i. Geo-tech/Hydrogeo/Materials	0.5%					\$900	
Geotechnical Sub-Total						\$900	
Property Requirements							
i. Property and Easements	1.0%					\$1,700	
Property Requirements Sub-total						\$1,700	
Sub-Total Base Costs						\$173,600	
Consultant Engineering							
Study/Design/Contract Administration	15%					\$25,700	
Consultant Engineering Sub-total						\$25,700	
In-house Fees							
Study/Design/Contract Administration	8%					\$13,700	
In-house Fees Sub-total						\$13,700	
Project Contingency							
Project Contingency	10%					\$17,100	
Project Contingency Sub-total						\$17,100	
Non Refundable HST							
Non Refundable HST	1.76%					\$3,800	
Non Refundable HST Sub-total						\$3,800	
Total (2021 Dollars)						\$234,000	
Chosen Estimate						\$234,000	2021 Estimate

Project No.: SW-LI-003a
Project Name: Steeles Avenue West and Rivermont Road
Project Description: 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		

PROPOSED DIAMETER:	375 mm
TOTAL LENGTH:	101 m
Tunnelled	0 m 0%
Open Cut	101 m 100%

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

COST ESTIMATION SPREADSHEET

COMPONENT	RATE (%)	RATE (\$)	UNIT	ESTIMATED QUANTITY	COST PER UNIT	SUB-TOTAL	COMMENTS
Construction Cost							
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	15%					\$17,700	
Consultant Engineering Sub-total						\$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	
Non Refundable HST							
Non Refundable HST	1.76%					\$2,600	
Non Refundable HST Sub-total						\$2,600	
Total (2021 Dollars)						\$161,000	
Chosen Estimate						\$161,000	2021 Estimate

Project No.: SW-LI-003b
Project Name: Steeles Avenue West and Rivermont Road
Project Description: 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 DIAMETER:	450 mm			CLASS EA REQUIREMENTS:	A+
TOTAL LENGTH:	309 m			CONSTRUCTION ASSUMPTION:	Sewer 5m
Tunnelled	0 m	0%			
Open Cut	309 m	100%			

COST ESTIMATION SPREADSHEET

COMPONENT	RATE (%)	RATE (\$)	UNIT	ESTIMATED QUANTITY	COST PER UNIT	SUB-TOTAL	COMMENTS
Construction Cost							
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%					\$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	
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 construction cost
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	
Sub-Total Base Costs						\$1,078,900	
Consultant Engineering							
Study/Design/Contract Administration	15%					\$159,500	
Consultant Engineering Sub-total						\$159,500	
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: Steeles Avenue West and Lancastershire Lane
Project Description: 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 DIAMETER:	375 mm
TOTAL LENGTH:	196 m
Tunnelled	0 m 0%
Open Cut	196 m 100%

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

COST ESTIMATION SPREADSHEET

COMPONENT	RATE (%)	RATE (\$)	UNIT	ESTIMATED QUANTITY	COST PER UNIT	SUB-TOTAL	COMMENTS
Construction Cost							
Pipe Construction - Open Cut			m	196 m	\$808	\$158,277	Existing road ROW
Pipe Construction - Tunneling			m	0 m	\$7,751	\$0	
Pipe Construction Uplift (Based on Area Conditions)	20%					\$31,655	
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.			\$18,993	Includes Mod/Demob, connections, inspection, hydrants, signage, traffic management, bonding, insurance
Provisional & Allowance	10%		ea.			\$20,893	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						\$1,200	
Property Requirements							
i. Property and Easements	1.0%					\$2,300	
Property Requirements Sub-total						\$2,300	
Sub-Total Base Costs						\$233,500	
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	
Project Contingency							
Project Contingency	10%					\$23,000	
Project Contingency Sub-total						\$23,000	
Non Refundable HST							
Non Refundable HST	1.76%					\$5,100	
Non Refundable HST Sub-total						\$5,100	
Total (2021 Dollars)						\$315,000	
Chosen Estimate						\$315,000	2021 Estimate

Project No.: SW-LI-005a

Project Name: Derry Road and Dishley Court

Project Description: 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		

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

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

COST ESTIMATION SPREADSHEET

COMPONENT	RATE (%)	RATE (\$)	UNIT	ESTIMATED 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						\$1,200	
Sub-Total Base Costs						\$118,800	
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 Contingency							
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: Derry Road and Dishley Court

Project Description: 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 DIAMETER:	450 mm
TOTAL LENGTH:	77 m
Tunnelled	0 m 0%
Open Cut	77 m 100%

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

COST ESTIMATION SPREADSHEET

COMPONENT	RATE (%)	RATE (\$)	UNIT	ESTIMATED 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	
Geotechnical Requirements							
i. Geo-tech/Hydrogeo/Materials	0.5%					\$500	
Geotechnical Sub-Total						\$500	
Property Requirements							
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%					\$14,900	
Consultant Engineering Sub-total						\$14,900	
In-house Fees							
Study/Design/Contract Administration	8%					\$7,900	
In-house Fees Sub-total						\$7,900	
Project Contingency							
Project Contingency	10%					\$9,900	
Project Contingency Sub-total						\$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: Derry Road and Dishley Court

Project Description: 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

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

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

COST ESTIMATION SPREADSHEET

COMPONENT	RATE (%)	RATE (\$)	UNIT	ESTIMATED QUANTITY	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, signage, traffic management, bonding, insurance
Provisional & Allowance	10%		ea.			\$1,626	Provisional Labour and Materials in addition to base construction cost
Total Construction Costs						\$18,000	
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	
Sub-Total Base Costs						\$18,300	
Consultant Engineering							
Study/Design/Contract Administration	15%					\$2,700	
Consultant Engineering Sub-total						\$2,700	
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							
Non Refundable HST	1.76%					\$400	
Non Refundable HST Sub-total						\$400	
Total (2021 Dollars)						\$25,000	
Chosen Estimate						\$25,000	2021 Estimate

Project No.: SW-LI-006
Project Name: Erin Mills Parkway and QEW Ramp West
Project Description: 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 DIAMETER:	375 mm			
TOTAL LENGTH:	170 m			
	Tunnelled	0 m	0%	
	Open Cut	170 m	100%	

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

COST ESTIMATION SPREADSHEET

COMPONENT	RATE (%)	RATE (\$)	UNIT	ESTIMATED QUANTITY	COST PER UNIT	SUB-TOTAL	COMMENTS
Construction Cost							
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 Costs						\$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)						\$272,000	
Chosen Estimate						\$272,000	2021 Estimate