

**TOWNSHIP OF GEORGIAN BLUFFS
D-0007 EA STUDY
DESIGN ALTERNATIVE 1
PRECAST CONCRETE BOX CULVERT**



**PEARSON
ENGINEERING**

**Project No. 24140
January 16, 2025**

ENGINEER'S CONSTRUCTION COST ESTIMATE

ITEM NO.	DESCRIPTION	UNIT	EST. QUANT.	UNIT PRICE	TOTAL
1	Site Mobilization, Demobilization and Misc. Project Costs	L.S.	1	\$75,000.00	\$75,000.00
2	Traffic Control and Signage (Full Road Closure)	L.S.	1	\$10,000.00	\$10,000.00
3	Environmental Protection	L.S.	1	\$20,000.00	\$20,000.00
4	Clearing, Grubbing & Tree Removal	L.S.	1	\$5,000.00	\$5,000.00
5	Fish Rescue	L.S.	1	\$5,000.00	\$5,000.00
6	Excavation	L.S.	1	\$35,000.00	\$35,000.00
7	Removal and Disposal of Culvert	L.S.	1	\$30,000.00	\$30,000.00
8	Water Diversion and Worksite Isolation	L.S.	1	\$150,000.00	\$150,000.00
9	Dewatering	L.S.	1	\$35,000.00	\$35,000.00
10	Design, Fabrication and Delivery of Culvert	L.S.	1	\$325,000.00	\$325,000.00
11	Assembly Installation of Culvert	L.S.	1	\$25,000.00	\$25,000.00
12	200mm Thick Distribution Slab	m ³	13.2	\$1,000.00	\$13,200.00
13	Segmental Block Retaining Wall	m ²	50.0	\$750.00	\$37,500.00
14	Concrete in Headwalls	m ³	2.0	\$2,000.00	\$4,000.00
15	Supply and Install Waterproofing	m ²	80.0	\$125.00	\$10,000.00
16	Granular B	Tonne	975.0	\$30.00	\$29,300.00
17	Granular A	Tonne	60.0	\$35.00	\$2,100.00
18	Supply and Installation of Steel Beam Guiderail	m	60.0	\$375.00	\$22,500.00
19	Supply and Installation of Guiderail End Treatment	Each	4.0	\$9,500.00	\$38,000.00
20	100mm Topsoil and Hydroseed	m ²	1,000.0	\$20.00	\$20,000.00
21	Erosion Control Blankets	m ²	1,000.0	\$20.00	\$20,000.00
22	River Stone Inside Culvert	m ²	60.0	\$120.00	\$7,200.00
23	Steel Reinforcing	Tonne	2.0	\$4,500.00	\$9,000.00
24	Contingency Allowance	L.S.	1	\$90,000.00	\$90,000.00
25	Material Test Allowance	L.S.	1	\$15,000.00	\$15,000.00
Construction Cost Estimate (Excluding HST)					\$1,032,800.00

**TOWNSHIP OF GEORGIAN BLUFFS
D-0007 EA STUDY
DESIGN ALTERNATIVE 2
TWIN CSP ARCH CULVERT**



**PEARSON
ENGINEERING**

**Project No. 24140
January 16, 2025**

ENGINEER'S CONSTRUCTION COST ESTIMATE

ITEM NO.	DESCRIPTION	UNIT	EST. QUANT.	UNIT PRICE	TOTAL
1	Site Mobilization, Demobilization and Misc. Project Costs	L.S.	1	\$65,000.00	\$65,000.00
2	Traffic Control and Signage (Full Road Closure)	L.S.	1	\$10,000.00	\$10,000.00
3	Environmental Protection	L.S.	1	\$20,000.00	\$20,000.00
4	Clearing, Grubbing and Tree Removal	L.S.	1	\$5,000.00	\$5,000.00
5	Fish Rescue	L.S.	1	\$5,000.00	\$5,000.00
6	Excavation	L.S.	1	\$35,000.00	\$35,000.00
7	Removal and Disposal of Culvert	L.S.	1	\$30,000.00	\$30,000.00
8	Water Diversion and Worksite Isolation	L.S.	1	\$150,000.00	\$150,000.00
9	Dewatering	L.S.	1	\$35,000.00	\$35,000.00
10	Supply, Fabrication and Delivery of SPCSP Culverts	L.S.	1	\$200,000.00	\$200,000.00
11	Assembly and Installation of SPCSP Culverts	L.S.	1	\$50,000.00	\$50,000.00
12	Concrete in Headwalls Cutoff Walls	m ³	10.2	\$1,800.00	\$19,000.00
13	Segmental Block Retaining Wall	m ²	50.0	\$750.00	\$37,500.00
14	Granular B	Tonne	1,100.0	\$30.00	\$33,000.00
15	Granular A	Tonne	80.0	\$35.00	\$2,800.00
16	Supply and Installation of Steel Beam Guiderail	m	60.0	\$375.00	\$22,500.00
17	Supply and Installation of Guiderail End Treatment	Each	4.0	\$9,500.00	\$38,000.00
18	100mm Topsoil and Hydroseed	m ²	1,000.0	\$20.00	\$20,000.00
19	Erosion Control Blankets	m ²	1,000.0	\$20.00	\$20,000.00
20	River Stone Inside Culvert	m ²	80.0	\$120.00	\$9,600.00
21	Contingency Allowance	L.S.	1	\$80,000.00	\$80,000.00
22	Material Testing Allowance	L.S.	1	\$10,000.00	\$10,000.00
Construction Cost Estimate (Excluding HST)					\$897,400.00

**TOWNSHIP OF GEORGIAN BLUFFS
D-0007 EA STUDY
DESIGN ALTERNATIVE 3
PERMANENT CULVERT REMOVAL**



**PEARSON
ENGINEERING**

**Project No. 24140
January 16, 2025**

ENGINEER'S CONSTRUCTION COST ESTIMATE

ITEM NO.	DESCRIPTION	UNIT	EST. QUANT.	UNIT PRICE	TOTAL
1	Site Mobilization, Demobilization and Misc. Project Costs	L.S.	1	\$25,000.00	\$25,000.00
2	Traffic Control and Signage (Full Road Closure)	L.S.	1	\$10,000.00	\$10,000.00
3	Environmental Protection	L.S.	1	\$20,000.00	\$20,000.00
4	Clearing, Grubbing and Tree Removal	L.S.	1	\$5,000.00	\$5,000.00
5	Excavation	L.S.	1	\$35,000.00	\$35,000.00
6	Removal and Disposal of Culvert	L.S.	1	\$30,000.00	\$30,000.00
7	Temporary Shoring and Debris Collection	L.S.	1	\$50,000.00	\$50,000.00
8	Granular B	Tonne	200	\$30.00	\$6,000.00
9	Granular A	Tonne	70	\$35.00	\$2,500.00
10	Rip-Rap on Geotextile	m ²	65	\$120.00	\$7,800.00
12	Supply and Installation of Turnaround Barrier and Signage	L.S.	1	\$20,000.00	\$20,000.00
13	100mm Topsoil and Hydroseed	m ²	750	\$20.00	\$15,000.00
11	Erosion Control Blanket	m ²	750	\$20.00	\$15,000.00
16	Contingency Allowance	L.S.	1	\$25,000.00	\$25,000.00
17	Material Testing Allowance	L.S.	1	\$5,000.00	\$5,000.00
Construction Cost Estimate (Excluding HST)					\$271,300.00