

# **APPENDIX D**

## **Preliminary Unit Costs for Caisson Retaining Wall**

**DRIC - Below Grade Section**  
**Retaining Walls with 1050 mm Dia Caissons**  
**Hwy 401 at about 7 m below ground level**

No.	Item	Quantity	Unit	Unit Price	Cost
1	Supply Equipment for Installing Caissons	1.0	L.S.	\$1,600	\$1,600
2	Caisson Piles ( 1050 dia )	24.0	m	\$600	\$14,400
3	Capping Beam	3.5	m <sup>3</sup>	\$533	\$1,867
4	In Fill Pannel	3.3	m <sup>3</sup>	\$533	\$1,778
5	Reinforcement Steel	1.0	t	\$1,667	\$1,667
6	Abutment Backfill		m <sup>3</sup>	\$13	\$0
7	Roadway Protection	1.0	L.S.	\$667	\$667
8	Traffic Protection	1.0	L.S.	\$267	\$267
<b>Sub-Total (one side) =</b>					<b>\$22,244</b>
<b>Total (Both Sides) =</b>					<b>\$44,489</b>
<b>Average Unit Cost per meter =</b>					<b>\$45,000</b>

**DRIC - Below Grade Section**  
**Retaining Walls with 1050 mm Dia Caissons**  
**Hwy 401 at about 12 m below ground level**

No.	Item	Quantity	Unit	Unit Price	Cost
1	Supply Equipment for Installing Caissons	1.0	L.S.	\$1,600	\$1,600
2	Caisson Piles ( 1050 dia )	39.0	m	\$600	\$23,400
3	Capping Beam	3.5	m <sup>3</sup>	\$533	\$1,867
4	In Fill Pannel	5.0	m <sup>3</sup>	\$533	\$2,667
5	Reinforcement Steel	1.5	t	\$1,667	\$2,500
6	Abutment Backfill		m <sup>3</sup>	\$13	\$0
7	Roadway Protection	1.0	L.S.	\$667	\$667
8	Traffic Protection	1.0	L.S.	\$267	\$267
<b>Sub-Total (one side) =</b>					<b>\$32,967</b>
<b>Total (Both Sides) =</b>					<b>\$65,933</b>
<b>Average Unit Cost per meter =</b>					<b>\$65,000</b>