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O2

Cost Estimate - Class 4

Summary of Probable Costs

Project:	**Bow River 10th Street Gravel Bar**	O2 Project No.:	**230504**
Phase:	**Preliminary Design**	Date :	**2025-08-29**
Client:	**City of Calgary**		

File Path: N:\Projects\230504 Bow River 10th St. Gravel Bar Restoration Planning and Design\07- Working Products and Drafts\Cost Estimate\[O2.Class4CostEstimate.2025.08.13.xlsx]SUMMARY

ITEM	CLASS 4 OPC SUMMARY		AMOUNT	%
	GENERAL CONDITIONS	$	450,000.00	4%
I	DEMOLITION & SITE PROTECTION	$	253,043.10	2%
II	EARTHWORKS	$	2,579,361.10	22%
III	HARDSCAPE	$	2,383,716.31	20%
IV	SITE FURNISHING, SIGNAGE & SITE FEATURES	$	167,551.79	1%
V	SOFTSCAPE	$	109,016.84	1%
VI	LIGHTING	$	45,000.00	0%
VII	RIVER WAVE STRUCTURE	$	6,000,000.00	50%

	TOTAL (ALL ITEMS)	**$**	**11,987,689.14**	**100%**

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	General Conditions					
Item	**Description**	**Drawing Reference Note**	**Quantity**	**Unit**	**Base Unit Price**	**Amount**
1.0	***Miscellaneous***					
1.1	Mobilization / Demobilization		1.0	LS	$ 450,000.00	$ 450,000.00

SUB-TOTAL: (GENERAL CONDITIONS) ***$ 450,000.00***

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I	DEMOLITION AND SITE PROTECTION					
Item	**Description**	**Drawing Reference Note**	**Quantity**	**Unit**	**Unit Rate**	**Amount**
1.0	***Demolition***					
1.1	Existing trees to be removed - based off of survey and Calgary urban forestry management		90.0	ea.	$ 600.00	$ 54,000.00
1.2	Clear and grub existing understory vegetation including selective pruning		31,808.6	sq. m.	$ 5.00	$ 159,043.10
1.3	Removal and disposal of existing on-site sculpture		1.0	l.s	$ 10,000.00	$ 10,000.00
1.4	Removal and disposal of debris along the South Slope		1.0	l.s	$ 30,000.00	$ 30,000.00

SUB-TOTAL (I: SELECTIVE DEMOLITION & RELOCATION) ***$ 253,043.10***

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II	EARTHWORKS					
Item	**Description**	**Drawing Reference Note**	**Quantity**	**Unit**	**Base Unit Price**	**Amount**
1.0	***Rough Grading- Matrix cost Average cost estimate for each sub-phase***					
1.1	***Gravel Bar Removal***					
1.1.2	Remove material and transport		1.0	lump sum	$ 112,834.90	$ 112,834.90
1.2	***Dividing Wall***					
1.2.1	Placing Fill		1.0	lump sum	$ 115,187.11	$ 115,187.11
1.2.2	Placing Riprap armouring		1.0	lump sum	$ 1,040,564.59	$ 1,040,564.59
1.3	***South Slope Construction***					
1.3.1	Placing fill		1.0	lump sum	$ 57,546.92	$ 57,546.92
1.3.2	Placing Riprap armouring		1.0	lump sum	$ 667,873.05	$ 667,873.05
1.4	***Landing Construction***					
1.4.1	Remove material and transport		1.0	lump sum	$ 39,484.12	$ 39,484.12
1.5	***North Channel Works***					
1.5.1	Removing material and transport		1.0	lump sum	$ 51,477.33	$ 51,477.33
1.5.2	Placing fill		1.0	lump sum	$ 38,586.38	$ 38,586.38
1.5.3	Placing Riprap armouring		1.0	lump sum	$ 115,454.65	$ 115,454.65
1.6	***Slopes South of Wave Construction (Wave Deck)***					
1.6.1	Removing material and transport		1.0	lump sum	$ 10,518.30	$ 10,518.30
1.6.2	Placing Riprap armouring		1.0	lump sum	$ 262,872.78	$ 262,872.78
2.0	***Shrub & Perennial Growing Media and Mulch***					
2.1	Shrub and Perennial Planting (Approx. # shrubs. Refer to Softscape for quantity)					
2.1.1	450 mm depth Topsoil		144.0	cu.m.	$ 62.00	$ 8,928.00
2.1.2	75mm depth Bark Mulch		24.0	cu.m.	$ 6.00	$ 144.00
2.2	***Tree Planting***					
2.2.1	10 m3 of growing medium per tree		800.0	cu.m.	$ 62.00	$ 49,600.00
2.2.2	.35 m3 of bark mulch per tree		28.0	cu.m.	$ 6.00	$ 168.00
2.3	***Seed Planting Areas***					
2.3.1	125mm depth topsoil		324.8	cu.m.	$ 25.00	$ 8,120.98

SUB-TOTAL (II: Earthworks) ***$ 2,579,361.10***

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III	HARDSCAPES					
Item	**Description**	**Drawing Reference Note**	**Quantity**	**Unit**	**Base Unit Price**	**Amount**
1.0	***Paving***					
1.1	Aggregrate Paving (Trails) - *supply and install. Includes subbase*		3,041.1	sq.m	$ 85.00	$ 258,491.03
1.2	Stone Paving- (Wave Deck) - *supply and install. Includes subbase*		1,938.4	sq.m	$ 500.00	$ 969,175.44
2.0	***Armouring Steps***					
2.1	Armouring Stone-*supply and install. Includes subbase*		1,150.0	l.m.	$ 1,000.00	$ 1,150,030.00
2.2	Washed Rock (Wave Deck Gaps) 10-40 mm - supply and install. Includes subbase		430.0	sq.m	$ 14.00	$ 6,019.85
3.0	***Washed Rock***					
3.1	Washed Rock Gravel Beach - *supply and install. Includes subbase*		659.2	sq.m	$ -	$ -

SUB-TOTAL (III: HARDSCAPES) ***$ 2,383,716.31***

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IV	**SITE FURNISHING, SIGNAGE & SITE FEATURES**					
Item	**Description**	**Drawing Reference Note**	**Quantity**	**Unit**	**Base Unit Price**	**Amount**
1.0	***Site Furnishings***					
1.1	Benches - *Supply and install*		8.0	ea.	$ 8,500.00	$ 68,000.00
1.2	Bike Racks - *Supply and install*		4.0	ea.	$ 1,200.00	$ 4,800.00
1.3	Waste Receptacles - *Supply and install*		4.0	ea.	$ 3,000.00	$ 12,000.00
2.0	***Signage***					
2.1	Signage - *Supply and install*		1.0	LS	$ -	$ 75,000.00

SUB-TOTAL (V: SITE FURNISHING, FENCES, SIGNAGE & STRUCTURES)	***$ 167,551.79***

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VI SOFTSCAPE

Item	Description	Drawing Reference Note	Quantity	Unit	Base Unit Price	Amount
1.0	***Trees***					
1.1	**Deciduous Tree** *Includes supply and installation of trees*		80.0	ea.	$ 650.00	$ 52,000.00
2.0	***Shrubs and Perennials***					
2.1	**#2 Container Shrubs** *Includes supply and installation of shrubs. Estimated number of shrubs for 4 shrubs per number of trees.*		320.0	ea.	$ 32.00	$ 10,240.00
3.0	***Seed Mixes***					
3.1	**Planting Mix** - Supply and install as per schedule *Planting Mix is applied to Gravel Bar.*		2,598.7	sq. m.	$ 18.00	$ 46,776.84

SUB-TOTAL (VI: SOFTSCAPE) ***$ 109,016.84***

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VII	LIGHTING					
Item	**Description**	**Drawing Reference Note**	**Quantity**	**Unit**	**Base Unit Price**	**Amount**
1.0	***Lighting***					
1.1	Lighting - *supply and install*		1.0	LS	$ 90,000.00	$ -
1.2	Event power		1.0	LS	$ 28,000.00	$ 28,000.00
1.3	Security cameras		1.0	LS	$ 17,000.00	$ 17,000.00

SUB-TOTAL (VII: LIGHTING) ***$ 45,000.00***