



City of Cambridge Community Preservation Act FY 2022 Project Funding Application

SUBMISSION INSTRUCTIONS

Completed forms and attachments may be emailed to jmathews@cambridgema.gov. **Deadline for submission is Wednesday, July 14, 2021.**

CPA CATEGORIES & ALLOWABLE USES

CPA funds can only be used for certain purposes:

- ❖ Affordable Housing (also called Community Housing)
- ❖ Historic Resources
- ❖ Open Space
- ❖ Recreational Land

For a description of the CPA categories and the allowable uses of CPA funds in each project category, please review the state [Department of Revenue Allowable Uses Chart](#). Also note the following regarding potential **affordable housing and **historic projects**:**

- Cambridge Affordable Housing Trust (CAHT): Absent extraordinary circumstances, CPA funding for affordable housing flows through the CAHT. For more information, including on applying for funding, visit: <https://www.cambridgema.gov/CDD/housing/housingtrust>.
- Cambridge Historical Commission Preservation Grant Program: CPA funding for historic projects on private property is available through the Preservation Grant Program. If you are applying for historic funding for a private property, please explain why Preservation Grant funding is insufficient or unavailable. For more information, visit: <https://www.cambridgema.gov/historic/permitsApplications/preservationgrants>.

APPLICANT INFORMATION

Name(s): _____

Applicant Organization, if applicable: _____

Phone: _____

Email: _____

Address: _____

PROJECT INFORMATION

- ❖ Applicants are encouraged to attach any maps, photographs, designs, renderings, budget documents, or other images or plans related to the project when submitting their application form.
- ❖ Letters of support from community members or organizations may also be attached.
- ❖ Actual quotes for project costs are strongly encouraged. Estimates may be used, so long as the basis for the estimate is explained in detail.

Project Title: _____

Project Address: _____

CPA Category:

- ☐ Affordable Housing
- ☐ Historic Resources
- ☐ Open Space
- ☐ Recreation

Previous CPA Funding Received, if applicable: _____

CPA Funding Amount Requested: _____

Project Description:

Please submit a separate word document or pdf with the following project details:

- ☐ Goals/Purpose
- ☐ Property Ownership/Site Control

If you are not the property owner, please submit site control documentation, a memorandum of agreement (MOA), or a letter of support from the relevant public agency (e.g., the Massachusetts Department of Conservation and Recreation) as an attachment. Projects for City of Cambridge-owned property must be submitted by a City Department.

- ☐ Community Support
 - ☐ Total Project Budget
 - ☐ Other Funding Description (amount, source of funds, etc.)
 - ☐ Project Timeline
-

7.14.2021

Cambridge CPA Open Space Request from Magazine Beach Partners

Previous CPA funding:

FY2012 \$25k Historic Structure Report for Powder Magazine

FY2014 \$100k Stabilization of Powder Magazine

FY2015 \$56.6k Complete Landscape Plan

FY2017 \$116.6k Interpretative Signage & Magazine Interior Rehab

FY2018 \$25k Canoe/Kayak Launch

FY2019 \$155,450 Shoreline Edge Work

FY2020 \$47.7k Shovel ready plans for Phase II-2

FY2021 \$150,000 Turn a Parking Lot into a Grassy Beach

Each time the State/Mass. Department of Conservation & Recreation (DCR) has matched these dollars, often 2:1. The community has also contributed over \$122,000 to these improvements.

(In addition, DCR has removed the broken wading pool and broken play structure, fixed the leaking bathhouse roof, and repaired many broken picnic tables and benches. This fall and next, they will renovate the bathhouse, adding bathrooms accessible from the outside, and redo the leaking pool.)

○ Goals/Purpose

We request \$150,000 of CPA Open Space funds, that will be partially matched by \$80k of community dollars (in hand), to remove the last big eyesore—a sunken parking lot between the swimming pool and the river—to turn it into a useable grassy beach. At 17 acres along the Charles, Magazine Beach is the City's second largest park and an oasis in a highly urbanized and densely populated environment. It is a favorite spot for swimming, splashing, kayaking, playing soccer and baseball, and relaxing while connecting with nature and neighbors.

It's essential that we stay committed to improving this invaluable urban commons. Working together—the City, DCR and the community—we've accomplished so much already. We have a proven track record. Let's finish the job!

Last year Cambridge committed \$150k of CPA funds to this, too. Thank you! And we also have a recent \$50k State earmark for this, courtesy of Rep. Jay Livingstone. The

overall project cost, however, is estimated at \$1.75m. DCR, an underfunded agency, can't make these improvements without Cambridge support.

Thanks to past CPA funds, DCR now has shovel-ready plans for this project and permits for it. The timing of this project is sensitive: DCR will be redoing the park pool the fall of 2022, so already disrupting the site. While it is a mess, it makes sense for DCR to regrade, add fill, and replant vegetation at the site as well—the improvements we are proposing.

- PropertyOwnership/SiteControl

If you are not the property owner, please submit site control documentation, a memorandum of agreement (MOA), or a letter of support from the relevant public agency (e.g., the Massachusetts Department of Conservation and Recreation) as an attachment. Projects for City of Cambridge-owned property must be submitted by a City Department.

While Cambridge created Magazine Beach in the 1890s, it has been managed by the State (at first MDC, and now DCR) since the 1920s. We await a letter of support from DCR.

- CommunitySupport

Cambridgeport neighbors, via the Friends of Magazine Beach, inspired the first renovations to the park (Phase 1) from 1999-2009, when Cambridge paid \$1.5m for improvements to the eastern part of the park: improving the playing fields and parking, and adding two bioswales, an exercise area and picnic tables.

Since 2010, the Cambridgeport Neighborhood Association, and since 2017, Magazine Beach Partners, have advocated for the park. Not only do we raise funds for park improvements, but we also organize cleanups and summer programs (since 2012, drawing thousands), and serve as friendly park watch dogs, notifying DCR and the City (who maintain the western part of the park) when trash cans are full, the pedestrian bridge is tagged, and trees and big branches fall. We maintain a website: magazinebeach.org, with almost 170k views to date, and have purchased Adirondack chairs for the park, rented port-o-potties, and encouraged the City to plant trees at the park. The City planted ten there this spring—thank you, Cambridge!

Note: We are called Magazine Beach Partners because, over the years, we have partnered with so many groups, including: Cambridge Arts, Cambridge Department of Human Services, the Cambridge Public Library, the Charles River Conservancy, Riverside Boat Club, Meadowsclaping for Biodiversity, Troop 56, the Charles River Watershed Association and Mass Audubon.

Magazine Beach Partners are all volunteers. Over the years we have received awards for our work from the Charles River Conservancy, Charles River Watershed Association, and, most recently, from the Cambridge Historical Commission.

- Total Project Budget

Phase II-2 is estimated to cost \$1.75m. This will include: site protection, preparation & demolition, earthwork, pavement, plantings, soils, picnic table, bench, observation deck, dock, irrigation, miscellaneous & construction contingency.

See estimate attached.

- Other Funding Description (amount, source of funds, etc.)

So far, we have on hand:

\$150k FY2021 CPA open space funds

\$50k State earmark

\$80k Community contributions

\$280k

Note: City investment at Magazine Beach is contingent upon DCR matching each dollar.

- Project Timeline

DCR intends to redo the leaking pool during the fall of 2022, so this work would be done concurrently.

—C. Zusy



September 9, 2020

Senator Boncore
State House, Room 112

Representative Livingstone
State House, Room 472

City Manager DePasquale
Cambridge City Hall, First Floor

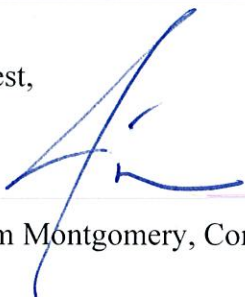
DCR is proud of the partnership with the City of Cambridge and Magazine Beach Partners (MBP) that has resulted in more than \$6 million invested in improvements over the last decade – with the majority of that coming in the last five years. The efforts of the community led by Cathie and the MBP team have been integral in improvements including a new splash pad for recreation outside of our normally guarded times, the restoration (and future programming) of the Powder Magazine and stretching back nearly a decade to the improvements and maintenance of the athletic fields.

In addition to this investment, over the next three years, DCR has budgeted approximately \$1.1 Million for design and construction toward remodeling and updating the Magazine Beach Pool building.

We look forward to continuing these improvements as the resources allow as we continue to balance our investment across the state and our more than 470,000 acres that include everything from historic buildings and landscapes, to beaches, mountains, urban parks and more. The plan for Magazine Beach improvements has been phased to allow DCR and the City of Cambridge to balance funding priorities across their many responsibilities and as such the timing of improvements was never intended to be in consecutive fiscal years until completion.

We are engaged in similar conversations across the Commonwealth in urban and environmental justice communities and appreciate the understanding of MBP in supporting our efforts to balance DCR resources between and amongst such communities this year and in the years ahead. We look forward to partnering with MBP on future projects and value their support in our EJ efforts across the commonwealth.

Best,


Jim Montgomery, Commissioner

CC: Cathie Zusy, Magazine Beach Partners

COMMONWEALTH OF MASSACHUSETTS · EXECUTIVE OFFICE OF ENERGY & ENVIRONMENTAL AFFAIRS

Department of Conservation and Recreation
251 Causeway Street, Suite 600
Boston, MA 02114-2199
617-626-1250 617-626-1351 Fax
www.mass.gov/orgs/departments-of-conservation-recreation



Charles D. Baker
Governor

Karyn E. Polito
Lt. Governor

Kathleen A. Theoharides, Secretary
Executive Office of Energy & Environmental Affairs

Jim Montgomery, Commissioner
Department of Conservation & Recreation

MAGAZINE BEACH II, PHASED COST ESTIMATE

Cambridge, MA

2017.10.11

Crosby | Schlessinger | Smallridge

2017-2018: Eastern End and Kayak Launch Area		TOTAL WITH CONTINGENCY	\$	1,218,000
General Conditions			\$	235,214
Demolition and Site Preparation			\$	79,606
Site Improvement			\$	552,168
		Sub Total	\$	866,988
2018-2019: Powder Magazine & Vegetation Management		TOTAL WITH CONTINGENCY	\$	1,903,000
General Conditions			\$	184,752
Demolition and Site Preparation			\$	201,881
Site Improvement			\$	992,173
		Sub Total	\$	1,378,806
2019-2020: Pool Building Area and Spray Deck Improvements		TOTAL WITH CONTINGENCY	\$	1,755,000
General Conditions			\$	356,084
Demolition and Site Preparation			\$	110,799
Site Improvement			\$	802,323
		Sub Total	\$	1,269,205
2020-2021: Beach, Deck and Dock		TOTAL WITH CONTINGENCY	\$	1,748,000
General Conditions			\$	253,200
Demolition and Site Preparation			\$	83,518
Site Improvement			\$	904,481
		Sub Total	\$	1,241,199
2020: Memorial Drive Path		TOTAL WITH CONTINGENCY	\$	2,177,000
General Conditions			\$	377,434
Demolition and Site Preparation			\$	214,912
Site Improvement			\$	984,545
		Sub Total	\$	1,576,891
2021-2022: Captains Island		TOTAL WITH CONTINGENCY	\$	1,946,000
General Conditions			\$	228,728
Demolition and Site Preparation			\$	311,081
Site Improvement			\$	869,989
		Sub Total	\$	1,409,798
2022-2023: PLEASANT ST & RIVER SIDE BOAT CLUB		TOTAL WITH CONTINGENCY	\$	1,610,000
General Conditions			\$	287,600
Demolition and Site Preparation			\$	208,400
Site Improvement			\$	670,200
		Sub Total	\$	1,166,200
Overall Sub Total			\$	8,909,087
Overall Total			\$	12,357,000

Cambridge, MA

2017.10.11

Crosby | Schlessinger | Smallridge

PHASE A - 2022-2023: RIVER SIDE BOAT CLUB

Payment Item	Description	Quantity	Units	Unit Price	cost	Sub-Total
01000	GENERAL CONDITION, POLICE DETAIL					
01000-1	General Condition, Special Condition	1	LS	\$ 50,000.00	\$ 50,000.00	
01000-2	Police services	1	LS	\$ 50,000.00	\$ 50,000.00	
xx-xx	Mobilization	1	LS	\$ 50,000.00	\$ 50,000.00	
						\$ 150,000.00
01500	CONSTRUCTION FACILITIES					
01500-1	Construction Facilities	1	LS	\$ 50,000.00	\$ 50,000.00	
01500-2	Construction Fence (6' Chain link Fence)	1586	LF	\$ 14.00	\$ 22,204.00	
						\$ 72,204.00
x.xxx	FIELD OFFICE					
xx.xx	Field Office and Supplies	12	Month	\$ 3,360.00	\$ 40,320.00	
						\$ 40,320.00
x.xxx	TEMPORARY TRAFFIC CONTROL					
xx.xx	Temporary Traffic Control	1	LS	\$ 25,000.00	\$ 25,000.00	
						\$ 25,000.00
02100	SITE PREPARATION & DEMOLITION					
02100-1	Utility Preparation and Demolition	1	LS	\$ 12,000.00	\$ 12,000.00	
02100-2	Remove and Stockpile Granite Curb	707	LF	\$ 30.00	\$ 21,210.00	
02100-4	Clearing and Grubbing	5159	SY	\$ 4.00	\$ 20,636.00	
xxx.xxx	Cut, Clear and Swipe + Clear and Grub	438	SY	\$ 3.00	\$ 1,315.00	
02100-8	Tree and Shurb Trimming	56	SY	\$ 3.20	\$ 179.20	
02100-9	Tree Removal - 6", Under 12" Caliper	3	EA	\$ 583.00	\$ 1,749.00	
xx.xx	Sawcut	815	LF	\$ 6.00	\$ 4,890.00	
xx.xx	Tree Protection Fence	2613	LF	\$ 7.00	\$ 18,291.00	
xx.xx	Tree Stump, Remove and Dispose	1	EA	\$ 430.00	\$ 430.00	
xx.xx	Timber Planter, remove and dispose	2	EA	\$ 200.00	\$ 400.00	
xx.xx	Bench to Protect	1	EA	\$ 80.00	\$ 80.00	
xx.xx	Bench, remove and Stockpile	1	EA	\$ 150.00	\$ 150.00	
xx.xx	Gravel Path. Remove and Dispose	325	SY	\$ 10.00	\$ 3,247.78	
xx.xx	Bit. Conc Paving, Remove and Dispose	1977	SY	\$ 30.00	\$ 59,323.33	
xx.xx	Brick Paving, Remove and Stockpile	18	SY	\$ 20.00	\$ 355.56	
						\$ 144,256.87
02370	Site Protection during Construction					
02370-1	Stormwater Pollution Prevention Plan	1	LS	\$ 5,000.00	\$ 5,000.00	
02370-2	Silt Barrier	2476	LF	\$ 9.00	\$ 22,284.00	
02370-3	Slope Protection	3945	SF	\$ 8.00	\$ 31,560.00	
02370-4	Sediment Control Bags	5	EA	\$ 50.00	\$ 250.00	
02370-5	Silt and Turbidity Barrier	333	LF	\$ 15.00	\$ 4,995.00	
						\$ 64,089.00
02200	EARTH WORK					
02200-1	Earthwork, Site	5587	SY	\$ 4.00	\$ 22,346	
02200-2	Earthwork, Structures	1	LS	\$ 30,000.00	\$ 30,000.00	
xx.xx	High Use Lawn with Fiber Reinforcing	86	SY	\$ 5.00	\$ 430.00	
						\$ 52,776.22
02730	SITE IMPROVEMENTS					
	Curb	707	LF	\$ 50.00	\$ 35,350.00	
	Flush Curb	206	LF	\$ 40.00	\$ 8,240.00	
	Curb Ramp	8	EA	\$ 1,250.00	\$ 10,000.00	
	Granite Threshold	37	SF	\$ 80.00	\$ 2,960.00	
						\$ 56,550.00
02730	PAVEMENT					
	Bit. Concrete paving	2004	SY	\$ 42.40	\$ 84,950.76	
	Bit. Concrete with Aggregates	255	SY	\$ 50.00	\$ 12,755.56	
	Concrete Paving	88	SY	\$ 55.00	\$ 4,827.78	
	Crushed Stone	393	SY	\$ 35.00	\$ 13,762.78	
	Permeable Pavers	238	SY	\$ 150.00	\$ 35,633.33	
	Bound Stonedust Paving	109	SY	\$ 50.00	\$ 5,433.33	
	Concrete Decking	2055	SF	\$ 80.00	\$ 164,400.00	
						\$ 321,763.53
x.xxx	PLANTING					
	Lawn / Grass Beach	3028	SY	\$ 3.00	\$ 9,085.33	
	Shrubs	438	EA	\$ 85.00	\$ 37,258.33	
	Ornamental Grass 2' Spread	1648	EA	\$ 32.00	\$ 52,736.00	
	Naturalized Shore Edge Planting	438	SY	\$ 70.00	\$ 30,683.33	
	Tree	12	EA	\$ 850.00	\$ 10,200.00	
						\$ 139,963.00
x.xxx	PLANTING SOILS					
	Planting Soil Amended in-situ (12" DEPTH)	1010	CY	\$ 20.00	\$ 20,200.00	
	Planting Soil (4.5 CY/TREE, 0.5 CY/SHRUB)	300	CY	\$ 40.00	\$ 12,000.00	
						\$ 32,200.00
02800	SITE FURNISHING					
02800-1	Bike Rack	20	EA	\$ 1,500.00	\$ 30,000.00	
	Kiosk	1	EA	\$ 10,000.00	\$ 10,000.00	\$ 30,000.00
	Bench	2	EA	\$ 2,000.00	\$ 4,000.00	
	DCR Pillar	1	EA	\$ 3,360.00	\$ 3,360.00	
	Drinking Fountain w/ Mister	1	EA	\$ 5,000.00	\$ 5,000.00	
	Raise manhole	1	LS	\$ 3,500.00	\$ 3,500.00	
	Catchbasin	1	EA	\$ 4,500.00	\$ 4,500.00	
	Drain Line	100	LF	\$ 65.00	\$ 6,500.00	
						\$ 66,860.00
TOTAL						\$ 1,165,982.62
W/ Small Site Escalation (20%)						\$ 1,399,179.15
W/ Construction Contingency (15%)						\$ 1,609,056.02
TOTAL WITH CONTINGENCY						\$ 1,609,056.02

PHASE B- 2020-2021: Beach, Deck and Dock

Payment Item	Description	Quantity	Units	Unit Price	cost	Sub-Total
01000	GENERAL CONDITION, POLICE DETAIL					
01000-1	General Condition, Special Condition	1	LS	\$ 50,000.00	\$ 50,000.00	
01000-2	Police survices	1	LS	\$ 50,000.00	\$ 50,000.00	
xx-xx	Mobilization	1	LS	\$ 50,000.00	\$ 50,000.00	
						\$ 150,000.00
01500	CONSTRUCTION FACILITIES					
01500-1	Construction Facilities	1	LS	\$ 50,000.00	\$ 50,000.00	
01500-2	Construction Fence (6' Chain link Fence)	920	LF	\$ 14.00	\$ 12,880.00	
						\$ 62,880.00
x.xxx	FIELD OFFICE					
xx.xx	Field Office and Supplies	12	Month	\$ 3,360.00	\$ 40,320.00	
						\$ 40,320.00
x.xxx	TEMPORARY TRAFFIC CONTROL					
xx.xx	Temporary Traffic Control	1	LS	\$ 25,000.00	\$ 25,000.00	
						\$ 25,000.00
02100	SITE PREPARATION & DEMOLITION					
02100-1	Utility Preparation and Demolition	1	LS	\$ -	\$ -	
02100-4	Clearing and Grubbing	4328	SY	\$ 3.00	\$ 12,984.67	
xxx.xxx	Cut, Clear and Swipe + Clear and Grub	760	SY	\$ 3.00	\$ 2,281.00	
02100-8	Tree and Shurb Trimming	2000	SY	\$ 3.20	\$ 6,401.07	
xx.xx	Sawcut	20	LF	\$ 6.00	\$ 120.00	
xx.xx	Tree Protection Fence	986	LF	\$ 7.00	\$ 6,902.00	
xx.xx	Picnic Table, Remove and Dispose	3	EA	\$ 200.00	\$ 600.00	
						\$ 29,288.73
02370	Site Protection during Construction					
02370-1	Stormwater Pollution Prevention Plan	1	LS	\$ 5,000.00	\$ 5,000.00	
02370-2	Silt Barrier (2 Rows)	1956	LF	\$ 9.00	\$ 17,604.00	
02370-3	Slope Protection	2500	SF	\$ 8.00	\$ 20,000.00	
02370-4	Sediment Control Bags	3	EA	\$ 50.00	\$ 150.00	
02370-5	Silt and Turbidity Barrier	765	LF	\$ 15.00	\$ 11,475.00	
						\$ 54,229.00
02200	EARTH WORK					
02200-1	Earthwork, Site	6601	SY	\$ 4.00	\$ 26,402.22	
02200-2	Earthwork, Structures	1	LS	\$ 10,000.00	\$ 10,000.00	
02200-3	Rock Excavation	10	CY	\$ 125.00	\$ 1,250.00	
	High Use Lawn with Fiber Reinforcing	3280	SY	\$ 5.00	\$ 16,400.00	
						\$ 54,052.22
02730	PAVEMENT					
	Bound Stonedust Paving	132	SY	\$ 50.00	\$ 6,622.22	
						\$ 6,622.22
x.xxx	PLANTING					
	Lawn / Grass Beach	4237	SY	\$ 3.00	\$ 12,712.00	
	Naturalized Shore Edge Planting	275	SY	\$ 70.00	\$ 19,281.11	
	Emergent Grasses, Sedges and Rushes	615	SY	\$ 115.00	\$ 70,763.33	
	Specimen Tree	1	EA	\$ 7,500.00	\$ 7,500.00	
						\$ 110,256.44
x.xxx	PLANTING SOILS					
	Planting Soil Amended in-situ (12" DEPTH)	1420	CY	\$ 20.00	\$ 28,400.00	
	Planting Soil (4.5 CY/TREE, 0.5 CY/SHRUB)	500	CY	\$ 40.00	\$ 20,000.00	
						\$ 48,400.00
02800	SITE FURNISHING					
	Picnic Table	1	EA	\$ 4,400.00	\$ 4,400.00	
	Bench	1	EA	\$ 2,000.00	\$ 2,000.00	
	Observation Deck	400	SF	\$ 200.00	\$ 80,000.00	
	Dock	1330	SF	\$ 400.00	\$ 532,000.00	
	Irrigation	1	LS	\$ 20,000.00	\$ 20,000.00	
						\$ 638,400.00
x.xxx	MISCELLANEOUS					
02468-2	Mobilization / Demobilization	2	LS	\$ 5,000.00	\$ 10,000.00	
	Wood Decking Railing	105	LF	\$ 350.00	\$ 36,750.00	\$ 10,000.00

\$ 1,266,198.62
\$ 1,519,438.35
\$ 1,747,354.10
\$ 1,747,354.10

TOTAL
W/ Small Site Escalation (20%)
W/ Construction Contingency (15%)
TOTAL WITH CONTINGENCY

PHASE C 2019-2020: Pool Building Area and Spray Deck Improvements

Payment Item	Description	Quantity	Units	Unit Price	cost	Sub-Total
01000	GENERAL CONDITION, POLICE DETAIL					
01000-1	General Condition, Special Condition	1	LS	\$ 50,000.00	\$ 50,000.00	
01000-2	Police services	1	LS	\$ 50,000.00	\$ 50,000.00	
xx-xx	Mobilization	1	LS	\$ 50,000.00	\$ 50,000.00	
					\$	150,000.00
01500	CONSTRUCTION FACILITIES					
01500-1	Construction Facilities	1	LS	\$ 50,000.00	\$ 50,000.00	
01500-2	Construction Fence (6' Chain link Fence)	1126	LF	\$ 14.00	\$ 15,764.00	
					\$	65,764.00
x.xxx	FIELD OFFICE					
xx.xx	Field Office and Supplies	12	Month	\$ 3,360.00	\$ 40,320.00	
					\$	40,320.00
x.xxx	TEMPORARY TRAFFIC CONTROL					
xx.xx	Temporary Traffic Control	1	LS	\$ 100,000.00	\$ 100,000.00	
					\$	100,000.00
02100	SITE PREPARATION & DEMOLITION					
02100-1	Utility Preparation and Demolition	1	LS	\$ 2,500.00	\$ 2,500.00	
02100-2	Remove and Stockpile Granite Curb	288	LF	\$ 30.00	\$ 8,640.00	
02100-4	Clearing and Grubbing	3164	SY	\$ 4.00	\$ 12,657.33	
02100-8	Tree and Shurb Trimming	2038	SY	\$ 3.20	\$ 6,521.60	
xx.xx	Sawcut	272	LF	\$ 6.00	\$ 1,632.00	
xx.xx	Tree Protection Fence	1912	LF	\$ 7.00	\$ 13,384.00	
xx.xx	Picnic Table, Remove and Dispose	3	EA	\$ 200.00	\$ 600.00	
xx.xx	Bike Rack, Remove and Stockpile	6	EA	\$ 100.00	\$ 600.00	
xx.xx	Gravel Path. Remove and Dispose	167	SY	\$ 10.00	\$ 1,673.33	
xx.xx	Bit. Conc Paving, Remove and Dispose	896	SY	\$ 30.00	\$ 26,893.33	
xx.xx	Concrete Paving, Remove and Dispose	111	SY	\$ 30.00	\$ 3,323.33	
xx.xx	Existing Wall, Remove and Dispose	2	CY	\$ 600.00	\$ 1,200.00	
					\$	79,624.93
02370	Site Protection during Construction					
02370-1	Stormwater Pollution Prevention Plan	1	LS	\$ 2,500.00	\$ 2,500.00	
02370-2	Silt Barrier (2 Rows)	1786	LF	\$ 9.00	\$ 16,074.00	
02370-3	Slope Protection		SF	\$ 8.00	\$ -	
02370-4	Sediment Control Bags	2	EA	\$ 50.00	\$ 100.00	
02370-5	Silt and Turbidity Barrier	1000	LF	\$ 15.00	\$ 15,000.00	
					\$	33,674.00
02200	EARTH WORK					
02200-1	Earthwork, Site	3065	SY	\$ 4.00	\$ 12,259.11	
02200-2	Earthwork, Structures	1	LS	\$ 1,500.00	\$ 1,500.00	
02200-3	Rock Excavation		CY	\$ 125.00	\$ -	
	High Use Lawn with Fiber Reinforcing	850	SY	\$ 5.00	\$ 4,250.00	
	Passive Use Lawn with Fiber Reinforcing	0	SY	\$ 5.00	\$ -	
					\$	18,009.11
02730	SITE IMPROVEMENTS					
	Granite Threshold	92	SF	\$ 80.00	\$ 7,360.00	
	New Wall	440	LF	\$ 600.00	\$ 264,000.00	
					\$	271,360.00
02730	PAVEMENT					
	Bit. Concrete paving	378	SY	\$ 42.40	\$ 16,017.78	
	Bit. Concrete with Aggregates	363	SY	\$ 50.00	\$ 18,150.00	
	Concrete Paving	127	SY	\$ 55.00	\$ 6,960.56	
	Bound Stonedust Paving	189	SY	\$ 50.00	\$ 9,444.44	
	concrete Decking	461	SF	\$ 80.00	\$ 36,880.00	
	Gravel Drainage Strip	543	SF	\$ 15.00	\$ 8,145.00	
					\$	95,597.78
x.xxx	PLANTING					
	Lawn / Grass Beach	3269	SY	\$ 3.00	\$ 9,805.67	
	Ornamental Grass 2' Spread	2650	EA	\$ 32.00	\$ 84,800.00	
	Tree	21	EA	\$ 850.00	\$ 17,850.00	
					\$	112,455.67
x.xxx	PLANTING SOILS					
	Planting Soil Amended in-situ (12" DEPTH)	1090	CY	\$ 20.00	\$ 21,800.00	
	Planting Soil (4.5 CY/TREE, 0.5 CY/SHRUB)	1500	CY	\$ 40.00	\$ 60,000.00	
					\$	81,800.00
02800	SITE FURNISHING					
02800-1	Bike Rack	6	EA	\$ 1,500.00	\$ 9,000.00	
	Picnic Table	4	EA	\$ 4,400.00	\$ 17,600.00	
	Bench / concrete Planter	1	LS	\$ 160,000.00	\$ 160,000.00	
					\$	186,600.00
x.xxx	MISCELLANEOUS					
02468-2	Mobilization / Demobilization	1	LS		\$ -	
	Raise Manhole	1	LS	\$ 1,500.00	\$ 1,500.00	
	Irrigation System	1	LS	\$ 35,000.00	\$ 35,000.00	\$ 36,500.00

TOTAL	\$ 1,271,705.49
W/ Small Site Escalation (20%)	\$ 1,526,046.59
W/ Construction Contingency (15%)	\$ 1,754,953.57
TOTAL WITH CONTINGENCY	\$ 1,754,953.57

MAGAZINE BEACH II, PHASED COST ESTIMATE
Cambridge, MA

2017.10.11

Crosby | Schlessinger | Smallridge

PHASE D 2021-2022: Captains Island

Payment Item	Description	Quantity	Units	Unit Price	cost	Sub-Total
01000	GENERAL CONDITION, POLICE DETAIL					
01000-1	General Condition, Special Condition	1	LS	\$ 50,000.00	\$ 50,000.00	
01000-2	Police services (minimal roadway impact)	0.5	LS	\$ 50,000.00	\$ 25,000.00	
xx-xx	Mobilization	1	LS	\$ 50,000.00	\$ 50,000.00	
						\$ 125,000.00
01500	CONSTRUCTION FACILITIES					
01500-1	Construction Facilities (use Powder Magazine)	0.5	LS	\$ 50,000.00	\$ 25,000.00	
01500-2	Construction Fence (6' Chain link Fence)	1672	LF	\$ 14.00	\$ 23,408.00	
						\$ 48,408.00
x.xxx	FIELD OFFICE					
xx.xx	Field Office and Supplies	12	Month	\$ 3,360.00	\$ 40,320.00	
						\$ 40,320.00
x.xxx	TEMPORARY TRAFFIC CONTROL					
xx.xx	Temporary Traffic Control	1	LS	\$ 15,000.00	\$ 15,000.00	
						\$ 15,000.00
02100	SITE PREPARATION & DEMOLITION					
02100-1	Utility Preparation and Demolition	1	LS	\$ 10,000.00	\$ 10,000.00	
02100-4	Clearing and Grubbing	10035	SY	\$ 4.00	\$ 40,140.89	
02100-8	Tree and Shurb Trimming	6591	SY	\$ 3.20	\$ 21,091.20	
02100-9	Tree Removal - 6", Under 12" Caliper	2	EA	\$ 583.00	\$ 1,166.00	
xx.xx	Sawcut	130	LF	\$ 6.00	\$ 780.00	
xx.xx	Tree Protection Fence	2925	LF	\$ 7.00	\$ 20,475.00	
xx.xx	Picnic Table, Remove and Dispose	3	EA	\$ 200.00	\$ 600.00	
xx.xx	Bench, Remove and Dispose	7	EA	\$ 300.00	\$ 2,100.00	
xx.xx	Stonedust Parh, Remove + Dispose	300	SY	\$ 10.00	\$ 3,001.11	
xx.xx	Bit. Conc Paving, Remove and Dispose	730	SY	\$ 30.00	\$ 21,886.67	
xx.xx	Existing Irrigation Box, Relocate	1	LS	\$ 100,000.00	\$ 100,000.00	
xx.xx	Trash Receptacle, Remove and Stockpile	2	EA	\$ 300.00	\$ 600.00	
						\$ 121,240.87
02370	Site Protection during Construction					
02370-1	Stormwater Pollution Prevention Plan	1	LS	\$ 5,000.00	\$ 5,000.00	
02370-2	Silt Barrier (2 Rows)	2080	LF	\$ 9.00	\$ 18,720.00	
02370-3	Slope Protection	6240	SF	\$ 8.00	\$ 49,920.00	
02370-5	Silt and Turbidity Barrier	1040	LF	\$ 15.00	\$ 15,600.00	
						\$ 89,240.00
02200	EARTH WORK					
02200-1	Earthwork, Site	8359	SY	\$ 4.00	\$ 33,437.78	
02200-2	Earthwork, Structures	1	LS	\$ 10,000.00	\$ 10,000.00	
02200-3	Rock Excavation	100	CY	\$ 125.00	\$ 12,500.00	
	Passive Use Lawn with Fiber Reinforcing	2860	SY	\$ 5.00	\$ 14,300.00	
						\$ 70,237.78
02730	PAVEMENT					
	Bit. Concrete paving	731	SY	\$ 42.40	\$ 31,008.53	
	Bit. Concrete with Aggregates	80	SY	\$ 50.00	\$ 4,000.00	
	Bound Stonedust Paving	74	SY	\$ 50.00	\$ 3,694.44	
	Gravel Drainage Strip	81	SF	\$ 15.00	\$ 1,215.00	
	WoodChip Safety Surfacing	710	SY	\$ 12.00	\$ 8,525.33	
						\$ 48,443.31
x.xxx	PLANTING					
	Lawn / Grass Beach	9553	SY	\$ 3.00	\$ 28,660.00	
	Ornamental Grass 2' Spread	1164	EA	\$ 32.00	\$ 37,248.00	
	Tree	12	EA	\$ 850.00	\$ 10,200.00	
						\$ 76,108.00
x.xxx	PLANTING SOILS					
	Planting Soil Amended in-situ (12" DEPTH)	3200	CY	\$ 20.00	\$ 64,000.00	
	Planting Soil (4.5 CY/TREE, 0.5 CY/SHRUB)	700	CY	\$ 40.00	\$ 28,000.00	
						\$ 92,000.00
02800	SITE FURNISHING					
	Picnic Table	3	EA	\$ 4,400.00	\$ 13,200.00	
	Play-Net	1	LS	\$ 50,000.00	\$ 50,000.00	
	Log and Boulder Edging	1	LF	\$ 250,000.00	\$ 250,000.00	
	Basket Swing	1	EA	\$ 100,000.00	\$ 100,000.00	
	Swing Bench - Long	1	EA	\$ 30,000.00	\$ 30,000.00	
	Swing Bench - Short	2	EA	\$ 20,000.00	\$ 40,000.00	
						\$ 483,200.00
x.xxx	MISCELLANEOUS					
02468-2	Mobilization / Demobilization	1	LS	\$ 25,000.00	\$ 25,000.00	
	Irrigation System	1	LS	\$ 75,000.00	\$ 75,000.00	
						\$ 100,000.00
TOTAL						\$ 1,409,797.96
W/ Small Site Escalation (20%)						\$ 1,691,757.55
W/ Construction Contingency (15%)						\$ 1,945,521.18
TOTAL WITH CONTINGENCY						\$ 1,945,521.18

MAGAZINE BEACH II, PHASED COST ESTIMATE
Cambridge, MA

2017.10.11

Crosby | Schlessinger | Smallridge

PHASE E 2020: Memorial Drive Path

Payment Item	Description	Quantity	Units	Unit Price	cost	Sub-Total
01000	GENERAL CONDITION, POLICE DETAIL					
01000-1	General Condition, Special Condition	1	LS	\$ 50,000.00	\$ 50,000.00	
01000-2	Police services	2	LS	\$ 50,000.00	\$ 100,000.00	
xx-xx	Mobilization	1	LS	\$ 50,000.00	\$ 50,000.00	
					\$	200,000.00
01500	CONSTRUCTION FACILITIES					
01500-1	Construction Facilities	1	LS	\$ 50,000.00	\$ 50,000.00	
01500-2	Construction Fence (6' Chain link Fence)	2651	LF	\$ 14.00	\$ 37,114.00	
					\$	87,114.00
x.xxx	FIELD OFFICE					
xx.xx	Field Office and Supplies	12	Month	\$ 3,360.00	\$ 40,320.00	
					\$	40,320.00
x.xxx	TEMPORARY TRAFFIC CONTROL					
xx.xx	Temporary Traffic Control	2	LS	\$ 25,000.00	\$ 50,000.00	
					\$	50,000.00
02100	SITE PREPARATION & DEMOLITION					
02100-1	Utility Preparation and Demolition	1	LS	\$ 10,000.00	\$ 10,000.00	
02100-2	Remove and Stockpile Granite Curb	587	LF	\$ 30.00	\$ 17,610.00	
02100-4	Clearing and Grubbing	7828	SY	\$ 4.00	\$ 31,311.11	
02100-8	Tree and Shurb Trimming	4103	SY	\$ 3.20	\$ 13,129.96	
02100-9	Tree Removal - 6", Under 12" Caliper	2	EA	\$ 583.00	\$ 1,166.00	
xx.xx	Sawcut	550	LF	\$ 6.00	\$ 3,300.00	
xx.xx	Tree Protection Fence	2587	LF	\$ 7.00	\$ 18,109.00	
xx.xx	Picnic Table, Remove and Dispose	3	EA	\$ 200.00	\$ 600.00	
xx.xx	Bit. Conc Paving, Remove and Dispose	1861	SY	\$ 30.00	\$ 55,843.33	
xx.xx	Existing Fence, Remove + Stockpile	730	LS	\$ 10.00	\$ 7,300.00	
xx.xx	Existing Electrical Box - Relocate	1	EA	\$ 625.00	\$ 625.00	
xx.xx	Existing Drinking Fountain - Relocate	1	EA	\$ 700.00	\$ 700.00	
					\$	159,694.40
02370	Site Protection during Construction					
02370-1	Stormwater Pollution Prevention Plan	1	LS	\$ 5,000.00	\$ 5,000.00	
02370-2	Silt Barrier (2 Rows)	5302	LF	\$ 9.00	\$ 47,718.00	
02370-4	Sediment Control Bags	50	EA	\$ 50.00	\$ 2,500.00	
					\$	55,218.00
02200	EARTH WORK					
02200-1	Earthwork, Site	4154	SY	\$ 4.00	\$ 16,616.44	
02200-3	Rock Excavation	50	CY	\$ 125.00	\$ 6,250.00	
	Passive Used Lawn with Fiber Reinforcing	540	SY	\$ 5.00	\$ 2,700.00	
					\$	25,566.44
02730	SITE IMPROVEMENTS					
	Curb	907	LF	\$ 50.00	\$ 45,350.00	
	Flush Curb	30	LF	\$ 40.00	\$ 1,200.00	
	Curb Ramp	6	EA	\$ 1,250.00	\$ 7,500.00	
	Granite Threshold	156	SF	\$ 80.00	\$ 12,480.00	
	New Wall	170	LF	\$ 600.00	\$ 102,000.00	
	Sign on wall	1	LS	\$ 10,000.00	\$ 10,000.00	
	Seatwall Benches at Entry	104	CF	\$ 300.00	\$ 31,200.00	
	Steel Picket Fence	616	LF	\$ 300.00	\$ 184,800.00	
					\$	394,530.00
02730	PAVEMENT					
	Bit. Concrete paving	2674	SY	\$ 42.40	\$ 113,391.73	
	Concrete Paving	96	SY	\$ 55.00	\$ 5,304.44	
	concrete Decking	122.222222	SY	\$ 60.00	\$ 7,333.33	
					\$	126,029.51
x.xxx	PLANTING					
	Lawn / Grass Beach	8441	SY	\$ 3.00	\$ 25,323.67	
	Shrubs	21	EA	\$ 85.00	\$ 1,785.00	
	Ornamental Grass 2' Spread	730	EA	\$ 32.00	\$ 23,360.00	
	Tree	33	EA	\$ 850.00	\$ 28,050.00	
					\$	78,518.67
x.xxx	PLANTING SOILS					
	Planting Soil Amended in-situ (12" DEPTH)	2820	CY	\$ 20.00	\$ 56,400.00	
	Planting Soil (4.5 CY/TREE, 0.5 CY/SHRUB)	600	CY	\$ 40.00	\$ 24,000.00	
					\$	80,400.00
02800	SITE FURNISHING					
	Kiosk	1	EA	\$ 10,000.00	\$ 10,000.00	\$ -
	Drinking Fountain w/ Mister	1	EA	\$ 5,000.00	\$ 5,000.00	
	Light Pole	12	EA	\$ 8,500.00	\$ 102,000.00	
					\$	117,000.00
x.xxx	MISCELLANEOUS					
02468-2	Mobilization / Demobilization	1	LS	\$ 5,000.00	\$ 5,000.00	
	Water Service	1		\$ 7,500.00	\$ 7,500.00	
	Electrical to support lighting	1	LS	\$ 25,000.00	\$ 25,000.00	
	Irrigation System	1	LS	\$ 65,000.00	\$ 65,000.00	\$ 5,000.00
	Irrigation Water Supply	1	LS	\$ 60,000.00	\$ 60,000.00	
TOTAL					\$	1,576,891.02
W/ Small Site Escalation (20%)					\$	1,892,269.23
W/ Construction Contingency (15%)					\$	2,176,109.61
TOTAL WITH CONTINGENCY					\$	2,176,109.61

PHASE F 2017-2018: Eastern End and Kayak Launch Area

Payment Item	Description	Quantity	Units	Unit Price	cost	Sub-Total
01000	GENERAL CONDITION, POLICE DETAIL					
01000-1	General Condition, Special Condition	1	LS	\$ 50,000.00	\$ 50,000.00	
01000-2	Police services	1	LS	\$ 50,000.00	\$ 50,000.00	
xx-xx	Mobilization	1	LS	\$ 50,000.00	\$ 50,000.00	
						\$ 150,000.00
01500	CONSTRUCTION FACILITIES					
01500-1	Construction Facilities	1	LS	\$ 50,000.00	\$ 50,000.00	
01500-2	Construction Fence (6' Chain link Fence)	861	LF	\$ 14.00	\$ 12,054.00	
xx.xx	Construction Fence Gate	2	EA	\$ 1,500.00	\$ 3,000.00	
						\$ 65,054.00
x.xxx	FIELD OFFICE					
xx.xx	Field Office and Supplies	6	Month	\$ 3,360.00	\$ 20,160.00	
						\$ 20,160.00
x.xxx	TEMPORARY TRAFFIC CONTROL					
xx.xx	Temporary Traffic Control	1	LS	\$ 15,000.00	\$ 15,000.00	
						\$ 15,000.00
02100	SITE PREPARATION & DEMOLITION					
02100-1	Utility Preparation and Demolition	1	LS		\$ -	
xx.xx	Sawcut	290	LF	\$ 6.00	\$ 1,740.00	
02100-2	Remove and Stockpile Granite Curb	142	LF	\$ 30.00	\$ 4,260.00	
xx.xx	Gravel Path. Remove and Dispose	100	SY	\$ 10.00	\$ 1,000.00	
xx.xx	Stonedust Parh, Remove + Dispose	106	SY	\$ 10.00	\$ 1,063.33	
xx.xx	Bit. Conc Paving, Remove and Dispose	525	SY	\$ 30.00	\$ 15,753.33	
xx.xx	Bollard, Remove and Stockpile	5	EA	\$ 50.00	\$ 250.00	
xx.xx	Trash Receptacle, Remove and Stockpile	1	EA	\$ 300.00	\$ 300.00	
xx.xx	Existing Fence, Remove + Stockpile	132	LS	\$ 10.00	\$ 1,320.00	
xx.xx	Existing Boulder, Remove and Relocate	3	EA	\$ 150.00	\$ 450.00	
EXISTING TREE & VEGETATION TREATMENT						
02100-4	Clearing and Grubbing	4245	SY	\$ 4.00	\$ 16,979.11	
xx.xx	Hedge / Prune	35	SY	\$ 3.00	\$ 104.67	
02100-8	Tree and Shurb Trimming	1153	SY	\$ 3.20	\$ 3,691.02	
02100-9	Tree Removal - 6", Under 12" Caliper	2	EA	\$ 583.00	\$ 1,166.00	
	Shrub, Remove and Re-install	3	EA	\$ 25.00	\$ 75.00	
xx.xx	Tree Protection Fence	1268	LF	\$ 7.00	\$ 8,876.00	
xx.xx	Tree Stump, Remove and Dispose	2	EA	\$ 430.00	\$ 860.00	
02370	Site Protection during Construction					
02370-1	Stormwater Pollution Prevention Plan	1	LS	\$ 5,000.00	\$ 5,000.00	
02370-2	Silt Barrier (2 Rows)	1432	LF	\$ 9.00	\$ 12,888.00	
02370-3	Slope Protection	185	SF	\$ 8.00	\$ 1,480.00	
02370-4	Sediment Control Bags	2	EA	\$ 50.00	\$ 100.00	
02370-5	Silt and Turbidity Barrier	150	LF	\$ 15.00	\$ 2,250.00	
02200	EARTH WORK					
02200-1	Earthwork, Site	2302	SY	\$ 4.00	\$ 9,206.67	
	Crushed Stone / RiverRock/ Geocell for Kayak					
02200-4	Launch	160	SY	\$ 60.00	\$ 9,600.00	
02730	SITE IMPROVEMENTS					
	Curb	137	LF	\$ 50.00	\$ 6,850.00	
	Flush Curb	12	LF	\$ 40.00	\$ 480.00	
	Curb Ramp	2	EA	\$ 1,250.00	\$ 2,500.00	
	Granite Threshold	88	LF	\$ 80.00	\$ 7,040.00	
02730	PAVEMENT					
	Bit. Concrete paving	573	SY	\$ 42.40	\$ 24,309.33	
	Concrete Paving	44	SY	\$ 55.00	\$ 2,444.44	
	Bound Stonedust Paving	77	SY	\$ 50.00	\$ 3,850.00	
x.xxx	PLANTING					
	Lawn / Grass Beach	318	SY	\$ 3.00	\$ 953.00	
	Meadow Planting	3718	SY	\$ 3.50	\$ 13,014.56	
	Shrubs	67	EA	\$ 85.00	\$ 5,695.00	
	Ornamental Grass 2' Spread	80	EA	\$ 32.00	\$ 2,560.00	
	Emergent Grasses, Sedges and Rushes	33	SY	\$ 115.00	\$ 3,795.00	
	Tree	17	EA	\$ 850.00	\$ 14,450.00	
						\$ 40,467.56

x.xxx		PLANTING SOILS			
		Planting Soil Amended in-situ (12" DEPTH)	1350 CY	\$ 20.00	\$ 27,000.00
		Planting Soil (4.5 CY/TREE, 0.5 CY/SHRUB)	200 CY	\$ 40.00	\$ 8,000.00
		\$ 35,000.00			
02800		SITE FURNISHING			
02800-1	Bike Rack - incl footing and slab	7 EA	\$ 1,500.00	\$ 10,500.00	
	Kiosk	1 EA	\$ 10,000.00	\$ 10,000.00	
	DCR Pillar	1 EA	\$ 3,360.00	\$ 3,360.00	
	Drinking Fountain w/ Mister	1 EA	\$ 5,000.00	\$ 5,000.00	
	Observation Deck	400 SF	\$ 200.00	\$ 80,000.00	
	Boardwalk	1070 SF	\$ 200.00	\$ 214,000.00	
	Weather Pole	1 LS	\$ 30,000.00	\$ 30,000.00	
x.xxx		MISCELLANEOUS			
02468-2	Mobilization / Demobilization	1 LS	\$ 25,000.00	\$ 25,000.00	
	Irrigation + Adjustments to existing	1 LS	\$ 30,000.00	\$ 30,000.00	
	Crushed Stone Kayak Launch	160 CY	\$ 16.00	\$ 2,560.00	
		\$ 57,560.00			

TOTAL	\$ 881,988.47
W/ Small Site Escalation (10%)	\$ 1,058,386.16
W/ Construction Contingency (15%)	\$ 1,217,144.08
TOTAL WITH CONTINGENCY	\$ 1,217,144.08

MAGAZINE BEACH II, PHASED COST ESTIMATE
Cambridge, MA

2017.09.05

Crosby | Schlessinger | Smallridge

PHASE G 2018-2019: Powder Magazine & Vegetation Management

Payment Item	Description	Quantity	Units	Unit Price	cost	Sub-Total
01000	GENERAL CONDITION, POLICE DETAIL					
01000-1	General Condition, Special Condition	1	LS	\$ 50,000.00	\$ 50,000.00	
01000-2	Police survices	0.25	LS	\$ 50,000.00	\$ 12,500.00	
xx-xx	Mobilization	1	LS	\$ 50,000.00	\$ 50,000.00	
01500	CONSTRUCTION FACILITIES					
01500-1	Construction Facilities	0.25	LS	\$ 50,000.00	\$ 12,500.00	
01500-2	Construction Fence (6' Chain link Fence)	1388	LF	\$ 14.00	\$ 19,432.00	
xx.xx	Construction Fence Gate	2	EA			
x.xxx	FIELD OFFICE					
xx.xx	Field Office and Supplies	12	Month	\$ 3,360.00	\$ 40,320.00	
02100	SITE PREPARATION & DEMOLITION					
02100-1	Utility Preparation and Demolition	1	LS	\$ 5,000.00	\$ 5,000.00	
xx.xx	Sawcut	30	LF	\$ 6.00	\$ 180.00	
xx.xx	Gravel Path. Remove and Dispose	144	SY	\$ 10.00	\$ 1,444.44	
xx.xx	Stonedust Path, Remove + Dispose	549	SY	\$ 10.00	\$ 5,494.44	
xx.xx	Bit. Conc Paving, Remove and Dispose	888	SY	\$ 30.00	\$ 26,636.67	
xx.xx	Cobble Pavers, Remove and Stockpile	108	SY	\$ 20.00	\$ 2,168.89	
xx.xx	Concrete Paving, Remove and Dispose	10	SY	\$ 30.00	\$ 313.33	
xx.xx	Existing Wall, Remove and Stockpile	50	CY	\$ 400.00	\$ 20,000.00	
xx.xx	Bench, remove and Stockpile	4	EA	\$ 150.00	\$ 600.00	
xx.xx	Bench, Remove and Dispose	4	EA	\$ 300.00	\$ 1,200.00	
EXISTING TREE & VEGETATION TREATMENT						
02100-4	Clearing and Grubbing	4275	SY	\$ 4.00	\$ 17,101.33	
xxx.xxx	Cut, Clear and Swipe + Clear and Grub	3069	SY	\$ 3.00	\$ 9,206.33	
xx.xx	Hedge / Prune	476	SY	\$ 3.00	\$ 1,428.00	
xx.xx	Vista Clearing, Canopy Lifting	909	SY	\$ 3.00	\$ 2,728.00	
02100-8	Tree and Shrub Trimming	2392	SY	\$ 3.20	\$ 7,653.33	
02100-9	Tree Removal - 6", Under 12" Caliper	3	EA	\$ 583.00	\$ 1,749.00	
xx.xx	Shrub, Remove and Re-install	10	EA	\$ 25.00	\$ 250.00	
xx.xx	Tree Protection Fence	1836	LF	\$ 7.00	\$ 12,852.00	
02370	SITE PROTECTION DURING CONSTRUCTION					
02370-1	Stormwater Pollution Prevention Plan	1	LS	\$ 5,000.00	\$ 5,000.00	
02370-2	Silt Barrier (2 Rows)	2600	LF	\$ 9.00	\$ 23,400.00	
02370-3	Slope Protection	5000	SF	\$ 8.00	\$ 40,000.00	
02370-4	Sediment Control Bags	3	EA	\$ 50.00	\$ 150.00	
02370-5	Silt and Turbidity Barrier	1155	LF	\$ 15.00	\$ 17,325.00	
02200	EARTH WORK					
02200-1	Earthwork, Site	4134	SY	\$ 4.00	\$ 16,535.56	
02200-2	Earthwork, Structures	1	LS	\$ 10,000.00	\$ 10,000.00	
02200-3	Rock Excavation	20	CY	\$ 125.00	\$ 2,500.00	
	High Use Lawn Fiber Reinforcing	850	SY	\$ 5.00	\$ 4,250.00	
02730	SITE IMPROVEMENTS					
	New Wall	92	LF	\$ 2,000.00	\$ 184,000.00	
	Wall Re-configuration	140	LF	\$ 1,500.00	\$ 210,000.00	
02730	PAVEMENT					
	Bit. Concrete paving	178	SY	\$ 42.40	\$ 7,537.78	
	Bit. Concrete with Aggregates	422	SY	\$ 50.00	\$ 21,122.22	
	Concrete Paving	93	SY	\$ 55.00	\$ 5,096.67	
	Granite Pavers	546	SY	\$ 200.00	\$ 109,222.22	
	Bound Stonedust Paving	629	SY	\$ 50.00	\$ 31,466.67	
x.xxx	PLANTING					
	Lawn / Grass Beach	5077	SY	\$ 3.00	\$ 15,230.33	
	Meadow Planting	663	SY	\$ 3.50	\$ 2,318.94	
	Naturalized Shore Edge Planting	564	SY	\$ 70.00	\$ 39,448.89	
	Emergent Grasses, Sedges and Rushes	294	SY	\$ 115.00	\$ 33,771.67	
	Lower Bank Perennial / Wetland	256	SY	\$ 115.00	\$ 29,452.78	
	Tree	9	EA	\$ 850.00	\$ 7,650.00	
	Vine	8	EA	\$ 35.00	\$ 280.00	
x.xxx	PLANTING SOILS					
	Planting Soil Amended in-situ (6" DEPTH)	958	CY	\$ 20.00	\$ 19,169.37	
	Planting Soil (4.5 CY/TREE, 0.5 CY/SHRUBorGRASS)	600	CY	\$ 40.00	\$ 24,000.00	
						\$ 43,169.37
02800	SITE FURNISHING					
	Bench	10	EA	\$ 2,000.00	\$ 20,000.00	
x.xxx	MISCELLANEOUS					
02468-2	Mobilization / Demobilization	1	LS	\$ 5,000.00	\$ 5,000.00	
	Irrigation	1	LS	\$ 45,000.00	\$ 45,000.00	
	Electric Box	1	EA	\$ 1,000.00	\$ 1,000.00	
	Granite Steps	240	LF	\$ 300.00	\$ 72,000.00	
	Stainless steel Railing	30	LF	\$ 200.00	\$ 6,000.00	
	Electrical Work	1	LS	\$ 5,000.00	\$ 5,000.00	
	Electrical Outlets and wiring	3	EA	\$ 40.00	\$ 120.00	
	Cath Basin	1	EA	\$ 4,500.00	\$ 4,500.00	
	Drain Pipe	70	LF	\$ 65.00	\$ 4,550.00	
	Subsurface Infiltration	1	LS	\$ 15,000.00	\$ 15,000.00	
						\$ 158,200.00

TOTAL	\$ 1,378,805.87
W/ Small Site Escalation (20%)	\$ 1,654,567.05
W/ Construction Contingency (15%)	\$ 1,902,752.11
TOTAL WITH CONTINGENCY	\$ 1,902,752.11

