Newton Parks, Recreation and Culture Department

Heartbreak Hill Park @ Waban Hill Reservoir Phase 1 Improvements Project Update

Project funded by the Community Preservation Act



Heartbreak Hill Park @ Waban Hill Reservoir: 5-acre decommissioned open reservoir: 45% open water, 10% granite block wall, 10% walking path, 15% Steep grassy slope, and 15% somewhat-level area. 25% is usable space for recreational activity.



After!





After!





After!



Fall 2019 construction begins...













<u>Clockwise from left to right:</u> Construction sign; Excavation for new path; Stockpiled timbers for path edge; New stair cheek wall foundation; reclaimed existing granite steps and cheek walls; stockpile and construction access

Winter/Spring 2020 construction continues...



<u>Clockwise from left to right:</u> Timber edge and steel brackets; New stair cheek wall form work and poured concrete; Newly poured and curing concrete stairs; Stabilized stone dust, aggregate base, timber curb and erosion control matting; new granite curbing at accessible parking space

Summer 2020 substantial completion ...







<u>Left to right:</u> Etched and painted reclaimed granite block park signage @ Corner of Ward and Manet; Finished path with recently seeded disturbed area; etched reclaimed granite seat wall and stabilized slope

Minor hiccups and wildlife encounters...



<u>Clockwise from left to right:</u> Fence damage by unoccupied contractor vehicle; unexpected subsurface structures; live or abandoned gas line?; Construction zone trespassing wildlife and concerned residents



Heartbreak Hill Park @ Waban Hill Reservoir Project Summary

- Projected Cost:
 - Constructability Challenges:
 - 70% of the site is steeply sloped as a result of the reservoir dam
 - Restrictions set forth by CMR 302-10 Dam Safety Regulations
 - Construction access limited due to extreme slopes
 - Limited space for heavy construction equipment
 - Most of the project limited to smaller construction equipment

Waban Hill Reservoir Park Development Project Planning + Construction Summary	
Stantec Dam Safety Study	\$31,000.00
Weston & Sampson Master Plan, Design, Construction Documentation, Construction Oversight	\$102,000.00
Total Planning Cost	\$133,000.00
Engineer's Probable Construction Cost Estimate @ BID	\$322,979.00
Total Actual Construction Cost	\$368,500.00
Total Land purchase + Misc. Improvements	\$531,532.53
Total CPA Funds Expended	\$980,000.00
Approximate Total Staff Time (for duration of project)*	\$15,071.00
Total Matching Funds**	\$67,103.53

^{*}Staff time calculated @ 60 hours per year for duration of project (7 Fiscal Years)

^{**}Includes staff time and other funding source = 7% city & private funding match

Heartbreak Hill Park @ Waban Hill Reservoir Detailed Expenditure Breakdown

Waban Hill Reservoir Park Development Itemized Project Cost			
Board order # 15-15		\$349,234.99	
Soard order # 15-15		\$630,765.01	
Total CPA Funds		\$980,000.00	
Project Timeline + Vendor	Task Total	FY Total Expenditures	Notes
FISCAL YEAR 2015		\$434,800.00	
Consension Restriction	\$30,000.0		Conservation Restrictions
Commonwealth of Massachusetts	\$404,800.0		and purchased from Commonwealth of Massachusetts
EISCAL YEAR 2016		\$114,232.53	
Stantec Consulting Services	\$15,500.0		Dam Safety Evaluation & Report
Northern Tree Service	\$2,080.0		Brush & Tree removal from Granite blockdam wall
Northern Tires Senice Newton North Print Shop	\$6,240.0 \$24.0		Brush & Tree removal from Granite block darn wall Printing at Newton North - 4 signs
Northern Tree Service	\$4,160.0		Priming at Newton North - 4 signs Brush & Tree removal from Granite block dam wall
Signal Graphics	\$161.5		Banner printing
Steelco Fence Co. Steelco Fence Co.	\$44,467.0 \$1,300.0		nstalilation of 1349' of 4' black viryl fence Removal of 650' of existing fence & posts
Steetco Fence Co. Vanaria & Sons	\$1,300.0 \$2,000.0		Kemoval of 850 of existing tence & posits Grounds work at Waban Hill
Vanaria & Sons	\$2,000.0		Grounds work at Waban Hill - ribbon cutting
Stantec Consulting Services	\$14,137.9 \$16,800.0		Dam Safety Evaluation & Report
Homer Contracting Weston & Sampson - Master Plan	\$2,000.0		Remove wrought iron fencing, etc. \$30,000 Master Plan Contract
Stantec Consulting Services	\$1,183.0		Dam Safety Evaluation & Report
Weston & Sampson - Master Plan Stantec Consulting Services	\$2,000.0 \$179.0		\$30,000 Master Plan Contract Dam Safety Evaluation & Report
Statest Consulting Services	\$179.0.		Dam Sariety Evaluation & Report
FISCAL YEAR 2017		\$45.000.00	
Weston & Sampson - Master Plan Weston & Sampson - Master Plan	\$8,000.0 \$12,000.0		\$30,000 Master Plan Contract \$30,000 Master Plan Contract
Weston & Sampson - Master Plan	\$2,000.0		\$30,000 Master Plan Contract
Weston & Sampson - Phase 1 Improvements	\$5,000.0		Contract -\$48,000
eVeston & Sampson - Phase 1 Improvements	\$18,000.0		Contract -\$48,000
FISCAL YEAR 2018		\$19,000.00	
TOOTIE TENTENO			
Weston & Sampson - Phase 1 Improvements	\$8.800.0		Contract-548.000
Weston & Sampson - Master Plan	\$4,000.0		\$30,000 Master Plan Contract - Carryover from FY 2017
Weston & Sampson - Master Plan Weston & Sampson - Phase 1 Improvements	\$4,000.0 \$2,000.0		\$30,000 Master Plan Contract - Carryover from PY 2017 Contract -\$48,000
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