

Grant Applicant Project Team

Henry P. MacLean, AIA is the Principal Applicant whose bio appears on page 7 of the Proposal.

Contact: 147 School St, Milton, MA 02186, hmaclean@timearch.com

Geoffrey Moore Langdon, AIA is a registered architect and is the principal of Architectural CADD Consultants, a firm that specializes in helping architectural firms with computing and CADD. He has taught Design, Architectural CADD, Solar Energy, Resource Conscious Design, and at a number of colleges in the Boston area. He is the founder and organizer of the international Designers 3D CAD Challenge competition and a guest speaker at many AIA events. Contact: <http://www.architecturalcadd.com/>, glangdon@mailblocks.com

Franziska Amacher AIA, LEED AP is principal @ Amacher & Associates, a client based architecture firm that emphasizes an environmentally and socially designs for the changing needs of communities. During the past 25 years of experience in practice, in teaching architecture students, as former co-chair of the Committee on the Environment @ the BSA and as Board Member ADPSR, Franziska has been involved with this City Hall proposal since 1997.

Contact: 259 Mt. Auburn St, Cambridge, MA 02139, famarc@earthlink.net

Gerard Ives His designs include keystone public and environmental projects including new and renovated visitor centers, education facilities, private residences, and other unique projects. His work has also included design guidelines for historic districts, urban planning advocacy, master planning, and consulting. Since starting his own firm in 1985, Mr. Ives has provided clients with environmentally sensitive design, including designs appropriate with the climate, with nature, and with his clients' sustainable design vision.

Contact: 1 Dartmouth Place, Boston , MA 02186, ivesarch@verizon.net

Kevin Cooke, Director of Operations with Bond Brothers, Inc. Kevin is an expert in planning and managing construction projects. His current position as Director of Operations entails oversight of all project managers. Kevin has been associated with this Greening of City hall Proposal since 1997. He worked closely with his father **John Cooke, PE** (now retired) Energy Consultant and Professor Emeritus at M.I.T. who was instrumental in our study at Wentworth.

Contact: kcooke@bondbrothers.com

Kevin Cooke has agreed to be available as a resource consultant to upgrade this preliminary pro-forma to reflect the revised digital models and plans proposed in this Grant application.

Project Pro-Forma from Wentworth Study

Construction costs as provided by a review from Project Manager Kevin Cooke (Beacon Skanska, 1997) certifies that the 1/16th scale drawings as completed by the Wentworth Team (fall 1997) for alterations and additions alterations to City Hall would cost roughly \$30 million

100,000 sf @ \$250.00/sf = \$25,000,000

Soft Costs

Engineering and Architecture	@ 7.5%	=	1,125,000
Interest and Construction Financing		=	1,500,000
Insurance	@ 1%	=	1,800,000
Bond	@ 1%	=	150,000
<u>General Conditions</u>	<u>@ 5%</u>	<u>=</u>	<u>750,000</u>
<u>Total Costs</u>		<u>=</u>	<u>\$ 30,325,000</u>

Avoided Costs (annual savings)

Energy Savings w/ New Mechanical System		=	1,000,000
Avoided rental for additional Government Office Space			
30,000 sf @ \$30/sf		=	900,000
Income from Rental Spaces			
55,000 sf @ \$ 45/sf		=	2,475,000

Total Annual Income/Avoided Costs = \$ 4,375,000

Payback period for project \$ 30,325,000/4,375,000 = **6.9 years**

Additional Project Advisors

The following list of professionals and experts in Green Design have been supportive of this Proposal to Green Boston City Hall over the past 8 years, and will be available to provide renewed support and further insight if this Proposal finds grant funding.

Steven Strong	Architect, Solar Design Associates
Peter R. Nobile III AIA, LEED	SBRA Architects, Past co-chair of COTE
Ambrose Spencer	Solar Toys, NESEA Lifetime Member Award Recipient
David DelPorto	President, ECOS; Newton Green Decade
Henry Vandermark	Boston Area Solar Energy Association
Mark Kelly PE	The Hickory Consortium
Dan Douglas	TDA Architects, Wentworth Arch. Graduate
Jeff Stein, AIA	Architect, Head: Boston Architectural Center