



#2023EEA

Engineering Excellence & Awards Gala

March 27, 2023 | Renaissance Boston Waterfront Hotel | Boston, MA

The ACEC/Massachusetts Engineering Excellence Awards (EEA) competition recognizes engineering firms for projects that demonstrate an exceptional degree of innovation, complexity, achievement, and value.

ACEC/MA is delighted to celebrate outstanding projects and recognize great people at our 2023 Awards Gala.

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A Letter from our 2023 President



**Welcome to the
ACEC/MA 2023
Engineering Excellence
& Awards Gala**

March 27, 2023

Each year we gather to celebrate and recognize engineering firms for projects that demonstrate innovation and excellence. Tonight culminates a process that began many months ago, from the initial call for entries last summer to the selection of finalists and Grand Conceptor by a distinguished panel of judges. This evening we recognize all the firms who took the time and investment to participate in the competition.

In addition, tonight's Gala also recognizes those who work tirelessly throughout the year to advance the goals and values of not only our organization, but also the industry. Therefore, we are excited to share with you the winners of the ACEC/MA Education Corporation scholarship and Young Professional Awards.

Again, welcome and thank you for joining us this evening and congratulations to all of the winners!

Sincerely,

Cynthia L. Joudrey, PE
2022-2023 ACEC/MA President

2023 ACEC/MA Education Corporation Presidents' Scholarship



Deidra Anderson

Deidra Anderson is currently pursuing a Bachelor of Science in Civil Engineering at Worcester Polytechnic Institute. Deidra secured an internship in Jacobs structural engineering group upon graduating from high school. Over the past few summers, Deidra has had an opportunity to be part of an engineering team and see how her work provides a benefit to the client and the community. Her supervisor shared that Deidra has “great blend of energy and pleasantness mixed with a high level of ambition” which is demonstrated through her work, school and athletics. Her love of running has extended from serving as captain of her high school track and field teams to now being on the varsity teams at WPI. Also at WPI, Deidra is serving as President for a new Society of American Military Engineers student chapter.



Ella Quinn

Ella Quinn is pursuing a Bachelor of Science in Civil Engineering at the University of Massachusetts Amherst. Ella’s passion for environmental justice and hard work got her an internship at the Massachusetts Department of Environmental Protection, where she worked independently organizing and analyzing air quality data. She also received a research fellowship under the National Institute of Health to determine if all communities have equal access to the appropriate treatment regarding public health. Ella is involved in the Society of Women Engineers, American Water Works Association, Engineers without Borders, and the ASCE, to name a few. One of Ella’s professors described her as being “the clear leader” in group projects, “one of the most hardworking students” that he has taught, and “is at the forefront to be the change she wants to see.”

2023 ACEC/MA Education Corporation General Scholarship



Tieren Adams

Tieren Adams is pursuing a Bachelor of Science in Civil Engineering at the University of Massachusetts Lowell. Tieren chose this degree because they are “passionate about creating purposeful structures and deeply concerned about climate change.” They want to pursue a master’s degree to use that knowledge to benefit their community. Tieren’s acceptance to a summer Research and Mentoring Program at UMass Lowell and their subsequent hard work and dedication led them to earn credits to enter college as a sophomore. While in high school, Tieren worked at the Cary Public Library and was a camp counselor at the Munroe Center for the Arts. Tieren’s supervisor noted their work on a community-based NSF research project that monitors drinking water quality, and they have “tremendous potential and all the qualities required to become a successful civil engineer.”



Antoni Piascik

Antoni Piascik is pursuing a Bachelor of Science and Engineering and Mechanical Engineering at Merrimack College. He is also a team leader for a service trip and a member of Tau Beta Pi and the Society of American Engineers. Antoni plans to start a master’s degree in biomaterials after college, where he can combine his passions for engineering and medicine in hopes of improving lives through the development of medical technology. Antoni’s supervisor shared she “was impressed by his intelligent questions that have helped the development and better delivery of the course throughout the semester.”

2023 ACEC/MA Education Corporation Judith Nitsch Scholarship



Alyssa Griffin

Alyssa Griffin is pursuing a Master of Science in Civil/Structural Engineering at Syracuse University. Alyssa secured a summer internship at Nitsch Engineering. She was involved in a water infrastructure project aligned with her career goal of “contributing to climate resilience and fostering greater equity and access to the benefits of engineering and technology across nations, socioeconomic status, and race.” In addition to her internship and coursework, Alyssa was a teaching assistant, a WellsLink Leadership Scholar, and an associate for the Women of Color in STEM Career Preparation Program, a member of the National Society of Black Engineers and the Society of Women Engineers.



Shannon Logan

Shannon Logan is pursuing a Bachelor of Science in Civil Engineering at Worcester Polytechnic Institute. The President of Atlantic Coast Engineering, where Shannon held an internship, described her as “enthusiastic about work, the profession and is a pleasure to work with.” At WPI, Shannon is on the Dean’s List and is a member of ASCE, the Society of Women Engineers, the outing club, the running club, and the concert band. During her junior year, Shannon traveled to Glacier National Park to help “the park administration find solutions and new strategies to improve their housing situation,” where she collaborated with students from different majors. Shannon’s drive for problem-solving continues through her capstone project, where she is helping residents on an unpaved dirt road with drainage issues.

2023 Young Professional Award Winners



Charles Gibson

Associate, Mechanical Engineer

SMMA

As a Mechanical Engineer, Charles has led the HVAC engineering on a range of projects including schools and other government buildings. He recently led the design to replace the failing HVAC systems at the Lawrence Oliver K-8 School, which were over 100 years old. This project included replacing two gas boilers with 90% efficient electric heating and cooling systems. In addition to his project work, Charles has authored several papers, including “HVAC Strategies” in April 2020 which responded to numerous client questions around COVID-19. He has also developed an “HVAC 101” class that is now widely used throughout SMMA. He is currently undertaking

Charles has been an active member of the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) since moving to Boston in 2011. Additionally, as a member of ACEC-MA, he has participated in the Emerging Leaders Program.

Charles is passionate about his community service. Since 2015, he has served as a mentor to high school students through Architecture, Construction and Engineering’s (ACE) mentor program. Over this 6-year period, he has helped these mentored students receive over \$85,000 in scholarships. Charles also serves as the Trustee and Chairman of the Board at the Davenport Commons Condominiums. He has tutored elementary and high school students in math and is active in his church community, leading small group discussions and leading other community service activities.

2023 Young Professional Award Winners



Mackenzie Tozier, PE
Engineering Manager
AI Engineers, Inc.

Mackenzie is an engineering manager who oversees several large contracts including ancillary structures, bridges, tunnels, and construction phase services.

While he is actively involved in the day-to-day management of these contracts, he still finds time to perform boots-on-the-ground inspections. In addition to management, his experience includes serving as a designer for an emergency access bridge load rating of a structure which provided the only means of access to a hydro-electric plant. The bridge was in poor condition and had been load rated well below the requirements to move a 100-ton crane into the plant maintenance. Mackenzie performed a thorough gusset plate analysis and developed a specific wheel line path to further analyze the structure's capacity. A repair procedure was then developed and implemented on the bridge to allow for safe passage of the crane, including replacing rivets with high-strength bolts and reinforcing several gusset plates.

Mackenzie is an active member of ACEC-MA. He is involved with the MBTA, Massport, Building, and QBS subcommittees. He is also the Club President at Toastmasters International. Mackenzie previously served as a judge at the Connecticut Invention Convention.

Community Service Award Winner



David Giangrande, PE, MS

**Senior VP / Manager of Massachusetts Operations
GM2, Inc.**

David is a Senior Vice President / Manager of Massachusetts Operations for GM2, Inc. Prior to this role, David served as the President and CEO of Somerville-based Design Consultants, Inc. As a long-time resident of Andover, David has served on the town's Permanent Town Building Advisory Committee since 2016 and the Youth Center Building Committee prior to that. His committee work in town has overseen the planning and construction of several buildings, including the highly regarded Municipal Services Facility, the Cormier Youth Center, a fire station in the Ballardvale neighborhood, and improvements and renovations at schools, town offices, and the senior center.

In addition to his work with the Town of Andover, David active in many other community organizations. He serves as a long-time Director at his church, St. Augustine's in Andover, volunteers at local food banks, and serves holiday meals to the hungry in the neighboring City of Lawrence. He also participates in an annual Winter Warmth Programs providing winter clothing to children in need, created by his oldest daughter at 7 years-old.

David served on the board of directors for the Lazarus House shelter and services center and the Lawrence Boys & Girls Club for decades. He also served on the Parish and School Building Committees for St. Augustine's and the Facilities Committee for Lazarus House. David also found time to serve as a youth coach and mentor for Andover Little League, Junior Football league, and a church basketball league. His charitable endeavors reflect well on the Massachusetts engineering community and provide an excellent example of community service for others to strive towards.

2023 EEA Award Winning Lead Engineering Firms

Bronze Award



Arup US, Inc.
Beals and Thomas, Inc.
CDR Maguire, Inc.
Dewberry
Dewberry
Environmental Partners Group LLC
Fitzemeyer & Tocci Associates, Inc.
Gannett Fleming
Jacobs Engineering Group, Inc.
Engelberth Construction, Inc.
Nitsch Engineering
TranSystems
VHB
Waterfield Design Group, Inc.
Woodard & Curran

Silver Award



BSC Group, Inc.
Fuss & O'Neill, Inc.
Gill Engineering Associates, Inc.
HDR Inc
McFarland-Johnson, Inc.
SLR International Corporation
Stantec Consulting Services Inc.
VHB
Weston & Sampson Engineers, Inc.

Finalist



GEI Consultants, Inc.
Green International Affiliates, Inc.
Simpson Gumpertz & Heger
TEC, Inc.
Weston & Sampson



2023 EEA Bronze Award Winner

Brookville Smart Energy Bus Depot

Silver Springs, MD

Arup US, Inc.

The Ride On bus system in Montgomery County, Maryland, has over 5,300 stops on 79 routes, carrying over 24 million passengers annually. As part of its goal for zero carbon emissions and a fully electric fleet by 2035, the County embarked on a program to electrify its bus fleet by integrating a renewable energy plus battery storage microgrid for resilient vehicle charging. Arup was brought on for its expertise in infrastructure and fleet electrification to help realize these goals. Able to support 70 buses, the microgrid will eventually eliminate over 160,000 metric tons of GHGs.





2023 EEA Bronze Award Winner

MIT Graduate Tower at Site 4

Cambridge, MA

Arup US, Inc.

In 2010, the Massachusetts Institute of Technology (MIT) began collaborating with the Kendall Square community to develop the Kendall Square Initiative – a community-driven plan to invigorate the area and bring in new business, new activity, and new opportunity. Arup collaborated with MIT, NADAAA, and Perkins+Will on the first phase of this development which included the adaptive reuse of two 100-year-old warehouses as well as the 29-story Graduate Tower which, at 300 feet and housing 454 residential units, is currently the tallest building in Cambridge. Working with the wider team, Arup was able to help the project achieve LEED Gold certification.





2023 EEA Bronze Award Winner

The Country Club Primrose Pond Improvements
Brookline, MA
Beals and Thomas, Inc.

The Country Club Primrose Pond Improvements highlight the benefits of engaging with civil engineering from planning through construction. Because the Club engaged B+T early-on, we were able to provide strategic guidance and complete our services so that the desired water quality improvement program could be initiated in concert with the Open. Doing so took years of planning but paid off immensely. The Club was able to plan for the Open while also utilizing the infrastructure from that event to reduce what would otherwise be additional disturbances to the property and golf course maintenance and play.





2023 EEA Bronze Award Winner

West Oxbow Road over Wilder Brook Bridge Replacement Project

Charlemont, MA

CDR Maguire, Inc.

CDR Maguire provided a structural, highway, and traffic design that is cost-effective, aesthetically appealing, and best serves the local community. To limit the impact of constructing a new bridge, CDR Maguire utilized ABC techniques, so the traveling public didn't have to endure a cumbersome detour for any longer than necessary. The engineering team found solutions to maintain streambank integrity and the water resources; they relied on their cumulative knowledge and team work to arrive at sustainable solutions -- pressure injecting grouting to stabilize soils and an engineering plan to avoid penetrating the artesian aquifer, all without adding unnecessary costs.





2023 EEA Bronze Award Winner

Bridge Replacement of Evergreen Road over Mason Brook
Hubbardston, MA
Dewberry

There's only one Zakim Bridge or Tobin Bridge, but there are hundreds of Evergreen Road bridges and chances are there are a few similar type bridges in your town needing attention. These are the bridges that connect us to each other, and many are in disrepair. They are not large, glitzy, magazine cover making bridges, but the ones that you drive over every day to get to work, school, the stores, and your healthcare services. The Evergreen Road over Mason Brook project is the type of bridge project that keeps the Commonwealth connected.





2023 EEA Bronze Award Winner

City-wide Sewer Separation Master Plan
Chelsea, MA
Dewberry

With the Master Plan as a resource, the City can thoughtfully and strategically plan for future development and environmental impacts, including wastewater overflows in adjacent water bodies and increased flooding due to climate change. As a result of the City's strategic vision, the Dewberry team leveraged a variety of disparate data sets, (in many cases no data at all), to develop an appropriate framework to create a detailed, comprehensive, forward looking and practical tool for the City – which is used on an ongoing basis to inform, pollution/flood mitigation, future development and the investment approach to support those needs.





2023 EEA Bronze Award Winner

Elevating Resilience: Lexington Leverages Green Infrastructure for Stormwater Solutions

Lexington, MA

Environmental Partners Group LLC

The Oxbow Road residential area in Lexington, MA has a long history of localized flooding. The neighboring major highway system contributes substantial stormwater runoff into the municipal drainage system and its discharge to Kiln Brook. Environmental Partners' naturalized approach to blend gray and green infrastructure components addressed the drainage challenges while providing an elevated aesthetic to the residential area through use of a vegetated retaining wall and restoration of the wetland areas along the drainage easement.





2023 EEA Bronze Award Winner

BAE Systems Manchester Engineering & Production Facility

Manchester, NH

Fitzemeyer & Tocci Associates, Inc.

Fitzemeyer & Tocci provided full MEP/FP/FA engineering and construction administration for the fast-paced design and construction of BAE Systems Manchester – Engineering & Production Facility. The project included a fast-track design and construction effort that took place during one of the most challenging times in construction (Covid-19 pandemic). The successful project, led by Fulcrum Construction, resulted in 200,000-square-foot of modern engineering and production space in Manchester, New Hampshire for up to 800 employees.





2023 EEA Bronze Award Winner

Worcester Polytechnic Institute (WPI), Kaven Hall

Worcester, MA

Fitzemeyer & Tocci Associates, Inc.

WPI's Kaven Hall has historical significance, dating back to its namesake Moses Kaven (class of 1865). Since 1954 the building has represented the school to everyone passing by the prominent corner of Salisbury and Boynton Streets in Worcester, MA. Modernizations to ventilation, occupant comfort, accessibility, and aesthetics were all achieved to attract potential students while maintaining the historical integrity of the building. The F&T team worked to embody the WPI mission statement "Community: We work from a collective vision and purpose to break down barriers to advancing our mission." Mission accomplished!





2023 EEA Bronze Award Winner

Umpachene Falls Road over Konkapot River Bridge Replacement New Marlborough, MA Gannett Fleming

Gannett Fleming provided engineering design services to replace the existing Umpachene Falls Road over Konkapot River Bridge in the Town of New Marlborough. Originally built in 1950, the existing, single-span structure was rated as “structurally deficient” and, therefore, closed to vehicular traffic in April 2012. The new bridge was replaced using staged construction to maintain public pedestrian access to the adjacent recreational park and Massachusetts Division of Fisheries and Wildlife land. Now in accordance with MassDOT’s Bridge Design Guide, the new bridge provides safe passage for vehicles and pedestrians, all while maintaining the historic aesthetic appeal of the original structure.





2023 EEA Bronze Award Winner

Embankment Restoration, Cape Main Line MP 67.0

Sandwich, MA

Jacobs Engineering Group, Inc.

Reconstructing the failed railroad embankment and restoring rail service in 27 days required engineering expertise and collaboration with the contractor, abutters, regulatory officials and elected officials on a timeframe that is seldom seen. The unique relationship between Jacobs and Robert B. Our, contractor, enabled alternative solutions, materials and construction approaches to be considered and tested quickly. Decisions were made and delays were minimized. The team committed to a design that focused on restoring rail service while also looking at long term needs to prevent a recurrence, protect sensitive wetland resources and ensure the viability of the cranberry bog.





2023 EEA Bronze Award Winner

Hyannis Yard Master Plan Implementation

Barnstable, MA

Jacobs Engineering Group, Inc.

Implementing the Hyannis Yard master plan over many years requires a vision and the expertise on how to accomplish the master plan's goals. The Jacobs team and MassDOT addressed issues identified in the master plan—the need to expand for passenger and freight service; integrate the bus service with the train service and make the Yard a more welcoming gateway to Hyannis. The project's value is seen in the commitment to identifying needs, creating a buildable phased plan and consistently securing funding for the projects. The result is a transformed Hyannis Yard for the town, MassDOT and riders.





2023 EEA Bronze Award Winner

Terminal Integration Project (TIP)

Burlington, VT

Jacobs Engineering Group Inc. &
Engelberth Construction, Inc

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2023 EEA Bronze Award Winner

Gardner Street Roadway Reconstruction Project
Worcester, MA
Nitsch Engineering

Working with the City of Worcester to connect Table Talk Pies' existing freezer facility to their new oven facility, Nitsch Engineering lowered Gardner Street underneath an active CSX bridge to provide adequate clearance for trucks traveling between the two buildings. The unique solution required an innovative use of micropiles to protect the structural integrity of the bridge, while maintaining ADA-compliant sidewalks, relocating roadway utilities, and adding on-street parking. Our design offers current and future benefit to the City for utility maintenance, and ultimately allows Table Talk Pies to remain in Worcester and continue serving those who love it.





2023 EEA Bronze Award Winner

Tufts University Stormwater Improvement Project
Medford, MA
Nitsch Engineering

To understand the causes of flooding at the Tufts University Tisch Sports & Fitness Center, Nitsch Engineering developed a district-scale hydraulic model of 261 acres of watershed including Tufts' Campus, nearby Medford neighborhoods, and adjacent MBTA rail lines. Based on an analysis of the results, Nitsch designed a rerouted system that increased capacity to support both current and future development. The Stormwater Improvement Project allows Tufts to address stormwater holistically. It is an example for other urban campuses on how to successfully manage stormwater from a district-scale rather than project-by-project – improving sustainability and resilience, and saving owners time and money





2023 EEA Bronze Award Winner

Route 79/Davol Street Improvements

Fall River, MA

TranSystems

Working with MassDOT, City of Fall River, and the community, TranSystems prepared preliminary design for a drastic transformation of the Taunton River Waterfront. The existing eight-lane Route 79/Davol Street Corridor is being replaced with a four-lane urban boulevard creating nearly 20 acres of new parcels. The new boulevard establishes multi-modal connections between the neighborhoods and the scenic river and introduces a network of shared use paths that will become part of the South Coast Bikeway. The design considers impacts of sea level rise and improves the Taunton River water quality by separating stormwater and sanitary sewer flowing into the river.





2023 EEA Bronze Award Winner

Spy Pond Dredge and Stormwater Improvements
Arlington, MA
VHB

The Spy Pond Dredge and Stormwater Improvements project consisted of a feasibility study and subsequent design and permitting to dredge 625 cubic yards of contaminated sediment and upgrade the drainage system that discharges to Spy Pond, which ultimately restored recreational access to the southwestern portion of the pond. The team overcame many obstacles, including limited access to the shoreline, presence of an endangered grass, a gas pipeline located at an unknown depth, and minimal laydown area. Construction began in the spring of 2021 and dredging activities occurred over a period of approximately three weeks in late May/early June 2021.





2023 EEA Bronze Award Winner

**Boon Street Presbyterian Church
Adaptive Reuse & Reconstruction**
Narragansett, RI
Waterfield Design Group, Inc.

The Boon Street Project is worthy of special recognition because of the powerful statement it makes about what is possible when creative engineering and architectural design are utilized to salvage and restore landmark historical and cultural elements around us. The achievement that is represented by this project uses the gracefulness and beauty of a lost iconic property to illustrate the wide range of possibilities that exist within the engineering, design, and construction profession. This socially and culturally exceptional outcome was so far outside the general public's expectations that all who encounter it are mesmerized by the beauty of this accomplishment.





2023 EEA Bronze Award Winner

Cate Springs Well PFAS Treatment

Mansfield, MA

Woodard & Curran

Based on a longstanding relationship, the town of Mansfield, Massachusetts hired Woodard & Curran to design the Cate Springs Well PFAS Treatment System shortly after detecting levels of PFAS at concentrations above the 20.0 ppt MassDEP Office of Research and Standards Guideline Level. The team leveraged a 10-day Constant Diffusivity Rapid Small-Scale Column Test that simulated conditions and informed the design basis for the treatment system. This approach helped the team pre-procure the granular activated carbon vessels to meet the project owner's aggressive schedule and restore withdrawals from one of its largest drinking water supplies before peak summer 2022 demand.





2023 EEA Silver Award Winner

Pocasset River Dredging

Bourne, MA

BSC Group, Inc.

Overcoming decades of environmental challenges, safety concerns, projected cost overruns, and technological and physical barriers, the Town of Bourne successfully dredged the bottom of the Pocasset River. The innovative pilot project leveraged pond-dredging technology, a safe soil binding polymer, and permeable geotextile bags to contain the soil, minimize disruption to environment and community, and return clear water to the river. Results included minimal dewatering area, \$250,000 in construction cost savings, reduced sediment churn, increased navigable waters for recreation, and safe completion of the project after a 60-year wait. As a testament, three other towns are now considering implementing this approach.





2023 EEA Silver Award Winner

Ashuwillticook Rail Trail Extension

Pittsfield, MA

Fuss & O'Neill, Inc.

The Ashuwillticook Rail Trail Extension project provides a safe, ADA-compliant facility that provides users access to great recreational activities, as well as connection to commercial areas and places of employment. The complexity of the project rested within the coordination of the project team and components, including ROW challenges that included intricate land negotiations occurring during the peak of the COVID-19 pandemic, as well as extensive environmental permitting and restoration design work. The completion of the nearly 14-mile trail is a boon to commercial and recreational activities, while providing a safe, accessible transportation facility for all interested users.





2023 EEA Silver Award Winner

Acceler-8

Southborough & Westborough, MA

Gill Engineering Associates, Inc.

Using NEXTD beams was crucial to the success of the Acceler-8 I-90 Bridge Replacement project. This innovation reduced material and fabrication costs, diminished construction schedule risk, increased underside clearances, and allowed the successful use of single stem NEXTD beams. The challenge with this approach is that fabrication and erection tolerances had to be considered in the design of every element, and beam camber had to be closely monitored to ensure proper fit and geometry after fabrication. All key participants on this project, from Owner to Owner's Rep to Contractor or Precaster to Designers worked efficiently to make this project successful.





2023 EEA Silver Award Winner

I-91 Rockingham Bridges

Rockingham, VT

HDR Inc

The \$50 million I-91 Rockingham Bridges are the first four-span spliced precast concrete girder structure and are the last of three major bridge replacements on I-91 in Vermont. The design-build project uses one-of-a-kind elements and precast segments, raised with massive cranes, to expedite and simplify construction while overcoming a unique, unbalanced layout. The team constructed the wider, safer bridge atop a challenging topography; more than 130 feet above an environmentally critical river. The project team repurposed the old substructure as temporary supports for the new bridge, maintained traffic throughout construction, and surmounted VTrans' considerable slenderness requirements in this picturesque utopia.





2023 EEA Silver Award Winner

MassDOT Design Project No. 606518
Quincy-Burgin Parkway Access Road
Quincy, MA
McFarland-Johnson, Inc.

This new bridge and road project successfully created a unique access point that provides a gateway to a portion of Quincy that was badly in need of a makeover. The City is already seeing the benefits of the new access point with the construction of several new buildings within the revitalized Quincy Center. In particular, the planned SwitchPoint Quincy development to be located adjacent to the new roadway to the north is just one example of a new project that will bring much needed commercial development and jobs in support of the City's longstanding plans to revitalize Quincy Center.





2023 EEA Silver Award Winner

Wolf Swamp Fields

Longmeadow, MA

SLR International Corporation

SLR feels that the Wolf Swamp Fields Project in Longmeadow, Massachusetts is particularly well-suited for consideration in the 2023 ACEC-MA Engineering Excellence Awards competition. The town contracted with SLR to perform engineering studies, work with local stakeholders, and identify alternative concepts to improve field conditions to meet the demands of increased and more effective and efficient recreational use. The goal to complete the project with balance earthwork, and with 100% groundwater recharge was a challenge, but resulted in an efficient, cost-effective, and sustainable design. The client was very enthusiastic regarding the design and construction efforts completed by SLR.





2023 EEA Silver Award Winner

L1332-C3A B-DC and B-C Roadways

East Boston, MA

Stantec Consulting Services Inc.

The “B-DC and B-C Roadways Project” at Logan International Airport involved the construction a new two-level roadway between Terminals B and C to serve as enabling detour roads to facilitate the replacement of the existing roadway system, and providing a future HOV connector between terminals. The Design Team relied on Lean design and BIM technology for innovative and complex design development across multiple disciplines. The \$27M C3A contract was designed in just nine months and constructed in fourteen. Despite the Pandemic, the complex footprint project was delivered \$4.1M under budget, while meeting the owner’s and end user’s conditions of satisfaction.





2023 EEA Silver Award Winner

325 Main Street (Google HQ)
Cambridge, MA
VHB

To accommodate Google's growth in Cambridge, Massachusetts, this project team created a space that injected life into the public realm, maximized the site's development potential, and contributed to the building's targeted LEED Gold certification status. Through these efforts, the team fully realized the social, economic, and sustainable development opportunities at 325 Main Street in Kendall Square—an epicenter for innovation that neighbors MIT. With its unique and inviting lobby space and access to the MBTA headhouse and a rooftop garden, the building improves pedestrians' safety and connectivity while enhancing Kendall Plaza's visual appeal.





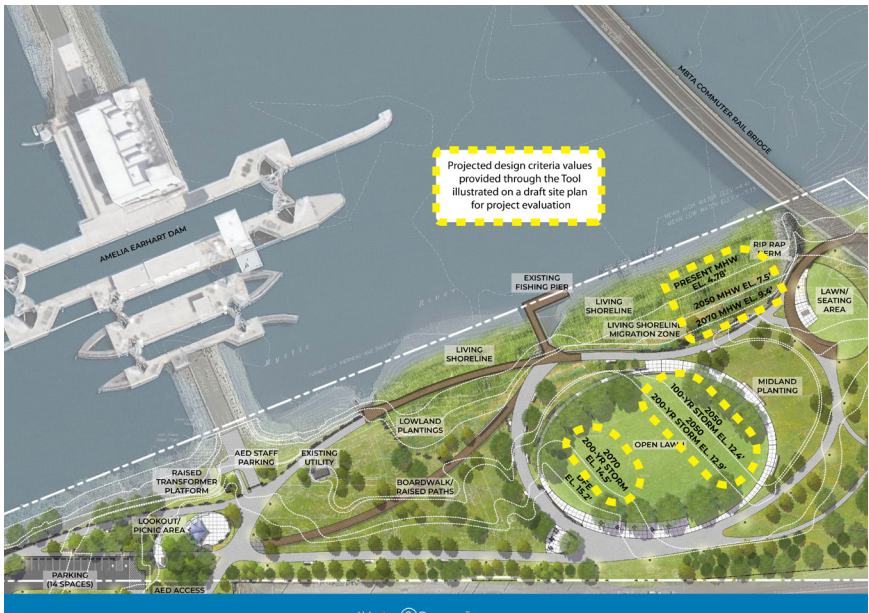
2023 EEA Silver Award Winner

Resilient MA Action Team (RMAT) Climate Resilience Design Standards Tool

Massachusetts, USA

Weston & Sampson Engineers, Inc.

The Resilient MA Action Team (RMAT) developed the Tool to make preliminary climate resilience analysis more broadly accessible; provide consistent, risk-based design standards recommendations; inform climate resilient capital planning and procurement; and provide a unified and automated online viewer that supports evaluation of projects. The outputs serve as a consistent basis-of-discussion for planning and early design of projects with physical assets in the Commonwealth. This first-of-its-kind Tool in the nation and supporting resources are free and accessible to the public and provide significant advancements in integrating climate resilience into the standard of care across the built, natural, and social environments.

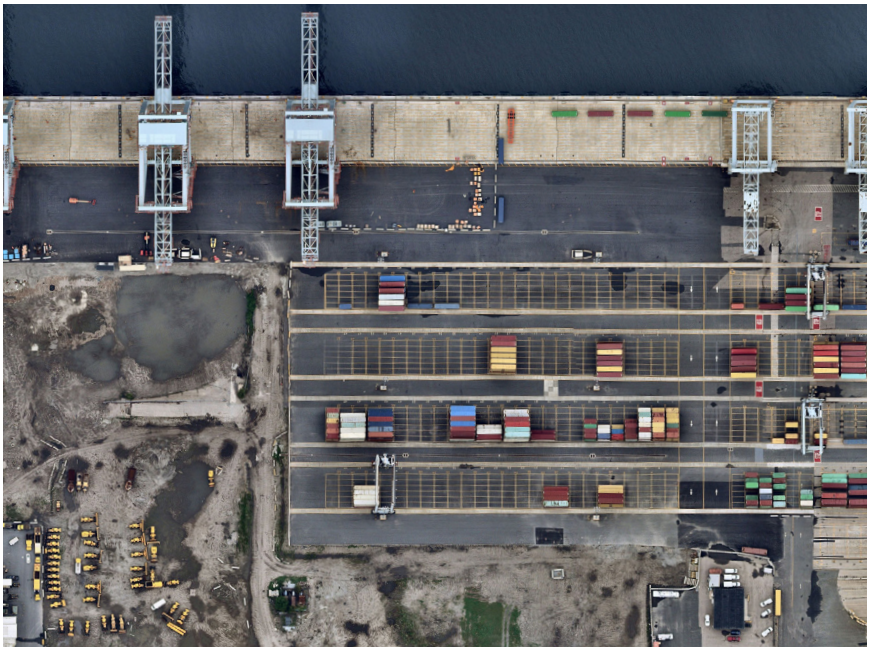




2023 EEA Finalist Award Winner

Conley Terminal Modernization – Berth 10
Boston, MA
GEI Consultants, Inc.

Massport's Conley Container Terminal is a vital economic asset for New England as its only deep-water, full-service container terminal. Augmenting it with a deep-water berth was essential for accommodating ultra-large "New Panamax" cargo vessels built after the Panama Canal expansion. The completion of Berth 10 made it possible for the Port of Boston to provide 1,300 linear feet of berthing and remain competitive on the world stage. Sustainable management of 91,000 cubic yards of contaminated soil, sediment, and construction materials reduced the project's impacts to the environment and surrounding community, exemplifying the merits of reclamation and reuse.





2023 EEA Finalist Award Winner

Crescent Street Over Millers River Bridge Replacement: Solving Engineering Challenges Through Successful Stakeholder Partnerships

Athol, MA

Green International Affiliates, Inc.

The Crescent Street Over Millers River Bridge sits within feet of the L.S. Starrett Company, the leading employer in Athol, Massachusetts. This bridge is woven into Starrett's operation, so its replacement was vital to its continued success. The project site was extremely tight, leading to complex design and construction challenges. We surmounted these challenges and responded quickly to unforeseen field conditions during construction to successfully deliver the replacement bridge to the satisfaction of all stakeholders. The project's success was achieved because of Green's design ingenuity and ability to develop a highly effective partnership among all stakeholders.





2023 EEA Finalist Award Winner

MBTA Tunnel Investigation

Boston, MA

Simpson Gumpertz & Heger

A partial collapse at the Government Center Garage in downtown Boston, Massachusetts, involved three concrete beams and a construction vehicle, impacting the ground directly over the MBTA's Green Line in the Haymarket Tunnel. Collapses are complicated, often tragic events, and the Haymarket Tunnel is a complex structure. With service halted, the MBTA needed to promptly understand the implications of the collapse. SGH responded quickly and creatively with a pragmatic approach, leveraging field observations, analyses of varying complexity, and proof testing to give the MBTA confidence that it was safe to resume Green Line train service.





2023 EEA Finalist Award Winner

Pavilion at Riverwalk

Lawrence, MA

TEC, Inc.

The Pavilion at Riverwalk is an innovative place-making project that solved difficult development and technical challenges. It is a one-of-a-kind community asset that serves to “raise up” the City of Lawrence while simultaneously delivering on the development needs for more parking and amenity space and public need for athletic fields for youth sports and access to the Merrimack River. It is a sustainable development, improving flood resilience and improving the cleanliness of stormwater. Blending new and old buildings on a historic mill property was challenging and unique and perhaps most importantly, it stimulates the imagination of the public.





2023 EEA Finalist Award Winner

Winona Pond Water Treatment Plant Upgrades

Boston, MA

Weston & Sampson

Weston & Sampson partnered with the City of Peabody to transform their 50-year-old Winona Water Treatment Plant into a contemporary facility that provides consumers with high quality water at rates among the lowest in the region. The innovative approach to retrofit the facility instead of building a new one saved the city approximately \$15M in construction costs, maintained resident operator jobs, and resulted in a project with a significantly reduced carbon footprint due to the prevention of 10 million pounds of demolition waste, avoidance of onsite tree clearing, and reduction of raw materials usage to construct a new plant.



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Professor,
University of Massachusetts
Amherst

Diana Tsang, AIA, LEED AP

Senior Associate,
Payette

Dave Socci

Senior Vice President of
Preconstruction,
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Town Engineer (Retired)
Town of Weston

Kevin Hardiman, PE

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Leadership Education Committee

Leadership Education

ACEC/MA offers several high quality courses for engineers, land surveyors, architects and other design professionals to develop their expertise in the business side of our field through our Leadership Education Committee. The individual courses are geared to different experience levels and often are presented by nationally recognized instructors in a local venue or on Zoom, allowing participants to stay engaged in their workload while building skills.

More on ACEC/MA Leadership Education Programs here:

<https://www.acecma.org/about/news/acec-ma-leadership-education-programs-4345>

ACEC/MA Education Corporation Golf Tournament

ACEC *Massachusetts* Education Corporation

September 11, 2023

Marshfield Country Club, Marshfield, MA

<https://bit.ly/ACECMA-EC-Golf2023>

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ACEC/MA Upcoming Events

April 13, 2023

ACEC/MA State Markets Conference 2023 @ MHA Conference Center, Burlington, MA
<https://www.acecma.org/events/acec-ma-state-markets-conference-2023-4599>

May 11, 2023

Engineers & Land Surveyors Day at the State House
<https://www.engineers.org/about/news/engineers-and-land-surveyors-day-at-the-state-house-waters-worth-it-day-4807>

May 17, 2023

ACEC/MA Energy & Utilities Conference 2023 @ MHA Conference Center, Burlington, MA
<https://www.acecma.org/events/acec-ma-energy-andamp-utilities-conference-2023-4600>

September 11, 2023

ACEC/MA Education Corporation Golf Tournament, Marshfield Country Club
<https://www.acecma.org/events/acec-ma-education-corporation-golf-tournament-2023-4809>

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