

2022 BSCES Section and Employer Recognition Award Nominations

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* Denotes BSCES Awards Committee recommended recipient

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I would like to nominate **Alex Bonnar** For the:

X

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PRE-COLLEGE EDUCATOR AWARD: This award is presented to a member of the K-12 educational community who integrates engineering topics, particularly civil engineering, in a manner that benefits the profession and may promote students to pursue an engineering career. The Public Awareness & Outreach Committee reviews these nominations and recommends the recipient to the Board.

CHARLES A. STONE AND EDWIN S. WEBSTER PROJECT OF THE YEAR AWARD: This award is presented to a BSCES member and her/his project team who has served in a major role on an innovative, challenging, unique, and/or complex project located in the Commonwealth of Massachusetts. The majority of the work should have been completed by engineers located within Massachusetts.

YOUNGER MEMBER AWARD: This award is intended to recognize a BSCES member, 35 years of age or younger on February 1 in the year of the award, who has made an outstanding contribution to BSCES and/or the civil engineering profession.

To submit a nomination, complete this form and return it by the nomination deadline via email, fax, or mail to bsces@engineers.org, 617/227-6783, or BSCES Awards Committee, Boston Society of Civil Engineers Section/ASCE, The Engineering Center, One Walnut Street, Boston, MA 02108-3616, respectively.

Name and Company Address of Nominee(s)*:

McNamara - Salvia, 101 Federal Street, Suite 1100, Boston MA 02110

bonnar@mcsal.com 617-850-4134

Is this a re-nomination? Yes _____ No **X** _____

***Please attach a brief (no more than one page) explanation of the candidate's qualifications for nomination.**

Your Name: Reed Brockman Daytime Telephone: 617-240-7979 Email: reed.brockman@aecom.com

NOTE: *If you nominated someone last year who was not selected, you may re-nominate the individual(s).*

QUESTIONS: *Contact BSCES Awards Committee Chair Katie Swanson at 312/780-7885 or Awards.Comm@bsces.org.*

Alex has been invaluable to the BSCES Public Awareness and Outreach Program for well over a decade. Aside from being among the lead people running the Model Bridge Contest, he also for many years ran the Ralph Salvucci Online Bridge Contest for the BSCES, and continues to work to bring that contest back to our community. He is also a talented craftsman, and created devices to better load the model bridges. Beyond this, Alex built a shake table for Legos, which is a perennial favorite for students participating in the BSCES' activities. Alex also perennially judges Future City, and whenever a volunteer is needed for any activity, Alex is always one of the first to step up.

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I would like to nominate Bruce Jacobs

For the:

☒

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Name and Company Address of Nominee(s)*:

Bruce Jacobs

Clark Road Brookline MA

Is this a re-nomination? Yes ☐ No ☒

***Please attach a brief (no more than one page) explanation of the candidate's qualifications for nomination.**

Your Name: Ronald Burns Daytime Telephone: 508-561-1611 Email: rburns@arcadia-tec.com

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BSCES 2022 Individual Section Award – Citizen Engineer Award

Nominee: Bruce Jacobs

Nominator: Ronald Burns

Nominee Qualifications for Citizen Engineer Award

I want to nominate Bruce Jacob for the Citizen Engineer Award. Bruce has been very active in non-profit volunteer organizations that have helped improve the image of the ASCES, BSCES and civil engineering profession. Bruce was BSCES president in 2020-2021 and very active in helping the organization cope with the difficulties of COVID. With his leadership the BSCES continued providing services to our members and the public through, numerous professional and public outreach events.

Also of note is Bruce's multi-year involvement with Engineers without Border Boston Professional Chapter(EWB-BPC). Bruce has served in several leadership roles at the chapter and is currently a vice president.

The following is taken from their mission statement: *"Engineers Without Borders USA was founded in 2002 with a simple goal: help small communities in the developing world meet basic infrastructure needs by connecting them with engineers with experience in those areas. Members collaborate with communities to find sustainable solutions for sanitation, water supply, agriculture, energy, and civil works.*

The Boston Professional Chapter of EWB (EWB-BPC) was created in 2005 to further this mission. We are a group of people from many different professions. Together, we strive to make the greater Boston area and the World a better, more sustainable place. The Boston Professional Chapter of EWB (EWB-BPC) was created in 2005 to further this mission. We are a group of people from many different professions. Together, we strive to make the greater Boston area and the World a better, more sustainable place."

The WEB-BPC chapter has worked on engineering projects to help underserved communities including the Wampanoag Indian tribe in Mashpee MA and villages of the Dodoma Region of Tanzania.

Bruce's work with EWB-BPC demonstrates the positive impact civil engineers have on people and their communities thereby improving the image of the civil engineering profession.

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I would like to nominate John T Germaine

For the:

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Name and Company Address of Nominee(s)*:

John T Germaine

Department of Civil and Environmental Engineering, Tufts University

200 College Avenue, Medford MA 02155

Is this a re-nomination? Yes _____ No X _____

***Please attach a brief (no more than one page) explanation of the candidate's qualifications for nomination.**

Your Name: Brendan Casey Daytime Telephone: 857-2910485 Email: bcasey@mbta.com

NOTE: *If you nominated someone last year who was not selected, you may re-nominate the individual(s).*

QUESTIONS: *Contact BSCES Awards Committee Chair Katie Swanson at 312/780-7885 or Awards.Comm@bsces.org.*

BSCES College Award - Nomination Explanation for Jack Germaine

By Brendan Casey, P.E.

Jack Germaine, or 'Dr. G' as he is affectionally known to his students, was my own teacher and research supervisor during the graduate studies in civil/geotechnical engineering at MIT. He is an exceptionally gifted teacher and his enthusiasm for the subject matter is easily apparent and passed on to his students. He has 35 years of teaching undergraduate and graduate level courses, focusing primarily on laboratory experiments and the theory behind them. In addition to being my own teacher and research advisor, I was a teaching assistant for several semesters for both undergraduate and graduate level classes taught by Jack. Always a favored teacher by his students, he routinely received the highest marks in student evaluations. Among his favorable undergraduate classes to teach was 'Mechanics of Structures and Soils' which involved performing experimentation to complement in-class lectures. This included, for example, fabricating a life-size reinforced concrete beam which was later subjected the 3-point bending in a large load frame to observe and measure the flexural capacity, which would be compared with the theoretically calculated beam capacity.

His achievements in teaching classes are complemented by his involvement in ASTM International's Committee D18 on Soil and Rock, where he was recognized as the 'ASTM Professor of the Year' in 2009. A technical committee consisting of over 1200 academic, industrial, commercial and government testing specialists that are responsible for more than 370 standards. In this capacity he contributes to the engineering profession through the authorship of standard test methods, guides and terminology.

Jack is now a research professor in the Civil & Environmental Engineering department at Tufts University where he established the Tufts Advanced Geosystems Laboratory and directs a large sponsored research program. Over the course of his long teaching career Dr. G has inspired countless students towards a fulfilling career in civil engineering.

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Name and Company Address of Nominee(s)*:

John T Germaine

Tufts University, Room 207A Anderson Hall

Medford, MA 02155

Is this a re-nomination? Yes ☐ No ☒

***Please attach a brief (no more than one page) explanation of the candidate's qualifications for nomination.**

Your Name: Nicholas Picardo Daytime Telephone: 8578953640 Email: npicardo@gmail.com

NOTE: *If you nominated someone last year who was not selected, you may re-nominate the individual(s).*

QUESTIONS: *Contact BSCES Awards Committee Chair Katie Swanson at 312/780-7885 or Awards.Comm@bsces.org.*

March 28, 2022

Katie Swanson
Awards Committee Chair
Boston Society of Civil Engineers Section

Re: 2022 Individual Section Award Nomination – John T Germaine

To Whom It May Concern,

I would like to nominate John T Germaine, Dr. G, for the 2022 BSCES College Educator Award. I decided to pursue my Master's Degree at Tufts University after working in the construction industry for 10 years. One of the first classes I enrolled in was In-Situ Measurement of Soil Properties, which was taught by Dr. G. No one doubts that Dr. G is an expert in his field, but his ability to break down complex concepts and explain them in a clear and concise manner is what sets Dr. G apart from other professors. My favorite parts of the course were the lab sections, where Dr. G passionately demonstrated the processes and procedures of several soil tests, data collection and interpretation of the results. His enthusiasm was passed on to all my fellow students in the classroom and lab.

After the course, I was fortunate enough to continue my work with Dr. G and his Geofluids Group, for which he is Co-Director. Dr. G helped me select an interesting research topic and went out of his way to assist in my research development. Throughout the process, he provided honest feedback and helpful suggestions to improve my research work and presentations.

I am confident I am speaking for many current and former students in saying that It has been a great experience to work with Dr. G and I hope you'll consider him for this prestigious award.

If there are any questions, please contact me at npicardo@gmail.com or 857-895-3640.

Respectfully,



Nicholas Picardo
Senior Construction Manager
Samuels & Associates
npicardo@gmail.com
857-895-3640

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Name and Company Address of Nominee(s)*:

Is this a re-nomination? Yes ☐ No ☒

***Please attach a brief (no more than one page) explanation of the candidate's qualifications for nomination.**

Your Name: Deniz Ranjipour Daytime Telephone: Email: dranjipour@gmail.com

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Dear BSCES Awards Committee,

I am writing to you to nominate my former PhD advisor, Dr. Jack Germaine for the 2022 College Educator award. Having worked with him for 5 years, his dedication to our field is impossible to miss. He is a researcher solely motivated by advancing science, and an educator focused on training the next generation of top notch geotechnical engineers. I personally cannot think of another professor that I have come across in my long academic journey, more deserving of this award than Dr. G (Dr. Germaine's nickname among his students)!

Warm regards,
Deniz Ranjpour

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Name and Company Address of Nominee(s)*:

Prof. Raj Kumar Gondle, Department of Civil and Environmental Engineering, University of Massachusetts Lowell, 140 Comm College Dr, Lowell, MA 01854
RajKumar_Gondle@uml.edu; Shah Hall 200L, Francis College of Engineering, One University Dr, Lowell, MA 01854

Is this a re-nomination? Yes ☐ No ☒

**Please attach a brief (no more than one page) explanation of the candidate's qualifications for nomination.*

Your Name: Dennis J. Doherty, P.E., F.ASCE Daytime Telephone: 603.320.6343 Email: DDoherty@kleinfelder.com

NOTE: *If you nominated someone last year who was not selected, you may re-nominate the individual(s).*

QUESTIONS: *Contact BSCES Awards Committee Chair Katie Swanson at 312/780-7885 or Awards.Comm@bsces.org.*

Subject: Nomination for BSCES College Educator Award

To the Selection Committee,

With 40+ years of professional experience and as a Fellow of American Society of Civil Engineers (ASCE), I am pleased to nominate **Prof. Raj Kumar Gondle** from the Department of Civil and Environmental Engineering (CEE) at the University of Massachusetts Lowell for the 2022 Boston Society of Civil Engineers Section (BSCES) College Educator Award. **Prof. Gondle has demonstrated excellence in teaching, innovative research, exceptional advising, and outstanding service to civil engineering profession.**

As a CEE Industry Advisory Board member and Past Chair of the North American Society for Trenchless Technology (NASTT) Northeast Regional Chapter, I would like to highlight Prof. Gondle's contributions and some of his accomplishments that qualify in earning my nomination:

- (1) Prof. Gondle delivers a wide range of classes every semester from Introduction to Civil & Environmental Engineering to graduate-level specialized courses in geotechnical engineering. It is quite impressive that he has offered 13 different CEE courses in past six years with 100+ sections and involved over 2000+ engineering students in his classes.
- (2) Prof. Gondle continuously develops new and innovative pedagogical initiatives and shares learning outcomes at college-level and university-level teaching workshops. His use of RealWear Augmented Reality (AR) into teaching hands-on geotechnical labs (during pandemic) is innovative and impressive. The use of AR in Engineering Education could revolutionize the curriculum across many universities. The RealWear Augmented Reality also has real world industry implications.
- (3) Principal Investigator of planned NSF-sponsored industry-university cooperative research center, "Center for Excellence", that is focused on trenchless technologies and underground engineering.
- (4) Prof. Gondle established the NASTT Student Chapter at UMass in Fall 2016 with strong support from the trenchless industry. As a Faculty Advisor, he has been motivational and instrumental in advancing the educational mission of the NASTT. He actively coordinates with industry to provide experiential learning to students through field site visits, conferences, scholarly publications, and guest lectures. Under his leadership and guidance, we were able to successfully host the 2016 inaugural Northeast Regional Conference and the launch of the Northeast Journal of Trenchless Technology Practices.
- (5) As a Faculty Advisor of the UMass Lowell's Concrete Canoe team, he has dedicated tremendous amount of time to ensure the team remains ranked as one of the best in the country. The team is awarded a National Precast Concrete Association (NPCA) scholarship to achieve their goals.
- (6) With support from BSCES, ASCE, NASTT, and engineering organizations, he involves engineering students on site visits like Greenline Extension (GLX) project and The Moles Student Day Tour. He helps students win competitive scholarships and honorary awards through his recommendations.

Prof. Gondle is passionate about getting engineering students excited early on in their careers with his optimistic and bold vision for student success. He is deeply committed to student learning, devoted to student clubs/chapters, and inspirational to UMass Lowell's student body. For his exemplary teaching and dedication towards student success, he was recognized with the **2020 Teaching Excellence Award** by the CEE department. Also, he is a recipient of the 2018 USUCGER Early Career fellowship and the **2017 ASCE's Excellence in Civil Engineering Education (ExCEED) fellowship**, which shows his commitment towards students entering the professional practice of Civil Engineering.

With above contributions in his favor, Prof. Raj Kumar Gondle is a deserving candidate for the 2022 BSCES College Educator Award. Therefore, I take this opportunity to strongly support his nomination.

Sincerely, Dennis J Doherty, P.E., F. ASCE

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I would like to nominate Dr. Raj Gondle For the:

_____ **CITIZEN ENGINEER AWARD:** This award is presented to a BSCES member or registered professional engineer for outstanding public involvement in local or national legislation, education (at any level), non-profit volunteer organizations, community activities, or similar activities improving the image of ASCE, BSCES and the civil engineering profession.

_____ **CLEMENS HERSCHEL AWARD:** This award recognizes an individual who has published a paper, not necessarily published in the BSCES Journal, that has been useful, commendable, and worthy of grateful acknowledgment. If nominating for the Clemens Herschel Award, please attach the name of the paper and names of all authors, if co-authored.

X _____ **COLLEGE EDUCATOR AWARD:** This award is presented to a member of the academic community who inspires and encourages civil engineering students through exceptional teaching and mentorship. Educators empower students to realize full potential and exemplify the profession in their classroom. Candidates shall be actively teaching in a classroom setting at a college or university in New England.

_____ **ENGINEER OF THE YEAR AWARD:** This award is presented to a BSCES member, with 15 years or more professional experience, who has exhibited extraordinary leadership in the form of managerial leadership, technical excellence, professional integrity, and mentorship of other engineers.

_____ **GOVERNMENT CIVIL ENGINEER AWARD:** This award is presented to a BSCES member who is serving as a paid public sector engineer at a federal, state, or municipal agency, department, or authority in Massachusetts.

_____ **HORNE/GAYNOR PUBLIC SERVICE AWARD:** This award is presented to a BSCES member or registered professional engineer for unpaid public service in a municipal, state or federal-elected or appointed post for philanthropic activities in the public interest.

_____ **JOURNALISM AWARD:** This award is presented to a journalist or other author who has published one or more articles, papers, books, social media blogs, or film for a non-technical audience that raises awareness of the contributions of the civil engineering profession.

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_____ **CHARLES A. STONE AND EDWIN S. WEBSTER PROJECT OF THE YEAR AWARD:** This award is presented to a BSCES member and her/his project team who has served in a major role on an innovative, challenging, unique, and/or complex project located in the Commonwealth of Massachusetts. The majority of the work should have been completed by engineers located within Massachusetts.

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Name and Company Address of Nominee(s)*:

Dr. Raj Gondle

1 University Ave

Lowell, MA 01854

Is this a re-nomination? Yes _____ No X

***Please attach a brief (no more than one page) explanation of the candidate's qualifications for nomination.**

Your Name: Liam Henderson Daytime Telephone: 9784085453 Email: liam.h.henderson98@gmail.com

NOTE: *If you nominated someone last year who was not selected, you may re-nominate the individual(s).*

QUESTIONS: *Contact BSCES Awards Committee Chair Katie Swanson at 312/780-7885 or Awards.Comm@bsces.org.*

To whom it may concern,

Please accept the following statement as justification for my support of Dr. Raj Gondle's nomination for the Boston Society of Civil Engineers Section (BSCES) College Educator Award:

In my first few weeks at the University of Massachusetts Lowell, I felt extremely out of place. I had picked my Civil Engineering major without really knowing what it was or what I could do with it. Professor Gondle was the first faculty member from the Civil Engineering department to reach out to me. He initiated the conversation by asking me how I was going to make the most of my time in college. At this point I was really only going to college because it's "*what you're supposed to do*", so I wasn't planning on doing anything more than what was required to get my degree and get out. When he saw this, he gave me advice that made me begin to think more seriously about how I wanted to shape my future. He suggested I get involved as soon as possible with clubs and organizations and invited me to go along with the NASTT student chapter to attend the Northeast Regional conference for the North American Society for Trenchless Technologies, which is where I found the career path I am on today.

What stands out most to me is how he emanates the same effort he expects to see from his students and has set a great example of dedication and hard work. There are many times I've witnessed him go above and beyond the call of duty as a professor to maintain interest and engagement among his students. Often staying late and coming in early, he demonstrated that real life requires hard work and dedication. As the faculty advisor for the NASTT student chapter, professor Gondle continues to show the same vigor and passion towards bettering the student population. It is apparent that he is driven by more than just a salary, he is truly invested in providing as many opportunities as possible. He personally introduced me to several board

members of the NASTT as well as several industry professionals. Currently he is working to establish a research center for trenchless technologies here at the university so other students will be provided chances to see different ways they can apply their degrees in the real world too.

Whenever he is working with students, he caters his approach based on the skills of the individual and works to improve areas of weakness while encouraging self-confidence. If it were not for the influence of Professor Raj Gondle, I would not be where I am today. His guidance opened my eyes to several opportunities for professional development and networking; and helped me to build a sound foundation of relationships to support my career. In the time it took for me to go from 'new member' to the President the student chapter, I had made several connections with industry leaders for job opportunities and was able to have a position secured well before graduation. Professor Gondle encouraged me to envision a future that suited me, and now I am living in it.

Liam Henderson, E.I.T.
Professional
Water Resources Team
lhenderson@kleinfelder.com

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I would like to nominate Joseph Allegro, Jr For the:

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x _____ **ENGINEER OF THE YEAR AWARD:** This award is presented to a BSCES member, with 15 years or more professional experience, who has exhibited extraordinary leadership in the form of managerial leadership, technical excellence, professional integrity, and mentorship of other engineers.

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Name and Company Address of Nominee(s)*:

Allegro Construction Services

11 Chestnut Square

Jamaica Plain, MA 02130

Is this a re-nomination? Yes _____ No x _____

***Please attach a brief (no more than one page) explanation of the candidate's qualifications for nomination.**

Your Name: Jack Wright Daytime Telephone: (617) 821-6931 Email: WrightJ@WSEinc.com

NOTE: *If you nominated someone last year who was not selected, you may re-nominate the individual(s).*

QUESTIONS: *Contact BSCES Awards Committee Chair Katie Swanson at 312/780-7885 or Awards.Comm@bsces.org.*

Nomination for ENGINEER OF THE YEAR AWARD

Joe Allegro has had a very distinguished career in Boston. He has contributed to transportation from both public and private sector perspectives. He has taken on roles like the Director of Construction for the Central Artery/Tunnel Project and been Chief Engineer of the MBTA. Over the past year, while sitting on Dispute Review Boards (DRBs) in other States, he has spent most of his time in a key role on the Green Line Extension Project. Along with his duties of championing the Partnering Program and managing the DRB Program, Joe assumed the responsibility of organizing the effort to obtain the Safety Certificate required for a new start transit service. The process requires approvals from State (DPU) and Federal (FTA) Oversight Agencies all well as many MBTA Departments. Joe showed the knowledge and work ethic to gain the trust of many people in responsible positions as well as the Contractors performing the work and testing. Joe's efforts cleared all hurdles to allow revenue service to start at the earliest possible date.

Jack Wright PE, CCM

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I would like to nominate

Po-Shang Chen

For the:

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X

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Name and Company Address of Nominee(s)*:

Po-Shang Chen, C&C Consulting Engineers, LLC, 1380 Soldiers Field Road, Boston MA 02135

p.chen@ccccllc.com 617-903-4500

Is this a re-nomination? Yes ☐ No ☒

*Please attach a brief (no more than one page) explanation of the candidate's qualifications for nomination.

Your Name: Reed Brockman Daytime Telephone: 617-240-7979 Email: reed.brockman@aecom.com

NOTE: If you nominated someone last year who was not selected, you may re-nominate the individual(s).

QUESTIONS: Contact BSCES Awards Committee Chair Katie Swanson at 312/780-7885 or Awards.Comm@bsces.org.

In every way, shape and form, Po-Shang represents all that makes an engineer excellent. He is an outstanding professor, runs a company with a stellar reputation, and above all is a compassionate and caring friend and mentor to much of our community. He encourages involvement in BSCES activities among all his staff. Whenever there is a BSCES training, you can count on Po-Shang to assure his staff is included. Beyond all this, there is likely nobody in the transportation engineering community who has a better handle on all the work being done and all the needs of each authority.

Each year, BSCES presents awards to deserving individuals in the Section or in the community who are nominated by their peers in recognition of their service. Here is your opportunity to nominate a co-worker, friend, or someone who you think deserves special recognition. Please see the following awards descriptions and nomination instructions.

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I would like to nominate

Dennis Reip

For the:

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X

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Name and Company Address of Nominee(s)*:

STANTEC, 45 Network Drive, 3rd Floor, Burlington MA 01803

Is this a re-nomination? Yes _____ No **X** _____

***Please attach a brief (no more than one page) explanation of the candidate's qualifications for nomination.**

Your Name: **Reed Brockman** Daytime Telephone: **617-240-7979** Email: **reed.brockman@aecom.com**

NOTE: If you nominated someone last year who was not selected, you may re-nominate the individual(s).

QUESTIONS: Contact BSCES Awards Committee Chair Katie Swanson at 312/780-7885 or Awards.Comm@bsces.org.

Aside from being active with the BSCES for years, and serving as a Principal at Stantec, Dennis Reip is also the chair of both the Boxborough Conservation Commission and the Community Preservation Committee. He has been active with the Boxborough Conservation Trust for at least the past 20 years. Purely as a volunteer, he gives a considerable amount of time annually to being a true leader in his community, using his skills as a civil engineer to assure the natural environment in his home community is well preserved.

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I would like to nominate Sean Murphy

For the:

_____ **CITIZEN ENGINEER AWARD:** This award is presented to a BSCES member or registered professional engineer for outstanding public involvement in local or national legislation, education (at any level), non-profit volunteer organizations, community activities, or similar activities improving the image of ASCE, BSCES and the civil engineering profession.

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Name and Company Address of Nominee(s)*:

Sean Murphy

Boston Globe 135 Morrissey Blvd. Boston, MA 02107

Is this a re-nomination? Yes _____ No ☒

***Please attach a brief (no more than one page) explanation of the candidate's qualifications for nomination.**

Your Name: Ronald Burns Daytime Telephone: 508-561-1611 Email: rburns@arcadia-tec.com

NOTE: *If you nominated someone last year who was not selected, you may re-nominate the individual(s).*

QUESTIONS: *Contact BSCES Awards Committee Chair Katie Swanson at 312/780-7885 or Awards.Comm@bsces.org.*

BSCES 2022 Individual Section Award – Journalism Award

Nominee: Sean Murphy

Nominator: Ronald Burns

Nominee Qualifications for Journalism Award

I want to nominate Sean Murphy for the Journalism Award. Mr. Murphy is Boston Globe staff reporter. He wrote a news article entitled: *A leaky oil tank could cost a young couple their dream home*. It appeared in the Globe on Feb. 20, 2022.

<https://www.bostonglobe.com/2022/02/20/business/leaky-oil-tank-could-cost-young-couple-their-dream-home//>

The article highlights the impact of leaking fuel oil tank at a young couple's home. The couple had 10-month-old baby at the time of leak. They had to leave the house for a week due to the fumes. The total estimated cleanup and replacement could cost over \$185,000. They have no insurance to cover this and will probably lose their house. The article goes on to give a global perspective of the large number of uninsured residential homeowners that are at risk. It also details the effort to get legislation passed that would make sure homeowners heating with fuel oil are insured against a leak.

A leaking residential oil tank is unfortunately not uncommon and civil engineers and other environmental professionals have seen the distress of the families when working on these projects. Mr. Murphy is to be commended for bringing this issue up to a wider audience that perhaps can help move the potential legislation forward.

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I would like to nominate **John Oliver** For the:

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GOVERNMENT CIVIL ENGINEER AWARD: This award is presented to a BSCES member who is serving as a paid public sector engineer at a federal, state, or municipal agency, department, or authority in Massachusetts.

HORNE/GAYNOR PUBLIC SERVICE AWARD: This award is presented to a BSCES member or registered professional engineer for unpaid public service in a municipal, state or federal-elected or appointed post for philanthropic activities in the public interest.

X

JOURNALISM AWARD: This award is presented to a journalist or other author who has published one or more articles, papers, books, social media blogs, or film for a non-technical audience that raises awareness of the contributions of the civil engineering profession.

PRE-COLLEGE EDUCATOR AWARD: This award is presented to a member of the K-12 educational community who integrates engineering topics, particularly civil engineering, in a manner that benefits the profession and may promote students to pursue an engineering career. The Public Awareness & Outreach Committee reviews these nominations and recommends the recipient to the Board.

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To submit a nomination, complete this form and return it by the nomination deadline via email, fax, or mail to bsces@engineers.org, 617/227-6783, or BSCES Awards Committee, Boston Society of Civil Engineers Section/ASCE, The Engineering Center, One Walnut Street, Boston, MA 02108-3616, respectively.

Name and Company Address of Nominee(s)*:

Last Week Tonight With John Oliver, 524 West 57th Street New York, NY 10019

Is this a re-nomination? Yes _____ No **X** _____

***Please attach a brief (no more than one page) explanation of the candidate's qualifications for nomination.**

Your Name: Reed Brockman Daytime Telephone: 617-240-7979 Email: reed.brockman@aecom.com

NOTE: *If you nominated someone last year who was not selected, you may re-nominate the individual(s).*

QUESTIONS: *Contact BSCES Awards Committee Chair Katie Swanson at 312/780-7885 or Awards.Comm@bsces.org.*

John Oliver has for years brought attention to issues of the highest importance to the civil engineering community, and this year he put together multiple stories to better inform the world on such topics. He did one episode on the danger of PFA's. Another was on single use plastics and their effect on civilization. His attention to detail is incredible, and even when a topic sounds complicated, he manages to discuss it in a way that is relatable to all viewers. John Oliver is always one of the few to cite facts from the ASCE report cards.

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I would like to nominate

John Walker

For the:

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Name and Company Address of Nominee(s)*:

John Walker, Boston Latin School, 78 Avenue Louis Pasteur, Boston MA 02115

jwalker2@bostonpublicschools.org

Is this a re-nomination? Yes ☐ No ☒

**Please attach a brief (no more than one page) explanation of the candidate's qualifications for nomination.*

Your Name: **Reed Brockman** Daytime Telephone: **617-240-7979** Email: reed.brockman@aecom.com

NOTE: If you nominated someone last year who was not selected, you may re-nominate the individual(s).

QUESTIONS: Contact BSCES Awards Committee Chair Katie Swanson at 312/780-7885 or Awards.Comm@bsces.org.

John Walker teaches at Boston Latin School. BLS is one of the original teams in the BSCES Model Bridge Contest, and for decades this effort was led by Maggie Greaves, who retired several years ago. Through the past couple years, while other schools struggled to keep students interested in classroom learning, let alone an after-school activity, Mr. Walker oversaw the BLS students as they pulled together just as strong entries in the contest as they ever have.

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I would like to nominate AECOMs Bridge and Tunnel Inspection Group For the:

_____ **CITIZEN ENGINEER AWARD:** This award is presented to a BSCES member or registered professional engineer for outstanding public involvement in local or national legislation, education (at any level), non-profit volunteer organizations, community activities, or similar activities improving the image of ASCE, BSCES and the civil engineering profession.

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Name and Company Address of Nominee(s)*:

Reed Brockman, AECOM 1 Federal St 8th Fl. Boston, MA 02110

Is this a re-nomination? Yes _____ No X

***Please attach a brief (no more than one page) explanation of the candidate's qualifications for nomination.**

Your Name: Gregory Mirliss Daytime Telephone: _____ Email: greg.mirliss@aecom.com

NOTE: *If you nominated someone last year who was not selected, you may re-nominate the individual(s).*

QUESTIONS: *Contact BSCES Awards Committee Chair Katie Swanson at 312/780-7885 or Awards.Comm@bsces.org.*

Over the last year AECOM's inspection group has inspected some of the state's most complex bridges and tunnels. Needing to utilize special access equipment, advanced technology, and work through all sorts of weather day and night.

Through the MassDOT Complex Bridge Project, AECO performs in-service NBIS inspections of bridges designated by MassDOT as complex in nature due to one of the following reasons: complexity of design, challenging access, and/or need for special equipment.

Through training, field experience and teamwork, as well as a vast range of combined experience in bridge inspection, design, and load rating, AECOM has developed and practices a holistic approach to bridge inspections.

Through the inspections AECOM identifies deficiencies to initiate maintenance activities and/or rehabilitation/reconstruction. Additionally ensure the safety of the traveling public.

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I would like to nominate Robert Street Bridge Replacement Project For the:

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Name and Company Address of Nominee(s)*:

Robert Street Bridge Replacement Project

Robert Penfield, PE, Andrew Burkholder, PE, Kelsey Munns, PE | VHB, 101 Walnut Street, Watertown, MA 02472

Is this a re-nomination? Yes _____ No x _____

***Please attach a brief (no more than one page) explanation of the candidate's qualifications for nomination.**

Your Name: Sabrina Bauer Daytime Telephone: 617.607.1893 Email: sabrinabauer@VHB.com

NOTE: *If you nominated someone last year who was not selected, you may re-nominate the individual(s).*

QUESTIONS: *Contact BSCES Awards Committee Chair Katie Swanson at 312/780-7885 or Awards.Comm@bsces.org.*

Robert Street Bridge Replacement, Roslindale, MA

We are pleased to nominate the Robert Street Bridge Replacement project for the BSCES Charles A. Stone and Edwin S. Webster Project of the Year Award. Embodying a unique engineering success, this challenging project was delivered by a collaborative project team that included the Massachusetts Bay Transportation Authority (MBTA) and its Project Manager Mike Ryan; contractor Barletta Heavy Division; lead engineer VHB providing bridge, track, and roadway engineering, traffic control design, environmental permitting, and construction phase services; Nobis Engineering, Inc. providing geotechnical design; Green International, Inc. providing survey; and Keville Enterprises providing project controls.

Constructed in 1898 and having undergone a previous rehabilitation in 1985, the Robert Street Bridge served the public well beyond its intended design life, carrying commuter rail passengers along the MBTA's Needham Line. Inspection reports confirmed the structure was approaching the end of its useful life. To maintain the state of good repair of its infrastructure and provide safe and efficient transportation for transit riders, the MBTA made the timely decision to replace the Robert Street Bridge.

Engineering has always been about solving problems, and the Robert Street Bridge's location in the bustling Boston neighborhood of Roslindale made this an exceptionally demanding project from an engineering standpoint. The project had the potential to make substantial negative economic and social impacts on the community by disrupting access to local businesses already struggling amidst the COVID-19 pandemic, as well as by inconveniencing the traveling public. Adding further complexity to the project, with the corner of the Roslindale Village's rail station platform only two feet away from the rear of one of the bridge's abutments, any impacts to the platform could have necessitated a full replacement of the entire station, which was not supported by the project budget.

Working closely with the MBTA and employing Accelerated Bridge Construction (ABC) techniques, VHB's engineers designed a highly creative solution for replacing this century-old bridge with just one weekend of interruption to rail traffic and without impacting the rail station platform. The new bridge superstructure was assembled adjacent to the existing bridge above the roadway on temporary supports, allowing both the commuter rail and the roadway below to operate normally. Over the weekend of June 4, 2021, the existing bridge was demolished, and the new bridge was lifted and moved into place using two large-capacity self-propelled modular transporters (SPMTs). With only a weekend closure required for the work, the project team effectively mitigated what could have been a significant impact to rail and roadway traffic.

The VHB project team's ingenious foundation construction design not only preserved the Roslindale Village rail station platform immediately adjacent to the bridge, but also allowed the station to remain open for the project's duration, aside from the weekend closure. Using micropiles installed both through and in front of the granite block abutment and topped with a precast concrete cap, the foundation layout enabled the new bridge to be supported without any impact to the platform. To support possible future rail expansion without having to rebuild the bridge, the VHB team designed the new bridge foundations to accommodate a potential twin superstructure. This forward-thinking approach will facilitate any possible upgrades to the bridge within the right-of-way—without having significantly impacted the cost of this project.

Given its proximity to downtown Roslindale, the Robert Street Bridge Replacement project drew a large amount of interest from the public. VHB's team worked diligently to involve the community by holding interactive meetings that attracted large turnouts. In considering the design of the new bridge, the team prioritized reflecting the aesthetic of the entrance to the downtown Roslindale Village area, which was important to the community.

By thoughtfully and creatively considering each obstacle in this remarkably complex and context-sensitive project, the VHB team delivered a truly cost-effective design solution for the replacement of the Robert Street Bridge that met the needs of the MBTA, the Roslindale community, and the traveling public and will continue to do so for years to come.



Robert Street Bridge, Roslindale, MA



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I would like to nominate Andrew Giocondi, PE, ENV SP

For the:

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Name and Company Address of Nominee(s)*:

Skanska McCourt II JV, 1365 Main Street, Waltham, MA 02451

Is this a re-nomination? Yes ☐ No ☒

***Please attach a brief (no more than one page) explanation of the candidate's qualifications for nomination.**

Your Name: Paul Pedini Daytime Telephone: 617-218-5888 Email: paul.pedini@skanska.com

NOTE: *If you nominated someone last year who was not selected, you may re-nominate the individual(s).*

QUESTIONS: *Contact BSCES Awards Committee Chair Katie Swanson at 312/780-7885 or Awards.Comm@bsces.org.*

Chelsea/Route 1 Viaduct Rehabilitation

Chelsea, Massachusetts

The Chelsea Viaduct carries 84,000 vehicles per day on US Route 1 through Chelsea from the County Road Overpass to the Tobin Bridge. Originally constructed in the 1950s, the viaduct has 76 spans that traverse over several local streets and the MBTA commuter rail/busway. The project limits span 4,000' along Route 1, which is a primary route into Boston for commuters from the north shore and carries MBTA Bus Route 111, the 3rd largest MBTA bus route serving 11,800 passengers per weekday.

The \$190M project included rehabilitation of the Chelsea Viaduct, the reconstruction of associated on/off ramps, the rehabilitation of a portion of the Tobin Bridge upper deck, and improvements to parking lots and surface streets below the viaduct. The project addressed structural deficiencies and provided a new 75-year design life. The substructure was repaired and retrofitted to support regulatory weight requirements for the new structure. Existing steel columns were blasted and encased with new concrete piers. The bridge superstructure was demolished and rehabilitated using accelerated bridge construction (ABC) techniques. Existing spans were replaced with a combination of 313 PBUs (the most ever installed on one job in the region), 198 grid deck panels, and 124 paired frames for isolated spans constructed using conventional cast-in-place methods. Several 55-hour weekend shutdowns were required to demolish and rebuild the most challenging portions of the viaduct. Work also included installing new crash-tested bridge barriers, snow fences, roadway lighting, fire standpipe, and bridge drainage; rebuilding an existing parking lots under the viaduct as well as adding a new parking lot. Strong collaboration with the neighborhood allowed this substantial project to be a success while working in one of the most densely populated communities in the country. The completion of this project contributed to the replacement of 15% of the structurally deficient bridge decks in the Commonwealth of Massachusetts.

The Skanska McCourt II Joint Venture (SMJV) focused their innovative project approach on eliminating risk and providing value to the client and public. Although this project was design-bid-build, the SMJV team worked together with MassDOT's design team to develop and implement several substantial design changes. BIM/VDC was used to de-risk the project before it started as well as during construction.

SMJV completely changed the means and methods of the job. The project was originally designed to be built from atop the highway at night one PBU at a time in temporary work zones established in a zipper barrier. In addition, the already deteriorated existing

structure required extensive under deck bracing to accommodate construction and traffic loads. SMJV modeled the existing configuration and reinvented the construction sequence which allowed for the creation of safer permanent work zones that were accessible during the day. This positively impacted the traveling public and abutters by eliminating two years of noisy night work. Resequencing also reduced the number of work zones and almost entirely eliminated under deck bracing (see supplement for animation).

Being a rehabilitation project, SMJV focused on the relationship between the new and existing structures. Multiple surveys methods (LIDAR) were used to ensure constructability. These efforts uncovered significant differences between the actual and the design location of the columns. This rendered a key structural connection of the proposed design unachievable. SMJV created an alternate connection detail and collaborated with MassDOT to implement the change that saved the project schedule from a major redesign delay. Furthermore, the team ensured constructability by building a Level 400 3D model of the superstructure connections using 2D coordinate data, which revealed that the sister beams for 15 bridge bents were designed low by approximately 6 inches. This discrepancy, which could have caused a significant schedule delay, was detected and corrected before fabrication (see supplement for animation).

The complexity of this project may go unnoticed because of how quickly and smoothly it was completed. Throughout a short, 24-month duration, the $\frac{3}{4}$ -mile viaduct superstructure was demolished and reconstructed. The team worked three shifts around the clock, completing over 600 critical crane picks, to complete this high-profile project. The construction sequence was dissected and restructured numerous times to mitigate schedule impacts from the initial structural connection redesign and the impacts of the COVID-19 global pandemic. Through all the challenges, SMJV was able to deliver Full Beneficial Use of the critical Southbound viaduct on time (just 5 days behind the original milestone date).

Roads & Bridges magazine named the project one of their 2021 Top 10 Roads (see supplement).

Andrew Giocondi, PE, ENV SP (BSCES member and former Construction Institute Chair) served as Project Manager for this project. Andrew is an active member of the BSCES Construction Institute. At the conclusion of the Chelsea Viaduct Rehabilitation project, he organized a BSCES event, which consisted of an outdoor presentation and site tour of the project to accommodate COVID protocols. It was BSCES' first in-person event in over a year.



Supplemental Information



Supplemental Information



Before and after aerial views from the north looking south towards Boston.



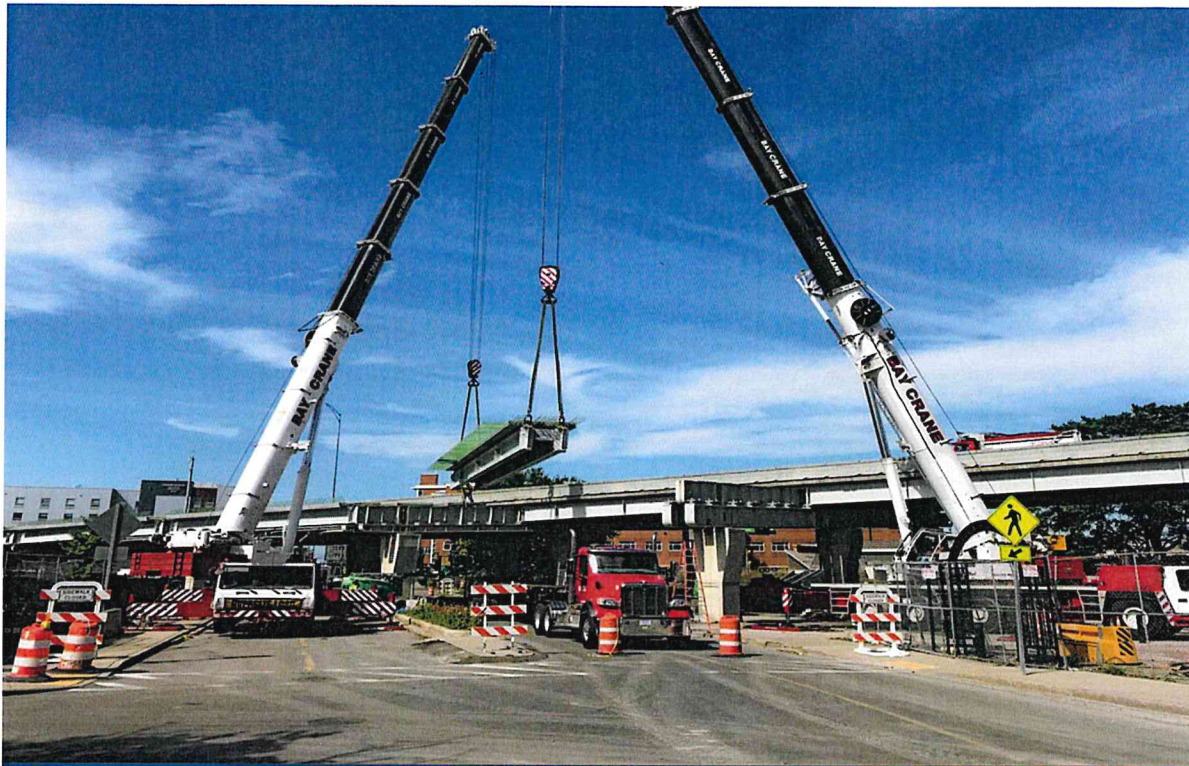
Supplemental Information



Chelsea Middle School Parking Lot H before and after construction photos.



Supplemental Information



PBU Erection (Above)
Finished Substructure Construction (Below)



Supplemental Information



Pier 1 to Pier 2 over the MBTA before and after construction photos.



Supplemental Information

View looking south as Route 1 Northbound and Southbound split to meet the Tobin Bridge over 5th Street and Arlington Street.



View looking south as the viaduct passes over Spruce Street.

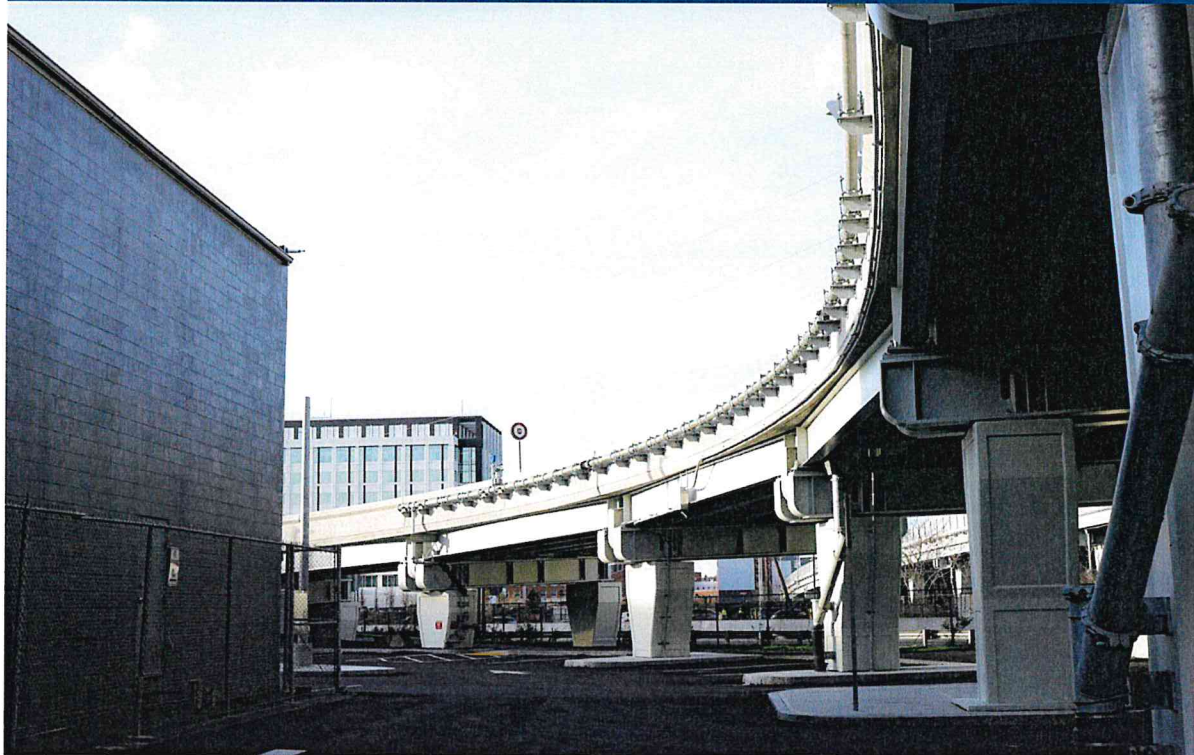


Supplemental Information

View looking north as the viaduct passes over Carter Street adjacent to the Chelsea High School.

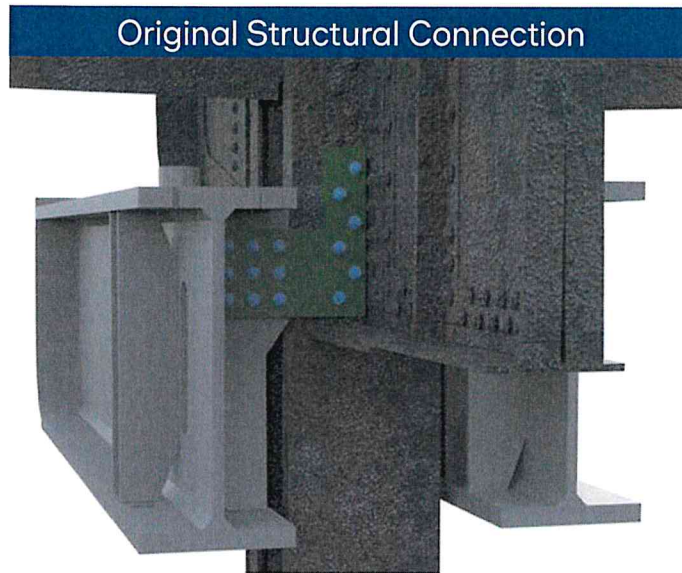


Ramp A taking vehicles from Arlington & 5th Street onto Route 1 Southbound.

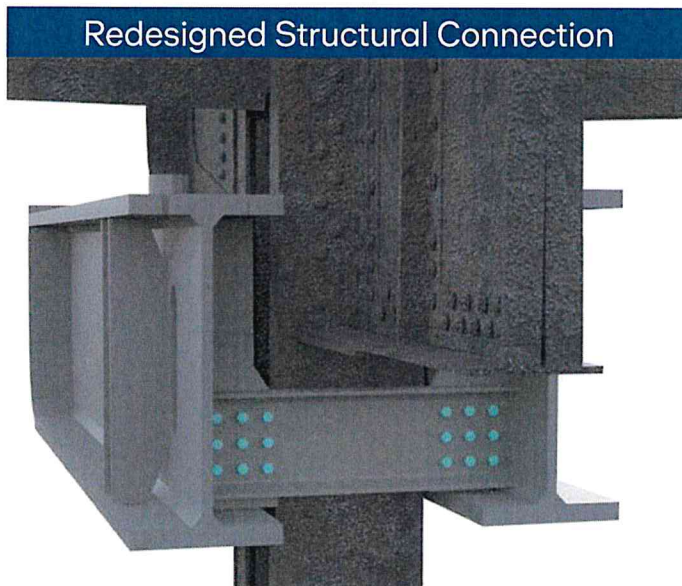


Supplemental Information

Original Structural Connection



Redesigned Structural Connection



The project went over 600 days without a lost-time incident and exceeded the 10% DBE participation goal, achieving 14.2%.



Supplemental Information

Click on each animation to play. Animations may be slow to load due to the large file size.

Construction Sequencing Animation

The Chelsea Viaduct Rehabilitation Alternate Sequencing Development



Sister beam conflict detection progression animation detailing the VDC/BIM process employed to solve design issues/conflicts.





TOP 10 ROADS

TOP ROAD #6

REHABBITING A MAJOR ARTERY

Accelerated techniques paid off

PROJECT: Chelsea: U.S. 1 NB/SB Viaduct Rehabilitation

LOCATION: Chelsea, Massachusetts

OWNERS: Massachusetts Department of Transportation – Highway Division

DESIGNER: HNTB Corp.

CONTRACTOR: Skanska-McCourt, Joint Venture

COST: \$169,371,930 (Low Bid)

LENGTH: 4,011 ft (0.76 miles)

COMPLETION DATE: Nov. 1, 2021

► THIS PROJECT WAS CHALLENGING.

Faced with an aging inventory of structures, the Massachusetts Department of Transportation Highway Division partnered with HNTB to tackle a long stretch of elevated viaduct running through the heart of Chelsea, north of Boston. The viaduct had fallen into disrepair and had caused congestion and vehicle incidents because of the structural deficiencies.

The \$170 million project was designed in 18 months, and now, with a substantial amount completed after 30 months of construction, MassDOT's Chelsea Viaduct replacement project serves to showcase accelerated design and construction techniques, as well as how the team's collaborative environment led to the successful removal of nearly 300,000 sq ft of bridge deck area from the state's deficient list.

It consisted of two separate viaduct sections carrying U.S. Route 1 northbound and southbound from County Road Overpass to the Tobin Bridge, passing over several local roads and the Massachusetts Bay

Transportation Authority (MBTA) commuter rail. The team chose to take an accelerated rehabilitation and replacement design approach, but that was difficult because of the age and detailing from circa-1950s construction, coupled with a complex superelevated geometry over horizontally curved roadway sections.

Moreover, U.S. Route 1 is a major artery to downtown Boston. MassDOT mandated that impacts to traffic and roadway closures be minimized or avoided to the maximum extent practicable, and for designs to incorporate accelerated techniques to reduce overall construction duration on the heavily traveled corridor.

MassDOT had also advanced an adjacent major project to repair and rehabilitate the Tobin Bridge carrying traffic at the southern end of the project. Each project was tasked with additional design and construction coordination to ensure a consistent, accelerated schedule, as well as a uniform sequencing for efficient traffic management through the overlapping work zones. **R&B**



Charles D. Baker, Governor
Karyn E. Polito, Lieutenant Governor
Jamey Tesler, Secretary & CEO
Jonathan L. Gulliver, Highway Administrator



February 16, 2022

CONSTRUCTION

Chelsea - Viaduct Bridge Repairs and Related Work (Including Painting) Bridge No. C-09-007 & C-09-011
(Steel) Route 1 over Various Streets and the MBTA Commuter Rail
Project Number: 605287
Contract Number: 104677

Skanska McCourt II JV
1365 Main Street
Waltham, MA 02451
Attn: Mr. Robert Pine, Vice President

Subject: Chelsea Viaduct Bridge Repairs and Related Work Project - Recommendation Letter

Dear Mr. Pine,

On behalf of the Massachusetts Department of Transportation (MassDOT) District 6 Construction, I would like to acknowledge the Skanska McCourt II JV (SMJV) team for the very successful execution of the Chelsea Viaduct Rehabilitation Project.

The Chelsea Viaduct Rehabilitation Project was an undertaking that presented a great deal of risk for MassDOT. The extremely aggressive schedule and complexity of the work made this project very challenging. SMJV's innovative approach to resequencing the work and effective project execution was key to its success and a great benefit to the various stakeholders, motoring public, and the surrounding community/abutters.

The entire project team engaged in an open collaborative process to tackle a multitude of challenges. SMJV exhibited a commitment to the project success throughout the construction phase and the team overcame significant technical and schedule challenges, yet coordinated the work successfully with the many stakeholders.

SMJV was a valuable partner and managed the work in accordance with our highest standards. The project was completed on schedule and within budget, safely with a high level of quality. Overall, it was a very positive experience working with the SMJV team and we look forward to working with SMJV on future MassDOT projects.

If you have any questions concerning this matter, please contact James O'Leary, Assistant District Construction Engineer at 857-368-6204.

Sincerely,

Steven Capasso,
Construction Engineer – District 6/MHS

cc: J. McNemey-MDOT DHD; J. O'Leary-MDOT ADCE; M. Yeb-MDOT AE; C. Noailles-MDOT RE;
J. Paul-MDOT OR; Project File

District 6 Construction Office
185 Kneeland Street, Boston, MA 02111
Tel: 857-368-6200, Fax: 857-368-0116
www.mass.gov/massdot

Leading the Nation in Transportation Excellence



CITY OF CHELSEA, MA
Office of the City Manager

City Hall, 500 Broadway, Room 302 · Chelsea, MA 02150
Phone: 617.466.4100 · Fax: 617.466.4175 · Email: tambrosino@chelseama.gov

Thomas G. Ambrosino
City Manager

February 10, 2022

Mr. Paul Pedini, Senior Vice President
Skanska USA
1365 Main Street
Waltham, Massachusetts 02451

Attention: Robert Pine, Vice President of Operations

Re: *The Chelsea Viaduct Rehabilitation Project*

Dear Mr. Pedini:

On behalf of the City of Chelsea, I am writing to thank the Skanska McCourt II JV (SMJV) team for its cooperative partnership on the Chelsea Viaduct Rehabilitation Project.

MassDOT's Chelsea Viaduct Rehabilitation Project represented one of the largest construction projects completed in the City of Chelsea in quite some time. At its commencement, the City had significant concerns regarding the disruption construction would cause to the traveling public and the surrounding neighborhoods. Our City is one of the most densely populated communities in the nation, and a collaborative approach was necessary to complete a project of this magnitude and complexity.

The SMJV team focused on the needs of our City and our residents leading up to and during the project. They took a proactive approach to ensure open and transparent communication. A multitude of public information meetings held in English and Spanish allowed the team to connect with our diverse community. The project also offered a project website/email to keep residents up to date as well as a 24-hour hot line for construction complaints. The SMJV team was quite responsive and typically addressed concerns in a timely fashion.

The project team also interacted regularly with our School Department given the project's direct impacts upon Chelsea High School and the Williams Middle School Complex. Reconstruction of the Viaduct occurred directly over parking lots critical to the operation of both schools. SMJV engaged Chelsea Schools early in the process to understand their needs. The team was able to minimize the disruption by focusing on accommodating important events such as Graduation Day. SMJV's willingness to adjust work schedules and work zones for the community was commendable.

I very much appreciated the partnership with SMJV on this project. We look forward to working with Skanska in the future.

Sincerely,

Thomas G. Ambrosino
City Manager

Each year, BSCES presents awards to deserving individuals in the Section or in the community who are nominated by their peers in recognition of their service. Here is your opportunity to nominate a co-worker, friend, or someone who you think deserves special recognition. Please see the following awards descriptions and nomination instructions.

The Nominations Deadline has been extended until **Monday, March 28, 2022**. The Awards Committee will review all nominations and present a list of candidates for selection by the Board of Government. Awards will be presented at the 173rd BSCES Annual Awards Celebration.

I would like to nominate

Chelsea Hoplin

For the:

CITIZEN ENGINEER AWARD: This award is presented to a BSCES member or registered professional engineer for outstanding public involvement in local or national legislation, education (at any level), non-profit volunteer organizations, community activities, or similar activities improving the image of ASCE, BSCES and the civil engineering profession.

CLEMENS HERSCHEL AWARD: This award recognizes an individual who has published a paper, not necessarily published in the BSCES Journal, that has been useful, commendable, and worthy of grateful acknowledgment. If nominating for the Clemens Herschel Award, please attach the name of the paper and names of all authors, if co-authored.

COLLEGE EDUCATOR AWARD: This award is presented to a member of the academic community who inspires and encourages civil engineering students through exceptional teaching and mentorship. Educators empower students to realize full potential and exemplify the profession in their classroom. Candidates shall be actively teaching in a classroom setting at a college or university in New England.

ENGINEER OF THE YEAR AWARD: This award is presented to a BSCES member, with 15 years or more professional experience, who has exhibited extraordinary leadership in the form of managerial leadership, technical excellence, professional integrity, and mentorship of other engineers.

GOVERNMENT CIVIL ENGINEER AWARD: This award is presented to a BSCES member who is serving as a paid public sector engineer at a federal, state, or municipal agency, department, or authority in Massachusetts.

HORNE/GAYNOR PUBLIC SERVICE AWARD: This award is presented to a BSCES member or registered professional engineer for unpaid public service in a municipal, state or federal-elected or appointed post for philanthropic activities in the public interest.

JOURNALISM AWARD: This award is presented to a journalist or other author who has published one or more articles, papers, books, social media blogs, or film for a non-technical audience that raises awareness of the contributions of the civil engineering profession.

PRE-COLLEGE EDUCATOR AWARD: This award is presented to a member of the K-12 educational community who integrates engineering topics, particularly civil engineering, in a manner that benefits the profession and may promote students to pursue an engineering career. The Public Awareness & Outreach Committee reviews these nominations and recommends the recipient to the Board.

CHARLES A. STONE AND EDWIN S. WEBSTER PROJECT OF THE YEAR AWARD: This award is presented to a BSCES member and her/his project team who has served in a major role on an innovative, challenging, unique, and/or complex project located in the Commonwealth of Massachusetts. The majority of the work should have been completed by engineers located within Massachusetts.

x

YOUNGER MEMBER AWARD: This award is intended to recognize a BSCES member, 35 years of age or younger on February 1 in the year of the award, who has made an outstanding contribution to BSCES and/or the civil engineering profession.

To submit a nomination, complete this form and return it by the nomination deadline via email, fax, or mail to bsces@engineers.org, 617/227-6783, or BSCES Awards Committee, Boston Society of Civil Engineers Section/ASCE, The Engineering Center, One Walnut Street, Boston, MA 02108-3616, respectively.

Name and Company Address of Nominee(s)*:

GEI Consultants, Inc.

400 Unicorn Park Drive

Woburn, MA 01801

Is this a re-nomination? Yes _____ No x

***Please attach a brief (no more than one page) explanation of the candidate's qualifications for nomination.**

Your Name: Laureen M. Beintum Daytime Telephone: 781-721-4022 Email: lbeintum@geiconsultants.com

NOTE: *If you nominated someone last year who was not selected, you may re-nominate the individual(s).*

QUESTIONS: *Contact BSCES Awards Committee Chair Katie Swanson at 312/780-7885 or Awards.Comm@bsces.org.*



Consulting
Engineers and
Scientists

April 5, 2022

Ms. Kathryn Swanson
BSCES Awards Committee
Boston Society of Civil Engineers Section/ASCE
The Engineering Center
One Walnut Street
Boston, Massachusetts 02108-3616

Dear Ms. Swanson:

Re: Nomination for 2022 BSCES Younger Member Award

Please accept my nomination of Chelsea Hoplin for the 2022 BSCES Younger Member Award. I have known Chelsea since she joined GEI Consultants in 2016 and have served as her supervisor since 2021. Chelsea is a key member of GEI's Boston Geotechnical and Design division, providing primarily geotechnical support over the last several years. She supports not only our Boston branch, but also our New York and Dallas branch offices. She is instrumental in assisting project managers in delivering quality work products to our clients, and training and mentoring younger staff at GEI. She was recently promoted to Project Manager in February 2022.

Aside from being a key member of our team at GEI, Chelsea is also very active in many professional organizations. Chelsea has been an active member of BSCES since 2016, volunteering her time as social coordinator for the Younger Members Group (YMG) since July 2018. She has been very active in Structural Engineers Association of Massachusetts (SEAMASS) since October 2017, most notably serving as vice president, chair, and past chair from 2018-2022. She is also a member of the Deep Foundations Institute (DFI) Women in Deep Foundations (WiDF) Committee and is a mentor for the Architecture Construction Engineering (ACE) Mentor Program.

Chelsea is dedicated and passionate about both her career and collaborating with others in the civil engineering industry and has a bright future ahead of her. She is an ideal candidate for this award and I hope you consider choosing her. Please feel free to contact me if you would like any further information.

Sincerely,

GEI CONSULTANTS, INC.

A handwritten signature in black ink that reads "Lauren M. Beintum". The signature is fluid and cursive, with the first letters of each word being capitalized and prominent.

Laureen M. Beintum, P.E.
Geotechnical Project Manager

Attachment: 2022 BSCE Individual Sections Awards Form

Each year, BSCES presents awards to deserving individuals in the Section or in the community who are nominated by their peers in recognition of their service. Here is your opportunity to nominate a co-worker, friend, or someone who you think deserves special recognition. Please see the following awards descriptions and nomination instructions.

The Nominations Deadline has been extended until **Monday, March 28, 2022**. The Awards Committee will review all nominations and present a list of candidates for selection by the Board of Government. Awards will be presented at the 173rd BSCES Annual Awards Celebration.

I would like to nominate Brendon Murphy For the:

☐ **CITIZEN ENGINEER AWARD:** This award is presented to a BSCES member or registered professional engineer for outstanding public involvement in local or national legislation, education (at any level), non-profit volunteer organizations, community activities, or similar activities improving the image of ASCE, BSCES and the civil engineering profession.

☐ **CLEMENS HERSCHEL AWARD:** This award recognizes an individual who has published a paper, not necessarily published in the BSCES Journal, that has been useful, commendable, and worthy of grateful acknowledgment. If nominating for the Clemens Herschel Award, please attach the name of the paper and names of all authors, if co-authored.

☐ **COLLEGE EDUCATOR AWARD:** This award is presented to a member of the academic community who inspires and encourages civil engineering students through exceptional teaching and mentorship. Educators empower students to realize full potential and exemplify the profession in their classroom. Candidates shall be actively teaching in a classroom setting at a college or university in New England.

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☐ **GOVERNMENT CIVIL ENGINEER AWARD:** This award is presented to a BSCES member who is serving as a paid public sector engineer at a federal, state, or municipal agency, department, or authority in Massachusetts.

☐ **HORNE/GAYNOR PUBLIC SERVICE AWARD:** This award is presented to a BSCES member or registered professional engineer for unpaid public service in a municipal, state or federal-elected or appointed post for philanthropic activities in the public interest.

☐ **JOURNALISM AWARD:** This award is presented to a journalist or other author who has published one or more articles, papers, books, social media blogs, or film for a non-technical audience that raises awareness of the contributions of the civil engineering profession.

☐ **PRE-COLLEGE EDUCATOR AWARD:** This award is presented to a member of the K-12 educational community who integrates engineering topics, particularly civil engineering, in a manner that benefits the profession and may promote students to pursue an engineering career. The Public Awareness & Outreach Committee reviews these nominations and recommends the recipient to the Board.

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To submit a nomination, complete this form and return it by the nomination deadline via email, fax, or mail to bsces@engineers.org, 617/227-6783, or BSCES Awards Committee, Boston Society of Civil Engineers Section/ASCE, The Engineering Center, One Walnut Street, Boston, MA 02108-3616, respectively.

Name and Company Address of Nominee(s)*:

GZA GeoEnvironmental, Inc.

249 Vanderbilt Avenue

Norwood, MA 02062

Is this a re-nomination? Yes ☐ No ☒

***Please attach a brief (no more than one page) explanation of the candidate's qualifications for nomination.**

Your Name: Justin Zarrella Daytime Telephone: (401) 837-5653 Email: Justin.Zarrella@gza.com

NOTE: *If you nominated someone last year who was not selected, you may re-nominate the individual(s).*

QUESTIONS: *Contact BSCES Awards Committee Chair Katie Swanson at 312/780-7885 or Awards.Comm@bsces.org.*

BSCES Awards Nomination – Younger Member Award

Brendon Murphy, GZA GeoEnvironmental, Inc. (28 years old)

Brendon first joined GZA's Geotechnical Group in 2014 as an intern while attending classes at Clarkson University. In 2015, he completed his B.S. in Civil Engineering with a concentration in Structural Engineering and Construction Management. He was then hired fulltime by GZA in 2015 primarily as a geotechnical field engineer. While working full time at GZA, he has since earned a M.S. in Civil Engineering from North Carolina State University's distance education program (2021). Brendon currently holds his EIT certification and is set to take the PE exam in 2022.

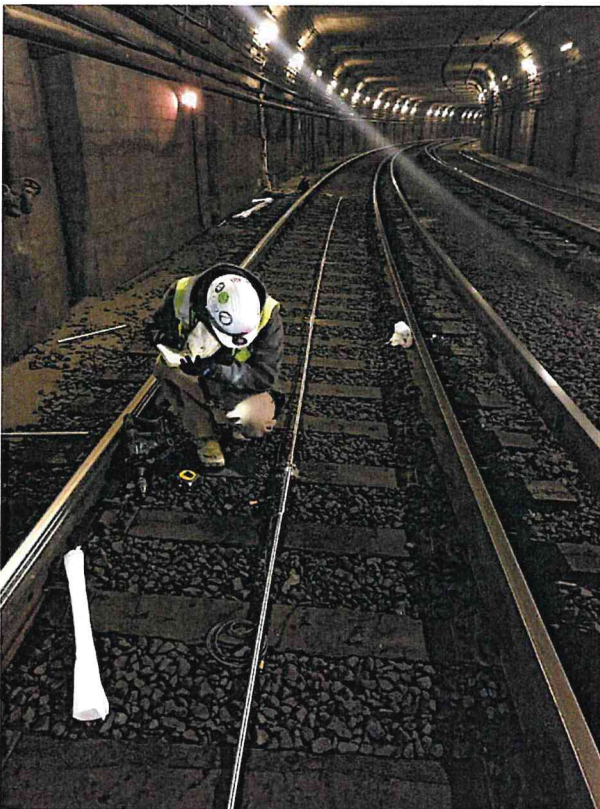
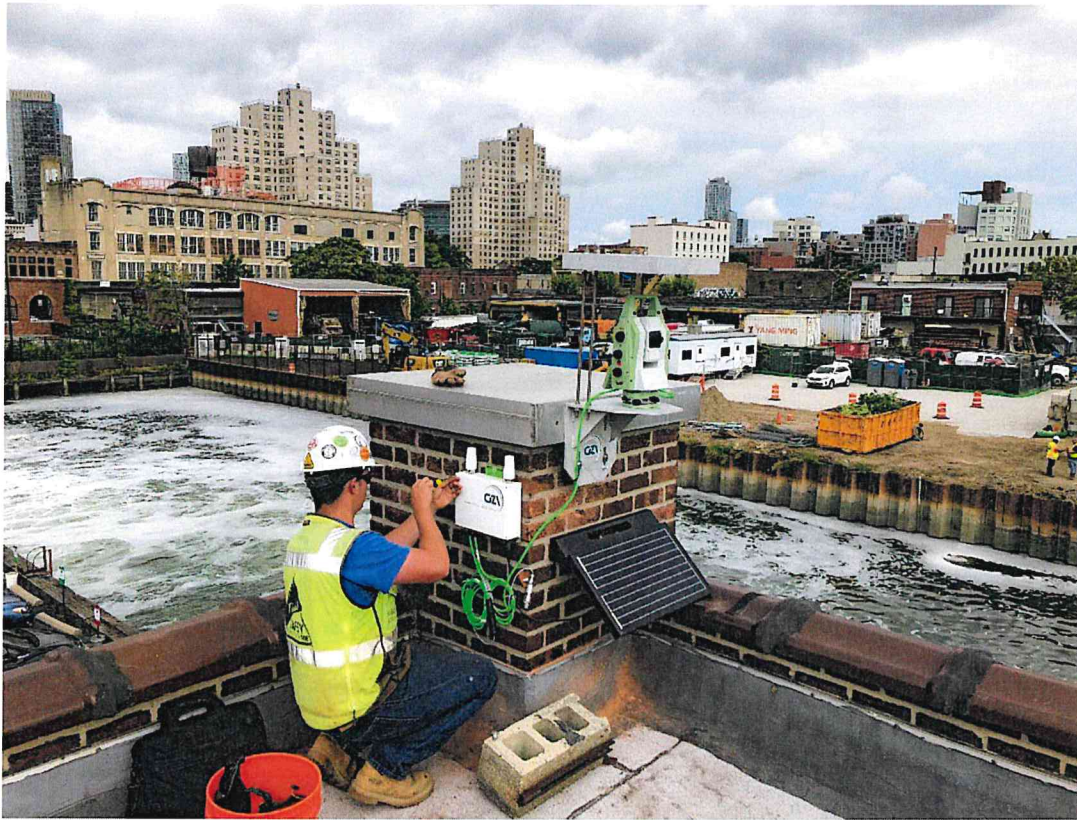
Brendon's start to his career at GZA involved showing up to the office, collecting his phone/laptop, and driving straight to southern Maryland to work full time on the Cove Point LNG Terminal Expansion project. This was an estimated \$4B dollar EPC contract for a massive terminal expansion. He was immediately engulfed in some highly technical deep foundation work which included approximately 5,200 Auger Cast-In-Place Piles, over 700 large to medium diameter drilled shafts, helical piles, and micropiles that would eventually support highly critical infrastructure. He was also exposed to non-destructive integrity testing of the deep foundations, static load testing, and various types of geotechnical and structural monitoring techniques. Brendon excelled in a high pressure project environment and it was clear that he had the intelligence, work ethic, and demeanor to handle anything thrown his way.

Brendon has since earned diverse field experience on other large-scale projects such as the new Tappan Zee Bridge (Design-Build), the Green Line Extension project (Design-Build), Gloucester Harbor Remediation, the Detroit Windsor Tunnel Structural Repairs, Wittpenn Bridge Replacement, and dozens of other high profile projects across New England and beyond. In addition to his experience in the geotechnical and environmental consulting industry, Brendon has become one of the premier technical leaders in New England regarding the use of complex automated structural/geotechnical instrumentation systems. He even co-authored a publication for Boston Society of Civil Engineers Section/ASCE, Newsletter March 2020, titled, "Technological Advances of Automated, Real-Time Geotechnical and Structural Instrumentation Systems".

Brendon has quickly moved up the ranks at GZA and was recently promoted to Project Manager in less than 7 years. He is estimating, executing, and managing a wide variety of infrastructure projects across New England. His current focus is with new innovative technologies including automated field sensors, InSAR satellite monitoring, drones/laser scanning, etc. Brendon has been instrumental in integrating these technologies across several Core Services/Technical Practices at GZA.

Brendon is currently an active member of the BSCES Construction Institute (CI) Chapter assisting on a variety of different initiatives. This includes helping to plan and execute the most recent CI Day (2019) and participating in student outreach events.

I'm proud to nominate Brendon for the BSCES Young Engineer Award. He clearly demonstrates a rare combination of intelligence, work ethic, and personality. Brendon has already made significant contributions to the industry as it relates to the implementation of technology in the civil engineering world. I expect that he will accomplish many more great things over the course of his career.



2022 Employer Recognition Awards

As a means of fostering the members of the civil engineering profession, the Boston Society of Civil Engineers Section/ASCE has established an award to recognize those employers who commit to providing exceptional opportunities to their engineers. Special recognition will go to those organizations who exhibit exemplary support as evidenced by:

1. Encouraging technical and professional growth through continuing education/training, mentoring, project experience, participation in development of technical papers or presentations, and other means.
2. Tackling staff quality-of-life issues in the modern workplace.
3. Contributing to the community to make a positive impact.
4. Encouraging active participation in professional societies such as ASCE/BSCES.

Members who want their organization to be considered for recognition should provide a letter demonstrating their firm's commitment to their engineers. Firms nominated shall be actively participating in BSCES via sponsorship, employee membership, contributions to the newsletter, etc. Letters shall include the total number of employees in the firm, number of BSCES members, and cite specific examples of their employees being actively involved in BSCES.

The Awards Committee will review the nominations and select an exemplary small employer and a large employer in the Section. Organizations with less than 50 employees are eligible for the Small Employer Award. Awards will be presented during the 173rd BSCES Annual Awards Event. Successful recipients will be considered for endorsement as potential (future) applicants for the ASCE Employer Recognition Award. No organization will be eligible to receive the award in consecutive years.

Complete and return this nomination form and your letter to the BSCES Awards Committee no later than Monday, February 28, 2022, to be eligible for the award.

Name of Organization: BETA Group, Inc.

Nominator/Title: Mark Gershman, PE

Address: 315 Norwood Park South, Norwood, MA 02062

Telephone: 781-255-1982 Email: MGershman@BETA-Inc.com

Signature:  Date: 2/16/22

Organization: BETA Group, Inc.

Contact Person: Christine King

Title: Director of Business Development

Office Address: 315 Norwood Park South, Norwood, MA 02062 Website: www.beta-inc.com

Telephone: 781-255-1982 Email: CKing@BETA-Inc.com

Please attach a brief (no more than two pages) narrative describing why the organization meets the criteria described in this nomination form.

Please complete this form and the additional pages and return it via email, fax, or mail to bsces@engineers.org, 617/227-6783, or BSCES Awards Committee, Boston Society of Civil Engineers Section/ASCE, One Walnut Street, Boston, MA 02108-3616, respectively. For questions, contact BSCES Awards Committee Katie Swanson at 312/780-7885 or Awards.Comm@bsces.org.

Thank you for your continued support of ASCE and BSCES.



February 16, 2022

Katie Swanson, BSCES Awards Committee Chair
BSCES Awards Committee
Boston Society of Civil Engineers Section/ASCE
One Walnut Street
Boston, MA 02108-3616

Re: 2022 Employer Recognition Award

Dear Ms. Swanson,

BETA Group, Inc. is proud to share many of the same goals and values as BSCES. As our company, now in its 40th year, has grown in both workforce numbers and service offerings, we recognize the important role that organizations such as BSCES have played in that growth. From technical programs that have fostered educational opportunities, to events that have provided networking and recruitment initiatives, your support of civil engineers in Massachusetts has benefited BETA's individual employees as well as our company as a whole.

BETA encourages our employees to be actively engaged and serve in leadership roles in their local governmental boards and committees, as well as professional organizations. These activities provide an opportunity to not only advance their interests and professional development, but also support BETA's mission of *Improving our Communities Together*. We are pleased to provide the following evidence in support of choosing BETA Group, Inc. for the 2022 Employer Recognition Award. With nearly 160 employees in six office locations throughout New England, we have 11 employees who are members of ASCE with seven of those also members in good standing with BSCES.

1. Encouraging technical and professional growth through continuing education/training, mentoring, project experience, participation in development of technical papers or presentations, and other means.

Our employees, and their experience, expertise, and commitment to their profession, are our most important asset. Promoting and supporting our employees' development, knowledge, and experience is one of the most important things we can do as a company as their growth and development is directly tied to our ability to provide quality services to our clients. Any employee may request to attend training, seminars, professional events, or obtain advanced degrees or further education that is applicable to their position and career development. BETA also strongly encourages all employees to take their respective discipline's licensing and certification examinations. Becoming certified or licensed shows their commitment to their profession and our commitment to provide our clients with staff that are qualified and competent in their respective fields.

BETA is fortunate to provide a full-service range of in-house capabilities – from visioning to design to construction. With these resources and well-rounded approach to providing client services, we train our entry level engineers to gain a fuller understanding of the many facets of civil engineering. Senior staff are required to mentor and train younger staff and encouraged to prepare and present technical papers. In the past year, an employee published an article in the *Northeast Journal of Trenchless Technology*; and employees presented at the No Dig Conference, New England Waterworks, Northeast Arc User Group, the New Hampshire Public Works Association, and several Highway Association meetings.

2. Tackling staff quality-of-life issues in the modern workplace.

COVID-19 has been a catalyst for change in many ways, including our response to assisting our employees with their balance of demands at work and at home. Prior to, and certainly throughout the pandemic, BETA has always strived to be understanding and flexible in allowing our employees to find a balance that works for

them. In 2021, BETA adopted a flexible “work from home” policy which allows employees to work from home up to two days per week. This has significantly improved the quality of life for staff who now have more time in their days due to the reduction of commuting hours, or who have dealt with ongoing impacts to their lives due to the pandemic. Additionally, BETA has been approached by employees to reduce their schedules to deal with child and elder care issues, or to change their primary office location to be closer to home. BETA has always been able to accommodate these requests to provide our employees with the additional flexibility to meet their daily demands.

3. *Contributing to the community to make a positive impact.*

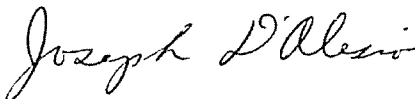
BETA’s mission statement is to “improve the communities where we work and live.” We know that this resonates with our individual staff, as they are actively involved on a local level in roles such as Conservation Commissions, Transportation Advisory Committees, Permanent Building Committees, and Town Councils. In addition, we have employees that volunteer and serve on the boards of various non-profit and community organizations for purposes and causes that are important to them personally. One employee serves on the board of HARC United, a private, non-profit in New Haven, CT supporting individuals with developmental disabilities; one employee serves on the board of Quabbin Harvest Food Co-op, a cooperatively-owned store that serves as a food hub for the North Quabbin area of Massachusetts; another is the Treasurer and Vice Chair of the Board of Directors for United Cerebral Palsy of Boston which provides programs and services for people with disabilities and their families; and another is a member of the Neponset River Advisory Council. Many of our employees also serve as leaders and committee members for their local Boy and Girl Scout Troops; coach their local youth hockey, soccer, football and baseball teams; and volunteer their time to assist their communities in specific events and programs. Additionally, as a firm, it is important that we give back in ways that make a positive impact to the community. In 2021, BETA was proud to volunteer and/or make donations to the following organizations: Mt. Grace Land Conservation Trust, Balfour Academy, Easy Bay Community Action Program Food Pantry, The Wolf School, United Way of Greater Fall River, the PMC Winter Cycle Event, Girls on the Run Rhode Island, The Century Dragon Boar Club, Reid R. Sacco Adolescent and Young Adult Cancer Program, Swim Across America, Our Open Umbrella, and the Trevor Project.

4. *Encouraging active participation in professional societies such as ASCE/BSCES.*

BETA encourages and supports our employees to become members and be active in professional organizations geared to their specific disciplines and areas of interest. Of our current seven members in BSCES, one is the Chair of the ASCE Transportation & Development Institute Boston Chapter and two are past Chairs of the Structural Engineering Institute (SEI) Boston Chapter. In addition, we have an employee that is a member of ASCE’s Construction Institute Board of Directors; another that is President of New England Section of the Institute of Transportation Engineers; and another that is Chair of the Licensed Site Professionals Technical Practices Committee.

We appreciate the opportunity to provide evidence of our firm’s commitment to our employees, to mentor and develop their professional careers, and to encourage them to lend their talents, time and expertise in promoting the civil engineering profession while improving the communities in which we live and work.

Very truly yours,



Joseph J. D'Alesio, PE – President & CEO

