

BIANNNUAL KE NEWSLETTER



JANUARY
2022



Engineering and
Land Surveying, P.C.

kcepc.com



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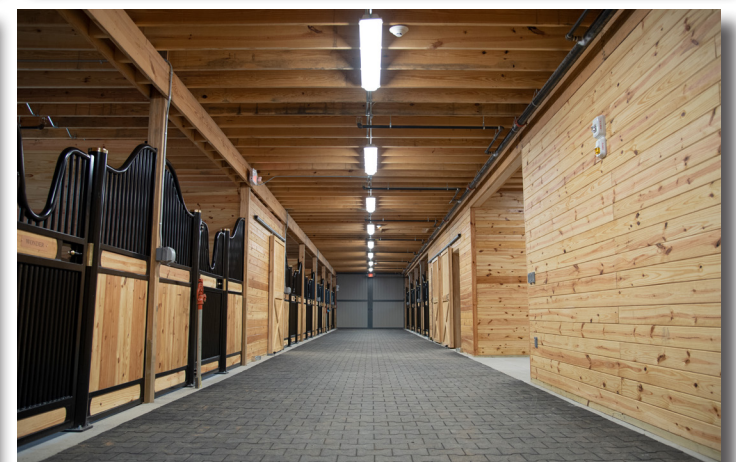
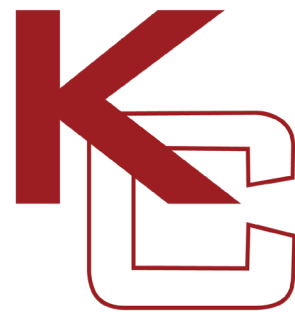
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「A LETTER FROM RAJ RAVILLA」

As another year has drawn to a close, I find it important to look back on all the growth and experience we have collectively gained over the past year.

I always say that our employees are our greatest asset, and many of you have had an eventful 2021. Professionally and personally, there is a lot to celebrate about our employees; you will notice that this newsletter's Employee Milestones section is larger than usual and includes both professional and personal achievements. For example, in order to continue providing the best results for our clients, several KC staff have been promoted and our organizational structure has been

improved accordingly. Congratulations to all. In addition to the employees identified in the newsletter, I am proud of all our employees: they continue to advance KC's important projects while being continually trained in procedures and best practices relevant to our work. Their dedication is evidenced in our results.

The diverse perspectives and in-depth experience of KC employees are valued and help us continue to provide innovation for our clients. Our forward-thinking approach continues to reap rewards as two of our largest design-build projects won prestigious industry awards this year. While providing excellent

“Our forward-thinking approach continues to reap rewards”

work for our clients is rewarding in and of itself, it is always humbling to be recognized for our work in this way. Additionally, I envision this year to be another successful year for KC as we face many exciting prospects for 2022. As outlined in the Project Highlights section of this newsletter, we are currently pursuing several important design-build projects for which we were successfully shortlisted. Additionally, our term contracts with the New York City Department of Environmental Protection (NYCDEP) and New York City Department of Design and Construction (NYCDDC) were renewed.

While looking to the future, we must draw on our past experiences to inform our methodologies. In this newsletter's main feature, several KC staff reflect upon their favorite KC projects that they have worked on. It is inspiring to me to see what our employees gained from these projects and how they draw from these experiences to offer their best work on future projects. As you flip through the newsletter, I ask you to reflect

upon both your personal and professional achievements from this past year, what you gained from them, and how you will use this growth to propel yourself forward.

Never stop improving; there is always something new to learn. I believe everyone can benefit from this way of thinking, which is why continuous improvement is a cornerstone of KC's daily operations. As one of many examples of our dedication to continuous improvement, KC's website underwent a total redesign this year. While our old website was effective, our new redesign makes information more easily accessible for visitors, clients, and employees. If you haven't already, I encourage you to visit kcepc.com to see the new design for yourself.

Thank you to all KC employees, clients, friends, and colleagues for another excellent year. I wish you all nothing but the best as we look forward to what this year will bring. Onward!

-RAJ

「MILESTONES」

Today and every day, we
celebrate our employees.



10

SR. ENGINEERING AUDITOR MANSUKH JARIWALA, P.E.

Mansukh celebrates 10 years with KC in April. He has experience in design, leadership, quality review, auditing, analysis, and construction administration. His diverse experience has been integral to his role as Senior Engineering Auditor at the New York City Department of Environmental Protection (NYCDEP) Office of Engineering Audits, where he applies his understanding of construction contracts, plans, and specifications as well as audit procedures and directives.



SR. ASSOCIATE / PROJ. MANAGER KELLI CAPKA, P.E., P.T.O.E.

In the five years that Kelli has been with KC, she has performed high-level duties as Design Manager, Lead Civil Engineer, or Senior Traffic Engineer on some of KC's biggest projects. She is adept at providing project management, bid phase, and contract administration services, as well as complete preliminary and final design services.



ASSOCIATE / LEAD TRAFFIC ENG. SAROJ NAPIT, P.E., P.T.O.E., RSP1

In June 2022, Saroj marks 5 years with KC. He has consistently applied his experience in civil, transportation, and traffic engineering; feasibility studies; hydraulic design; report writing; fieldwork; collision / condition diagrams; data analysis; hydrology; quantity estimation; and environmental impact assessments to great effect.



ENGINEERING AUDITOR RITAM RAY

Ritam joined KC in June 2017. Since joining KC, he has excelled as Engineering Auditor at the NYCDEP Office of Engineering Audits, where he ensures that payment requests are justified, contractors have fulfilled their contractual obligations, and the City receives appropriate value under the terms of the contract for the payments requested.



SENIOR INSPECTOR DAVID STAVANS, E.I.T.

David marks five years with KC this month. In his time with KC, he has applied his experience, including site planning, stormwater management, and construction inspection experience to many important projects. Most recently, he has worked on Utility Improvements Contract 5 for the Village of Wappingers Falls as Senior Inspector.



ASSOCIATE / PROJ. ENGINEER SHRUJAL BARVALIYA P.E., PMP

Shrujal joined KC in February 2017. Shrujal has worked on KC projects in many capacities, including as Senior Civil Engineer on the Cashless Tolling and Kew Gardens Interchange (KGI) design-build projects and Structural Engineer on several other projects. His diverse engineering experience has been integral to his success at KC.



CONTROLLER JOSHUA BROOKS, CPA

In May 2022, Josh will have been with KC for 5 years. Josh started with KC as a Project Accountant before being promoted to Controller after a year. In this position, he oversees accounting matters with great attention to detail and accuracy, including invoices, timesheets, statements, accounts payable, payroll administration, and more.



CIVIL ENGINEER RYAN SANFORD, E.I.T.

Ryan celebrates five years with KC this June. In his time with KC, he has worked as Civil Engineer and/or Inspector on many municipal projects, including for the Village of Wappingers Falls and the Town of Milan, as well as several projects for the New York State Department of Transportation (NYSDOT), including the KGI design-build.



CIVIL ENGINEER MUNESHWAR SHARMA

As of June 2022, Manny will have been with KC for 5 years. As a Civil Engineer, he has ample experience designing work zone traffic control (WZTC), utility, lighting, grading, and landscaping plans for a wide variety of projects. Additionally, he has excelled as an Inspector and Office Engineer on several projects for municipal clients.

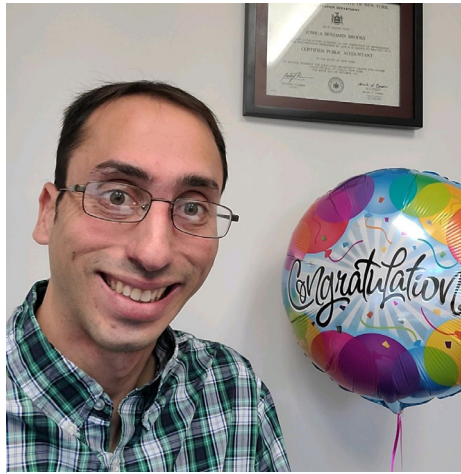


VICE PRESIDENT AMR HAFEZ, P.E.

Amr joined KC in January to lead KC's Construction Inspection and Management Group. Amr brings with him broad-based experience in the fields of structural engineering design and construction management for complex infrastructure projects and is adept at preventing construction issues and mitigating them as well.



Ray Abbiatici, P.E. passed the P.E. exam.



Controller Joshua Brooks, CPA earned his CPA license in October.



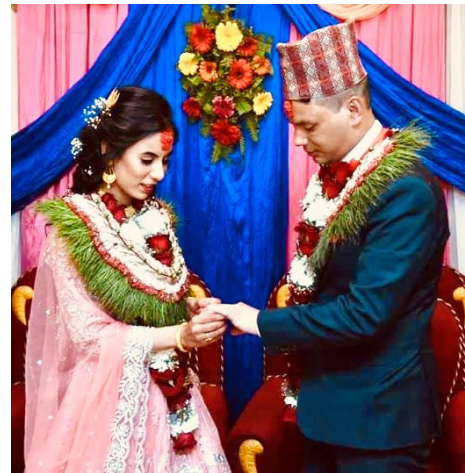
Charles (aka Charlie), was born to Senior Associate / Project Manager Kelli Capka, P.E., P.T.O.E. in August.



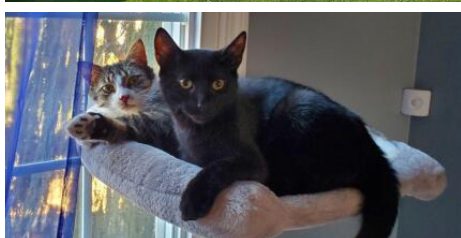
Douglas Edwins, P.E. passed the P.E. exam.



Senior Engineering Auditor Mansukh Jariwala, P.E. recently welcomed a granddaughter, Anna, into his family.



Associate / Lead Traffic Engineer Saroj Napit, P.E., P.T.O.E., RSP1 got married in 2021 and also earned his P.T.O.E. and RSP1 certifications.



CADD Manager Millan Patel bought a home and rescued several kittens and a puppy.



Structural Engineer Ricardo Ramirez, P.E. welcomed a 2nd daughter, Selena; earned a Masters Degree; and passed the P.E. exam.



Associate / Project Engineer Michael Tamigi, P.E. received his 2nd P.E. license (New Jersey) in November.

PROMOTIONS

Promotions were made in 2022 order to better streamline KC.
Congratulations to all!

The following employees have been promoted to Principal.

- Ram Kasturi, P.E.
- Kamal Kishore, P.E.
- Joseph Zacharia, P.E.

The following employees have been promoted to Senior Associate.

- Kelli Capka, P.E., P.T.O.E.
- Julian Llorente, P.E., P.T.O.E.
- Ram Sharma, P.E.

The following employees have been promoted to Associate.

- Raymond Abbiatici, P.E.
- Shrujal Barvaliya, P.E., PMP
- Douglas Edwins, P.E.
- Nathaniel Havener, P.E.
- Saroj Napit, P.E., P.T.O.E., RSP1
- Neelkumar Patel, P.E.
- Chakradhar Vallabh, P.E.

The following employee has been promoted to CADD Manager.

- Millan Patel

The following employee has been promoted to Senior Proposal / Digital Media Coordinator.

- Evan Thomas



PERSPECTIVES: STAFF FAVORITES

KC has worked on a wide variety of projects over the years under our various disciplines.

The wide breadth of projects that KC has successfully completed is a testament to the talent of our staff. As the new year has begun, we asked staff to reflect upon some of their favorite projects that they have worked on during their time at KC.



KELLI CAPKA, P.E., P.T.O.E. ●
SR. ASSOCIATE / PROJECT MANAGER ●

NYSDOT ROUTE 17 TRANSPORTATION SCOPING STUDY

A few of us in the NYC office had the pleasure of working on NYSDOT's Route 17 Transportation Scoping Study.

I, along with my teammates in the NYC office, developed new interchange concepts from scratch for exits 107 and 110 along Route 17 in NY. The interchanges were originally built in the 1950s as part of the State route, and now they will be updated to current interstate standards.

We started by doing a site visit to each exit, using our dash cameras and phones to take videos and photos of the existing conditions. We came back to the office and identified all the nonstandard or deficient features that needed to be corrected at each site. Then, we drew up a few alternatives at each site and tweaked them with some feedback from the client to arrive at the final configurations.

The concepts we developed will become part of the scoping report for this project and will guide the final design and construction.

It was a fun exercise to use our creativity in developing completely new interchange configurations!

We looked at the broader picture, accounting for traffic flows, social and environmental impacts such as property impacts or wetlands, cost, and geometric constraints at each exit. We usually don't get a chance to be so creative at such an early stage in the planning process of a large project!



JULIAN LLORENTE, P.E., P.T.O.E. ●
SR. ASSOCIATE / PROJECT MANAGER ●

NYSDOT REGION 8 BRIDGE REPLACEMENT DESIGN-BUILD

I served as the Deputy Design Manager for this design-build project, which addressed flooding issues by raising the roadway and bridge as well as by widening the stream banks.

This was the first design-build project KC won as Lead Designer and Quality Manager. It was also my first time working on a design-build project past the pursuit phase, so getting used to the fast pace and demanding schedule from the owner and contractor was very beneficial. It helped to prepare me for future design-build projects and to develop my coordination, management, and communication skills when it comes to dealing with contractors, public agencies, and KC's design team.

This project involved our first major bridge designs for the New York State Department of Transportation (NYSDOT), so that was fun to be a part of. One of our big challenges on the project was at the Route 209 site where we installed a mechanically stabilized earth (MSE) type retaining wall adjacent to the existing Rondout Creek. This was a proprietary retaining wall system that relied on the use of compacted backfill and soil reinforcement elements for its strength. The MSE wall design and the associated backfill required a lot of detailing and special considerations in order to assuage the concerns of the owner regarding the use of the proprietary wall system. Additionally, we developed unique slope protection / armoring details for the proposed grade in front of the wall and adjacent to the creek.

For the team I worked with on this project, it was our first major experience working for a contractor on a design-build project. It was challenging to work our way through the obstacles faced during the design and construction, but the hard work, dedication, and shared sense of responsibility made the experience fulfilling.



MELINDA KWOK
SENIOR CIVIL ENGINEER



WAPPINGERS FALLS UTILITY IMPROVEMENTS CONTRACT 4

I had the privilege of working on Contracts 1, 2, 3, and 4 of the Utility Improvements contracts for the Village of Wappingers Falls. Contract 4 was the last and largest of the Clean Water State Revolving Fund (CWSRF) sewer improvement contracts. The focus of this project was to maximize the use of the remaining funds to rehabilitate the most critical sewer infrastructure remaining in the Village. I was a design engineer with heavy oversight during Contract 1 and 2. I was lead design engineer with some oversight during Contract 3. For Contract 4, I was the lead design engineer with minimum oversight.

I developed the scope of Contract 4 in 2017 and I designed and prepared the plans from 2017-2018. I also managed day-to-day construction activities and provided construction support from July 2018 to July 2019, which was a new role for me. Since Contract 4 was a large project that had work all over the Village, the contractor had multiple crews working to meet the deadline. With multiple crews working almost daily, it was a challenge to coordinate with the contractor so KC could assign appropriate KC inspectors to each crew. I also had to coordinate with the local utility companies to oversee their utilities within the project

limits. I really enjoyed the coordination and organization. It was hectic, but it was a fun learning and growth experience as it was the biggest project that I had worked on up to that time.

There were other challenges that I faced. Underground utilities, either unknown or mislocated, were discovered and these conflicts had to be resolved in a timely manner. Complaints from residents and business owners needed to be addressed. These experiences taught me more patience and confidence. Having a great team made the experience better. I had an amazing group of inspectors, both new and experienced.

When construction began, I brought on a KC staff member who was new to field inspection. I took pride in teaching her what to look out for and what to document. I enjoyed watching her grow in the field. Her inspection reports were very detailed and her attention to detail really showed. She was my main inspector for the project, and I think the combination of our detailed observations and organization skills, along with excellent guidance and oversight for our team, helped make this large project a successful one.



RILEY HAUBRICH, E.I.T.
STRUCTURAL ENGINEER



SOMERSET COUNTY FERGUSON ROAD BRIDGE REPLACEMENT

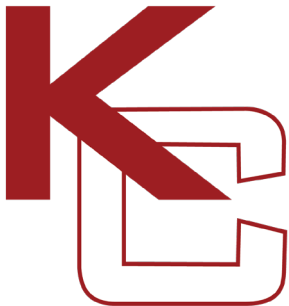
The Ferguson Road Bridge Replacement project focused on the replacement of an existing single-span bridge running over Dock Watch Hollow in Somerset County, NJ. While the project may appear rather ordinary to most people, there are several reasons why I enjoyed the project so much.

The biggest reason I enjoyed working on this project was because it was my first real experience working independently as an engineer. It was a rather small project, but many of the tasks fell on my shoulders. My responsibilities for the project included drafting, calculations, permit applications, and correspondence with the County, among other things. Prior to this project, I had worked on several similar projects, but always under the direct supervision of a more experienced engineer. This project really taught me to rely on my own engineering judgment and helped me to develop my problem-solving skills. Having previously been proficient in Civil3D, PennDOT software (ABLRFD, BXLRFD, etc.), and Excel, this project really helped me develop my skills to a point of greater confidence.

Another reason I enjoyed the project so much was due to the unique nature of the structure. Despite being a small, single-span

bridge, the County opted to go for a timber superstructure rather than a typical pre-cast culvert, often used for similar projects. Having no experience using wood as an engineering material led to a lot of engaging challenges, especially with regards to detailing.

Lastly, I really enjoyed working on this project because it was one of the last projects I got to work on with my primary supervisor before his retirement. Up until his retirement, he had taught me a lot of what I know about engineering today. It was a great feeling submitting the final documents for this project with the help of the team during my primary supervisor's last week at KC. ☺



AWARDS

KC projects continue to receive acclaim throughout the industry as well as locally.

NYSTA CASHLESS TOLLING DESIGN-BUILD

This design-build project involved the design and construction of cashless tolling on the New York State Thruway ticketed system from approximately Thruway Exits 16 to 61 (MP 45.00 to MP 496.00), which saves travel time, reduces traffic, and minimizes greenhouse gas emissions, benefiting the approximately 267 million vehicles that travel the Thruway each year.

The Cashless Tolling Constructors, LLC (CTC) team, which included KC, was selected as Best Value Team for this New York State Thruway Authority (NYSTA) project. KC led the structural engineering team, with work including providing design for four different types of gantries; generators / mechanical, electrical, and plumbing (MEP); and communication buildings, including tie-in points to existing power and fiber sources, adequate parking space, and safe access for maintenance personnel. KC also performed quality management, surveying, and civil and utility engineering services.

2021 AGC NEW YORK STATE EXCELLENCE IN PARTNERING AWARD FOR INFORMAL PARTNERING

The CTC team, which included KC, and NYSTA were presented with the 2021 Excellence in Partnering Award for Informal Partnering. The award was presented by the Associated General Contractors (AGC) of New York State at the AGC New York State Construction Industry Conference on December 8, 2021.

2022 ACEC NEW YORK DIAMOND AWARD - TRANSPORTATION

The 2022 Engineering Excellence Awards Competition have selected Cashless Tolling for a 2022 American Council of Engineering Companies (ACEC) New York Diamond Award in the category of Category H: Transportation. A live presentation for all Diamond awards will be made at a black-tie gala on April 9, 2022. As a Diamond Award project designed and built in New York State, Cashless Tolling is also in contention for the Empire Award. The Empire Award, which is given to the highest rated project in New York State, will be announced at the gala.



NYSDOT KEW GARDENS INTERCHANGE DESIGN-BUILD

The scope of work for this New York State Department of Transportation (NYSDOT) design-build project included the complete replacement of six bridge structures, which required demolition of the existing structures and complete construction of the replacement bridges. Additionally, the construction of five new bridges and alignment modifications provided operational improvements to the Grand Central Parkway, Jackie Robinson Parkway, and Union Turnpike in the Kew Gardens Interchange. The scope of highway work included realignment of the existing mainline roadways and interconnecting ramps within the Interchange.

KC served as an integral member of the design-build team, providing quality management and design services as Quality Manager and design partner, respectively. As an ISO 9001 certified consultant, we employed our robust knowledge of quality management practices to ensure that the design-build project was performed in accordance with project requirements and quality standards. Additionally, KC's knowledgeable team of professionals contributed to critical design components, including structural, utility, and environmental elements.

2021 MENY PROJECT OF THE YEAR

This design-build project was chosen as the Municipal Engineers of the City of New York (MENY) 2021 Project of the Year. The team was honored at MENY's Annual Dinner-Dance at Terrace on the Park in Flushing Meadow Park on November 19, 2021. The Dinner-Dance is held each year to honor MENY's Municipal Engineer of the Year, Industry Leader of the Year, Young Engineer of the Year, and Project of the Year.



KC was also awarded the **Certificate of Appreciation for Helping to Build a Stronger, More Resilient Town of Walkill as a Partner in the NY Rising Community**. Vice President / Director of HV Engineering Nancy Clark, P.E. accepted the Certificate during the January 11 ribbon cutting for the Winding Brook Floodplain Mitigation project, for which KC was retained to study the corridor and determine a course of action for the stream system. KC provides engineering services to the Town of Walkill on an as-requested basis.



A NEW LOOK RETHINKING THE WEBSITE

At KC, we take pride in the fact that we are always improving.

From our survey and engineering deliverables to our marketing materials and everything in between, KC is always looking for ways to improve upon our already high-quality work.

In keeping with this spirit, KC underwent a full website redesign in 2021. While our old website was effective and aesthetically pleasing, KC identified ways to improve readability, access, and the overall user experience on the site. The entire website was completely redesigned in-house from the ground up in order to provide the best possible experience to clients, employees, and other visitors.

The home page was retooled so that all the most important information (a crash course on KC) is the first information that visitors see when they visit our website. There are two

questions most will be asking themselves when visiting the website and learning about KC for the first time: who are we, and what do we offer? This information is front and center, followed by key projects representative of our work, key services, contact information, and more. The navigation bar at the top of every page enables easy access to our main pages, including Home, About, Services, Projects, Design-Builds, Careers, News, and Contact.

Our Services, Projects, and News pages were all updated to a grid-based layout with convenient sorting categories. Each of our services include 8 representative projects from the last few years. Each blog post now includes the blog navigation grid on the page for convenience.

Visit kcepc.com to see the updates for yourself! ☺



HOLIDAY PARTY 2021 NYC AND HV

As 2021 drew to a close, both KC offices celebrated another excellent year by enjoying a holiday lunch.

As has become tradition, KC organizes a KC-sponsored event at the end of each year to eat, be merry, and celebrate the success of the previous year. It is one of many ways that KC shows employees that they are appreciated, and gives employees the chance to reflect upon the events of the previous year.

Employees celebrated the achievements of the company as well as their own personal milestones of the past year as they do every year. It is always important to take stock of your achievements and experiences from the past year, and what better way to do so than with your KC colleagues?

Here's looking forward to next year! ☺



PROJECT HIGHLIGHTS

KC's diverse worklog demands *meticulous attention to detail*, and our highly capable staff is *always ready to rise to the occasion*.

NEW SHORTLIST: *Design-Build Contract HWP20MXQC: Pedestrian Ramps Non-Standard Complex RFQ, New York City Department of Design and Construction (NYCDDC):* KC, as a subconsultant, was shortlisted for this pedestrian ramps design-build project, which will install Americans with Disabilities Act (ADA)-compliant non-standard pedestrian ramps across Manhattan, Queens, and the Bronx, including associated utility coordination, maintenance and protection of traffic (MPT) requirements, and coordination with the impacted neighborhoods.

NEW SHORTLIST: *Design-Build Contract HWMMLEXAV: Lexington Avenue Pedestrian Safety Improvements RFQ, NYCDDC:* KC, as a subconsultant, was shortlisted for this pedestrian safety improvements design-build project, which will construct seven curb and sidewalk extensions along the east side of Lexington Avenue between East 41st and East 48th Streets, on the blocks surrounding Grand Central Terminal. This corridor was identified as a priority pedestrian improvement area by the East Midtown Rezoning Governing Group, a body of appointees from City Hall, the City agencies, the Manhattan Borough President's Office, the City Council, and the local Community Boards.

NEW SHORTLIST: *Design-Build Contract 131618: Moodna Viaduct Timber Bridge Ties Replacement RFQ, Metropolitan Transportation Authority (MTA):* KC, as a subconsultant, was shortlisted for this design-build project, which will involve replacing the timber bridge ties atop the Moodna Viaduct (JS 55.03) on MTA's Port Jervis Line in Orange County, New York. The Moodna Viaduct is a 3,201-foot-long steel railroad trestle viaduct located in Salisbury Mills and Cornwall, NY.

NEW AWARD: *Contract D038180: Regional Design Services Agreement (RDSA) for Region 11, New York State Department of Transportation (NYSDOT):* As a subconsultant on this RDSA project, KC will be providing preliminary bridge design and design survey and mapping. Individual projects in NYSDOT Region 11, which includes the City of New York, will be solicited under this RDSA over the course of seven years.

RENEWED AWARD: *Tri-Municipal Sewer Commission (TMSC) Engineering Services 2022:* The TMSC chose to renew their agreement with KC to provide engineering services throughout 2022.

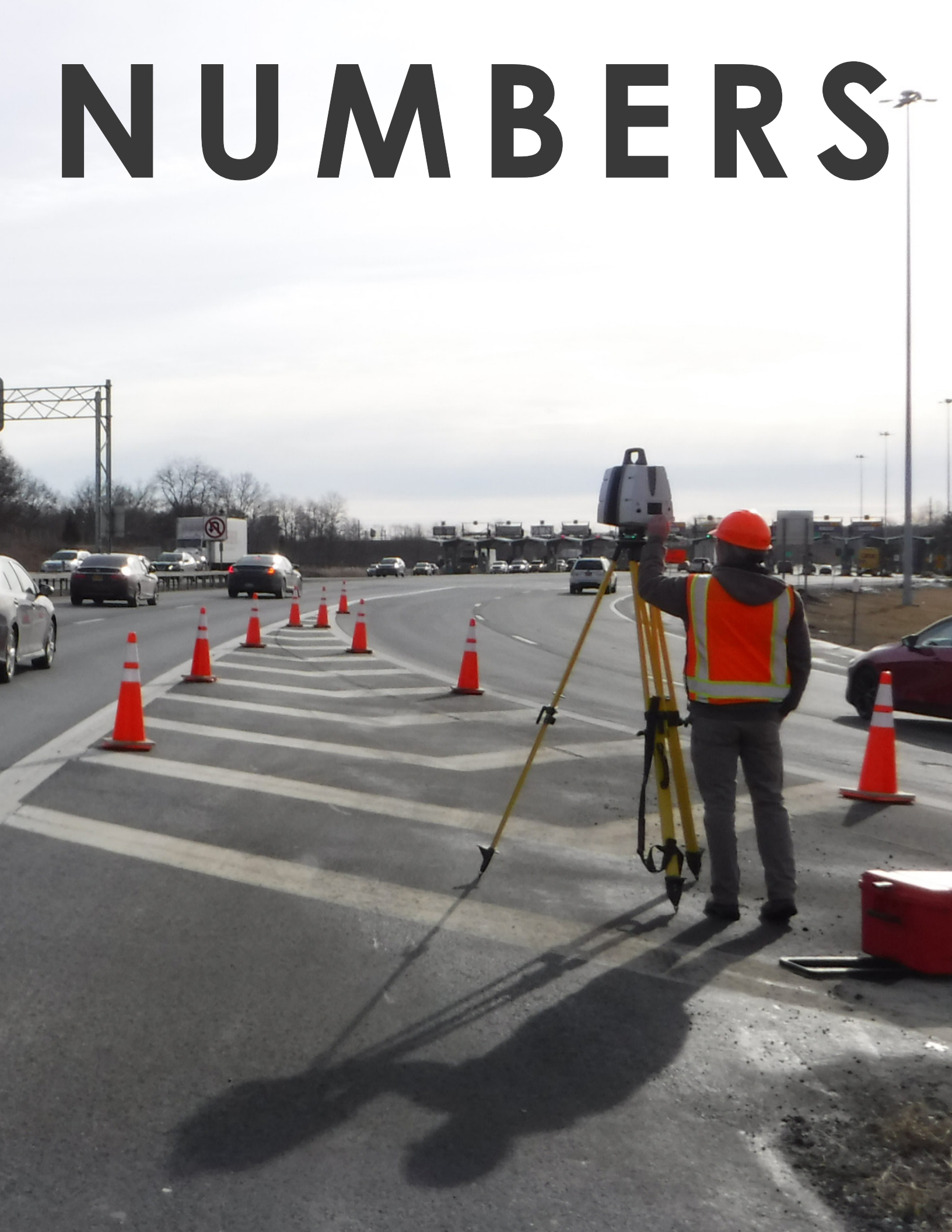
RENEWED AWARD: *Town of Bethel Engineering Services 2022:* The Town of Bethel chose to renew their agreement with KC to provide engineering services throughout 2022.

RENEWED AWARD: *Town of Milan Engineering Services 2022:* The Town of Milan chose to renew their agreement with KC to provide engineering services throughout 2022.

RETURNING AWARD: *Town of Wallkill Engineering Services 2022:* KC has long provided engineering services to the Town of Wallkill on an as-needed basis. After KC stepped back from this position in 2021, KC proposed to return for 2022 and the Town of Wallkill chose to renew their agreement with KC to provide engineering services throughout 2022. φ



NUMBERS



77 ***New opportunities awarded in 2021***
KC continually wins new jobs thanks to our qualifications and our leadership.

5 ***Municipalities where KC is the Municipal Engineer***
We take pride in serving our clients, especially when it benefits our local communities and residences.

197 ***Proposals submitted in 2021***
KC's project managers, in tandem with the marketing group, produce a steady stream of new proposals, keeping KC at the forefront of the industry.

542 ***Milestones completed in 2021***
Project milestones, sometimes called "tasks," define key developments. KC works to complete all projects on or ahead of schedule.

120 ***KC employees***
KC's staff is comprised of engineers from many disciplines, land surveyors, inspectors, and administrative staff.

2 ***KC offices***
The KC headquarters is located in New York, NY with a regional office in Newburgh, NY.

2 ***Career positions currently listed on KC's website***
There are plenty of opportunities to join KC, and new ones are always being added. Visit our website's career page at www.kcepc.com/careers to find out more.