The new Moynihan Train Hall in New York City received the 2022 Grand Conceptor Award representing the year's most outstanding engineering achievement. Severud Associates of New York City was the structural engineer, with Skidmore, Owings & Merrill serving as the architect for the project.

The Severud Associates' project team with their 2022 Engineering Excellence Awards, including the Grand Conceptor Award for best engineering achievement.

2022 ENGINEERING EXCELLENCE AWARD

WINNERS

The 2022 Engineering Excellence Awards Gala Dinner and Awards Program, considered the greatest celebration of engineering excellence in the world, recently showcased 195 ACEC member firm achievements from throughout the nation and internationally.

A panel of 29 judges representing a wide spectrum of built environment disciplines selected 36 projects for top awards: 20 Honor Awards, 16 Grand Awards, and the Grand Conceptor Award for the year's most outstanding engineering achievement.

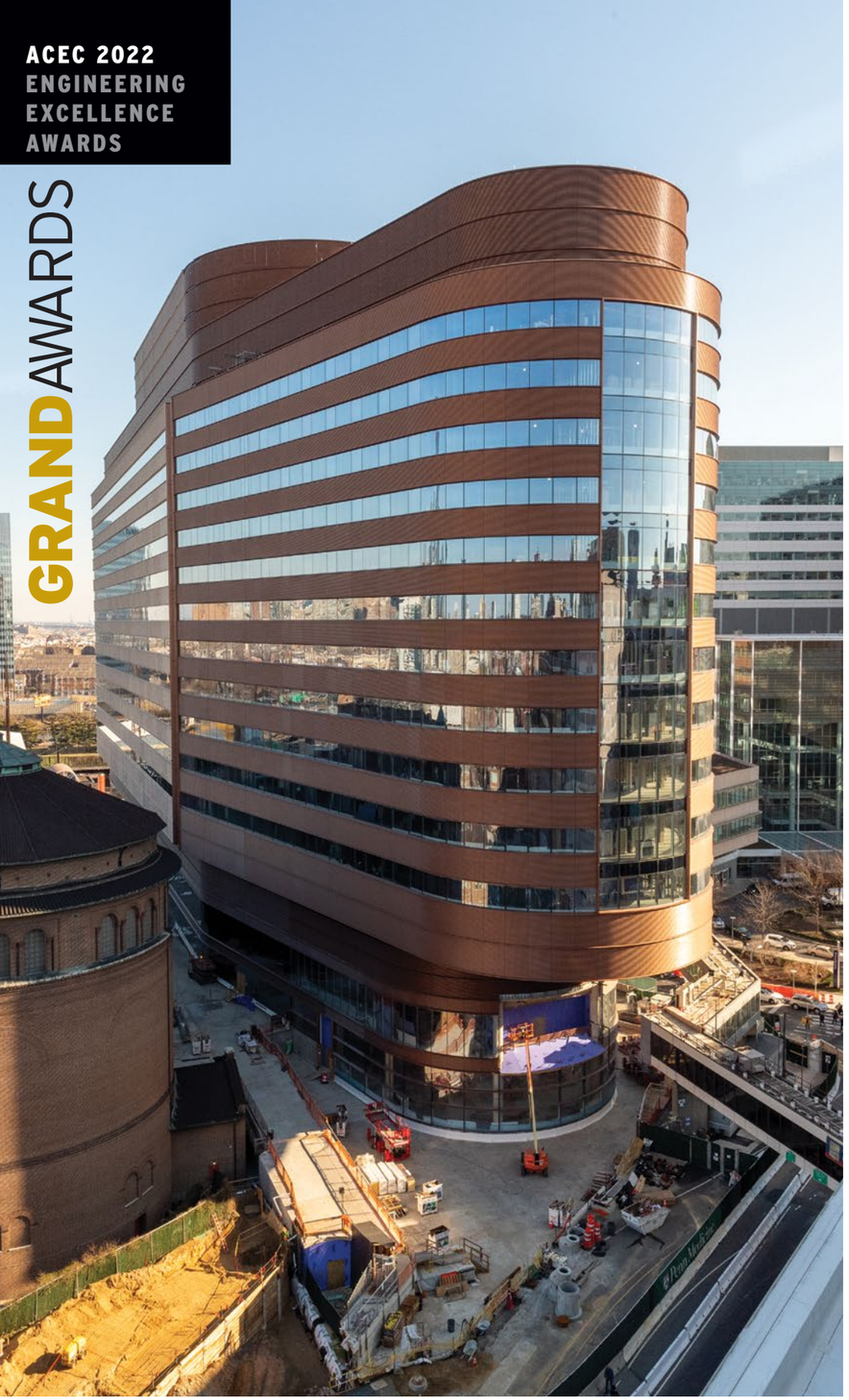
Hosted by comedian and Emmy Award-winning television host Ross Shafer, the black-tie Gala drew more than 500 members and guests to witness nearly 200 examples of exceptional engineering innovation.

2022 GRAND CONCEPTOR AWARD

Moynihan Train Hall New York

Severud Associates
Client: Skidmore, Owings & Merrill

More than five decades after demolition of the original Penn Station and almost 30 years after conception of a plan to augment it, the new Moynihan Train Hall now provides visitors with a breathtaking entrance and dignified sense of arrival to New York City. The 255,000-square-foot hall expands Penn Station across Eighth Avenue and into the landmarked James A. Farley building, the former main city post office. It includes a 30,000-square-foot main boarding concourse, formerly the mail sorting room, and a 92-foot-high roof featuring dramatically arched skylights supported by original but previously hidden and reinforced latticed steel trusses. Other Moynihan Train Hall enhancements include multiple new station entrances, an expanded West End Concourse, and the intermodal Midblock Hall. It restores a grand entrance to New York City, greatly improves access and interconnectivity, and provides many amenities to improve visitors' experience.



The Pavilion at Penn Medicine, Philadelphia

HDR on behalf of Penn First
Client: University of Pennsylvania Health System

This new $1.6 billion, 17-story hospital provides more than 500 new private patient rooms and 47 operating/interventional rooms, while also providing a benchmark for the future of hospital design. Rising majestically from a 690-stall underground parking garage, the 1.25-million-square-foot high-rise will house inpatient care for the Abramson Cancer Center, heart and vascular medicine and surgery, neurology and neurosurgery services, and an emergency department. The project delivery team used another warehouse to create a 30,000-square-foot model of the hospital to refine project elements and spatial relationships.

Hernando de Soto Bridge Emergency Repairs, Memphis, Tennessee

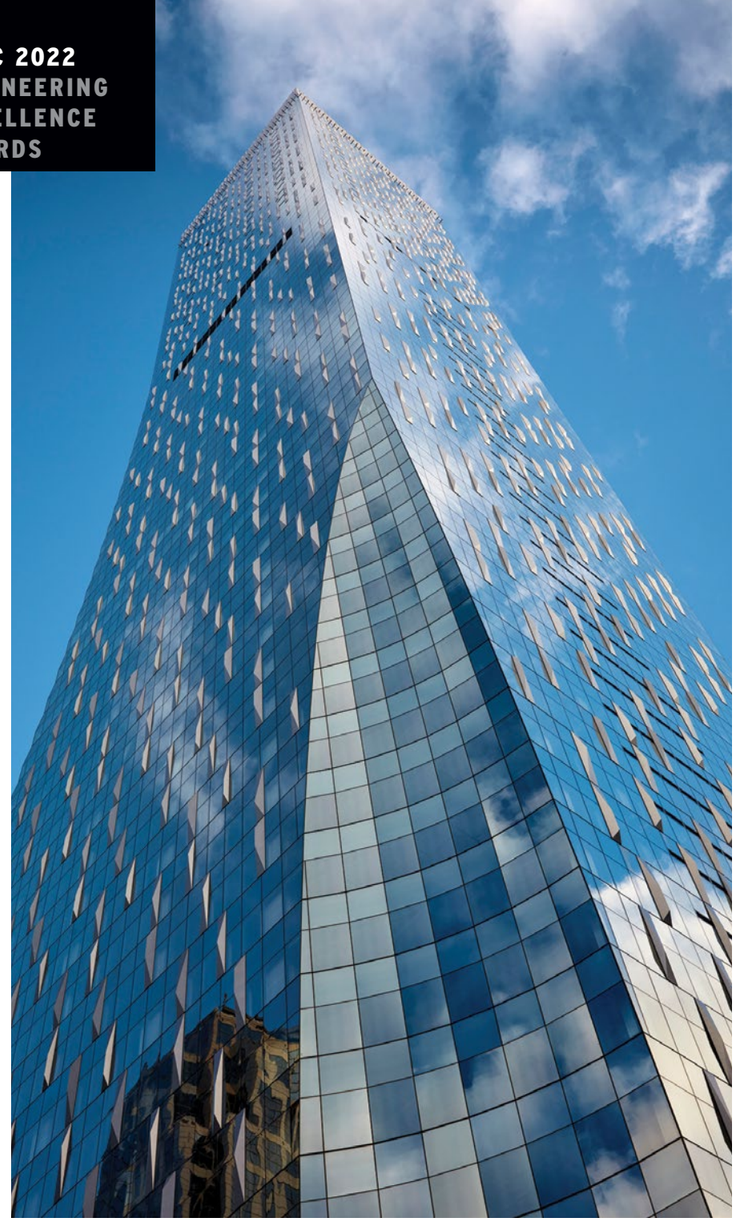
Michael Baker International
Client: Tennessee Department of Transportation

Within hours after Michael Baker inspectors discovered a fractured tie girder in the bridge, a multipronged effort was underway to determine the extent of the damage and how quickly the key Mississippi River crossing could be restored to traffic. After a quick scan of the structure using unmanned aerial systems finding no additional damage, the project team developed a three-phased repair effort beginning with installation of temporary stabilization plating, then post tensioning to reduce the stresses in the tie girder, and eliminating the potential of future tie girder cracks. Just 83 days following the initial fracture, the de Soto Bridge was again safely handling local and cross-country traffic.

SoFi Stadium
Inglewood, California

Walter P Moore
Client: Hollywood Park

Already hailed as being a stunning example of building design, the new SoFi Stadium is also a marvel for structural system innovation. The project team overcame myriad technical, management, and site challenges to create the now-iconic facility, which is near an active earthquake fault and directly below the two primary flight approach paths to Los Angeles International Airport. The project features three seismically independent structural systems that help define the beautiful project aesthetic but will also help keep patrons safe during seismic events. Serving as the home of two Los Angeles professional football teams, the stadium is one of three venues—including American Airlines Plaza and the YouTube Theater—all under the single 800-foot-long span canopy.



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Ranier Square, Seattle

Magnusson Klemencic Associates
Client: RSQ Tower

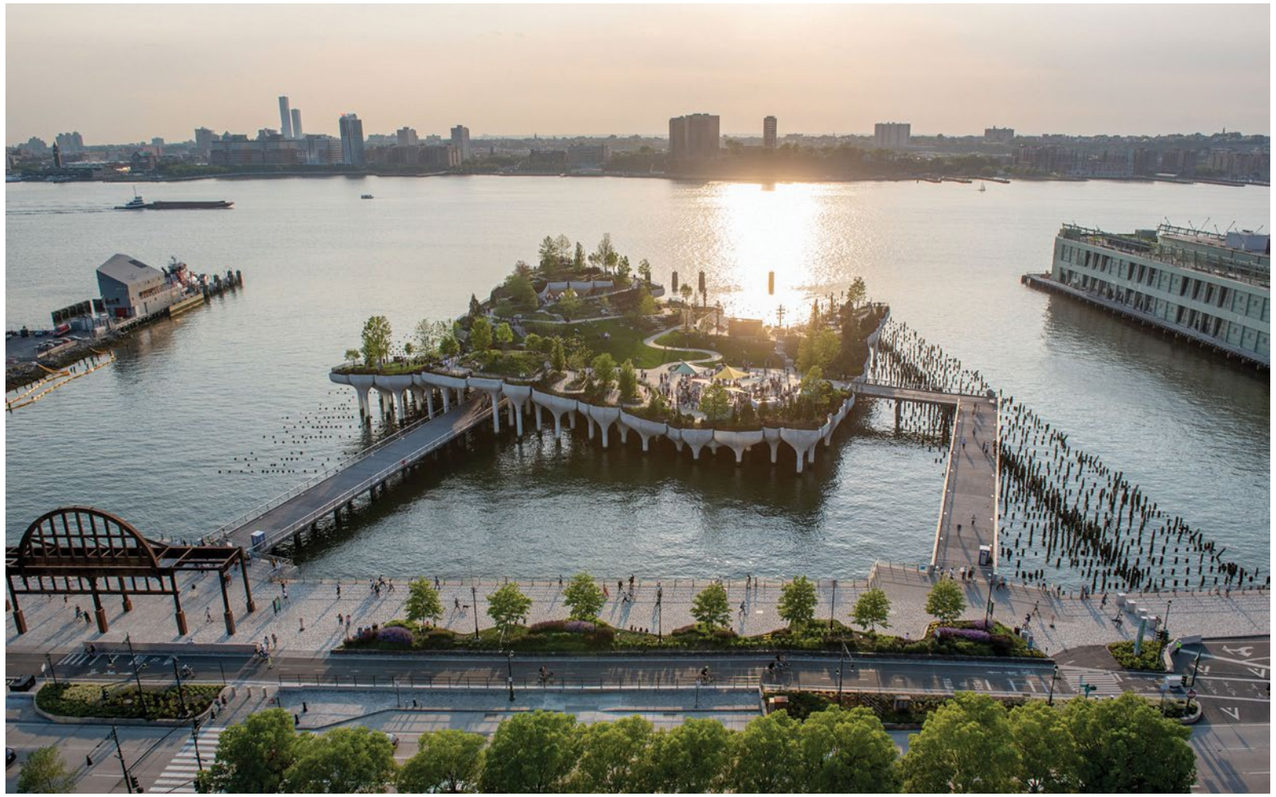
The majestic 58-story tower utilizes a first-of-its-kind structural system that built environment experts believe will change the way high-rise structures are built throughout the world. Utilizing "SpeedCore" enabled the project team to cut nearly a year off the construction schedule and saved millions in construction costs. Instead of conventional concrete walls with steel reinforcing bars inside, the new system places large, prefabricated, steel-plate panels on the outside of the wall with only concrete inside, thus eliminating the need for concrete forms and rebar installation. SpeedCore has already been adopted for other high-rise projects from San Jose to Boston.

▶

Rodney Cook Sr. Park at Vine City, Atlanta

Freese and Nichols / HDR
Client: City of Atlanta

The new $40 million park showcases how engineering can improve community health and economic well-being, combining innovative stormwater and flood design with an oasis of acres of recreational amenities. The 16-acre park's vibrant green space doubles as a hardworking system to alleviate persistent area flooding by capturing and storing up to 10 million gallons of stormwater. Natural filtration systems also improve water quality without the need for additional infrastructure, a feature that helps lower park maintenance costs and peak loads on Atlanta's wastewater treatment system. The urban oasis is a catalyst for future economic development, while highlighting the importance of stormwater resilience.



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Little Island, New York

Arup
Client: Hudson River Park Trust

An eye-catching 2.4-acre public green space and performance venue appears to "float" about the Hudson River. Utilizing a system of precast pots, the design creates an underlying pattern that maintains randomness while allowing for the efficient use of precast concrete. The project team incorporated a complex geometry into a precise framework of 12 basic pentagon patterns. Instead of 132 unique precast molds, the entirety of Little Island was achieved with fewer than 40 repeatable pots. As a dual community park and event space, Little Island serves as an acoustic oasis amidst the hustle and bustle of New York City that is also conducive to concerts thanks to new landscaping that helps create a sound barrier between the event stages and the highway.

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Rockefeller Refuge Gulf Shoreline Stabilization Grand Chenier, Louisiana

HDR
Client: Coastal Protection and Restoration Authority

The 71,000-acre biologically diverse refuge provides a habitat for abundant fish, migratory birds, and alligators. However, the marshland has lost more than 15,000 acres over the past century and continues to erode at a rate of more than 50 feet each year. The project team designed a unique stabilization system featuring a four-mile lightweight aggregate core breakwater that significantly reduces the quantity and severity of waves hitting the shoreline. The final design recovered more than 5,500 tons of armor stone and utilized locally sourced core aggregate. It represents a valuable example for other coastal areas in safeguarding environmentally sensitive shorelines from accelerating erosion.

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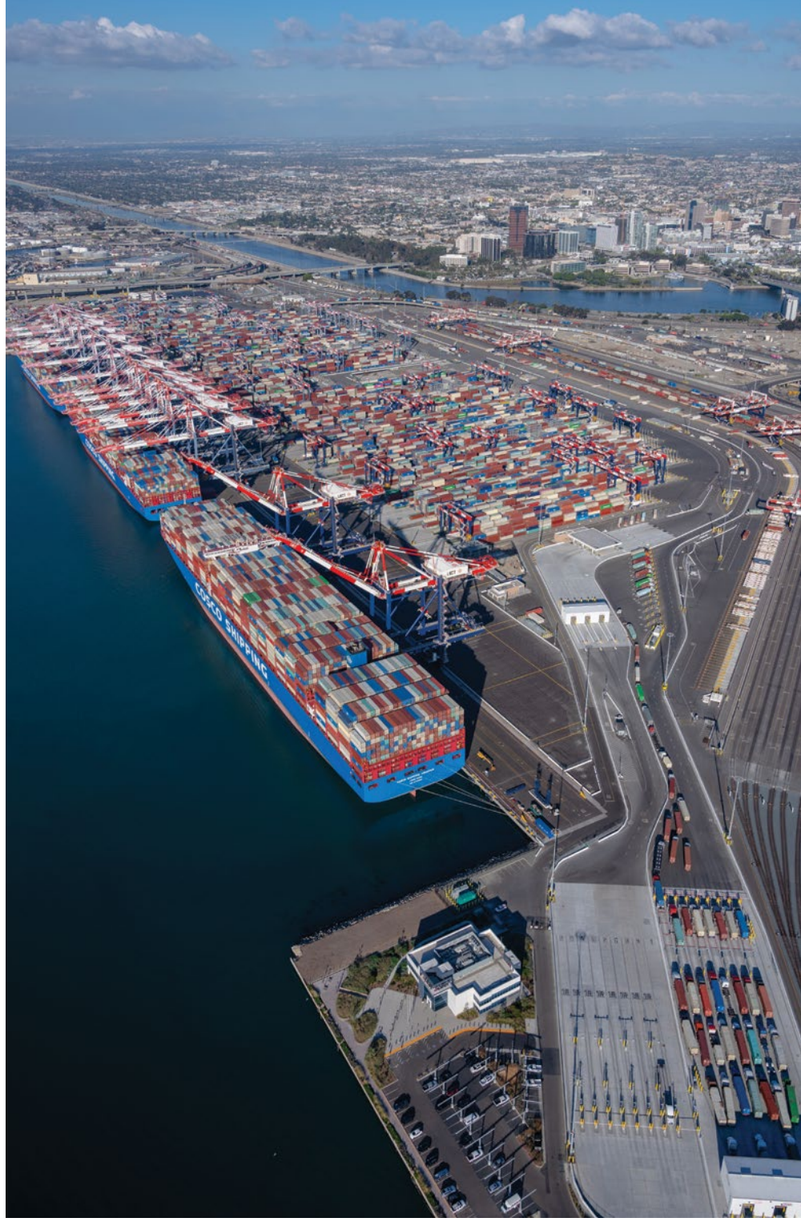
Lick Run Valley Conveyance System and Greenway, Cincinnati

Strand Associates
Client: Metropolitan Sewer District of Greater Cincinnati

The new conveyance system and greenway project reduces combined sewer overflows by 370 million gallons annually and reintroduces South Fairmount to its historic creek, while simultaneously reinvigorating a struggling community and constructing a beautiful new civic park amenity. The project team's sustainable and community-based solution provides the same high level of treatment and flood control and is less than half the cost of the originally planned $500 million deep tunnel. Restoration of the historic Lick Run waterway includes reconstruction of roadways and 11 intersections, streetscape improvements with five new vehicular bridges, and two miles of shared-use paths and sidewalks.



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Middle Harbor, Long Beach, California

Moffatt & Nichol
Client: Port of Long Beach

The decade-long, $1.5 billion redevelopment project combined two aging shipping terminals into a single, fully automated, 304-acre complex with an annual capacity of 3.3 million 20-foot equivalent units (TEUs)—more than double the two terminals' previous capacity. Middle Harbor is also one of the world's cleanest container terminals, with electric-powered cargo-handling equipment and shoreside electrical access that allows vessels at berth to shut down their diesel engines. The project team was responsible for operational master planning and facilities planning, design of dredging and fill, and permitting assistance and support during construction. The firm also designed the 4,250-foot-long wharf and container yard structures, including the automated stacking crane foundations.

▲

International Gateway Bridge
Long Beach, California

WSP USA
Client: Port of Long Beach

Nicknamed "the bridge to everywhere," the six-lane, nearly two-mile-long cable-stayed bridge rises 205 feet above the port's access channel to accommodate today's larger cargo ships and the dramatic increase in trucking traffic. Supported by two 515-foot-tall towers, the new bridge's main span stretches approximately 2,000 feet across the channel. Along with additional traffic lanes in each direction for improved traffic flow, the bridge provides emergency lanes on both the inner and outer shoulders in each direction to reduce delays and safety hazards from accidents and vehicle breakdowns, gentler approach grades, and a dedicated bicycle path/pedestrian walkway with scenic overlooks.

▼

Mid-Coast Extension of the
UC San Diego Blue Line, San Diego

WSP USA
Client: San Diego Association of Governments

The $2.17 billion trolley extension provides much-needed additional transportation capacity for a fast-growing corridor that includes the University of California–San Diego campus, considered to be San Diego's second downtown. The 11-mile extension to the existing San Diego Trolley Blue Line offers connections to nearby communities and promotes the use of transit, walking, and biking for travel while creating job opportunities, providing access to education, and boosting economic activity. WSP was the lead engineer and was responsible for environmental, planning, and preliminary and final engineering. Transportation models indicate that the new extension will attract 20,000 new transit riders a day to the system.

▲

Northgate Link Extension, Seattle

McMillen Jacobs Associates
Client: Sound Transit

Northgate Link connects Sound Transit's University Link light rail segment to the Northgate business/retail center, helping connect four major urban centers to the existing Central Link, which extends from downtown Seattle to SeaTac airport. The new link features 4.3 miles of double-track light rail, three-quarters of which are in twin bored soft-ground tunnels built using precast concrete segments. The project also includes two underground transit stations, an elevated station at Northgate, a portal structure, and more than 20 cross passages. The project team was challenged by the area's dense, urban neighborhoods and complex subsurface and groundwater conditions.

Mason Mega Rail, Garden City, Georgia

Moffatt & Nichol
Client: Georgia Ports Authority

The project effectively extends the reach of the Port of Savannah's Garden City Terminal to better serve existing destinations and expand into new destinations across inland U.S. markets. The project team identified nearly 200 acres of underutilized property well suited for connecting two existing rail yards, creating a continuous rail facility capable of serving both the Norfolk Southern and CSX railroads. The project features 18 separate 2,700-foot-long working tracks and a series of run-around tracks totaling 20 miles of new rail. With a large portion of the expansion area located atop a former landfill, the project team developed a dynamic compaction solution that allowed the existing material to remain in place, saving millions of dollars in remediation costs.

Climate Pledge Arena, Seattle

Haley & Aldrich
Client: CAA Icon

The arena home for the WNBA's Seattle Storm and the NHL's Seattle Kraken was being challenged by its 57-year-old and brittle 22,000-ton roof. Under and around this fragile structure, the project team guided design and construction of more than a mile of excavation shoring and 187 temporary and permanent foundation-drilled shafts. The goal was to safely expand the interior and create a modern facility for the arena customers and fans. A sophisticated automatic survey monitoring system alerted engineers to any movement of 700 points on the roof and around the site every four hours. Throughout renovation, the roof moved no more than ¼ inch.

Pettit Lake Creek Weir, Blaine County, Idaho

HDR
Client: Shoshone-Bannock Tribes

A long-standing obstruction to fully restoring the Snake River as a migration route for sockeye salmon has been eliminated by replacing the existing Pettit Lake Creek Weir with a new structure tailored to the creek's peak flow. Its innovative design is also friendlier for fish and the Shoshone-Bannock Tribes, as it traps juveniles and, for the first time, adults to help biologists gather data for implementing additional measures to restore salmon migration. The project is part of a plan to ensure a healthy future for sockeye in Redfish, Pettit, and Alturas Lakes, where they spend two years growing before embarking on a two-year, 1,800-mile round trip to the Pacific Ocean and back—the longest and highest distance to travel for any fish.

ACEC 2022
ENGINEERING
EXCELLENCE
AWARDS

HONORAWARDS

One Vanderbilt Avenue New York

Jaros, Baum & Bolles (JB&B)
Client: SL Green Realty Corp.

One of the newest and most picturesque New York City towers also sets a new benchmark for sustainability in high-rise structures. The project team aimed to create a future-oriented building that could be adapted in step with evolving building codes and technology. With one of the smallest carbon footprints compared with similarly sized buildings in New York City, the new tower features a high-performance glazing system that regulates insulation for heating and cooling and a highly efficient mechanical distribution system. These technologies allow the mechanical systems to provide enhanced filtration, thereby increasing the volume of outside air circulating through the interior and offering flexibility for future air cleaning technology.

Uncovering the History of D.C.'s Buried Streams, Washington, D.C.

Straughan Environmental
Client: District Department of Energy and Environment

An analysis of maps spanning more 200 years concluded that since 1792, more than 70 percent of known surface waterways in the District of Columbia have been permanently lost. To identify the modern location of underground streams that might be suitable for restoration into surface waterways and natural habitat, the project team developed a geographic information system-based comparison of the historic stream network against the modern drainage and sewer network. Out of more than 500 storm drain networks studied, the project team identified 100 candidates for restoration, of which four streams considered the most promising are undergoing grant-funded restorations.

Little Island, New York

Mueser Rutledge
Client: Hudson River Park Trust

Little Island is a 2.5-acre park featuring an innovative foundation system that allows the park to seemingly float in the Hudson River. The park is situated atop more than 130 huge tulip-shaped pots carefully installed on slender columns created with unique pre-cast concrete composite piles. The composite foundation piles are set at different heights to create an almost futuristic undulating topography of artificial hills. It also features winding paths along a gentle, rolling grade through beautiful plantings that connect several open-air performance areas—one capable of seating 5,000 people.

Olbrich Botanical Gardens Frautschi Family Learning Center, Madison, Wisconsin

Salas O'Brien
Client: City of Madison

For the new 9,700-square-foot Learning Center, the project team engineered mechanical, electrical, and plumbing systems that use two-thirds less energy than conventional technologies. The facility combines low-energy radiant heating and cooling slab technology to provide year-round indoor comfort. The project team also designed a stormwater collection and filtration system that supplies 75 percent of the water for a new 11,500-square-foot greenhouse, minimizing impacts to the area's watershed. This all helped the Learning Center achieve a LEED Platinum rating from the U.S. Green Building Council.

Route 7 and Battlefield Parkway Interchange Leesburg, Virginia

Parsons Transportation Group
Client: Virginia Department of Transportation

The new highway grade separation eliminates the last signalized intersection along a nine-mile stretch of Route 7 around Leesburg. Along with easing congestion for the 100,000 motorists who traverse the area each day, the project facilitates continued economic and population growth in and around the city. The new Battlefield Parkway Bridge, along with new sidewalks and a shared-use path, allow for safe and direct access to the Washington & Old Dominion Trail and adjacent mixed-use developments, providing alternative transportation options to pedestrians and cyclists. The project team's innovative design approach serves as a benchmark for ultra-wide, joint-free, low-maintenance decks in Virginia.

▲

Globe Life Field
Arlington, Texas

Walter P Moore
Client: Texas Rangers Baseball Club

Home of Major League Baseball's Texas Rangers, the facility features an exterior design that blends a historic brick façade with structural steel accents and a sprawling glass wall that frames the main entry for the adjacent Texas Live! Entertainment District. A distinctive retractable roof—featuring a 300,000-square-foot "racing stripe" of fluorine-based plastic—protects players and fans from rain and the sweltering Texas sun while ensuring an abundance of sunlight within. Structural elements in the stadium's two 360-degree concourses—the first of their kind in major league stadiums—were intentionally placed away from the field to prevent visual obstructions.

▲

Delaware Memorial Bridge UHPC Pilot Project, New Castle, Delaware

WSP USA
Client: The Delaware River and Bay Authority

When it was determined that the northbound deck of the 1950s-era Delaware Memorial Bridge was reaching the end of its service life, the owners considered complete deck replacement. But in coordination with the project team, it was determined that an ultra-high-performance concrete (UHPC) overlay, which greatly outperforms conventional concrete, could be a tool to rehabilitate the deck, providing an extended life cycle at substantially less cost and with less disruption to traffic. The result was the first-ever application of an UHPC overlay on a suspension bridge. The project is now a model for bridge deck repair at significant savings, while extending the life of an entire bridge deck by 50 years or more compared to other replacement options.

◀

Central Industrial District Green Infrastructure and Improvements Project, Kansas City, Missouri

HNTB
Client: City of Kansas City

An eight-acre public green space built on a former gravel parking lot contains an interactive boardwalk system that invites the public to observe the native plants and innovative nature-based rainwater harvesting system. Also known as the West Bottoms, the area had lacked an adequate stormwater management system and parks to complement years of significant residential growth. The creative approach allows the capture of 18,050 gallons of rainwater per cistern, providing a long-term water supply to the community. The collected water is currently being used by a local nonprofit that maintains green infrastructure plantings.

▶

Citizens Reservoir
Fishers, Indiana

Arcadis U.S.
Client: Citizens Energy Group

As the newest addition to Citizens Energy Group's surface water supplies, the reservoir increases raw water storage capacity by 3 billion gallons via the repurposing of a decommissioned rock quarry. The project also enhances Central Indiana's drought preparedness by allowing use of stored raw water under abnormally dry conditions. The project team adapted the large decommissioned quarry and its natural bedrock as integral design elements that achieve both simplicity and longevity. The reservoir also features pumps with energy-saving variable frequency drives, spill containment facilities, noise barriers, and native prairie plantings.

◀

Great Northern Transmission Line, Grand Rapids, Minnesota

HDR
Client: Minnesota Power

The 224-mile transmission line connects Minnesota Power's transmission system to Manitoba Hydro's grid in Canada. Along with helping the utility achieve an important milestone toward its goal of using 100 percent renewable energy, the new transmission line complements an existing 500 kV tie line to enhance the overall transmission system's performance and reliability. Due to border crossing complexities and permitting requirements in both countries, the project team involved agencies early in the route development process. This early participation allowed the team to build relationships, understand permitting needs, and address concerns that might have delayed the project.

▲

Doan Valley Storage Tunnel, Cleveland

McMillan Jacobs Associates/Wade Trim (Joint Venture)
Client: Northeast Ohio Regional Sewer District

A major component of a program seeks to reduce the Cleveland area's combined sewer overflow (CSO) discharges by nearly 4 billion gallons a year. The new tunnel and associated infrastructure system will control overflows, flooding, and pollution at 11 permitted CSO locations along Doan Brook, a major tributary to Lake Erie, and reduce CSO volumes by 350 million gallons each year. The system consists of 3.7 miles of tunnel through rock, ranging from 8.5 feet to 18 feet in diameter, routed through a major medical and cultural hub just east of downtown Cleveland. The project also includes five drop shafts, near-surface structures with consolidation sewers, and an emergency overflow basin.

◀

Issaquah-Fall City Road Widening, 242nd to Klahanie Drive, Sammamish, Washington

HW Lochner
Client: City of Sammamish

Innovative public engagement strategies helped achieve consensus to replace existing traffic signals with three roundabouts. Along with improving safety and access to the Seattle metro area, the one-mile arterial street improvement eliminated a blocked fish passage, opened a wildlife migration route, preserved established trees, and restored a key wetland. Sustainability priorities were achieved by eliminating 5,000 truckloads of fill material from city streets, replacing an area of engineered fill with a bridge, and reducing area impervious surfaces for more than 27,000 square feet to improve surface water runoff quality.

▶

SR 167/70th Avenue East Vicinity Bridge Replacement, Fife, Washington

Jacobs
Client: Washington State Department of Transportation

Using an innovative concurrent design-build project delivery method, the project team designed a replacement structure for the 70th Avenue East Bridge over Interstate 5 and a new roundabout intersection with SR99. The project included an innovative roadway alignment that allowed for a single-span bridge with no median pier, eliminating the need for a median work zone and any temporary and permanent widening of I-5 to accommodate the new structure. The design also reduced permanent wetland impacts for more than two acres. The new bridge carries four lanes of traffic and completes a new link for the multiuse InterUrban Trail.

◀

LIRR Train Hall Renovation–33rd Street Entrance, New York

AECOM
Client: MTA-Long Island Rail Road

In the first major upgrade in 50 years to the iconic train station, the project team incorporated a more spacious east concourse and wayfinding upgrades, in addition to a new glass canopy entrance that provides direct access to the LIRR concourse. The 50-foot-high canopy incorporates pretensioned steel cables with a smooth, curved, glass enclosure. The innovative use of high-performance glass allows natural light to penetrate the concourses, increasing the station's energy efficiency. The canopy is also furnished with an air curtain that promotes faster pedestrian traffic flow in and out of the station while maintaining overall efficient climate control.

◀

Core and Rail Redevelopment, Kalispell, Montana

KLJ
Client: City of Kalispell

An obsolete gravel pit overlapping a Superfund site has been transformed into a new economic-generating industrial rail park. As part of the $40 million project, the team relocated rail-served operations to the park from downtown, replaced the old rail line with a 1.6-mile linear park and trail, and created a new "complete street" and signaled intersection on U.S. Route 2. The project also includes new stormwater, lighting, and other infrastructure systems. By mitigating environmental impacts and reorganizing rail service, the project has already spurred an estimated $200 million worth of new housing, commercial, and lifestyle amenities across Kalispell's core area.

▲

Mukilteo Multimodal Ferry Terminal, Mukilteo, Washington

KPFF

Client: WSDOT, Washington State Ferries Division

The new terminal improves safety for motorists, creates seamless connections with other transportation modes, and provides pedestrians with direct access to the ferry's passenger deck. Inspired by traditional Native American longhouse architecture, the new facility also features movable passenger and vehicle loading bridges, berthing structures, a vehicle holding area, a six-bay transit center, a waterfront promenade, a public fishing pier, a city street, and an extension of State Route 525. By relocating ferry operations to a new terminal away from Mukilteo's town center, the project team was able to utilize an innovative seismic system of concrete-filled steel tubes, developed at the University of Washington, which provides safeguards in the event of an earthquake, while building and site elevations accommodate projected rises in sea level.

◀

Pathway to Hope, Tulsa, Oklahoma

Garver

Client: Oklahoma Department of Transportation

Engineering innovation was needed for a rare task to design a special project for Tulsa in the healing process of the 1921 Tulsa Race Massacre, which resulted in at least 176 deaths. To mark the 100-year anniversary of the massacre, the project team incorporated special structural elements, including a unique 22-foot soil nail wall adjacent to a major highway to combat landslides and a 20-foot-wide corridor with other retaining walls. Visitors can travel the pedestrian Pathway to Hope and view historic and artistic contributions before connecting with the John Hope Franklin Reconciliation Park.

◀

City of Brodhead Water Quality Trading Brodhead, Wisconsin

MSA Professional Services

Client: City of Brodhead

Water quality trading (WQT) offers municipalities the ability to generate "credits" to meet U.S. EPA effluent standards and improve stream health. To help Brodhead reduce the amount of phosphorus entering the greater Sugar River watershed and Decatur Lake, the project team developed a strategy that included stabilizing more than 60 actively eroding streambanks along Searles Creek and working with local farmers to make sustainable changes to their manure management practices. Over time, these upgrades are expected to offset approximately 1,090 pounds of total phosphorus per year—substantially more than the 190 pounds that would have been achieved annually with a costly $4.2 million wastewater facility upgrade.

▶

Trans-Alaska Pipeline Lost Creek Thermal Improvements, Livengood, Alaska

Shannon & Wilson

Client: Alyeska Pipeline Service Company

The Lost Creek site is located on a steep slope with complex soil and thermal conditions caused by degrading permafrost. This resulted in continuous slope movement and posed the threat of a landslide that could disrupt the Trans-Alaska Pipeline System. The project team utilized emerging 3D thermal modeling and testing technologies to replace the pipeline's vertical support structures. They also stabilized the slope using passive permafrost cooling and surface insulation. The solution promotes environmental sustainability by reducing waste and nearly eliminating wetland impacts, and is a good example for future stability mitigation of slopes at risk from permafrost degradation.

◀

Keauhou Beach Hotel and Site Demolition Kahalu'u, North Kona, Hawaii

Bowers + Kubota Consulting

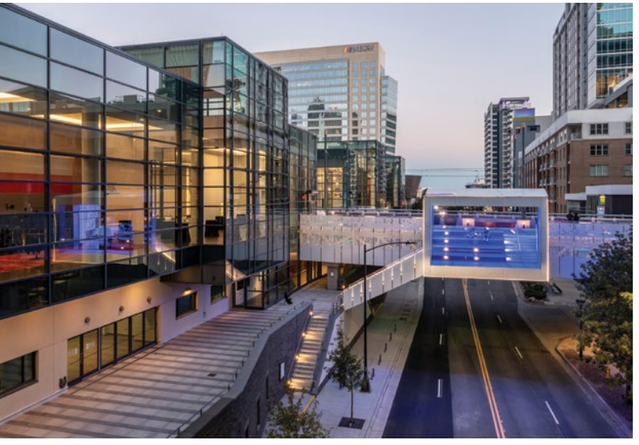
Client: Kamehameha Schools

To make way for a new Hawaiian cultural educational program, the project removed a seven-story, 309-room hotel built in and over tide pools, close to wetlands and coral reefs, and on a parcel with 15 significant historic properties, including the remains of five ancient heiau—a traditional place of worship. To avoid disturbing the tide pools and nearby cultural sites, the hotel was removed in a controlled manner with the use of remote-controlled demolition robots and a high-reach excavator fitted with a concrete processor. Pollution-control devices such as silt curtains as well as archaeological, water quality, and wildlife monitors ensured that natural, historical, and cultural resources were protected throughout the construction.

ACEC 2022 ENGINEERING EXCELLENCE AWARDS

NATIONAL RECOGNITION AWARD WINNERS

FIRM NAME	PROJECT NAME
ACEC ALABAMA	
Building & Earth Sciences	VA Mental Health Clinic
Sain Associates	Carvana Bessemer
TTL, Inc.	Homewood Suites Hotel
ACEC ARIZONA	
HDR	Tres Rios Water Reclamation Nutrient Recovery Project
ACEC CALIFORNIA	
AZTEC Engineering Group	I-15 Express Lanes Project Design-Build
Degenkolb Engineers	400-430 California Street Voluntary Seismic Retrofit
HDR/BKF Engineers/ MNS Engineers	Salinas Intermodal Transportation Center
Kennedy/Jenks Consultants	Pure Water Monterey Advanced Water Purification Facility
Kleinfelder	Miramar Clearwell Improvements Project
Mott MacDonald/Bechtel	BART Silicon Valley Berryesa Extension, Phase 1
Ninyo & Moore Geotechnical & Environmental Sciences Consultants	Los Angeles International Airport Terminal
Psomas	North Spring Street Viaduct Widening
ACEC COLORADO	
Felsburg Holt & Ullevig	39th Avenue Greenway
HDR and Silman	Wyoming Capitol Square Project
Martin/Martin	City Park Golf Course Redesign
Muller Engineering	Chatfield Storage Reallocation Project
ACEC-CT	
CDM Smith	Special Accelerated Water Main Replacement
WSP USA	York Correctional Institution



The Charlotte Convention Center Expansion in Charlotte, North Carolina, designed by Walter P Moore, is a 2022 EEA National Recognition Award winner.

FIRM NAME	PROJECT NAME
ACEC-FL	
AECOM	Selmon West Extension
Chen Moore and Associates	HDD of 7 miles of 54
Halff Associates	FAMU Way
Hardesty & Hanover	SW 1st Street Bridge over Miami River
HDR	C-44 Reservoir and Stormwater Treatment Area
RS&H	Crosstown Parkway Extension Design-Build
WGI	IKE Smart City Kiosks Project
WGI	Turnpike Widening from Osceola Parkway to Beachlin
ACEC GEORGIA	
Heath & Lineback Engineers, Inc.	SR 25 Savannah & Middle River Bridges Replacement
Parsons Transportation Group	I-285 at I-20 East Side Interchange Reconstruction
Thomas & Hutton	Jackson Street Plaza Redevelopment
Walter P Moore	Charlotte Convention Center Expansion
ACEC ILLINOIS	
Baxter & Woodman	Wastewater Treatment Plant Biological Improvements
Ciorba Group	Edens Spur Reconstruction
HNTB	O'Hare International Airport Runway
HR Green	ATC Enhancements and Pedestrian Bridge over the Fox River
Jacobs Engineering Group	Midway International Security Checkpoint Expansion
Klingner & Associates	Bill Klingner Trail Extensions
MSA Professional Services	Mount Carroll Wastewater Treatment Facility
TranSystems	Randall Road Corridor Improvements
ACEC INDIANA	
American Structurepoint	Newman Road Underpass Project
CHA Consulting	Monon Trail Bridge over 38th Street
Greeley and Hansen	West Wastewater Treatment Plant Expansion and CSO
ACEC/IOWA	
HDR	Council Bluffs Interstate System Dual, Divided Freeway
ACEC KANSAS	
HDR	Lone Elm and Old 56 Highway Improvements
HNTB	Mahaffie Street Extension
HW Lochner	Dwight D. Eisenhower Airport Pavement & Electrical
TranSystems	SW Butler Road and SW 150th Street
TranSystems	Turner Diagonal Interchange Design/Build Project
WSP USA	East Kellogg Expansion and Improvements
ACEC-KY	
HDR	Blue Grass Airport Runway 4-22 Rehabilitation
Heritage Engineering	Portland CSO Basin
Michael Baker International	Brent Spence Bridge Fire & Rehabilitation

FIRM NAME	PROJECT NAME
ACEC OF LOUISIANA	
Duplantis Design Group	Lakeshore Villages
ACEC/MD	
Gannett Fleming	Fullerton Reservoirs
HDR	Little Patuxent Water Reclamation Plant
McCormick Taylor	MD 30 Business (Main Street) Community Safety and Enhancement Project
Stantec	Replacement of Edmondson Avenue Bridge over Gwynn Falls Park
ACEC/MA	
AECOM	Peirce Island Wastewater Treatment Upgrade
Arup	Harold Alfond Athletics & Recreation Center
Environmental Partners Group	Restored Resilience in Coastal Cedar Point
HDR	North End Pedestrian Path under the Connecticut River (Transit) Line
Howard Stein Hudson	Columbus Avenue Center Running Bus Lanes
Kleinfelder	Port Flooding Resiliency Project: Parking Lot No. 6 Stormwater Tank
ACEC/MW	
AECOM	Rehabilitation of the Arlington Memorial Bridge
EBA Engineering	Emergency Repair of Water Main under I-83 Bridge
M.C. Dean	Metro Platform LED Lighting Replacement
ACEC/MICHIGAN	
HNTB Michigan	I-375 Reconstruction Improvements
Hubbell, Roth & Clark	Recreating Conventional
Prein&Newhof	Walker Avenue Bridge Removal
SME	Beekman on Broadway
ACEC/MN	
Barr Engineering	Grassy Point-Kingsbury Bay Habitat Restoration
Inter-Fluve	Minnehaha Creek, Arden Park Restoration
Kimley-Horn	Levee Park Dock Improvements
LHB	Superior Street Reconstruction
LHB	TH 61 Roadway Rehabilitation & Safety Improvements
Short Elliott Hendrickson (SEH®)	Detroit Lakes Wastewater Treatment Facility
Short Elliott Hendrickson Inc. (SEH®)	Trunk Highway 246 and Jefferson Parkway Reconstruction
Stantec	Baudette/Rainy River International Bridge Replacement
TKDA	Dale Street Bridge Reconstruction
TKDA	Runway Conversion to Dual Use Taxiway

FIRM NAME	PROJECT NAME
ACEC/MISSOURI	
CDM Smith	Co-Digestion to Renewable Gas at Des Moines Water Reclamation Facility
Crawford, Murphy & Tilly	Webster County U.S. Highway 60 Rail Study
ACEC-MONTANA	
DJ&A	Little Bighorn Water/Wastewater System
HDR	Landfill Drop-Off Facility
HDR	St. Mary Canal Drop 2 & 5 Replacement
Northern Engineering & Consulting	Survey: Hotchpotch to Standardization
ACEC NEBRASKA	
HDR	Children's Hospital & Medical Center — Hubbard Center
HDR	Theresa Street Water Resource Recovery Facility Biogas Conditioning System
HDR	Zorinsky Water Quality Basin No. 2 Dam
ACECNJ	
AKF Group	Kroger High Tech Fulfillment Centers
DeSimone Consulting Engineers	Greenpoint Landing Block D
Dewberry	Route 206 Bypass Contract B
Hazen and Sawyer	Inundation Model
HDR	Revitalization of Existing Water Supplies
H2M architects + engineers	Southern Water Pollution Control Facility Cogeneration Improvements
Jacobs Engineering Group	SUEZ Water N.J. Lead Service Line Replacement Phase
Naik Consulting Group	Rt. 495, Rt. 1&9 / Paterson Plank Road Bridge
R3M Engineering	Construction Management of Henderson Substation
Stantec	Restore/Protect MCUA Sayreville Pump Station
WSP USA	Rt. 3, Rt. 46, Valley Road & Notch Road Rebuild, Contract A
	MSLA 1-D Landfill Closure
ACEC NEW YORK	
Cameron Engineering & Associates	FDNY Training Academy Live-Fire Training Building
Dewberry	Two 20-Inch Sub-Aqueous Water Mains to City Island
H2M architects + engineers	Posillico Soil Wash Plant
Jacobs	Flood Mitigation and Resiliency: 148th Street Yard
Langan	Moynihan Train Hall
Langan	One Vanderbilt
Stantec	N.Y. State Thruway Conversion to Cashless Tolling
STV and AECOM	World Trade Center Vehicular Security Center
Thornton Tomasetti	Capital One Hall
Wendel	Hertel at Deer — Real Time Control Project
WSP USA	Farley Building Redevelopment-Moynihan Train Hall

ACEC 2022 ENGINEERING EXCELLENCE AWARDS

NATIONAL RECOGNITION AWARD WINNERS

FIRM NAME	PROJECT NAME
ACEC/NC	
CDM Smith	River Arts District Transportation Improvement Project
HDR	CONNECT Beyond
HDR	Green Street Pedestrian Bridge
STV	Sanitary Sewer Improvements at Charlotte Douglas International Airport
S&ME	Dominion Energy Natural Gas Pipeline
ACEC NORTH DAKOTA	
Barr Engineering	Karey Dam Rehabilitation
Barr Engineering	Mouse River Enhanced Flood Protection, Phases 2&3
ACEC OHIO	
Hazen and Sawyer	Celina Water Treatment Plant DAF-Bioreactor
HNTB	Smart Columbus — U.S. DOT Smart City Challenge
KS Associates	Wendy Park Access Bridge
Michael Baker International	33 Smart Mobility Corridor
The Kleingers Group	Blue Ash Road Corridor Improvements
Woolpert	CVG CONRAC Terminal Drive Bridges
ACEC OKLAHOMA	
CONSOR Engineers	Pawnee Nation CM/GC Safety and Enhancement Project
HNTB	Peoria AERO Bus Rapid Transit
Olsson	I-44 / Turnpike Interchange
ACEC OREGON	
HDR	Elwert Road-Kruger Road Intersection

Greenpoint Landing Block D in Brooklyn, New York, designed by DeSimone Consulting Engineers, is a 2022 EEA National Recognition Award winner.

FIRM NAME	PROJECT NAME
ACEC/PA	
Gannett Fleming	I-83 Exit 4 Improvements
Gannett Fleming	Penn State Ancient Biomolecules Research Environment
Langan	UGIES Bethlehem LNG Facility
Urban Engineers	Harrisburg International Airport Levee System Rehabilitation
Whitney Bailey Cox & Magnani	The Roundhouse at Hazelwood Green
WSP USA	A 5-Year Capital Plan
ACEC-SC	
Civil Engineering Consulting Services	S.C. 153 Extension, Pickens County, S.C.
HDR	I-526 Wando River Bridge Tendon Repairs
Infrastructure Consulting & Engineering	U.S. 21 over Harbor River Bridge Replacement
Infrastructure Consulting & Engineering	85/385 Gateway Project
ACEC TENNESSEE	
CDM Smith	WeGo Nolensville Bus Shelters Project
CDM Smith	West Hills Roundabout Commercial Development & Access Improvement
EnSafe Inc.	Dave Donaldson Wildlife Management Area Hydrology
ACEC TEXAS	
BGE, Inc.	IH 635 / Dallas North Tollway Traffic Signal
Freese and Nichols	Camp Mabry Building 1 Historical Renovation
Halff Associates	Storm Drain Rehabilitation Program
Huitt-Zollars	Caruth Park Underground Detention
Huitt-Zollars	North Operations Battery Electric Bus Yard
Mbroh Engineering	Giving the Power to Deliver
Walter P Moore	Houston Botanic Garden
ACEC OF VERMONT	
HDR	I-91 Rockingham Bridges
HDR	Roxbury Fish Culture Station
ACEC WASHINGTON	
AECOM	Seattle-Tacoma Airport North Satellite Modernization
HDR	Anacortes Water Treatment Plant Resiliency
HDR	I-90, Barker Road Interchange Improvement
Inter-Fluve	Nason Creek Upper White Pine Restoration
Otak, Inc.	Manley Road and Stream Improvements Project
ACEC WISCONSIN	
IMEG	Verona High School
Mead & Hunt	City of Madison Nakoosa Trail Fleet/Fire/Radio Shop Facility
Michael Baker International	Leo Frigo Software for Pile Deterioration
Strand Associates	Verona Road Stage 2

ACEC thanks the 2022 Engineering Excellence Awards (EEA) judges and EEA Committee members for their time and dedication to this year's competition.

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