

# 2016

## Engineering Excellence Award Winners

The 2016 Engineering Excellence Awards Gala—known as the “Academy Awards” of the engineering industry—showcased 151 ACEC Member Firm achievements from the United States and throughout the world.

A panel of 29 judges, representing a wide spectrum of built environment disciplines, selected 24 projects for top awards—16 Honor Awards, eight Grand Awards and the Grand Conceptor Award, for the year’s most outstanding engineering achievement.

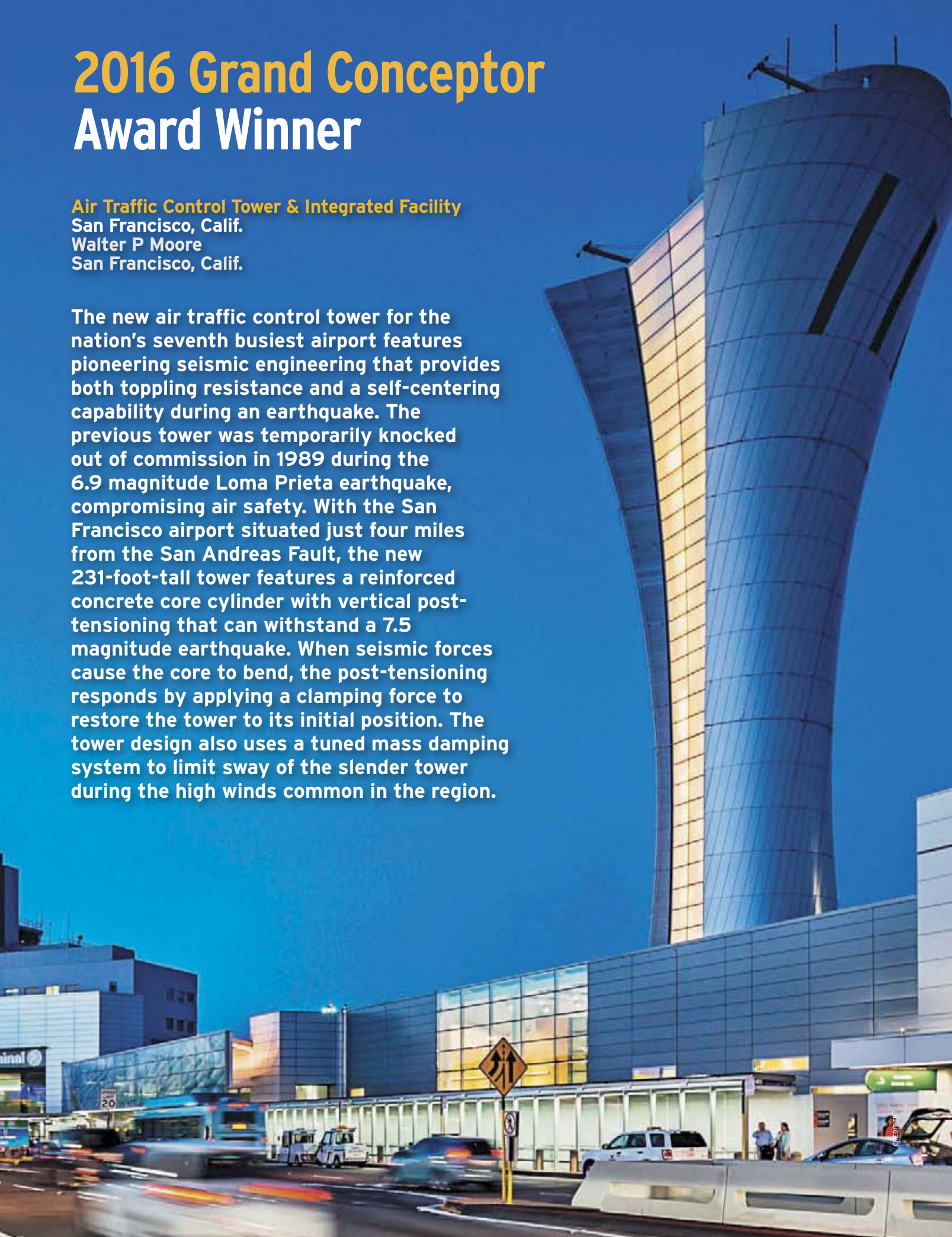
Members of the 2016 Grand Conceptor Award-winning team are from the left: Steve White of Fentress Architects; and from Walter P Moore: Laura Whitehurst, Rafael Sabelli (holding award), Dilip Choudhuri, Blair Hanuschak, and Edwin Friedrichs.



# 2016 Grand Conceptor Award Winner

**Air Traffic Control Tower & Integrated Facility**  
San Francisco, Calif.  
Walter P Moore  
San Francisco, Calif.

The new air traffic control tower for the nation's seventh busiest airport features pioneering seismic engineering that provides both toppling resistance and a self-centering capability during an earthquake. The previous tower was temporarily knocked out of commission in 1989 during the 6.9 magnitude Loma Prieta earthquake, compromising air safety. With the San Francisco airport situated just four miles from the San Andreas Fault, the new 231-foot-tall tower features a reinforced concrete core cylinder with vertical post-tensioning that can withstand a 7.5 magnitude earthquake. When seismic forces cause the core to bend, the post-tensioning responds by applying a clamping force to restore the tower to its initial position. The tower design also uses a tuned mass damping system to limit sway of the slender tower during the high winds common in the region.



# GRAND AWARDS



## **Biosolids Management Program** Washington, D.C. CDM Smith, Fairfax, Va.

Trailblazing upgrades to a wastewater treatment plant now allow recovery of both energy and nutrients from wastewater, while at the same time reducing operating costs. Enhancements to the District of Columbia's advanced water treatment plant, which serves more than 2 million residents, included installation of four 3.8-mgal anaerobic digesters and the world's largest Cambi thermal hydrolysis process (THP) system, which produces Class A biosolids for reuse as well as biogas for plant operation heat and power. The new system has already reduced truck disposal of biosolids by half, while generating approximately 10 megawatts of electricity—sufficient to meet one-third of the facility's demand.



## **WaterHub at Emory** Atlanta, Ga. McKim & Creed, Raleigh, N.C.

A beautiful greenhouse surrounded by artful landscaping in a university setting doubles as a revolutionary water reclamation and reuse facility.

To mitigate numerous university water supply challenges, the project team customized an ecological water and reuse system that is the first of its kind in North America. The system comprises an "upper site" containing a 3,000-square-foot low-energy/high-efficiency glasshouse with an odorless hydroponic treatment system, and a "lower site" containing seven concrete processing tanks up to 25 feet underground topped by ornamental landscaping.

The system treats up to 400,000 gallons daily, recycling the equivalent of two-thirds of the university's wastewater production for campus heating and cooling, and significantly reducing the campus water usage.

Over the past year, the university has saved 30 million gallons of potable water and is expected to save millions of dollars in water utility costs over a 20-year period.





**Manhattan Bridge Rehabilitation of Cables and Suspenders**  
New York, N.Y.  
Weidlinger Associates, Inc., New York, N.Y.

Innovative engineering produced a more reliable and efficient method to rehabilitate old and corroded cables and suspender ropes on suspension bridges. Tasked with replacing the Manhattan Bridge's 1,256 suspender ropes—many 65 to 80 years old with substantial deterioration—the project team used advanced vibrational testing to determine rope tension. They then cleaned and rewrapped main cables with an elastomeric membrane to resist water, chemicals, temperature extremes and ultraviolet light. The rehabilitation was performed without any noticeable impact on traffic, which averages more than 500,000 commuters a day. The new process is expected to become a standard tool for suspension bridge cable maintenance throughout the nation.



**No. 7 Line Subway Extension**  
New York, N.Y.  
WSP | Parsons Brinckerhoff  
New York, N.Y.

Resourceful engineering delivered a new subway extension and state-of-the-art station into the congested landscape of Midtown Manhattan's Far West Side. The \$2.4 billion, 1.5-mile extension of New York City Transit's No. 7 Line from Times Square was designed to support the rapidly developing Hudson Yards area. The project team used innovative ground freezing technology to improve tunnel boring through mixed-wet soil and loose rocks. The project includes the strikingly modern 34th Street-Hudson Yards Station, which maximizes natural ventilation and daylight, reduces reliance on non-renewable energy sources and contains a 36-foot-wide platform—the widest column-free platform in the New York City subway system. The subway extension serves as a model of how to develop ultramodern rail infrastructure within a tight urban setting.

# GRAND AWARDS

**The 606** ✓  
Chicago, Ill.

**Collins Engineers, Inc. & TranSystems**  
Chicago, Ill.

Creative engineering transformed a century-old artifact of Chicago's industrial heritage into the nation's longest elevated park. The project team repurposed unused 20th century rail infrastructure for 21st century needs to create six ground-level parks connected by a 2.7-mile-long elevated multi-use path. The project features innovative geometric path design and rehabilitation of thirty-eight bridges. It also included six miles of new retaining walls, six new access ramps, and drainage and hydrology for the new trail and park system. With multiple access points, elevation above city traffic and a park environment, The 606—named for the first three digits shared by all Chicago ZIP codes—enhances the social and economic vitality of the surrounding neighborhoods.



**Harnessing Geothermal Power for Airports** >  
Maine, N.Y.

**McFarland-Johnson, Binghamton, N.Y.**

A unique collaboration with Binghamton University students produced a first-of-its-kind geothermal snow-melt system for airport aprons. Airports have long sought a more efficient method of snow and ice removal—salt can't be used because it's too corrosive to aluminum aircraft, and sand can damage aircraft engines. The solution was an innovative system of geothermal pumps and underground tubing that produces radiant heat, while reducing labor and operating costs and providing abundant snow-melting capability. The project team had to find the optimal balance between geothermal heating efficiency and the thickness of the apron's concrete slab and its ability to withstand aircraft weight. The project reduces snow removal time, lessens travel disruptions and improves passenger safety.



**Rehabilitation of  
Gilboa Dam**   
Gilboa, N.Y.  
**Gannett Fleming/  
Hazen and Sawyer**  
**(Joint Venture)**  
New York, N.Y.

Inventive engineering achieved a successful renovation of the 90-year-old Gilboa Dam, located in the Catskill Mountains and providing about 14 percent of the water supply for more than 9 million residents in New York City and upstate communities. The rehabilitation used cutting-edge rock anchor technology to redesign the dam's spillway. A creative snowpack offset system to capture snowmelt—a frequent cause of regional flooding—was incorporated to protect more than 8,000 downstream residents. Delivering 1.2 billion gallons of water per day, the dam is part of the largest gravity-fed, unfiltered water supply system in the world.

# HONOR AWARDS



**Bay Tunnel**  
Menlo Park to  
Newark, Calif.  
**McMillen Jacobs  
Associates**  
San Francisco, Calif.

A new tunnel under the San Francisco Bay provides a much-needed upgrade to the regional water supply system that originates in Yosemite National Park and serves 2.6 million customers. The five-mile tunnel replaces an aging water pipeline infrastructure built in the 1920s. The project team overcame challenges of tunneling through unstable sandy/silty soils and near underground structures sensitive to ground disturbances. Situated between two major faults and considered a critical lifeline facility, the tunnel is designed to be operational within 24 hours following a major earthquake. The first-of-its-kind tunnel stands as an exemplar for future water system upgrade projects.



**Aspen Art Museum**  
Aspen, Colo.  
**KL&A, Inc., Golden, Colo.**

A strikingly imaginative use of wood in its structural design is a prominent feature of the new Aspen Art Museum. Designed by Pritzker Prize-winning architect Shigeru Ban, the 33,000-square-foot museum features a unique display of wood in form, fabrication and construction. The project team incorporated spruce and micro-laminated birch plywood, optimizing wood grain direction to relieve local stresses. The building's signature is the roof structure—a space frame laid out on a four-foot grid—that features curving wood members, undulating up and down between straight chords with minimal touch between the elements, and with no steel components of any kind. Structural connections are almost entirely fully threaded wood screws. The museum's imaginative geometry and materials represent a showpiece for the potential of wood in structural construction.





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**Fish Lift System for Lake Sturgeon Passage**  
Menominee, Mich.  
Kleinschmidt Associates  
Pittsfield, Maine

The nation's first fish lift for lake sturgeon restores access for the threatened species to a spawning habitat previously blocked by the hydroelectric Menominee Dam. The project team redesigned an unused portion of the dam into a 34-foot steel tower with an entrance channel for the collection of fish. A steel hopper lifts the fish to a floor where they are discharged into a sorting tank and held for truck transport to upstream spawning areas. The new fish lift enables lake sturgeon to access 21 miles of river previously blocked by the dam. The design also includes a state-of-the-art sorting facility enabling monitoring of desired fish, removal of invasive species, stopping the passage of harmful pathogens upriver, and the return of nontargeted species downstream.

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**The Willow School: Health, Wellness & Nutrition Center**  
Gladstone, N.J.  
Loring Consulting Engineers, Inc.  
Princeton, N.J.

A new 22,000-square-foot education center sets new standards as the first U.S. education building to achieve both LEED Platinum and Living Building Challenge certifications. Numerous energy-saving processes combined with a 160kW roof-mounted photovoltaic system allow the facility to produce more power than it uses, with the excess energy fed back to the electric utility grid. Newly constructed wetlands clean and filter wastewater before returning it to the aquifer for recharge. Rainwater is reclaimed for use in bathrooms and to irrigate the building's gardens. The facility is a model for future institutional projects seeking similar sustainability goals.



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**Florida Onsite Wastewater Nitrogen Reduction Strategies**  
Tallahassee, Fla.  
Hazen and Sawyer, Tampa, Fla.

Using groundbreaking research, the project team developed a unique and powerful nitrogen reduction system specifically for small-scale onsite wastewater systems (OWS)—commonly known as septic systems. Florida's more than 2.7 million OWS are seen as significant contributors to excess nitrogen in the state's watersheds, triggering significant water-quality issues. The project team conducted extensive testing to create unique passive nitrogen reduction systems (PNRS) specifically for OWS. Full-scale prototype PNRS consistently removed over 95 percent of influent wastewater nitrogen at a significantly less cost per pound than currently available treatment technologies. This innovative technology redefines the role of OWS and can be a permanent wastewater management solution in nitrogen-sensitive watersheds.





# HONOR AWARDS

**Manchester Stormwater Park** ✓  
 Manchester, Wash.  
 Parametrix, Seattle, Wash.

A previously abandoned brownfield now doubles as an aesthetically pleasing recreation site and a revolutionary stormwater management system that eliminates heavy winter rain flooding. As the Puget Sound area's first stormwater park, and one of only a few such combined water treatment/recreation facilities in the U.S., the park treats stormwater from roads, parking lots, and commercial and residential areas through a scientific calibration of soil and plants. Stormwater is channeled to the new park through distribution channels positioned to evenly deliver the water onto treatment beds. The beds' filter media and plants clean the runoff using filtration and absorption. The treatment cells are designed to treat flow magnitudes well over 2,000 GPM and remove at least 91 percent of pollutants from runoff before it reaches Puget Sound.



**Target Field Station** ▲  
 Minneapolis, Minn.  
 Short Elliott Hendrickson Inc.  
 St. Paul, Minn.

A new world-class, multimodal transit center in the heart of downtown Minneapolis sets new standards for sustainability. In addition to housing an elevated light rail, a promenade and two levels of a public plaza, the LEED-certified project features the first-ever, year-round stormwater and snowmelt runoff capture and reuse system in Minnesota. The system diverts snowmelt and stormwater runoff from the upper-level plazas, green roofs and light rail station into large cisterns and then routes it to a nearby waste-to-energy facility for treatment and reuse in a variety of industrial processes. Combined with tree trenches, landscaped bio retention planters and two large green roofs, the system captures and reuses approximately 3 million gallons of stormwater runoff per year.

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**I-485/I-85 Interchange**  
 Design-Build  
 Charlotte, N.C.  
 STV, New York, N.Y.

Innovative renovations to a major traffic interchange improved access, efficiency and motorist safety, while also saving more than \$30 million in projected costs. To incorporate much needed changes to the existing I-485/I-85 interchange—part of the I-485 Outer Loop of Charlotte, N.C.—the project team incorporated a rare “turbine” interchange design to replace the previous four-level structure. The design features circular lanes that take left-turning traffic around a central bridge. The project required widening two miles of I-85 to accommodate additional ramp lanes, widening/construction of 1.4 miles of I-485, and construction of eight ramps/loops and 18 precast concrete girder bridges for the interchange. This unique design has made the Outer Loop a safer and more accessible thoroughfare for 180,000 daily motorists.



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**IH 635/The LBJ Managed Lanes**  
Dallas, Texas  
**Bridgefarmer & Associates, Inc.**  
Dallas, Texas

Imaginative geometric engineering doubled the capacity of the third most congested highway in Texas, while adhering to mandates not to exceed the corridor's current dimensions. To increase capacity of the 270,000-vehicles-per-day highway corridor, the project team designed new general purpose lanes as bridges that partially cantilever over managed lanes supported by a column at the center median. Additionally, the project team reconstructed the freeway's eight existing general purpose lanes and added six new managed (toll) depressed lanes below in an excavated trench section—an alternative that saved the project over \$400 million. Completed under strict construction limitations, the project is a testament to transportation engineering ingenuity.



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**State-of-the-Art Nitrogen Upgrade Program**  
Alexandria, Va.  
**CH2M, Herndon, Va.**

Revolutionary water treatment plant upgrades now allow effective nitrogen removal from wastewater to meet new and stringent nutrient limits designed to protect the Potomac River and Chesapeake Bay. To adhere to new discharge restrictions, the project team designed an 18-million-gallon nitrogen maintenance facility featuring emerging for enhanced biological process capacity. The project team creatively located the facility's process piping, tankage, equipment and other project components underground and disguised the underground structure with a public-use athletic field. The utility is the first in the U.S. to implement a full-scale mainstream deammonification system, and the first utility in the world to use this technology to meet such strict low-nitrogen limits.

**Tilikum Crossing, Bridge of the People** v  
Portland, Ore.  
**T.Y. Lin International and HNTB Corp., Olympia, Wash.**

Spanning Portland's Willamette River, the new bridge is the nation's largest transit-only bridge and addresses the region's escalating traffic congestion. Located in a high-seismic region, the 1,720-foot-long, three-span superstructure features two landside piers, two in-water piers and two dramatic 180-foot-tall pentagonal-shaped stay-cable towers. A 31-foot-wide transit way between the tower legs accommodates two lanes of transit track and two 14-foot-wide multi-use paths for pedestrians and cyclists. Scenic enhancements include concrete finished in artistic, complex shapes and angles and an innovative "mood" lighting system that changes colors based on daylight, the river's speed, height, discharge rate and water temperature.



# HONOR AWARDS

## CREATE P1 – Englewood Flyover V Chicago, Ill.

**TranSystems/Benesch, Schaumburg, Ill.**

Innovative transportation engineering alleviated major congestion at a rail-to-rail intersection, dramatically improving safety and air quality. Often compared to a crossing of two interstate highways using a stop sign, the rail intersection each day handles 80 commuter trains, 46 freight trains and 14 Amtrak passenger trains. The project team's solution was to incorporate a grade separation featuring a pioneering railroad flyover. The 2,150-foot-long, 26-span flyover includes new bridges over five city streets, removal and closure of two viaducts and construction of over 3,000 feet of retaining walls. The project also required adjusting a 1.2-million-pound bridge by jacking it up three feet on the north end and eight inches on the south end to be set on a new gradient without affecting the integrity of the structure.



## Bay Bridge Cable Dehumidification ^ Anne Arundel and Queen Anne Counties, Md. **AECOM, Baltimore, Md.**

Groundbreaking engineering created a new cable dehumidifying system to address dangerous corrosion on suspension bridge cables. For this first-ever application on a North American bridge, the project team designed a dehumidification system for Maryland's Bay Bridge, which rises 186 feet over the Chesapeake Bay. The system continuously injects dry air into the bridge's main support cables to remove built-up moisture and maintain a dry, noncorrosive environment. More than 750 gallons of water were removed from cables on the westbound bridge and over 100 gallons from the eastbound bridge. The success of this system has prompted several other similar cable dehumidification projects nationwide.

## > **Bruce C. Bolling Building** Boston, Mass. **Arup, Cambridge, Mass.**

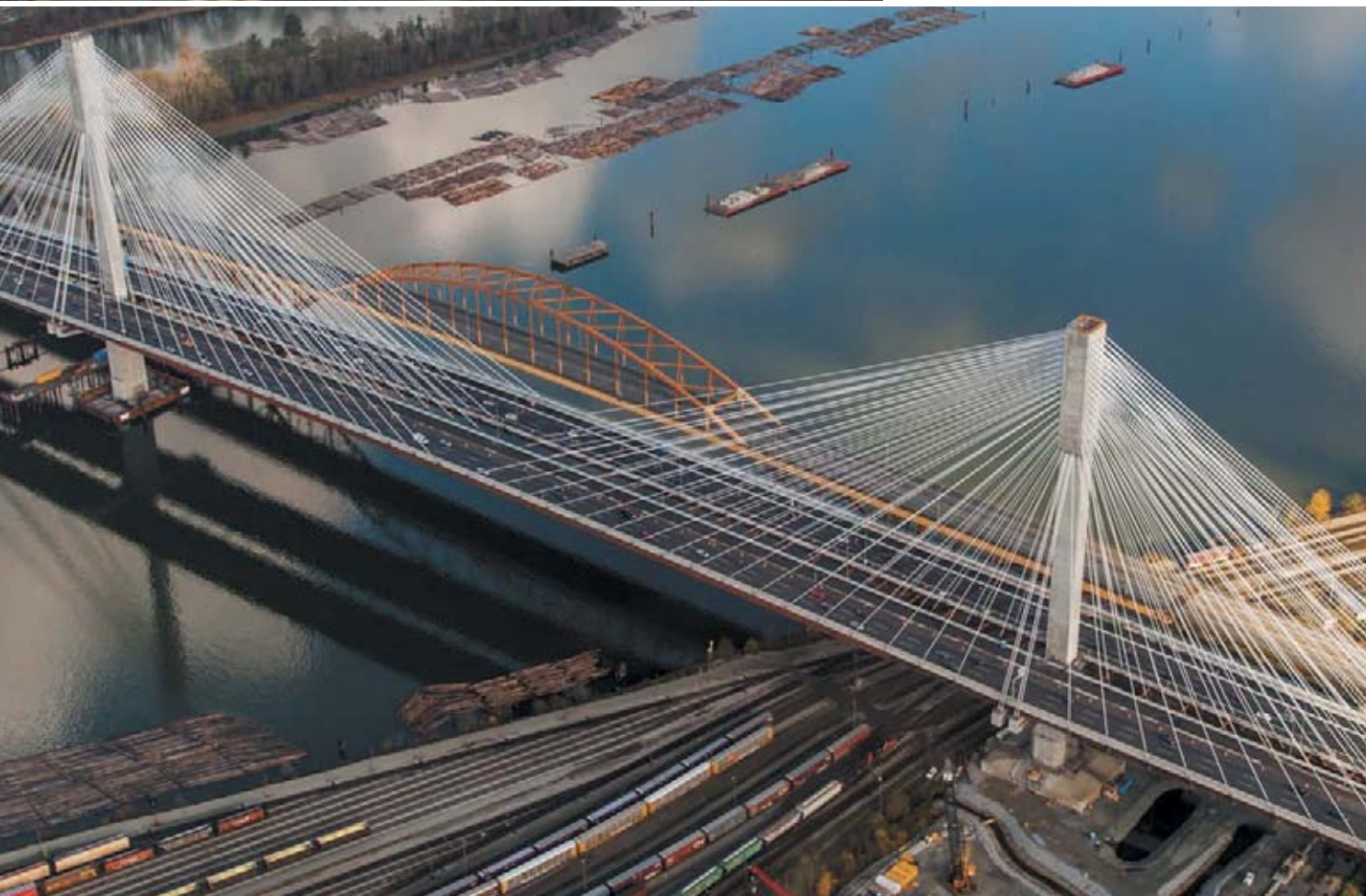
Imaginative engineering was used in a new state-of-the-art, 215,000-square-foot headquarters for Boston Public Schools. To incorporate the character of the historic but severely deteriorated buildings it replaced, the project team completely removed the interiors to create new floor plates, leaving only the existing walls. Historic facade skins were secured with epoxy anchors and connections to supporting steel as new construction occurred. The completed new headquarters includes a green roof, glazed exterior walls to allow ample light, daylight sensors to calibrate lighting, along with state-of-the-art office, retail, civic spaces, and community meeting areas and stands as an example of how new development can maintain a region's rich culture and history.





**Daniel K. Inouye Fighter Squadron Operations Aircraft Maintenance Facility**  
Joint Base Pearl Harbor-Hickam, Hawaii  
Burns and McDonnell, Honolulu, Hawaii

A new ultramodern aircraft squadron maintenance facility provides state-of-the-art service for the world's only active fifth-generation fighter. A model of sustainability, it is only the second LEED Platinum-certified U.S. military hangar. Innovative systems reduce net energy savings 75 percent and water consumption by nearly 50 percent. Solar power generated through roof-mounted photovoltaic cells and parking canopy offset electrical costs by 60 percent. The hangar provides a column-free, space-saving tail-to-tail aircraft configuration with vertical lifting doors featuring translucent panels to maximize daylight. With constrained federal budgets and increasing energy costs, the project is a model for reducing costs and enhancing performance at federal facilities.



**Port Mann Bridge Highway 1 Improvement**   
Vancouver, B.C.  
T.Y. Lin International, Olympia, Wash.

The new Port Mann Bridge in Vancouver, British Columbia, is North America's second-longest cable-stayed bridge, and one of the world's widest, with a 170-foot-wide deck and 10 lanes, replacing the previous five-lane bridge. The 2,700-foot-long bridge features two distinctive 530-foot-tall single-mast concrete towers. There is also a multi-use path for pedestrians and cyclists. The new bridge reduces motorist travel time by more than 50 percent and enables Vancouver to realize the full benefits of a state-of-the-art structure that doubles traffic capacity, while meeting the most stringent seismic criteria.

# NATIONAL RECOGNITION AWARD WINNERS

FIRM NAME	PROJECT NAME	FIRM NAME	PROJECT NAME
<b>ACEC/ALABAMA</b>		<b>ACEC/ILLINOIS</b>	
Barge, Waggoner, Sumner & Cannon, Inc. Consulting Construction Engineering	Carpenter Technology Specialty Steel Mill "Off the Grid" Analysis of Sustainable Energy Design and Application	Benesch Collins Engineers, Inc./ TranSystems exp	Rollins Road Gateway The 606  O'Hare South Air Traffic Control Tower New UV Water Treatment System Red/Purple Modernization Corridor Program
Krebs Engineering, Inc.	Biosolids Improvements for Energy Recovery	Greeley and Hansen CWC Transit Group—Jacobs Engineering Group Inc./ CDM Smith/Wight & Company	First Illinois Diverging Diamond Interchange, Marion CREATE P1 – Englewood Flyover
Whorton Engineering, Inc.	Live Fire Shoot House	Thouvenot, Wade & Moerchen, Inc.	
<b>ACEC/ALASKA</b>		<b>ACEC/INDIANA</b>	
Hanson Professional Services, Inc.	Glenn Highway Capacity Improvements	Commonwealth Engineers, Inc.	Richmond East Side Interceptor Replacement Phase III
<b>ACEC/ARIZONA</b>		<b>ACEC/IOWA</b>	
AECOM	La Cholla Boulevard: Magee Road to Overton Road	Burns & McDonnell Stanley Consultants, Inc. WHKS & Co.	Ottumwa Tier 1 Project Credit Island Lodge Reconstruction U.S. 34 Ramp Bridge Emergency Repair
<b>ACEC/CALIFORNIA</b>		<b>ACEC/KANSAS</b>	
AECOM Cornerstone Structural Engineering Group, Inc. Cornerstone Structural Engineering Group, Inc. HNTB Corporation Mark Thomas & Company, Inc.	Urban Levee Evaluation Project R. B. Oliver Bridge Replacement  San Francisco Zoo – South American Rain Forest Exhibit Levi's Stadium I-280/I-880/Stevens Creek Boulevard Interchange Bay Tunnel South Bay Bus Maintenance Facility Expansion SFO Air Traffic Control Tower & Integrated Facility	Black & Veatch Shafer, Kline & Warren TranSystems  WSP   Parsons Brinckerhoff	Headquarters Microgrid Pershing Road Lift Station Sustainable Reconstruction of KU Parking Lot 54 U.S. 54 Viaduct Repair/ Rehabilitation
McMillen Jacobs Associates STV  Walter P Moore		<b>ACEC/KENTUCKY</b>	
<b>ACEC/COLORADO</b>		CDM Smith EA Partners  HMB Professional Engineers, Inc.  Palmer Engineering Company, Inc. Qk4	
CTL   Thompson, Inc.	The Regency Athletic Complex at MSU Denver Aspen Art Museum New Crude Distillation Unit Data Fusion Predicts Habitat Quality Aerial Survey of Kokopelli Trail Broadmoor Cloud Camp	Alumni Drive Improvements U.S. 68 Bourbon/Nicholas Counties East Fork Indian Creek Stream Restoration New U.S. 460 Belknap Connector	
KL&A, Inc. Merrick & Company Merrick & Company  Olsson Associates RMG-Rocky Mountain Group		<b>ACEC/MAINE</b>	
<b>ACEC/CONNECTICUT</b>		Kleinschmidt Associates	
Michael Baker International, Inc. Urban Engineers, Inc.  Wright-Pierce	CTfastrak Bus Rapid Transit System Complete Streets Master Plan for Downtown New Britain Water Pollution Control Facilities Upgrade	Menominee Fish Lift System for Lake Sturgeon Passage	
<b>ACEC/FLORIDA</b>		<b>ACEC/MARYLAND</b>	
CH2M/King Engineering Associates, Inc. Finley Engineering Group, Inc.  Hazen and Sawyer  HNTB Corporation Kimley-Horn and Associates, Inc.  Walter P Moore	Northwest Solid Waste Transfer Station Section 5 Palmetto SR 826/836 Interchange Onsite Wastewater Nitrogen Reduction Strategies SunRail Phase 1 Tallahassee Regional Transportation Management Center Citrus Bowl Transformation	AECOM Gannett Fleming Pennoni  Whitman Requardt & Associates  Whitman Requardt & Associates  Whitman Requardt & Associates  Whitney Bailey Cox & Magnani	
<b>ACEC/GEORGIA</b>		<b>ACEC/MASSACHUSETTS</b>	
Walter P Moore	National Center for Civil and Human Rights	Arup Collins Engineers, Inc.  Fay, Spofford & Thorndike  Simpson Gumpertz & Heger Inc.	
<b>ACEC/HAWAII</b>		<b>ACEC/METROPOLITAN WASHINGTON</b>	
Burns & McDonnell  Burns & McDonnell Yogi Kwong Engineers	Daniel K. Inouye Fighter Squadron Aircraft Maintenance Facility SPIDERS Phase III Stream Bank Bluff Protection and Stabilization	AECOM  Alpha Corporation	
		Bruce C. Bolling Building Geo-Synthetic Reinforced Soil – Integrated Bridge System Kenneth F. Burns Memorial Bridge Replacement China Pavilion at 2015 World Expo  RiverSmart Washington Planning & Design Smithsonian Mathias Lab Expansion	

FIRM NAME	PROJECT NAME	FIRM NAME	PROJECT NAME
CDM Smith CDM Smith CH2M	Biosolids Management Program Tingey Street Diversion Sewer State-of-the-Art Nitrogen Upgrade Program	Cameron Engineering & Associates	Long Island Tidal Wetlands Trends Analysis
HNTB Corporation	95 Express Lanes	DeSimone Consulting Engineers Dewberry Distinct Engineering Solutions, Inc.	170 Amsterdam Carmine Carro Community Center Rockaway Boardwalk Reconstruction Amtrak Sunnyside Yard Master Plan
<b>ACEC/MICHIGAN</b> Byce & Associates, Inc.	Bell's Brewery, Inc. New Bio-Energy Facility	Gannett Fleming/ WSP   Parsons Brinckerhoff Gannett Fleming/Hazen and Sawyer GZA	Rehabilitation of Gilboa Dam OneNYC Public Waterfront Esplanade and Park
Fleis & VandenBrink Engineering, Inc. HNTB Corporation/WSP   Parsons Brinckerhoff/Great Lakes Engineering Group Wade Trim Associates, Inc.	Measurement Process for Excess Inflow/Infiltration Removal I-96 Renovations	H2M architects + engineers	Mastic Volunteer Ambulance – New Headquarters Addition Gowanus Expressway Emergency Repair Van Wyck Expressway over Grand Central Parkway
<b>ACEC/MINNESOTA</b> Clark Engineering Corporation HGA Architects and Engineers HR Green, Inc.	I-75 Over Rouge River/Fort Street Design Survey	HAKS Engineers and Land Surveyors/AECOM Hardesty & Hanover	Public Safety Answering Center II Slurry Wall Re-Support – National September 11 Memorial & Museum
LHB Short Elliott Hendrickson, Inc. Stanley Consultants	Landfill Leachate Treatment System Surly Destination Brewery Waste Landfill Gas to Energy Facility	Jaros, Baum & Bolles Langan Engineering & Environmental Services, Inc./ Simpson, Gumpertz & Heger/ Guy Nordenson and Associates Loring Consulting Engineers, Inc.	The Willow School: Health, Wellness & Nutrition Center Harnessing Geothermal Power for Airports Dwight Englewood STEM Building Innovative Foundations for Harbor Point Development Mother Clara Hale Bus Depot Baku National Stadium Rehabilitation of the High Bridge over Harlem River Manhattan Bridge Rehabilitation of Cables and Suspenders No. 7 Line Subway Extension
<b>ACEC/MISSOURI</b> Hanson Professional Services Inc./ POWER Engineers, Inc. HNTB Corporation	Roosevelt Bridge Rehabilitation Target Field Station Coon Rapids Dam Rehabilitation	McFarland Johnson, Inc.	
ME Engineers	Mississippi River T-Line Crossing	ME Engineers, Inc. Mueser Rutledge Consulting Engineers STV Thornton Tomasetti TranSystems	
<b>ACEC/MONTANA</b> Morrison-Maierle, Inc.	Poplar Street Bridge Interchange Westbound Ramps HarborCenter – Hockey & Mixed Use Facility	Weidlinger Associates, Inc. WSP   Parsons Brinckerhoff	
<b>ACEC/NEBRASKA</b> HDR HDR	East Belgrade Interchange – Bozeman Yellowstone International Airport		
<b>ACEC/NEVADA</b> Walter P Moore	Leavenworth Lift Station Prairie Queen Reservoir and Recreation Area		
<b>ACEC/NEW HAMPSHIRE</b> HEB Engineers, Inc.	Spring Mountains Visitor Gateway Complex		
<b>ACEC/NEW JERSEY</b> AECOM/Greenman-Pedersen, Inc./ WSP   Parsons Brinckerhoff Dewberry	Stark Covered Bridge Rehabilitation		
HNTB Corporation	New Jersey Turnpike Interchange 6 to 9 Widening Program Route 3 over the Passaic River Bridge		
WSP   Parsons Brinckerhoff/ Gahagan & Bryant Associates, Inc.	Ben Franklin Bridge PATCO Track Rehabilitation Channel Recovery and Maintenance Program		
<b>ACEC/NEW MEXICO</b> Bohannon Huston, Inc.	I-25/Paseo del Norte Interchange Reconstruction Ute Reservoir Intake Facility		
CH2M			
<b>ACEC/NEW YORK</b> Arup Barton & Loguidice C&S Companies	Torre Reforma Lake George Day-Use Area Syracuse University Carrier Dome Rainwater Harvesting		

The Benjamin P. Grogan and Jerry L. Dove Federal Building, Miramar, Fla., designed by Syska Hennessy Group, Inc., Fairfax, Va., is a 2016 EEA National Recognition Award winner.



# NATIONAL RECOGNITION AWARD WINNERS

FIRM NAME	PROJECT NAME	FIRM NAME	PROJECT NAME
<b>ACEC/NORTH CAROLINA</b> Kimley-Horn and Associates	Fidelity Network Center Campus SW Parking Deck	<b>ACEC/TEXAS</b> Bridgefarmer & Associates, Inc. HDR	IH 635/The LBJ Managed Lanes Construction Management for Afghanistan National Security Forces Facilities
McKim & Creed S&ME, Inc.	WaterHub at Emory	Jones   Carter	Cottage Grove Low-Impact Development
STV	Edgecombe County Landfill Gas- to-Energy Facility	Lockwood, Andrews & Newnam, Inc. (a Leo A Daly Co.) Walter P Moore	Water Quality Modeling Tool Development Kyle Field Redevelopment
<b>ACEC/OHIO</b> AECOM	University Medical Center New Orleans	<b>ACEC/WASHINGTON</b> DLR Group	NRG Stadium Solar Design
TranSystems	Columbus Road Lift Bridge	Parametrix, Inc. Parametrix, Inc. Syska Hennessy Group	Calistoga Setback Levee Manchester Stormwater Park Benjamin P. Grogan and Jerry L. Dove Federal Building Port Mann Bridge/Highway 1 Improvement Project
<b>ACEC/OKLAHOMA</b> HDR	Verdigris Water Treatment Plant	T.Y. Lin International	
<b>ACEC/OREGON</b> T.Y. Lin International/HNTB Corporation	Tilikum Crossing, Bridge of the People	<b>ACEC/WEST VIRGINIA</b> Draper Aden Associates	Return to Glory: East End Theater
<b>ACEC/PENNSYLVANIA</b> CDM Smith Gannett Fleming	Rapid Bridge Replacement Project City of Lebanon Authority Wastewater Treatment Plant	<b>ACEC/WISCONSIN</b> Applied Technologies, Inc.	Phosphorus Recovery for the Madison Sewerage District
Gannett Fleming Urban Engineers, Inc. Urban Engineers, Inc.	Squirrel Hill Tunnel Rehabilitation Dilworth Park The Franklin Institute's Nicholas and Athena Karabots Pavilion	Mead & Hunt	Montello Dam Reconstruction Project
<b>ACEC/SOUTH CAROLINA</b> AECOM	Camden Wastewater Treatment Plant Expansion	Mead & Hunt	Regional Airport Snow Removal Equipment Facility
ICA Engineering STV	U.S. 601 Bridges U.S. 17 Bypass and S.C. 707/ Farrow Parkway Interchange	Strand Associates, Inc.	Dubuque Water and Resource Recovery Center
The Sheridan Corporation	Seawall Repairs for the City of Charleston, S.C.		



The China Pavilion at 2015 World Expo, Milan, Italy, designed by Simpson Gumpertz & Heger, Inc., Waltham, Mass., is a 2016 EEA National Recognition Award winner.



170 Amsterdam, New York, N.Y., designed by DeSimone Consulting Engineers, New York, N.Y., is a 2016 EEA National Recognition Award winner.

ACEC thanks the 2016 Engineering Excellence Awards (EEA) judges and EEA Committee members for their time and dedication to this year's competition.

## 2016 EEA JUDGES

**Tom Powers**  
*Chief Judge*  
City of Chicago  
Chicago, Ill.

**Fiona M. Allen**  
Trinity River Authority of  
Texas  
Arlington, Texas

**Col. Jeff Anderson**  
U.S. Army Corps of  
Engineers  
Memphis, Tenn.

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