



2011 AON Build America Award Winners

Building New

CONSOL Energy Center

Pittsburgh, PA

PJ Dick/Hunt, A Joint Venture

The CONSOL Energy Center is a 720,000 square foot arena for the Pittsburgh Penguins hockey team and other entertainment events and was constructed in a congested urban area. Floor-to-ceiling windows provide breathtaking views of the city landscape, while public bar and food court areas give patrons open viewing of the playing surface. The CONSOL Energy Center is the first Leadership in Energy and Environmental Design (LEED) Gold certified professional hockey arena in the United States, featuring low flow plumbing fixtures, use of recycled or sustainably harvested materials and a recycling program for glass and plastics.

Building New

National World War II Museum Phase IV Expansion

New Orleans, LA

Satterfield & Pontikes Construction

The newly expanded National World War II Museum is considered one of the top destinations for New Orleans visitors, featuring diverse geometric shapes and angles, leaning walls and unusual material applications. The construction team overcame many challenges, including incorporating an existing 150-year-old wall with an unstable foundation into the new building, and installing a special effects pit located just five feet above sea level. In the end, Satterfield & Pontikes' efforts saved the owner more than \$1 million.

Building Under \$10 million New

Texas Christian University Mary Wright Admissions Building

Fort Worth, TX

Linbeck Group, LLC

The Mary Wright Admission Center is a 13,000 square foot facility that serves as an undergraduate recruiting center. The project was completed 23 days early, despite record-breaking heat and rain and mid-project changes to the design. The team also delivered a Leadership in Energy and Environmental Design (LEED)-certified Gold facility, although the client anticipated only LEED Silver, and utilized new construction modeling technology known as Building Information Modeling (BIM).

Building Renovation

Arena State Expansion and Renovation

Washington, D.C.

Clark Construction Group

Clark Construction Group transformed a decades-old, two-theater facility into the state-of-the-art Arena Stage at the Mead Center for the Performing Arts, featuring three theaters enclosed in a transparent glass curtain wall system under a white curving roof. The two existing theaters were fully renovated, which included carefully restoring plaster, concrete and woodwork, and installing new rigging and control booths. Clark was also able to reduce the original budget by \$20 million to meet the Arena Stage's available funds.

Building Under \$10 million Renovation

The Cathedral of St. John the Baptist Restoration and Steeple Addition

Charleston, SC

Hightower Construction Company Inc.

The Cathedral of St. John the Baptist was restored to its 1907 splendor and now includes a steeple to replicate the cathedral that had burned in its place in the Great Fire of 1861. Hightower Construction Company completed the project with an unblemished safety record while utilizing unique and innovative construction methods.

Construction Management New

Dana Farber Cancer Institute Yawkey Center for Cancer Care

Boston, MA

Walsh Brothers, Incorporated

The Yawkey Center for Cancer Care is a 275,000 square foot, 14-floor facility that includes 100 exam rooms, 15 consultation rooms, clinical research areas, a dining facility, a healing garden, and a seven-level underground garage. Walsh Brothers' experience building in downtown Boston and health care construction expertise allowed them to help design and build a medical tower without disrupting neighboring institutions.

Construction Management Renovation

University of Michigan Football Stadium Expansion & Renovation

Ann Arbor, MI

Barton Malow Company

Barton Malow Company developed three construction "seasons" that included installing new underground utilities, new club seating, 81 suites, 2,952 club seats, two upper concourses and 22 freestanding buildings while avoiding interrupting sixteen home football games, two spring commencements and two spring football games. With more than 11,000 safety huddles and toolbox talks, this major renovation and expansion was completed without incident, despite more than 100,000 fans passing through an active construction site during the football season.

Design-Build New

NCDOT US 17 Washington Bypass

Washington, NC

Flatiron Constructors Inc.-United Infrastructure Group Inc., A Joint Venture

Flatiron and United received the award for developing a new top-down construction approach specifically designed and built for this project, resulting in minimal impact to the wetlands and an accelerated construction schedule. It was the world's first application of a pile driving operation from an erection gantry, and offered a safer way to build the bridge by eliminating the need for construction of a temporary work bridge.

Design-Build New

New Meadowlands Stadium

East Rutherford, NJ

Skanska

The New Meadowlands Stadium is a 2.1 million square-foot facility that includes seating for 82,500 people, 217 suites, upscale clubs, and upgraded pedestrian circulation to reduce bottlenecks and improve traffic flow. The new stadium was completed on budget and five months ahead of schedule. Enhanced site safety, cutting edge technologies and strong communication contributed to the project's overall success.

Design-Build Renovation

The University of Texas MD Anderson Cancer Center Albert B. and Margaret M. Alkek Hospital Expansion
Houston, TX

McCarthy Building Companies, Inc. – Texas Division

McCarthy Building Companies overcame numerous obstacles, including tight space, noise and infection control, to more than double the height of the hospital, adding 503,000 square feet of space. The limited site footprint required the team to build the 12-story expansion around a single tower crane erected in an existing elevator shaft, and then lift sections through the shaft piece by piece. After 31 months of being on call 24 hours a day, 7 days a week, McCarthy completed the project on time and on budget.

Environmental New

Round Butte Dam Selective Water Withdrawal Project

Madras, OR

Barnard Construction Company, Inc.

The Round Butte Dam Selective Water Withdrawal project is located in central Oregon's Lake Billy Chinook and was created to allow for fish collection and transfer downstream of the dam. The team performed underwater excavation, drilling and grouting using remotely operated vehicles to avoid making risky and time-consuming dives. This one-of-a-kind, highly technical project required more than five million pounds of steel, fabricated into thousands of pieces, delivered in 204 truckloads and constructed in 270 feet of water.

Environmental Renovation

Savage Rapids Dam Removal

Grant Pass, OR

Slayden Construction Group, Inc.

The Savage Rapids Dam Removal project removed a 90-year-old dam that was originally constructed to divert water from the Rogue River to supply irrigation water to local farmers. The original dam impacted 500 miles of upstream spawning habitat of salmon and steelhead, blocking fish migration and degrading water quality and habitat. Slayden built new pumping and conveyance pipeline facilities to replace the dam and removed the Savage Rapids Dam. The project was completed on time and budget.

Federal & Heavy New

NASA Mobile Launcher

Kennedy Space Center, FL

Hensel Phelps Construction Co.

The NASA Mobile Launcher is designed to support the next generation of manned space exploration. The Mobile Launcher contains two main components: the Mobile Launcher Base, a 25-foot steel section on girder and pipe trusses that contains the facility ground systems, and the Mobile Launch Tower, a 359-foot pipe steel tower that consists of multiple platforms for personnel access and utilities for future rocket use. While two major redesigns, including an almost complete redesign of the electrical system, could have set the project back by months, the team worked 24 hours a day, seven days a week to complete the project on time.

Federal & Heavy Renovation

Seal Observation Facilities Construction Project

St. Paul Island, AK

WPC

WPC, which won for best renovation of a federal and heavy construction project, repaired a series of towers and walkways the National Oceanic and Atmospheric Administration uses to observe and count the seal population on St. Paul Island, Alaska. This project required replacing seven towers and 1,000 feet of walkways in the small window of time the seals migrate from the island. Despite average daily temperatures below zero, strong winds and frequent whiteout conditions, the WPC team completed the project with zero accidents and no loss time injuries.

Highway & Transportation New

Pioneer Crossing Design-Build Project

American Fork, UT

Kiewit/ Clyde, A Joint Venture

The Pioneer Crossing Highway and Interchange project is six miles of a new east-west highway from American Fork Main Street to Redwood Road in Saratoga Springs. The project included installing twin, two-span prestressed concrete girder structures, in addition to a new waterline for the Central Utah Water Conservancy District, new bridges and five to seven highway lanes. The concept for the interchange was developed by the Kiewit/Clyde team to increase capacity, enhance safety, and allow for more efficient traffic flow, while saving \$20 million.

Highway & Transportation Under \$10 million Renovation

Idaho Transportation Department SH-78 Givens Hot Springs

Givens Hot Springs, ID

Idaho Sand & Gravel Company

The renovation of Idaho's State Highway 78 was a \$2.6 million project to repave 40 lane miles of highway. The project team partnered with the Idaho Transportation Department to use "Warm Mix Asphalt," a new innovative paving technique to reduce greenhouse gas emissions while meeting the 28 day timeline and completing on budget.

Highway & Transportation Renovation

Hood Canal Bridge Retrofit and East Half Replacement

Puget Sound, WA

Kiewit-General, A Joint Venture

The Hood Canal Bridge is the longest floating salt water bridge in the world, at 6,350 feet, located over the Hood Canal in the Puget Sound region of Washington State. Much of the work for the project to retrofit and replace part of the bridge was performed on pontoons and required components to be floated out of a graving dock with only inches of clearance above the floor. The team used the largest floating crane on the west coast and finished the work eight days ahead of schedule, while also working closely with the U.S. Navy to ensure submarine traffic was not delayed.

International New

Umm Qasr Pier and Seawall

Umm Qasr, Iraq

West Construction Company, CCI Inc.

Lead Architect and Engineer: PND Engineers

The Umm Qasr Pier and Seawall is a strategic shipping area for Iraq and is often the target for unfriendly groups throughout the region. West Construction Company was on site within days of receiving a request for assistance to construct a vital pier. Because the fixed portion of the pier was on unstable soil, the work was completed from a barge instead of on land. The work force was 70 percent Iraqi, requiring West Construction to train more than 60 individuals in surveying, pile driving and heavy equipment operation.

Municipal & Utilities New

Lake Oswego Interceptor Sewer Project

Lake Oswego, OR

Advanced American Construction, Inc.

The Lake Oswego Interceptor Sewer project is a large and dramatic new system that replaced a 50-year-old corroded and hazardous sewer line. The project required crews to drill 270 feet into bedrock to install anchors for the system. The work was heavily regulated to ensure there was no impact on recreational activities, local business operations and environmental practices for lake residences. The project was completed without any lost time accidents and included more than 1,200 commercial dives.

Municipal & Utilities Renovation

Val Vista Water Main Rehabilitation CMAR

Phoenix, AZ

Kiewit Infrastructure West Co.

The Val Vista Water Main Rehabilitation project is a critical piece of infrastructure that transports drinking water to as many as 60 percent of Phoenix's population. Due to short construction windows, the team used special technology that eliminated the need to excavate from outside the pipeline and minimized impact on the surrounding communities. The result was the largest project of its kind performed in the United States, and included nearly 31,100 feet of pipeline.