

# AGC 2014

BUILD WASHINGTON AWARDS



May 16, 2014 • Seattle Daily Journal of Commerce



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You're not fully connected with the construction industry unless you're connected with AGC. You can bet, though, that many of your peers, your customers and your *competitors* are. From a regular offering of industry forums, forecasts and networking events to weekly news on everything from new technologies, business practices and the latest on the legislative and regulatory fronts, AGC is your eyes, ears and voice to the industry. ***You really need to be here.***

**For more information about what AGC membership can do for you and your organization**, call today and talk with membership-services manager Stacy Mullane at 206.284.0061, or email her at [smullane@agcwa.com](mailto:smullane@agcwa.com).



# LYDIG, CENTENNIAL WIN TOP AGC AWARDS

Associated General Contractors of Washington recognized some of the state's most successful projects and people at its 2014 Build Washington Awards event, emceed by Dave Ross of KIRO radio at the Bellevue Hyatt Regency on May 15.

"AGC is proud to once again recognize so many outstanding people, projects and safety programs," said AGC President Joe Simmons of Joseph S. Simmons Construction.

"What we are really celebrating is teamwork, and the outstanding partners who have played a critical role in the success of some complex and challenging projects."

The grand award for construction went to Lydig Construction of Bellevue for the 2020 Fifth Avenue Data Center project. Centennial Contractors Enterprises of Fife received the grand award for safety. Lease Crutcher Lewis won the AGC-Moss Adams Service to the Community Award.

Brandon Dully with Guy F. Atkinson Construction was named project manager of the year, Brett Armstrong of Exxel Pacific was named superintendent of the year, and Joe Sadler, also of Exxel Pacific, received the Brian Salsgiver Safety Professional of the Year award.

Judges for the safety excellence awards were Sathy Rajendran from Central Washington University, Ken-Yu Lin from the University of Washington, Anne Soiza from the state Department of Labor and Industries, and Eliot Lapidus from the Oregon Columbia Chapter of AGC.

Construction excellence award judges were Paula Hammond from Parsons Brinckerhoff, Ben Minnick from the Seattle Daily Journal of Commerce, Russ Hazzard from MulvannyG2 Architecture, Brian Ziegler from Pierce County Public Works and Utilities, and Ed Simpson from Western Washington University.

Moss Adams LLP sponsors the AGC Build Washington Awards program.



## ON THE COVER

Lydig Construction was the construction grand award winner for transforming a mid-1970s Seattle parking garage into a data center. Lydig was the category winner for private buildings between \$50 million-\$100 million.

PHOTO BY JON SILVER

## DJC TEAM

SECTION EDITOR: JON SILVER • SECTION DESIGN: JEFFREY MILLER  
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### GRAND AWARDS

#### Construction

2020 Fifth Avenue Data Center • Lydig Construction

#### Safety

Centennial Contractors Enterprises

#### AGC-Moss Adams Service to the Community Award

Lease Crutcher Lewis

### CONSTRUCTION AWARDS

#### Public building Under \$10 million

Vehicle barrier system • Washington Patriot Construction

#### \$10 million-\$25 million

Tioga Library • Korsmo Construction

#### \$25 million-\$50 million

Central pre-conditioned air project • Lydig Construction

#### \$50 million-\$100 million

Mercer Court student housing • W.G. Clark Construction

#### Over \$100 million

Husky Stadium renovation • Turner Construction

#### Private building Under \$10 million

Nisqually tribal administration building • Korsmo Construction

#### \$10 million-\$25 million

Northwest School 401 E. Pike building • Exxel Pacific

#### \$25 million-\$50 million

The Martin apartments • Exxel Pacific

#### \$50 million-\$100 million

2020 Fifth Avenue Data Center • Lydig Construction

#### Over \$100 million

Via6 • Lease Crutcher Lewis

#### Tenant improvements Under \$5 million

Westland Distillery • Abbott Construction

#### Over \$5 million

Concur • Turner Construction

#### Heavy/industrial

Cushman Dam No. 2 North Fork powerhouse and fish passage • Harbor Pacific

#### Highway and transportation

I-5 Skagit River Bridge emergency repair • Guy F. Atkinson Construction

#### Technology excellence

Turner Construction

### SAFETY AWARDS

#### Construction managers

##### Under 100,000 hours

Centennial Contractors Enterprises

#### Subcontractors

##### Under 250,000 hours

Mills Electric

##### 250,000-400,000 hours

Cobra Building Envelope Contractors

#### Over 400,000 hours • most improved

University Mechanical Contractors

#### General contractors

##### Under 150,000 hours

Washington Patriot Construction

##### 150,000-250,000 hours

Foushee & Associates  
PCL Construction Services

##### 250,000-300,000 hours

Walsh Construction Co.

##### Over 300,000 hours

Exxel Pacific

#### Most improved

Adolfson & Peterson Construction

### RECOGNITION AWARDS

#### Superintendent of the year

Brett Armstrong • Exxel Pacific

#### Safety professional of the year

Joe Sadler • Exxel Pacific

#### Project manager of the year

Brandon Dully • Guy F. Atkinson Construction



GRAND AWARD  
CONSTRUCTION

PRIVATE BUILDING

\$50 MILLION-\$100 MILLION



The 2020 Fifth Avenue Data Center is operated from the Westin Building. This steel-and-glass skybridge links the two buildings.

PHOTO BY JON SILVER



Winner of the SAFETY EXCELLENCE AWARD

Exxel Pacific would like to thank all of our associates and team members for their commitment to safety on our projects and in their help to win this distinctive award.

Safety is the top priority for Exxel Pacific and we appreciate the efforts of all involved in making Exxel Pacific a safe place to work.



## 2020 FIFTH AVENUE DATA CENTER

**Location:** Seattle

**General contractor:** Lydig Construction

**Owner/developer:** Clise Properties and Digital Realty Trust JV

**Primary designer:** Sclater Partners Architects

The 2020 Fifth Avenue Data Center is located in one of Seattle's busiest and densest areas.

The project transformed a dated parking garage into a state-of-the-art data center. Work included dismantling the structure's top three levels, and adding four floors of new construction and two MEP mezzanine levels.

Two stories were excavated below the structure to accommodate fuel storage tanks, transformers and electrical switch gear, water storage tanks, and mechanical and electrical spaces.

To provide sufficient data security, the facility was built to withstand significant seismic events, power outages and extreme weather.

With the project's dense urban setting, lay-down areas were nonexistent. The project team managed just-in-time deliveries in tandem with the prefabrication of system components and delivered materials vertically through the building, all without disrupting the adjacent properties.

The data center itself is operated from the adjacent Westin Building. To accommodate this critical communication, a fully enclosed steel-and-glass skybridge was installed between the buildings, with additional connections to the Westin garage and the Sixth & Lenora Building.

With 50,482 worker hours the project incurred only one recordable injury. The project is targeting a LEED gold rating.



## AGC/Moss Adams Service to the Community Award

### LEASE CRUTCHER LEWIS

Obliteride is the Fred Hutchinson Cancer Research Center's annual bicycling-community fundraiser for cancer research.

Lewis led the No. 1 fundraising and No. 1 rider/volunteer team in 2013's inaugural event. Funds will be used to support promising research in the areas of highest need, as well as prostate cancer and pediatric brain cancer.

From the start, the Lewis team decided to go big. In early 2013, Lewis leaders were approached by Fred Hutch to support their idea to hold a bike-ride fundraiser to help "obliterate cancer," and immediately signed on and committed \$40,000 to be the volunteer program sponsor. Lewis also helped promote the event through blogs, jobsite signage and construction-community contacts.

Lewis commissioned a custom-designed bike jersey that sported the logos of client and subcontractor partners, and dozens of Lewis employees volunteered at the event. (A Lewis employee's family of six — including kids! — was so inspired by the Obliteride effort that they made the trip up from Portland just to volunteer.)

In the end, Lewis garnered pledges from hundreds of sources to raise over \$126,000, and their team of 91 riders and volunteers set a record for participation.

The event raised more money for a local organization than any other bicycling fundraiser in the Northwest — a whopping \$1.9 million for cancer research.

Lewis has already committed to once again be the event's volunteer program sponsor.



Lewis was the largest participant in Fred Hutchinson's Obliteride cycling event last year, and raised over \$126,000 for cancer research.

PHOTO COURTESY OF LEASE CRUTCHER LEWIS

*We are grateful for this unique experience and the lasting relationships developed from this project.*

Construction Excellence Award Winner | Westland Distillery  
 AGC Build Washington Awards - Tenant Improvement under \$5 million  
 Abbott Construction • Westland Distillery • Urbanadd Architecture + Design

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## PUBLIC BUILDING

UNDER \$10 MILLION

## VEHICLE BARRIER SYSTEM

**Location:** Silverdale**General contractor:** Washington Patriot Construction**Owner/developer:** Naval Facilities Engineering Command Northwest**Primary designer:** Public Works Department, Naval Base Kitsap-Bangor

Washington Patriot Construction faced the challenge of installing a vehicle barrier system at locations that were nothing like the testing locations.

The company developed a technique that allowed the barrier to follow the terrain. The system needed to bend around duct banks in order for intermediate posts to be installed.

Project sequencing consisted of installing 2 miles of various barrier types and their foundations around undocumented underground utilities. The company chose to install intermediate posts that support the barrier system after the termination-post locations were set, enabling them to move the system between the termination posts in and out along the changing topography and avoiding underground utility locations.

Washington Patriot effectively scheduled their workforce and mitigated material-delivery issues to finish ahead of schedule. Their team worked a total of 19,429 hours with no incidents or accidents, and received an interim performance evaluation from Naval Facilities Engineering Command Northwest that rated them above average.

Washington Patriot installed 2 miles of vehicle barriers around undocumented underground utilities at Naval Base Kitsap.



PHOTO COURTESY OF WASHINGTON PATRIOT CONSTRUCTION

GRAND AWARD  
SAFETY

CONSTRUCTION MANAGER: SAFETY

UNDER 100,000 HOURS

## CENTENNIAL CONTRACTORS ENTERPRISES

Personal health and safety are of the highest importance at Centennial, and are achieved through visible and engaged leadership. Examples include involvement in project planning, active coordination and inspections, and positive interaction with employees and business partners to encourage safe behavior.

Managers at all levels are fully accountable for the safety performance of their employees and subcontracted workers.

Centennial's regional managers inspect projects every quarter for safety concerns and to ensure that processes and procedures align with the firm's safety mission and organizational vision. This visible participation helps to validate their process and establishes a strong sense of health and safety accountability at all levels.

Centennial recently identified a need to modify and update their health, safety, environmental and quality procedures to properly manage the scope of business activities and to streamline guidance for employees and business partners regarding their health- and safety-related processes.

This significant change required comprehensive training and education to provide staff with the tools to implement the system. To facilitate this, Centennial has developed a project safety officer "road show" to provide in-person training to all of its employees across the country. This strategy has received substantial positive feedback from managers and employees, and has allowed the organization to move forward.

Another need that was identified was the gap between classroom safety training and real-world jobsite safety. Centennial bridged this gap by designing a process to regularly get their safety team in the field to mentor and educate project staff and subcontractors. This instruction covers execution of project startup processes, review of project-specific safety rules, jobsite safety orientation for subcontractors and site visitors, jobsite safety inspections and more.



Centennial regularly sends its safety team into the field to reinforce classroom safety lessons.

PHOTO COURTESY OF CENTENNIAL CONTRACTORS ENTERPRISES

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**PUBLIC BUILDING**

\$10 MILLION-\$25 MILLION

**TIOGA LIBRARY**

**Location:** Tacoma  
**General contractor:** Korsmo Construction  
**Owner/developer:** University of Washington Tacoma  
**Primary designer:** THA Architecture

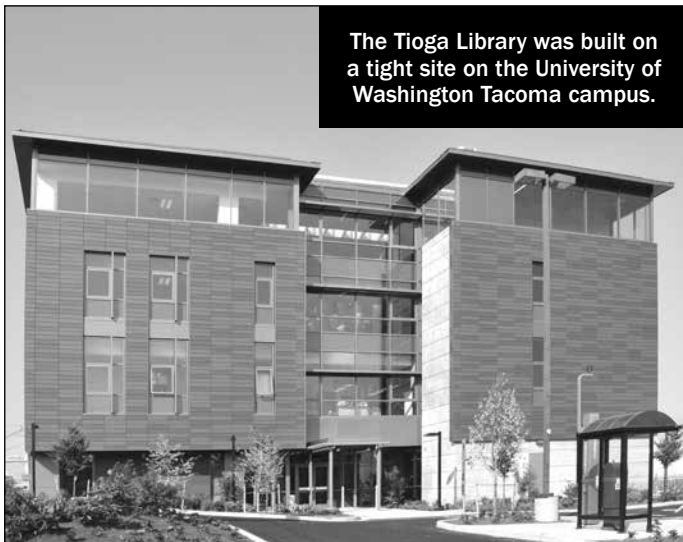
University of Washington Tacoma's Tioga Library project was essentially an existing building located within the new building footprint, presenting a real challenge in minimizing impacts to the adjacent street.

Korsmo and the design team worked with the city of Tacoma and developed a lagging wall design that was placed as the foundation was demolished from the top down.

The building was constructed on a tight site on an active college campus — a constant challenge that required ongoing planning and frequent modifications.

The project was completed in 16 months without a single public incident and ended with an incident rate of 5.2 with all trades and hours included.

UWT representative Lanie Ralph said, "I believe what made (Korsmo) so successful was their exemplary skills in pre-construction services, schedule, cost control, field supervision and communication... I strongly encourage any owner to consider them for their construction projects."



The Tioga Library was built on a tight site on the University of Washington Tacoma campus.

PHOTO COURTESY OF KORSMO CONSTRUCTION

**PUBLIC BUILDING**

\$25 MILLION-\$50 MILLION

**CENTRAL PRE-CONDITIONED AIR PROJECT**

**Location:** SeaTac  
**General contractor:** Lydig Construction  
**Owner/developer:** Port of Seattle  
**Primary designer:** Stantec

Interior aircraft temperatures must be maintained at 68 to 70 degrees and are typically controlled by systems that burn expensive jet fuel.

The pre-conditioned air project is a new system of chillers, heaters and pipes that conditions aircraft interiors from a central plant in the terminal at Seattle-Tacoma International Airport. The new system's financial and environmental benefits are significant, generating annual savings of nearly \$14 million.

The most challenging part of this project was the piping installation. Glycol piping is large and very heavy because it is full of liquid. This project included installation of 15 miles of piping, reaching 73 gates.

The project team designed each and every pipe route, hanger location and many other components that meander through a sea of existing conveyor belts and utility infrastructure. Additionally, the team focused on design details that cut several million dollars in potential construction costs.



Aircraft at Sea-Tac Airport are now heated and cooled at the gate from a central plant in the terminal.

PHOTO COURTESY OF LYDIG CONSTRUCTION

# Congratulations to the AGC's 2014 Build Washington Award Winners



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## PUBLIC BUILDING

\$50 MILLION-\$100 MILLION

## MERCER COURT STUDENT HOUSING

**Location:** Seattle**General contractor:** W.G. Clark Construction**Owner/developer:** University of Washington Housing and Food Services**Primary designer:** Ankrom Moisan Architects

Mercer Court is a 463,500-square-foot, five-building complex that houses over 1,300 students on the University of Washington campus.

It includes a mixture of studio and two- to six-bedroom apartments. The facility includes a large fireplace lounge, indoor bike storage, music practice rooms, rooftop lounge/study areas, a great room with a games area, and laundry facilities that utilize a rainwater collection cistern as their primary source of water.

An on-site specialty coffee shop and coffee roasting facility sits alongside the Burke-Gilman Trail, which was reconstructed as part of this project. The grounds include farm plots that are run and maintained by UW Farms, where students grow and gather produce.

W.G. Clark provided extensive pre-construction services for the project, including constructability and material analysis, estimating, scheduling, LEED and sustainability analysis. The project is slated to achieve LEED gold certification.



W.G. Clark reworked the construction schedule to allow two extra months of design time without delaying the completion date.

PHOTO BY CHRIS ROBERTS

## PUBLIC BUILDING

OVER \$100 MILLION

## HUSKY STADIUM RENOVATION

**Location:** Seattle**General contractor:** Turner Construction**Owner:** University of Washington**Developer:** Wright Runstad & Co.**Primary designer:** 360 Architecture

Working together to promote a clean and efficient construction site was instrumental in meeting the rigorous schedule for the University of Washington's Husky Stadium renovation. By embracing lean principles, Turner cut time, labor and material usage, reducing cost that could be put back into the project.

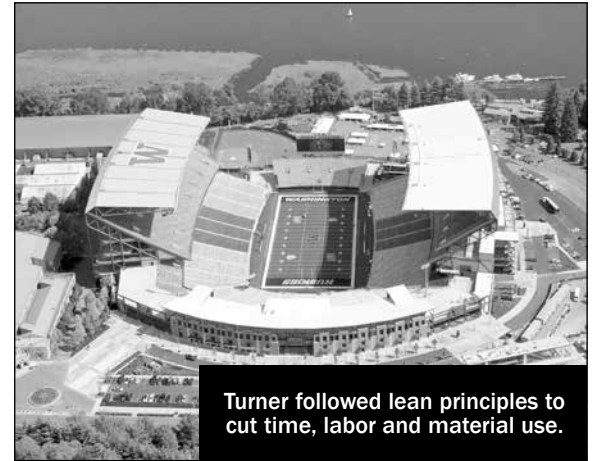
While finishing up pre-construction, Turner mobilized on site and completed underground utility work early.

Turner's concrete team developed a portable tent system to travel up the stadium bowl as pours were made to ensure that inclement weather did not impact the schedule or quality. This type of innovation and quality control set the standard for work across all trades.

Early coordination allowed Turner to plan for public safety and keep the neighboring Sound Transit and pedestrian bridge projects proceeding without disruption to each other.

Turner also accommodated UW Athletics operations during construction, maintaining access to the football practice and softball fields during construction.

Over 1 million worker hours were logged without a lost-time incident.



Turner followed lean principles to cut time, labor and material use.

PHOTO COURTESY OF TURNER CONSTRUCTION

## Thank you to our award winning teams

Korsmo Construction would like to thank everyone involved in making these projects AGC of WA Construction Excellence Award winners.



UW - Tacoma Tioga Library Building

Nisqually Tribal Administration Building



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PRIVATE BUILDING

UNDER \$10 MILLION

# NISQUALLY TRIBAL ADMINISTRATION BUILDING

**Location:** Olympia  
**General contractor:** Korsmo Construction  
**Owner/developer:** Nisqually Indian Tribe  
**Primary designer:** Womer & Associates

This 26,000-square-foot facility provides offices for several of the Nisqually Tribe's agencies.

Korsmo helped to provide constructability solutions for many features, including a custom roofing system, interior water feature and cable-supported glass wall system that placed high tension on the structure.

Integrating some of these systems required that Korsmo maintain tolerances as little as an eighth of an inch across multiple structural elements over several hundred feet, both vertically and horizontally.

The Korsmo team provided 40-foot cedar trees that were hollowed and hand-peeled for interior and exterior 8-inch steel columns. This required special attention, keeping specific trees together through the milling process while acclimating them within the building.

Korsmo also committed to 25 percent of their workforce being from Native American tribes, selecting first from the Nisqually Tribe. A custom training packet was developed for Korsmo's safety director to use with new hires prior to their starting work, some of whom had never before worked on a construction site.



A quarter of the Korsmo workforce came from Native American tribes, some of whom had never worked on a construction site.

PHOTO COURTESY OF KORSMO CONSTRUCTION



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## PRIVATE BUILDING

\$10 MILLION-\$25 MILLION

# THE NORTHWEST SCHOOL 401 E. PIKE BUILDING

**Location:** Seattle**General contractor:** Exxel Pacific**Owner/developer:** The Northwest School**Primary designer:** Mithun

The Northwest School's new 38,300-square-foot building houses dining, theater and athletic facilities. The building's many uses and urban location in Seattle's Capitol Hill neighborhood posed numerous challenges.

Problem-solving, detailed scheduling, close teamwork and a detailed analysis of each building component were crucial to the project's success.

One of the most challenging portions of the project was the stacking of different types of uses on top of each other, such as a commercial kitchen over a performing arts theater.

Typically routine roof construction was made far more challenging due to the installation of a synthetic-turf sport court over the roofing membrane.

Building-information modeling was used extensively to coordinate the massive mechanical and HVAC needs required to properly service the school's large assembly spaces.

Site constraints were also very significant. Three sides of the project were deemed off limits for construction due to neighboring business, existing structures and public use.

Project complexities required that the construction team had to value engineer nearly 10 percent out of the budget in just 45 days. There were no time-loss injuries over the 14-month project.



A synthetic-turf sport court was installed over the roofing membrane, adding complexity to the project.

PHOTO COURTESY OF EXXEL PACIFIC

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**PRIVATE BUILDING**

**\$25 MILLION-\$50 MILLION**



A 10,280-panel steel art wall around the lower floors was fabricated off site and hung as modules to reduce installation time.

PHOTO BY LARA SWIMMER

**THE MARTIN APARTMENTS**

**Location:** Seattle  
**General contractor:** Exxel Pacific  
**Owner/developer:** Vulcan Real Estate  
**Primary designer:** Callison

The Martin is the first project in the nation to utilize steel fibers as link-beam reinforcing steel, which helped solve challenges of working in a congested area.

Surrounding the above-grade garage is a unique art wall with 10,280 perforated stainless-steel panels that sway in the breeze. With early coordination between Exxel Pacific and the fabricator, the panels were fabricated off site and hung as modules on site.

The team utilized building-information modeling technology to coordinate multiple trades and allow a significant portion of the electrical and plumbing distribution to be integrated into the slab.

Vertical construction on a congested downtown site is always a challenge to do safely. The site was adjacent to the monorail and a busy pedestrian corridor. Exxel utilized converted shipping containers to build a covered sidewalk corridor to allow for continuous pedestrian use.

With 358,824 man-hours worked, the project had no time-loss injuries, and the project was delivered one week ahead of schedule and under budget.

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## PRIVATE BUILDING

OVER \$100 MILLION

# VIA6

**Location:** Seattle

**General contractor:** Lease Crutcher Lewis

**Owner/developer:** Pine Street Group

**Primary designer:** GGLO

Lewis completed Seattle's largest-ever single-phase apartment project on time and under budget. The Via6 complex has two 24-story towers, 18,000 square feet of street-level retail and below-grade parking for 434 vehicles.

The project was put on hold during the market slowdown so it was important to substantially reduce the budget to meet the new pro forma.

Lewis chose to be aggressive in the guaranteed price, and improved their anticipated labor productivities for self-performed work by more than 10 percent from any previous Lewis project — a reduction of over 20,000 hours. An aggressive subcontractor market also helped Lewis to meet the owner's target budget, but also meant that extremely aggressive targets for direct labor needed to be met.

Lewis beat their aggressive labor rates by 10 to 15 percent, saving more than \$1 million on self-performed work.

The project included more than 50 subcontractors and over 226,000 worker hours, and incurred zero time-loss injuries. The project is certified LEED gold.




According to owner consultant Chris Raftery, "(Via6) is one of the best planned and well-run construction projects that I have seen."




Lewis set aggressive time and cost goals for Via6, saving more than \$1 million for self-performed work.

PHOTO COURTESY OF TIM RICE PHOTOGRAPHY


**The Martin**  
Winner of the 2014 AGC Build Washington Awards  
for Construction Excellence




Thank you to everyone who contributed to the success of this outstanding project!



**The Northwest School of the Arts and Humanities**  
Winner of the 2014 Build Washington Award  
for Construction Excellence



Thank you to all who contributed to this unique & amazing project!

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## TENANT IMPROVEMENT

UNDER \$5 MILLION

# WESTLAND DISTILLERY

**Location:** Seattle  
**General contractor:** Abbott Construction  
**Owner/developer:** Westland Distillery  
**Primary designer:** Urbanadd

The Westland Distillery project in Sodo required expertise and precision typical of medical buildings and other highly complex projects, with mechanical systems capable of evacuating thousands of gallons of liquid in the event of a spill, and blast-protection elements in the event of an explosion.

The project called for several design features that used reclaimed or locally sourced wood. Entire vertically cut tree slabs were milled for the reception and tasting bar counters, and significant effort was spent locating and pricing materials, setting manufacturing tolerances and coordinating design and installation.

The project was completed in just over 10 months with no lost time.

“We are most pleased with Abbott Construction in the building of our distillery headquarters,” said Emerson Lamb, president of Westland Distillery.

“The work was performed on time, on budget and resulted in a world-class facility. We give to them our full and uncompromised support in seeking any recognition for their work on this project. It is certainly well-deserved.”



The distillery required mechanical systems capable of evacuating thousands of gallons of liquid in case of a spill.

PHOTO COURTESY OF ABBOTT CONSTRUCTION

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## TENANT IMPROVEMENT

OVER \$5 MILLION

# CONCUR

**Location:** Bellevue

**General contractor:** Turner Construction

**Owner/developer:** Concur

**Primary designer:** JPC Architects

The Concur tenant-improvement project encompassed six floors of a Bellevue office tower and was performed in three phases.

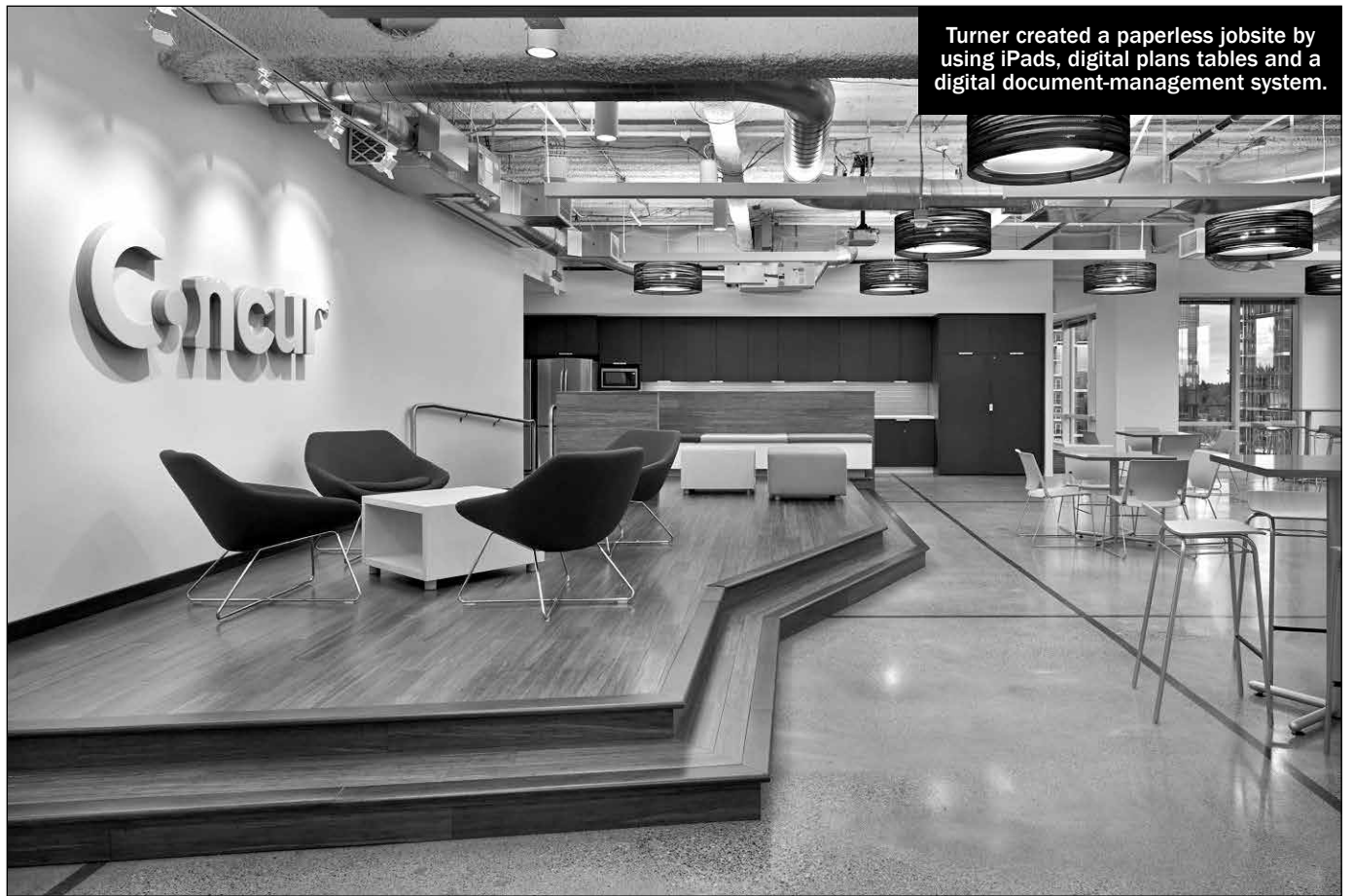
It included an extensive demolition, new office layout, wall system, HVAC work, lobby upgrades, break areas, usability labs, conference rooms, glass fronts, fireproofing and the addition of a steel staircase.

The entire jobsite was virtually paperless through use of iPads, digital plans tables and a digital document-management system called c.docs that was used not only by Turner, but all the subcontractors as well.

Turner also created an innovative punch-list system by building a rolling work station that allowed the project team to efficiently tour the project and identify all issues. All punch-list items were then documented via Turner's document-management system and communicated to all parties.

"I would like to again say thank you to the Turner team for the consistent focus and detailed management to knock this project out of the park," said John B. Gillespie, senior project manager for the landlord, Kilroy Realty Corp.

"You have delivered this project faster than the lease negotiations ever thought possible, and with no overtime cost, to allow the schedule to be realized."



Turner created a paperless jobsite by using iPads, digital plans tables and a digital document-management system.

PHOTO COURTESY OF TURNER CONSTRUCTION

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HEAVY/INDUSTRIAL

# CUSHMAN DAM NO. 2 NORTH FORK POWERHOUSE AND FISH PASSAGE

**Location:** Hoodspout, Mason County  
**General contractor:** Harbor Pacific Contractors  
**Owner/developer:** Tacoma Power  
**Primary designer:** City of Tacoma

This project consisted of a new powerhouse and an innovative fish-collection and transportation system at Cushman Dam.

Harbor Pacific Contractors engineered and built the 500,000-pound concrete fish-collection structure in the dry area above the dam using a temporary frame and platform. This frame was then utilized to lower the structure into the water where it was grouted to the riverbed.

A 25-ton excavator was used, disassembled and at the site and lowered down to the dam's base for reassembly.

Other project challenges included access logistics, precision rock blasting, geotechnical construction, engineered heavy crane picks and mechanical commissioning, poor rock conditions, and installation of micropile anchors through rubble.

HPC used a negative-pressure cofferdam to contain silt from excavation and high-pH slurry from underwater concrete pours. HPC's high-capacity pumping system pulled fresh river water into the cofferdam, preventing exfiltration. Silty and high-pH water was then pumped nearly half a mile away to a settling pond.

There was not a single environmental incident through the life of the project.



The powerhouse and fish-passage system at Cushman Dam were completed without a single environmental incident.

PHOTO COURTESY OF HARBOR PACIFIC CONTRACTORS



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## HIGHWAY AND TRANSPORTATION

# I-5 SKAGIT RIVER BRIDGE EMERGENCY REPAIR

**Location:** Mount Vernon

**General contractor:** Guy F. Atkinson Construction

**Owner/developer:** Washington State Department of Transportation

**Primary designer:** Washington State Department of Transportation

On May 23, 2013, a portion of the Skagit River Bridge collapsed after being struck at 7 p.m. by a truck, closing Interstate 5 the day before Memorial Day weekend.

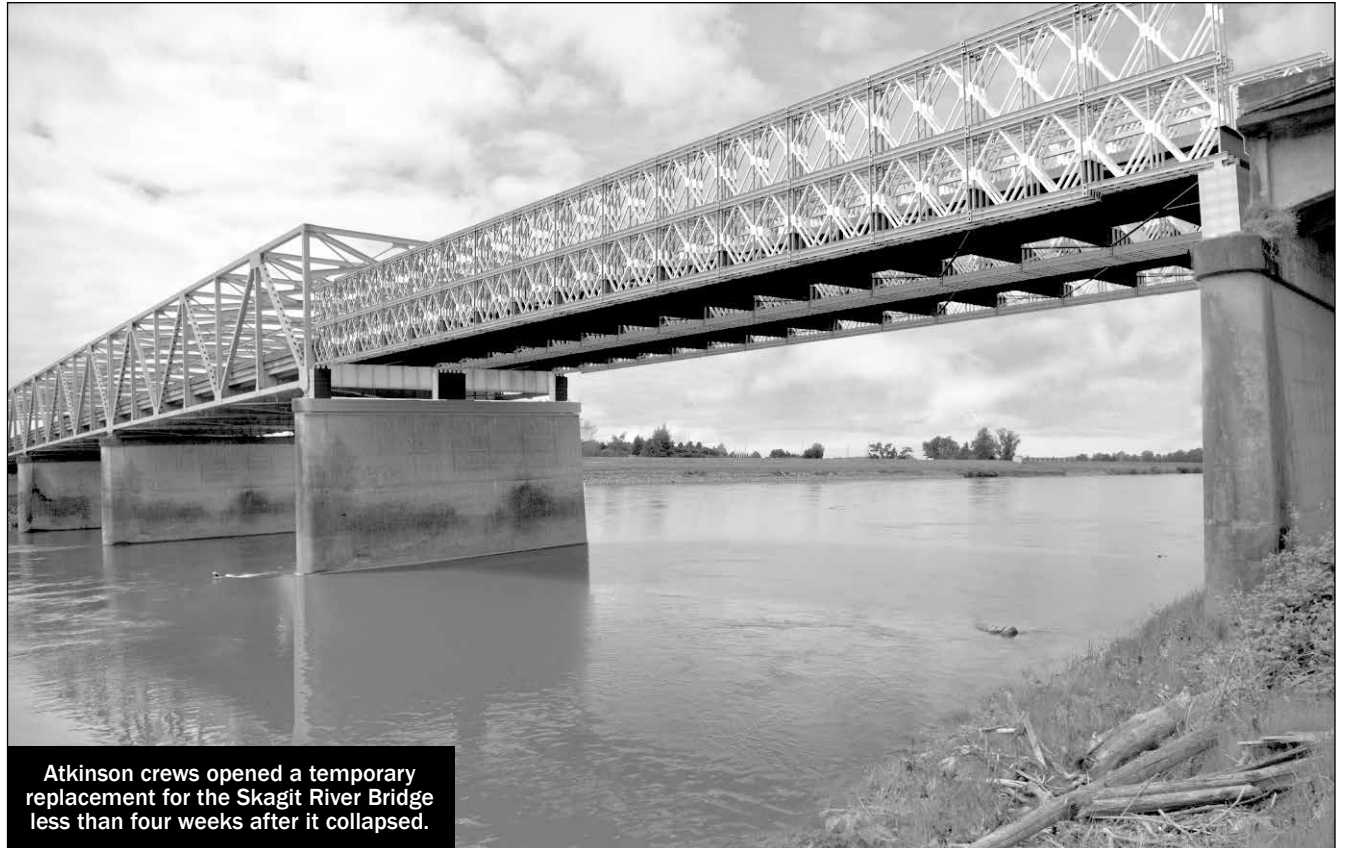
At 11 p.m. the Washington State Department of Transportation contacted Atkinson Construction, requesting available project manager, construction manager and craft/equipment resources.

The next morning WSDOT awarded the project to Atkinson and the contract was signed on site. Atkinson immediately loaded barges with equipment and mobilized more than 75 craftsmen to the site.

Atkinson crews worked around the clock seven days a week to complete the job. Demolition began May 26, temporary bridge replacement parts began arriving May 27, crews completed demolition on June 7 and pier retrofits on June 10, all while erecting the modular Acrow Corp. bridge just north of the river.

By June 19, they installed, paved, striped and opened the temporary bridge — less than four weeks after the collapse.

The project experienced zero recordable accidents or first-aid claims.



Atkinson crews opened a temporary replacement for the Skagit River Bridge less than four weeks after it collapsed.

PHOTO COURTESY OF GUY F. ATKINSON CONSTRUCTION

## TECHNOLOGY EXCELLENCE

Turner used a traveling formwork system that enabled its crews to save significant time and labor.

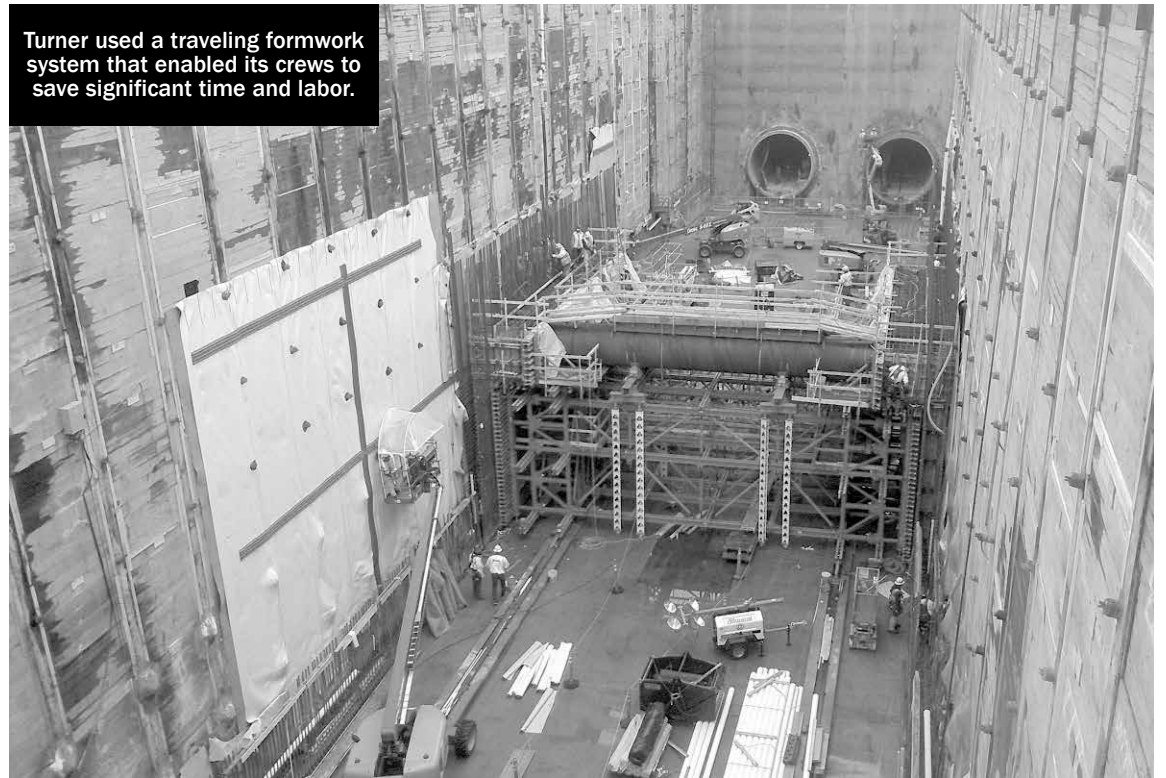


PHOTO COURTESY OF TURNER CONSTRUCTION

## TURNER CONSTRUCTION

An innovative traveler system was used at Capitol Hill light-rail station by Turner, which self-performed the project's concrete package.

The system allowed Turner to travel the entire length of the station box, pouring concrete in complete areas. The design team believed eight pours would be required per section to get from the ground level to the roof. The traveler system enabled the team to reduce the total number of pours from 216 to 108, with the truss system spanning the station interior and pouring walls on both sides simultaneously.

This innovative system resulted in time savings by using a five-man crew for a scope of work that would traditionally need a peak crew of 12 men. The system also eliminated the need for shoring towers, allowing other trades to work unencumbered.

Ultimately, over 29,000 cubic yards of concrete were placed by Turner's crew. The formwork system significantly decreased the project's schedule and cost while increasing safety and efficiency.



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## SUBCONTRACTOR: SAFETY

UNDER 250,000 HOURS

# MILLS ELECTRIC

Mills Electric is dedicated to continued education and stresses constant progression in their safety culture and programs.

They recently implemented the What's Your Exposure? behavior-based safety program. Mills holds daily safety meetings where safety behaviors are addressed, and incentive programs are in effect on each jobsite to promote safe behavior.

Mills' initial safety orientation is just a sample of what the firm's safety culture is all about. From there, employees are given site orientation, equipment training and daily safety training.

Mills has also recently implemented quarterly safety meetings for foremen and above to address safety procedures, regulations and programs. A Web-based database the company uses called OSCA offers access to employee training and certification documents.

At Mills, approaching safety in an organized manner facilitates a balance between safety, quality and results that adds to the bottom-line profitability of individual projects.



Mills Electric has incentive programs on each jobsite to promote safe behavior.

PHOTO COURTESY OF MILLS ELECTRIC

## SUBCONTRACTOR: SAFETY

250,000 - 400,000 HOURS

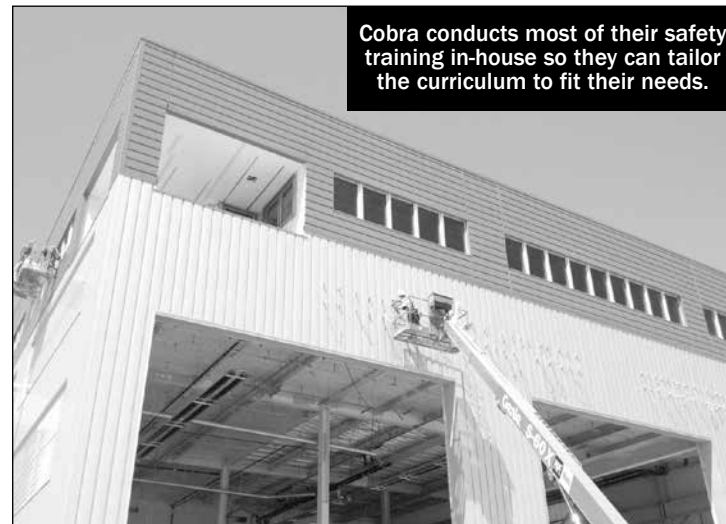
# COBRA BUILDING ENVELOPE CONTRACTORS

Recognition and consistency are the primary attributes of the safety culture at Cobra Building Envelope Contractors. Cobra's workforce training starts with the management and ownership sharing a commitment to safety so that their workforce knows that they are supported.

When employees are individually recognized for outstanding safety practices in front their peer group, it builds camaraderie and teamwork, and validates the employee's safety performance. Each employee, regardless of title, knows from day one the obligation of making safety the primary operational priority every day.

Cobra has brought most of its training in-house to tailor the curriculum to fit their needs. This has afforded them the ability to target and enhance the strengths of their program and to identify any weaknesses of their training.

Cobra has also gone to a more frequent training schedule, which has shown to increase retention of core materials that used to be refreshed only every three years. They have also established an authorized-driver program where select employees are trained in practical driving skills.



Cobra conducts most of their safety training in-house so they can tailor the curriculum to fit their needs.

PHOTO COURTESY OF COBRA BUILDING ENVELOPE CONTRACTORS

## Winner of 2014 Build Washington Award for Construction Excellence

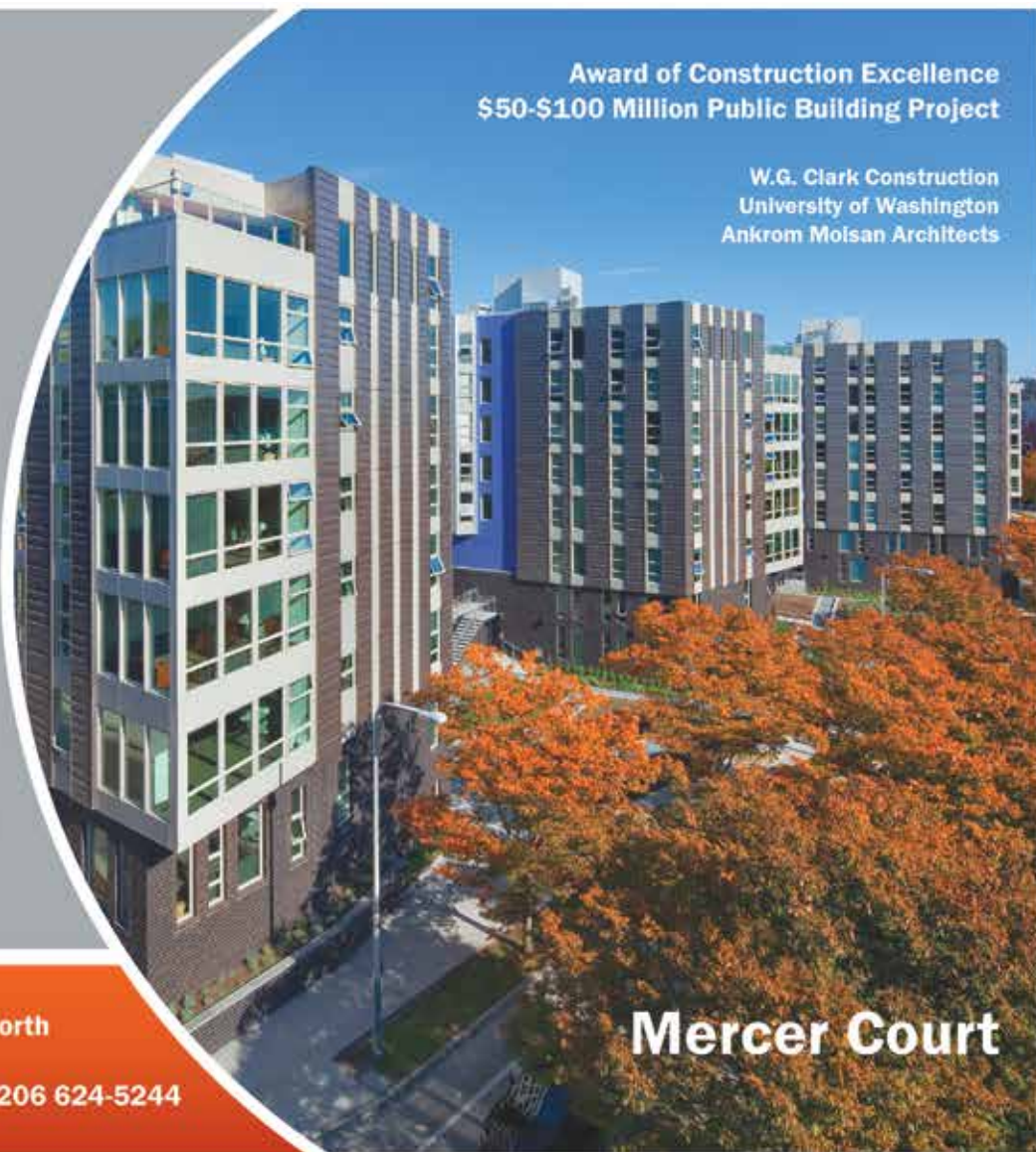
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**SUBCONTRACTOR: SAFETY**

OVER 400,000 HOURS

**UNIVERSITY MECHANICAL CONTRACTORS**

University Mechanical Contractors has developed a culture of safety leadership, commitment, communication and innovation.

The firm takes a proactive stance and tries to devise new ways of working smart and safe, encouraging every member of the crew to be part of the safety team. Incident statistics are reported and analyzed in monthly safety meetings. A thorough analysis of every incident is presented and ideas are discussed to avoid similar incidents in the future.

UMC has also recently implemented the practice of having the responsible foremen attend the monthly committee meeting to present their interpretation of the case. Participation by top managers in these meetings reinforces that they are the safety decision-makers and that safety is prioritized throughout the organization.

UMC management also demonstrates its commitment to safety by giving top priority to safety-equipment purchases. Providing leading-edge equipment demonstrates to the entire team that management is serious about safety and is willing to provide what is needed for safe work.



UMC helped build the city of Seattle's South Transfer Station, completed in 2013.

PHOTO COURTESY OF THE MILLER HULL PARTNERSHIP

**SUBCONTRACTOR: SAFETY**

MOST IMPROVED

**UNIVERSITY MECHANICAL**

University Mechanical Contractors has earned the reputation of being a cutting-edge mechanical contractor by encouraging its workers to think out of the box and to pursue innovation.

Their frontline workers recognize problems and develop alternatives and improvements for specific tasks — a primary source of innovation. UMC is constantly developing, testing, finalizing and disseminating best practices, contributing to a collection of relevant knowledge gained from experience, and directly applicable to specific work tasks.

The best-practices program has enabled them to disseminate information in a nonthreatening and inclusive way. In this way, their entire workforce can work smarter and more safely.

At UMC, change simply for the sake of change is not a worthy goal. Their safety culture is constantly evolving and improving. The firm does not jump to trendy changes, but rather carefully evaluates and collaborates on changes that give depth and value to their program.

Their overall goal is to continue honing their safety program so that it is constantly improving.



UMC installed equipment, piping, foul-air ducting and HVAC at the Brightwater Treatment Plant.

PHOTO COURTESY OF KING COUNTY

**GENERAL CONTRACTOR: SAFETY**

UNDER 150,000 HOURS

**WASHINGTON PATRIOT CONSTRUCTION**

Washington Patriot Construction's management team prioritizes safety throughout the company.

Quarterly "all hands on deck" safety meetings help to keep staff current on safety issues and recent AGC alerts. All new-hire workers undergo a review of the company's safety plan and policies before reporting to the field, where they receive another safety orientation.

Understanding that different eyes see different things, the company also assigns a craft person to perform the weekly site-safety audit. Other recently implemented safety steps include color-coded hard hats and vests for visitors, a daily stretch-and-flex program for on-site workers, emergency-information stickers inside hard hats and suggestion boxes at all jobsites.

Washington Patriot provides to staff in-house third-party safety training and access to online OSHA classes. The firm is also a member of Occupational Safety Councils of America (OSCA), providing online access to the OSCA database. All employees also receive monthly safety bulletins that cover relevant news, alerts and issues of importance.



Washington Patriot provides to staff in-house third-party safety training and access to online OSHA classes.

PHOTO COURTESY OF WASHINGTON PATRIOT CONSTRUCTION





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## GENERAL CONTRACTOR: SAFETY

[TIE] 150,000-250,000 HOURS

# PCL CONSTRUCTION SERVICES

There are several key elements to PCL's safety culture. One is the monthly forecast meeting, where detailed safety reports are provided to not only identify opportunities for improved safety performance, but to also provide recognition for the previous month's safety accomplishments.

One of the bread-and-butter reports that are reviewed during this meeting is the Monthly Safe Action Plan. These individual plans are drafted by each project-management group after reviewing the previous month's safety trends.

Being a construction company that operates throughout Canada and the U.S., PCL developed the written Construction Health, Safety & Environmental program, which generally conforms to a level that exceeds international standards.

Lessons learned from previous events challenged PCL to produce a written Safe Operating Procedures document that address 33 of the most challenging construction activities.

## GENERAL CONTRACTOR: SAFETY

[TIE] 150,000-250,000 HOURS



PHOTO COURTESY OF FOUSHEE & ASSOCIATES

# FOUSHEE & ASSOCIATES

Commitment and hands-on involvement from Foushee ownership ensures that safety is a high priority and that it receives all the resources and support needed to be best in class.

Ownership encourages employees to continue their education by paying for AGC courses and instruction on safety education, personal communication, leadership skills and conflict prevention.

Experienced construction professionals at Foushee provide one-on-one staff mentoring and small-group training at jobsites, where hands-on discussions have been developed to address current safety challenges. More-experienced employees are teamed with less-experienced employees; training and mentoring occur daily so that staff benefit from regular hands-on practice and sharing practical experience.

Foushee utilizes its Fitness for Duty program to assist its people with both work-related and non-work-related injuries, helping to keep them engaged and working within their limitations.

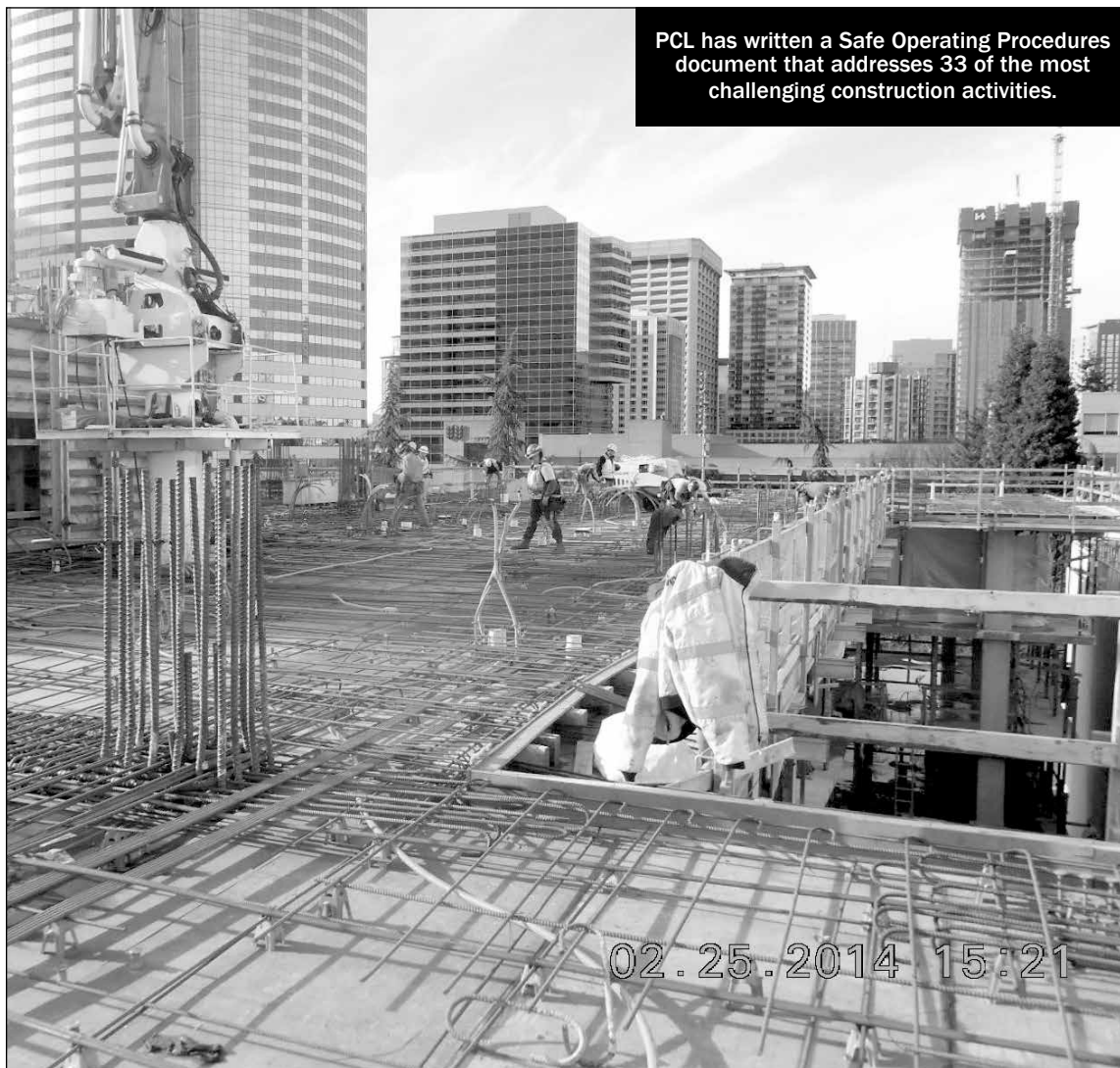


PHOTO COURTESY OF PCL CONSTRUCTION SERVICES



### Washington Patriot Construction LLC

is proud to receive two 2014 "Build Washington" Awards from the AGC of WA in recognition of *Safety Excellence* and *Construction Excellence*.

We know our success relies on the commitment of our management staff, craft personnel, and industry partners. Therefore, we wish to thank everyone whose efforts contributed to our award-winning Safety Program and our award-winning project, "Design and Construct Vehicle Barriers".

We would also like to thank the **AGC of WA** for "representing and serving the construction industry with *SKILL, INTEGRITY, & RESPONSIBILITY.*"



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## GENERAL CONTRACTOR: SAFETY

OVER 300,000 HOURS

### EXXEL PACIFIC

An AGC Safety Team member for more than 20 years, Exxel Pacific is committed to making safety a value on every project it builds and in every community it works.

Safety is not just a policy, it is part of Exxel's culture. The company's safety success is a result of safety being everyone's responsibility. Engagement from all levels and continual education are equally required.

Every subcontractor's safety plan is reviewed by both the project team and the safety department to ensure that the contractor meets state and federal safety requirements, as well as Exxel's. Safety expectations are established for subcontractors and their work plans thoroughly reviewed, allowing potential problems to be resolved before they arise.

Exxel's average EMR of 0.71 over the last 10 years has ranked the company consistently as a top safety performer. Exxel partners with AGC to build a stronger, safety community. As part of their Safety Values at Work and Home message, Exxel also continues to offer annual first-aid/CPR training to employees' families.



Every subcontractor's safety plan is reviewed by Exxel's project team and safety department to ensure it meets state and federal requirements.

PHOTO COURTESY OF EXXEL PACIFIC

## GENERAL CONTRACTOR: SAFETY

MOST IMPROVED

### ADOLFSON & PETERSON CONSTRUCTION

Adolfson & Peterson has a fully integrated safety program that involves all levels of management and crews.

The company is routinely recognized as one of the safest construction firms in America and has a rigorous safety program that benefits their clients, customers, staff and subcontractors.

The firm's accident-prevention program is one of the best in the country. As a general contractor, A&P's EMR for 2013 was 0.6735.

As part of a national organization with multiple offices, A&P finds they have stronger local processes, more consistency and greater resources, and have the ability to speak with other industry professionals across other regions to find safety solutions.

Their national safety committee sets the focus of the entire company, meeting regularly to set policies and procedures, and using best practices to learn from each other and apply solutions across all regions. The company also utilizes 3-D safety coordination in BIM on some of its larger, more complex projects.



Adolfson & Peterson can draw on the expertise of staff from offices around the country to find safety solutions.

PHOTO COURTESY OF ADOLFSON & PETERSON CONSTRUCTION



## SUPERINTENDENT OF THE YEAR



### BRETT ARMSTRONG EXXEL PACIFIC

Brett Armstrong embodies the “safety champion” qualities that every project must have to be successful. He fully understands the message “safety is a value at work and at home,” and communicates this through his leadership.

Armstrong identifies how to work with, coach and create a safety culture with subcontractors who are not always accustomed to performing work on high-profile projects. He mixes these safety goals with his team’s jobsite responsibilities.

On Exxel Pacific’s Block 10 project in South Lake Union, Armstrong often walked the site with his safety manager, reinforcing projectwide safety emphasis. Armstrong made the time to strategize safety concerns and issues, and facilitated “look-aheads” to plan activities.

He championed safety with his leadership for Exxel Pacific’s project team, subcontractors and the client. Armstrong also educated the client on why certain work activities needed to be performed in a safety-first manner.

With his leadership, Armstrong allowed Exxel Pacific’s safety manager — and the Block 10 project as a whole — to be successful. On the Block 10 project, Armstrong’s goals were fully accomplished, with a total of 257,559 hours worked with zero time-loss injuries and an excellent recordable-injury rate of 3.8.

According to Exxel’s safety officer Joe Sadler, “In my years of working with Brett Armstrong, he has never sacrificed safety to meet production or schedule.”

## BRIAN SALSGIVER SAFETY PROFESSIONAL OF THE YEAR

### JOE SADLER EXXEL PACIFIC

Joe Sadler started with Exxel Pacific in 2008 and has since implemented a number of new safety policies that have elevated Exxel’s safety program and, in turn, the company’s safety culture.

One of the first policies that Sadler implemented was to require safety evaluations of each subcontractor’s site-safety plan. This helped Exxel’s subcontractors by requiring them to define how they perform their work, which identifies deficiencies within their safety plans. The process is a good barometer on how subcontractors perform their work safely.

Sadler takes a personal interest in developing a solid and robust safety program that is effective in practice.

“If you keep safety simple, it gets done,” Sadler says.

He is actively involved with subcontractors and workers, and is dedicated to finding solutions to safety challenges.

Sadler is also involved with the industry. He’s a member of the AGC Safety Steering Committee, an AGC Northern District representative and a member of Puget Sound chapter of the American Society of Safety Engineers.

Sadler has been a part of the AGC Crane Task force, AGC concrete placement roundtable, CAC electrical subcommittee and AGC hearing task force, and has participated in AGC’s hearing-conservation video. He is a past member of the Puget Sound Safety Summit Steering Committee and was on the Oregon Governor’s Safety & Health (GOSH) planning committee.



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## PROJECT MANAGER OF THE YEAR

# BRANDON DULLY GUY F. ATKINSON CONSTRUCTION

Upon hearing about the Interstate 5 bridge collapse last year, Guy F. Atkinson Construction project manager Brandon Dully immediately contacted the Washington State Department of Transportation and was on site at 10 the following morning.

After Atkinson was selected for the project, Dully partnered with WSDOT designers and outside consultants to quickly determine a workable solution for the temporary bridge. Among the measures that led to its successful completion include the creation of a specific removal sequence, reevaluation of Atkinson's strategic work plan, daily all-hands safety meetings, and constant communication with the workforce, inspectors and subcontractors.

Dully supervised 24-7 operations. Atkinson crews completed 5,632 hours and subcontractors totaled 17,371 hours, equaling 77 craft working 25 days without any injury.

The project also had a Division of Occupational Safety and Health compliance inspection with no citations.

The Skagit River Bridge was a high-risk project that was completed safely. With Dully's leadership I-5 was reopened on June 19, less than four weeks after the collapse.



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