

# ASSOCIATED SCHOOLS OF CONSTRUCTION



## 2021 STUDENT COMPETITION AND CONSTRUCTION MANAGEMENT CONFERENCE

ONLINE • FEBRUARY 3-6, 2021

ROCKY MOUNTAIN REGION  
REGION 6

AK, AZ, CO, ID, MT, NV, NM, UT, WY

FAR WEST REGION  
REGION 7

CA, HI, OR, WA

## A MESSAGE TO THE ASC STUDENT COMPETITORS:

The 34th Annual Associated Schools of Construction (ASC) Regions 6 & 7 Student Competition is host to the largest construction management student competition in the nation. This year over 1,100 students competing on 152 teams coming from 46 universities and 17 states are ready to compete. The 17 problem sponsoring companies have worked hard to provide all competing teams with a challenging and educational experience. Whenever possible, take the opportunity to thank them for their efforts and support of the ASC.

The competition aspect of our event must be fair. No student or team should have an unfair advantage. It is expected that your team is prepared, rehearsed, and that you have researched the industry for helpful information. However, in the event that you were professionally involved with or have specific knowledge of the actual problem issued by the sponsor that is beyond “public knowledge”, you must immediately notify your sponsor of a possible conflict of interest. Follow the rules, and remember only six team members can materially participate in the solution of the problem. For the entire duration of the competition, Wednesday, Thursday, and Friday, there must be no contact with anyone that is not a member of your team (fellow students, shadows, runners, industry, faculty, or coaches) until your team has presented. After presenting take time to thank everyone who helped you get to this point and assisted in your achievement.

The problem sponsors have worked hard to select challenging projects for this year’s competition, and ASC has partnered with Image AV to offer an exciting virtual platform that will provide teams a chance to show off new and valuable skills in collaboration and virtual presentation. Be sure to become thoroughly familiar and comfortable with the Image AV online conference interface. Locate your problem sponsor’s presentation room, study the event schedule, and support your team members. We are proud to have you representing your program, your school, and the ASC!

You can find the list of times and locations for all of the week’s planned events inside this program. The Welcome Kick-Off begins Wednesday at 9:00 a.m. in the Image AV Grand Ballroom. Unlike previous competitions, many problem categories this year begin their Team Solution Phase on Wednesday afternoon or Thursday morning, so be sure to check the schedule to find your starting time. To get the most out of your experience, don’t forget to register for and attend the Job Fair!

Please join all of us at ASC in taking every possible opportunity to thank the sponsors that have so generously supported this competition and all of the week’s events. The sponsors and job fair participants have provided both time and financial support to help make this event special, and their continuing partnerships with ASC are invaluable for achieving excellence in construction education. Your university construction programs have also invested in your success and their commitment to the ASC is reflected in your participation and accomplishments.

Work hard, challenge yourself, and have fun!



Justin Weidman, Region 6 Director  
Brigham Young University



Bill Bender, Region 7 Director  
University of Washington

**When you support the ASC you are supporting our mission:**

**ASC. The professional association for the development and advancement of construction education, where the sharing of ideas and knowledge inspires, guides, and promotes excellence in curricula, teaching, research, and service.**



## SCHEDULE OF EVENTS

Wednesday, February 3, 2021

Start	End	Event	Location
9:00 AM	10:00 AM	Opening Kick-Off	Grand Ballroom

### Welcome and Conference Information presented by:



Justin Weidman, BYU  
Region 6 Director



Bill Bender, UW  
Region 7 Director

### Keynote Speaker



Alan Laurlund, Senior Vice President  
XL Construction

"Hear tips from a past competitor on how to win at the competition and in the industry"

To Attend the Opening Kick-Off in the Grand Ballroom and Other Conference Events

Login to: <https://asc67.e-attend.com/>



# Come on in and Explore!

## SCHEDULE OF EVENTS

Wednesday, February 3, 2021

### Competition Begins - Team Solution Phase

#### Region 6 Problem Categories

Start	End	Event	Sponsored by	Location
Starts Thursday Morning		Heavy Civil	Kiewit	
Starts Thursday Morning		Commercial	Mortenson	
11:00 AM	5:00 PM	Mixed Use	Layton Construction	provided by sponsor
11:00 AM	9:00 PM	Design Build	McCarthy Building Companies, Inc.	provided by sponsor

#### Region 7 Problem Categories

Start	End	Event	Sponsored by	Location
11:00 AM	6:00 PM	Heavy Civil	Granite	provided by sponsor
11:00 AM	8:00 PM	Commercial	Hensel Phelps	provided by sponsor
11:00 AM	7:00 PM	Mixed Use	Morley Builders	provided by sponsor
11:00 AM	9:00 PM	Design Build	Swinerton	provided by sponsor

#### Open Problem Categories

Start	End	Event	Sponsored by	Location
12:00 PM	9:00 PM	Integrated Project	Clark Construction Group	provided by sponsor
Starts Thursday Morning		Mechanical	Southland Industries / NCMCA	
Starts Thursday Morning		Virtual Design & Construction	Webcor Builders	
11:00 AM	6:00 PM	Sustainable Building	Skanska	provided by sponsor
Starts Thursday Morning		Preconstruction	PCL Construction	
Starts Thursday Morning		Project Management	DPR Construction	
Starts Thursday Morning		Electrical	Rosendin	
11:00 AM	7:00 PM	Concrete Solutions	Sundt Construction, Inc.	provided by sponsor
Starts Thursday Morning		Alternates Competition	Rudolph & Sletten, Inc.	

Note: The Team Solution Phase is organized by the Problem Sponsoring Company. Direct all questions for the Team Solution Phase to the primary contact for the problem category. For additional information review the pre-problem statements at: <https://asc67.org/problems.html>

## Thank You to our T-Shirt Sponsor!



## SCHEDULE OF EVENTS

Thursday, February 4, 2021

### Competition Begins / Continues - Team Solution Phase

#### Region 6 Problem Categories

Start	End	Event	Sponsored by	Location
6:00 AM	10:00 PM	Heavy Civil	Kiewit	provided by sponsor
6:00 AM	8:00 PM	Commercial	Mortenson	provided by sponsor
8:00 AM	6:00 PM	Mixed Use	Layton Construction	provided by sponsor
6:00 AM	5:00 PM	Design Build	McCarthy Building Companies, Inc.	provided by sponsor

#### Region 7 Problem Categories

Start	End	Event	Sponsored by	Location
7:00 AM	3:00 PM	Heavy Civil	Granite	provided by sponsor
7:00 AM	5:00 PM	Commercial	Hensel Phelps	provided by sponsor
7:00 AM	7:00 PM	Mixed Use	Morley Builders	provided by sponsor
7:00 AM	4:00 PM	Design Build	Swinerton	provided by sponsor

#### Open Problem Categories

Start	End	Event	Sponsored by	Location
7:00 AM	2:00 PM	Integrated Project	Clark Construction Group	provided by sponsor
7:00 AM	9:00 PM	Mechanical	Southland Industries / NCMCA	provided by sponsor
7:00 AM	10:00 PM	Virtual Design & Construction	Webcor Builders	provided by sponsor
6:00 AM	6:00 PM	Sustainable Building	Skanska	provided by sponsor
7:00 AM	7:00 PM	Preconstruction	PCL Construction	provided by sponsor
6:00 AM	9:00 PM	Project Management	DPR Construction	provided by sponsor
10:00 AM	7:00 PM	Electrical	Rosendin	provided by sponsor
7:00 AM	6:00 PM	Concrete Solutions	Sundt Construction, Inc.	provided by sponsor
7:00 AM	5:00 PM	Alternates Competition	Rudolph & Sletten, Inc.	provided by sponsor

Note: The Team Solution Phase is organized by the Problem Sponsoring Company. Direct all questions for the Team Solution Phase to the primary contact for the problem category. For additional information review the pre-problem statements at: <https://asc67.org/problems.html>

### Competition - Team Presentation Phase

#### Region 7 Problem Categories

Start	End	Event	Sponsored by	Location
3:30 PM	5:30 PM	Heavy Civil	Granite	by Calendar Invite

Note: This is the only Problem Sponsor beginning the Team Presentation Phase on Thursday Afternoon.

All team members were sent a calendar invite from Image AV indicating the Team Presentation time and the link to the Zoom Meeting room. Check your email inbox and accept the calendar invite. Enter the Team Presentation Zoom room ten minutes before your presentation start time.

Team Presentations shall be attended by: team members, faculty coach, and Problem Sponsor Judges

Recordings of team presentation will be available at the conclusion of the event @ [asc67.org](https://asc67.org)

## SCHEDULE OF EVENTS

Thursday, February 4, 2021

### Faculty Conference - Session One

7:00 AM - 11:45 AM

Start	End	Event	Location
7:00 AM	7:45 AM	Regions 6 & 7 Business Meeting	Faculty Meeting Room
8:00 AM	8:45 AM	Faculty Workshop - presented by Skanska <i>Tech in Construction &amp; Virtual Project Tour of Hospital in Hollywood, CA</i>	Faculty Meeting Room
9:00 AM	9:45 AM	Faculty Workshop - presented by Skanska <i>Virtual Project Tour of Hollywood Presbyterian Medical Center in Hollywood, CA</i>	Faculty Meeting Room
9:45 AM	10:00 AM	Break	
10:00 AM	10:45 AM	Faculty Workshop - presented by AutoDesk <i>The Future of Making Things for Construction</i>	Faculty Meeting Room
11:00 AM	11:45 AM	Faculty Workshop - presented by AutoDesk <i>How to use Autodesk Construction Cloud in Education</i>	Faculty Meeting Room

Lunch Break - 12:00 PM - 12:45 PM

Teichert Presentation - Faculty Meeting Room



**Grab your lunch & stick around to hear from  
Teichert, our annual faculty lunch sponsor,  
about great opportunities for your students!**

### Faculty Conference - Session Two

12:45 PM - 4:45 PM

Start	End	Event	Location
12:45 PM	1:15 PM	Faculty Workshop - presented by Bluebeam <i>Introduction to Bluebeam Revu</i>	Faculty Meeting Room
1:15 PM	1:45 PM	Faculty Presentation - Phil Barlow, Hani Alzraiee, Cal Poly, SLO <i>How Cal Poly Created a New Minor in Heavy Civil Construction</i>	Faculty Meeting Room
1:45 PM	2:00 PM	Break	
2:00 PM	2:30 PM	Faculty Presentation - Renxiang Lu, Francois Jacobs, Univ. of Wyoming <i>Case Study: Const. Mgmt. Program Supports Construction Workforce Training</i>	Faculty Meeting Room
2:30 PM	3:00 PM	Faculty Presentation - Jeremy Farner, Weber State University <i>Lessons learned participating in the 2020 Solar Decathlon Competition</i>	Faculty Meeting Room
3:00 PM	3:15 PM	Break	
3:15 PM	3:45 PM	Faculty Presentation - Azzeddine Oudjehane, Jasir Hamad, S Alberta IT <i>Why and how mass timber construction is disrupting construction project mgmt.</i>	Faculty Meeting Room
3:45 PM	4:30 PM	Faculty Workshop - presented by AutoDesk <i>Preconstruction workflow demonstrations using the Autodesk Construction Cloud</i>	Faculty Meeting Room
4:30 PM	4:45 PM	Break	
4:45 PM	5:15 PM	Faculty Workshop - presented by Procore <i>Engage Your Students For More Proficiency Using Procore</i>	Faculty Meeting Room

## SCHEDULE OF EVENTS

Friday, February 5, 2021

### Competition Continues - Team Presentation Phase

#### Region 6 Problem Categories

Start	End	Event	Sponsored by	Location
7:00 AM	5:00 PM	Heavy Civil	Kiewit	by Calendar Invite
6:00 AM	5:00 PM	Commercial	Mortenson	by Calendar Invite
8:00 AM	3:30 PM	Mixed Use	Layton Construction	by Calendar Invite
7:00 AM	5:00 PM	Design Build	McCarthy Building Companies, Inc.	by Calendar Invite

#### Region 7 Problem Categories

Start	End	Event	Sponsored by	Location
7:00 AM	3:10 PM	Heavy Civil	Granite	by Calendar Invite
7:00 AM	5:00 PM	Commercial	Hensel Phelps	by Calendar Invite
9:00 AM	4:00 PM	Mixed Use	Morley Builders	by Calendar Invite
8:00 AM	5:00 PM	Design Build	Swinerton	by Calendar Invite

#### Open Problem Categories

Start	End	Event	Sponsored by	Location
7:30 AM	4:30 PM	Integrated Project	Clark Construction Group	by Calendar Invite
7:00 AM	3:00 PM	Mechanical	Southland Industries / NCMCA	by Calendar Invite
7:00 AM	3:30 PM	Virtual Design & Construction	Webcor Builders	by Calendar Invite
7:00 AM	5:00 PM	Sustainable Building	Skanska	by Calendar Invite
8:00 AM	5:00 PM	Preconstruction	PCL Construction	by Calendar Invite
6:30 AM	4:20 PM	Project Management	DPR Construction	by Calendar Invite
8:00 AM	5:00 PM	Electrical	Rosendin	by Calendar Invite
7:00 AM	6:00 PM	Concrete Solutions	Sundt Construction, Inc.	by Calendar Invite

All team members were sent a calendar invite from Image AV indicating the Team Presentation time and the link to the Zoom Meeting room. Check your email inbox and accept the calendar invite. Enter the Team Presentation Zoom room ten minutes before your presentation start time.

Team Presentations shall be attended by: team members, faculty coach, and Problem Sponsor Judges

Recordings of team presentation will be available at the conclusion of the event @ [asc67.org](mailto:asc67.org)

**Congratulations to the all the students and faculty coaches for your dedication and resilience for competing in this year's event.**

**Justin Weidman**  
**Region 6 Director**

**Bill Bender**  
**Region 7 Director**

**GOOD LUCK TO ALL TEAMS!**

**Team Member Names can be found on the [asc67.org](http://asc67.org) Web site**



## SCHEDULE OF EVENTS

**Friday, February 5, 2021**

### Competition Continues - **Problem Recap**

#### Region 6 Problem Categories

Start	End	Event	Sponsored by	Location
6:00 PM		Heavy Civil	Kiewit	by Calendar Invite
5:15 PM		Commercial	Mortenson	by Calendar Invite
4:00 PM		Mixed Use	Layton Construction	by Calendar Invite
5:00 PM		Design Build	McCarthy Building Companies, Inc.	by Calendar Invite

#### Region 7 Problem Categories

Start	End	Event	Sponsored by	Location
3:30 PM	4:30 PM	Heavy Civil	Granite	by Calendar Invite
6:30 PM	7:30 PM	Commercial	Hensel Phelps	by Calendar Invite
6:30 PM	7:30 PM	Mixed Use	Morley Builders	by Calendar Invite
5:30 PM	7:00 PM	Design Build	Swinerton	by Calendar Invite

#### Open Problem Categories

Start	End	Event	Sponsored by	Location
5:00 PM		Integrated Project	Clark Construction Group	by Calendar Invite
5:00 PM		Mechanical	Southland Industries / NCMCA	by Calendar Invite
4:00 PM		Virtual Design & Construction	Webcor Builders	by Calendar Invite
6:00 PM		Sustainable Building	Skanska	by Calendar Invite
5:00 PM		Preconstruction	PCL Construction	by Calendar Invite
5:00 PM		Project Management	DPR Construction	by Calendar Invite
6:00 PM		Electrical	Rosendin	by Calendar Invite
6:30 PM	7:00 PM	Concrete Solutions	Sundt Construction, Inc.	by Calendar Invite

Recordings of Problem Recaps will be available at the conclusion of the event @ [asc67.org](https://asc67.org)

**Saturday, February 6, 2021**

### Competition Continues - **Job fair and Awards Ceremonies**

#### Events

Start	End	Event	Sponsored by	Location
8:00 AM	12:00 PM	Job Fair	ASC	<a href="#">Brazen</a>
12:30 PM		Awards - Region 6	Kiewit; Mortenson; Layton Construction; McCarthy Building Companies, Inc	Grand Ballroom
1:00 PM		Awards - Region 7	Granite, Hensel Phelps, Morley Builders, Swinerton	Grand Ballroom
1:30 PM		Awards - Open	Clark Construction Group; Southland Industries & NCMCA; Webcor Builders; PCL Construction; DPR Construction; Rosendin; Sundt Construction, Inc.; Rudolph & Sletten, Inc.	Grand Ballroom

## PARTICIPATING UNIVERSITIES

### Region 6

Arizona State University  
Boise State University  
Brigham Young University  
Brigham Young University, Idaho  
Colorado Mesa University  
Colorado State University  
Colorado State University - Pueblo  
Montana State University  
Montana Technological University  
Northern Arizona University  
Southern Utah University  
U.S. Air Force Academy  
University of Alaska, Anchorage  
University of Arizona  
University of Colorado Denver  
University of Denver  
University of Nevada, Las Vegas  
University of New Mexico  
Utah Valley University

### Region 7

California Baptist University  
California Polytechnic State University, San Luis Obispo  
California State Polytechnic University, Pomona  
California State University, Chico  
California State University, East Bay  
California State University, Fresno  
California State University, Long Beach  
California State University, Sacramento  
Central Washington University  
Oregon State University  
San Diego State University  
San Jose State University  
Santa Clara University  
Stanford University  
University of California, Berkeley  
University of California, Davis  
University of California, Los Angeles  
University of California, San Diego  
University of Southern California  
University of Washington  
Washington State University

### Region 1

Roger Williams University

### Region 2

Auburn University  
University of Florida

### Region 3

Illinois State University  
Purdue University

### Region 4

University of Nebraska - Lincoln

### Region 5

Texas A&M University





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Granite  
Graniterock  
Hensel Phelps  
Herrero Builders  
Holder Construction

Kiewit  
Layton Construction  
Level 10 Construction  
McCarthy Building Companies, Inc.  
Morley Builders  
PCL Construction  
Rosendin  
Rudolph & Sletten, Inc.  
Skanska  
Skyline Construction Enterprises

Sterling Construction Company  
Sundt Construction, Inc.  
Swinerton  
The Raymond Group  
The Walsh Group  
Truebeck Construction  
Turner  
Webcor Builders  
Wilson Electric

### Silver

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Anvil Builders  
Bergelectric  
Blach Construction  
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Nibbi Brothers General Contractors  
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The Boldt Company  
The Penta Building Group  
The Whiting-Turner Contracting Company  
Underground Construction Co.

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MATT Construction

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## ASC Regions 6 & 7 2022 Student Competition

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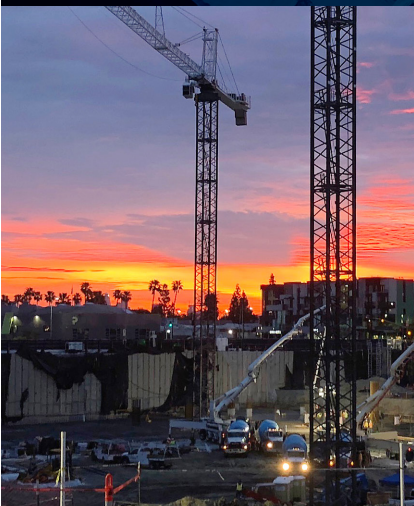
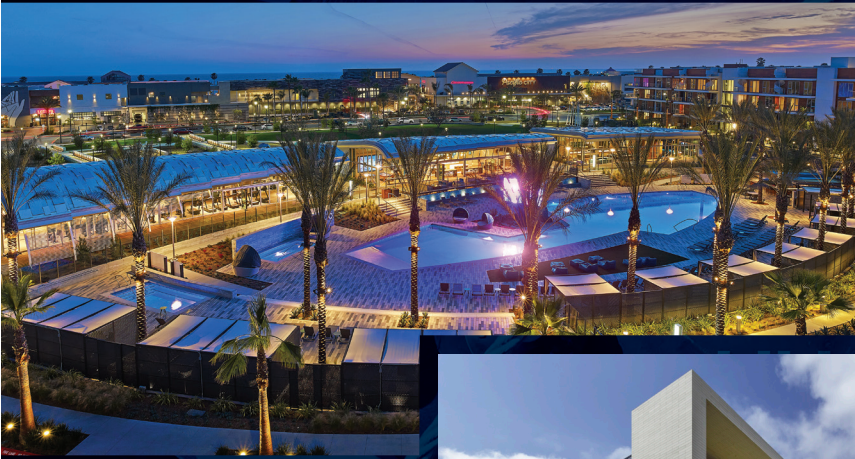
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# CONGRATULATIONS TO ALL STUDENT COMPETITORS ON A JOB WELL DONE!



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# WE WANT YOU ON OUR TEAM



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**BEST OF LUCK  
TO ALL OF THE  
TEAMS!**

Please be sure to visit us on  
Saturday, **February 6th** from  
8:00am - 12:00pm at the  
Virtual Job Fair and learn why  
**Rodan is the place for you!**  
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### **CONTACT US AT:**

**Main (925)829-9220**

**[www.desilvagates.com](http://www.desilvagates.com)**

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**Matt Mascaro**

**Construction Manager**

**[mmascaro@desilvagates.com](mailto:mmascaro@desilvagates.com)**



VISIT US DURING THE VIRTUAL CAREER FAIR FROM 8AM – 12PM

WE WILL BE CONDUCTING A GIVEAWAY TO THE 1ST, 50TH, 100TH VISITOR DURING THIS VIRTUAL CAREER FAIR!  
WINNERS WILL BE CONTACTED VIA EMAIL

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**Khalifa Sylla**  
Estimator

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A background image showing a group of construction workers wearing white hard hats and high-visibility safety vests, looking towards the right.

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A photograph of construction workers at night. In the foreground, several workers wearing hard hats and high-visibility vests are seen from behind, looking towards a large bridge structure being illuminated by construction lights. One worker's vest has 'SHIMMICK' and 'PARSONS' written on it. In the background, a large crane is lifting a massive concrete bridge girder into place. The sky is dark blue.

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- 14th Bridge Top Contractor
- 19th Highway Top Contractor
- 21st Water Treatment Top Contractor







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A Carpenter crew assembling the pre-cut cross-laminated timber (CLT) panels at 1 De Haro Street, the first project in San Francisco to use CLT.

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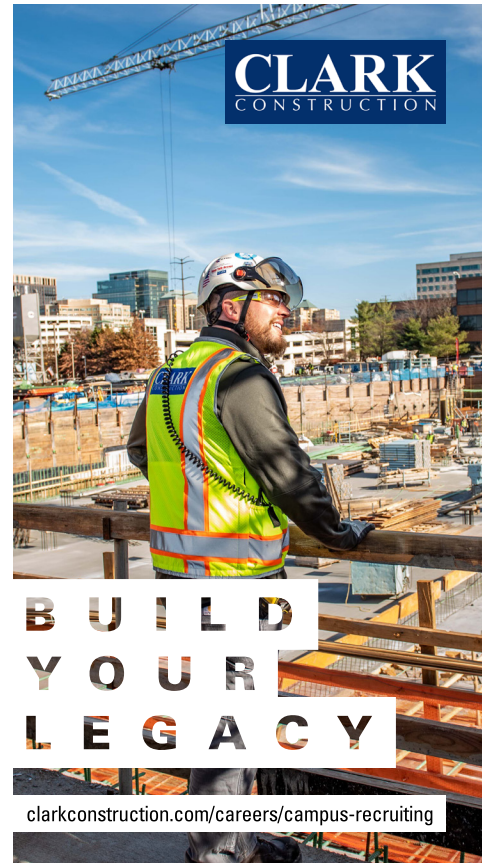
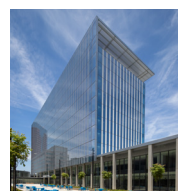
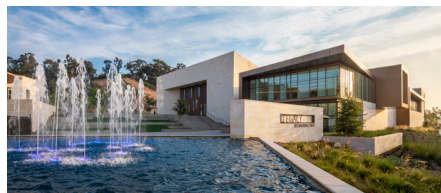
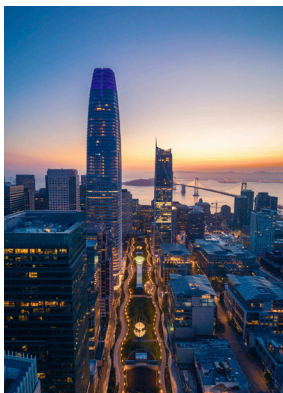
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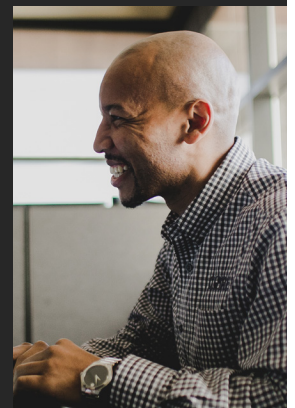
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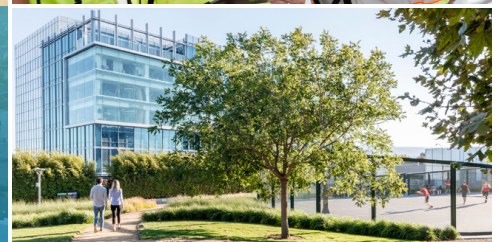
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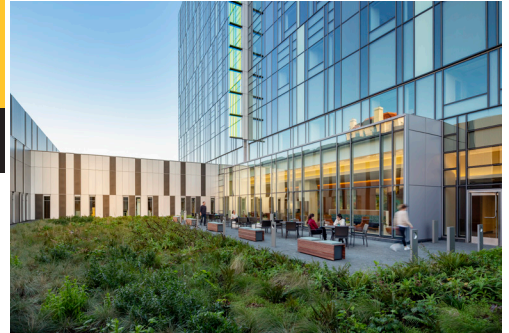
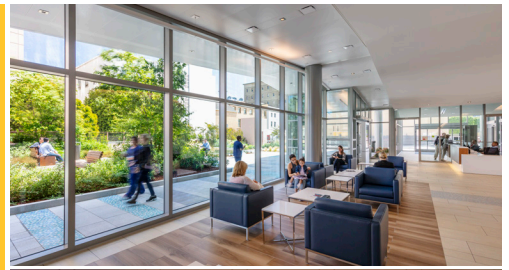
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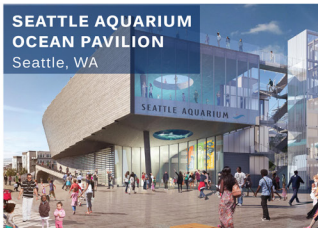
With a staff of 10,000 employees who work on more than 1,500 projects each year, we offer clients the accessibility and support of a local firm with the stability and resources of a multi-national organization.



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## AWARDS



Turner continues to be recognized as one of the largest general contractors in the country and a leader in many categories in ENR's 2020 Top 400 Contractors Sourcebook. Turner was also named the #1 Green Building Contractor in the country.

- #1 in General Building
- #1 in Commercial Offices
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## BUILDING DESIGN + CONSTRUCTION

In 2020 Turner was recorded as the #1 Contractor in the country in *Building Design+Construction Magazine's* Giant 300 list. It factors in the contract volumes of general contracting, design-build, CM at risk, and IPD projects.



Turner earned 100/100 on the Corporate Equality Index (CEI) and the designation of Best Place to Work for lesbian, gay, bisexual, and transgender (LGBT) equality.

Turner Pride Alliance, our employee resource group for LGBT topics, launched a Pride Ally program for employees to support workplace equality.

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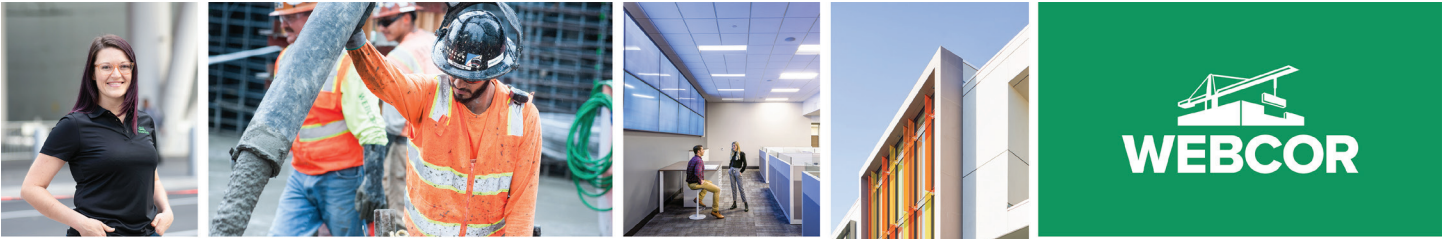
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