



DAVID EVANS
AND ASSOCIATES INC.

Review of Day 1 and 2

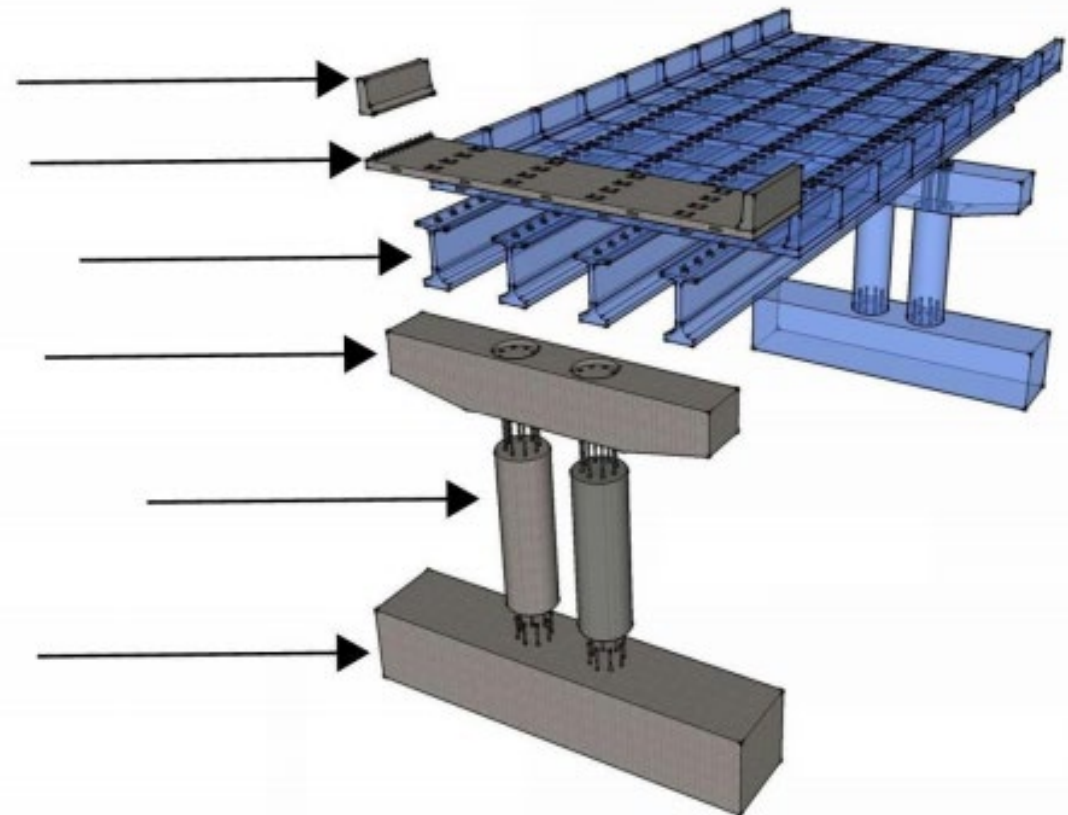
Presented by
Travis Kinney



Bridge Components and Elements

- Lots of bridge types and different requirements.
- Is it a deck, or a top flange or a slab?
- Is it broken?

11. (6 pts) Label the bridge elements on the following diagram:



Silica Regulations

- Silica is everywhere.
- Small amounts matter.
- PPE is not our first line of defense.
- Stop Silica at the source.
 - Water
 - Vacuum Controlled



Timber Pile Repairs

- Lots of work for Oregon
- Example of posting repair
- Temporary repair options as well.
 - Pushed piles
 - Banding
 - Bolting on channels
 - Adding in temp supports



Scour

- # 1 Bridge Killer
- Even the high desert isn't safe.
- Learned about the program side of scour
- Saw some pretty cool methods of isolation and scour installation



Bridge Joints

- Lots of types
- Many of them have pros and cons
- Hopefully you had a chance to look at the demos



Demo: Timber Inspection

- Can you find the rot?
- Is a hammer enough?



Demo: Timber Pile Repair

- Timber Pile Repair Cut out
- Welded pipe pile splice



Demo: Crane Setup



Demo: Emseal Joints



Demo: Asphaltic Plug Joint



Demo: Aqua Dam





What we do



Energy



**Land
Development**



Transportation



**Water and
Environment**

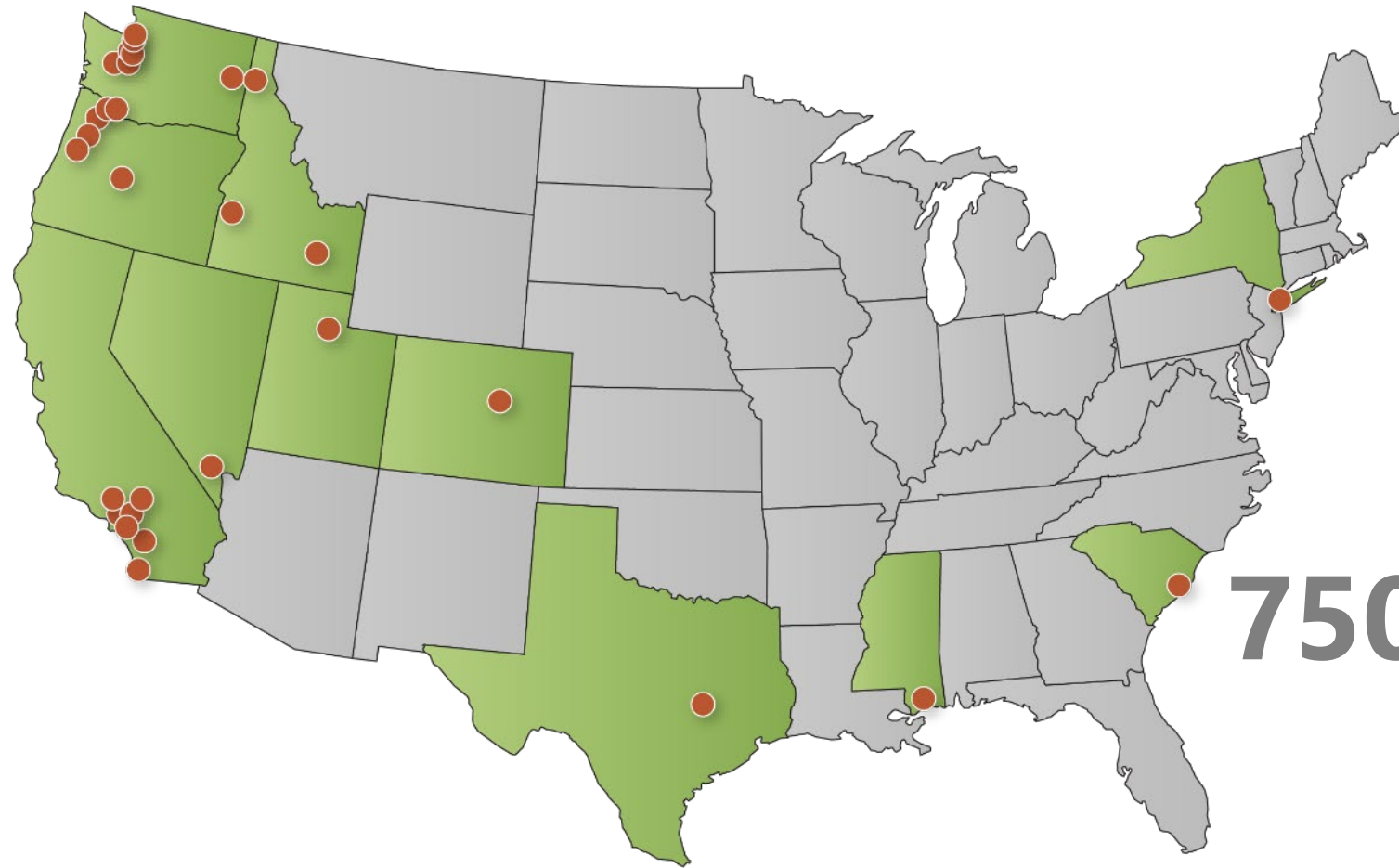


**Surveying and
Geomatics**

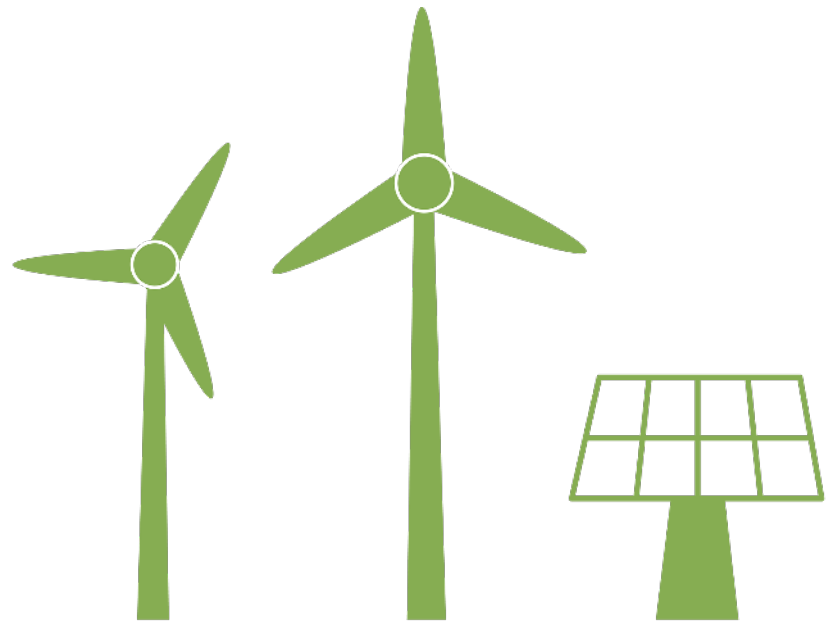


Marine Services

We are where you are



750+ employees
30 offices



**WIND & SOLAR
ENERGY PROJECTS**

6,500 megawatts
POWERING
1,120,000
Households annually



CO₂
REDUCING
6,720,000
tons_{of} greenhouse gas / yr



Recent awards

2020 Best in Transportation, I-205: Johnson Creek – Glenn Jackson Bridge, Phase 2, ACEC Oregon

2020 Honor Award, SW 124th Avenue Improvements, ACEC Oregon

2020 Honor Award, Chetco Point Memorial Trail Project, ACEC Oregon

2019 Outstanding Urban Land Development Project, Uptown Newport Village, ASCE Orange County

2019 Outstanding Architectural Engineering Project, The Boardwalk Project, ASCE Orange County

2019 Award of Merit, Century Boulevard Extension from Grape Street to Alameda Street: Highway Bridges, ENR California

2019 Outstanding Roadway and Highway Project, Century Boulevard Extension – Grape Street to Alameda Street, ASCE Los Angeles

2019 Gold Award, Restoration of the Mariposa Grove of Giant Sequoias, ACEC Washington

2019 Best in Transportation, Nehalem River (Lommen) Bridge Replacement, ACEC Oregon

2019 Honor Award, Mirror Lake Trailhead Relocation, ACEC Oregon

Solutions



ALTERNATIVE PROJECT DELIVERY
CONSTRUCTION ENGINEERING
ENERGY DEVELOPMENT
ENGINEERING
GENERAL SERVICES AGREEMENT
LANDSCAPE ARCHITECTURE
PLANNING
PROJECT MANAGEMENT
NATURAL RESOURCES



Social Responsibility



Our social responsibility is uniquely aligned with our strategy to improve the quality of life while demonstrating stewardship of the built and natural environments.





Da Vinci

Los Angeles, California



2016 Outstanding Parks and Recreation Project, ASCE Region 9

2016 Parks and Recreation Project of the Year, ASCE Los Angeles, Riverside, and San Bernardino Counties

2016 Project of Merit, APWA SoCal



Ocotillo Park

Cathedral City, California



Platform 14 at Orenco Station

Hillsboro, Oregon

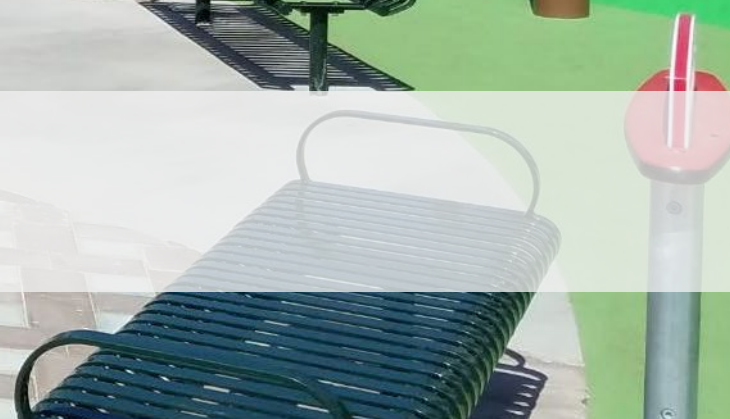


Safari Drive

Scottsdale, Arizona



Bryce Hanes Park
San Bernardino, California





AWARD
WINNER

2016 Award of Excellence, California Parks and Recreation Society



Memory Lane Park

Santa Ana, California