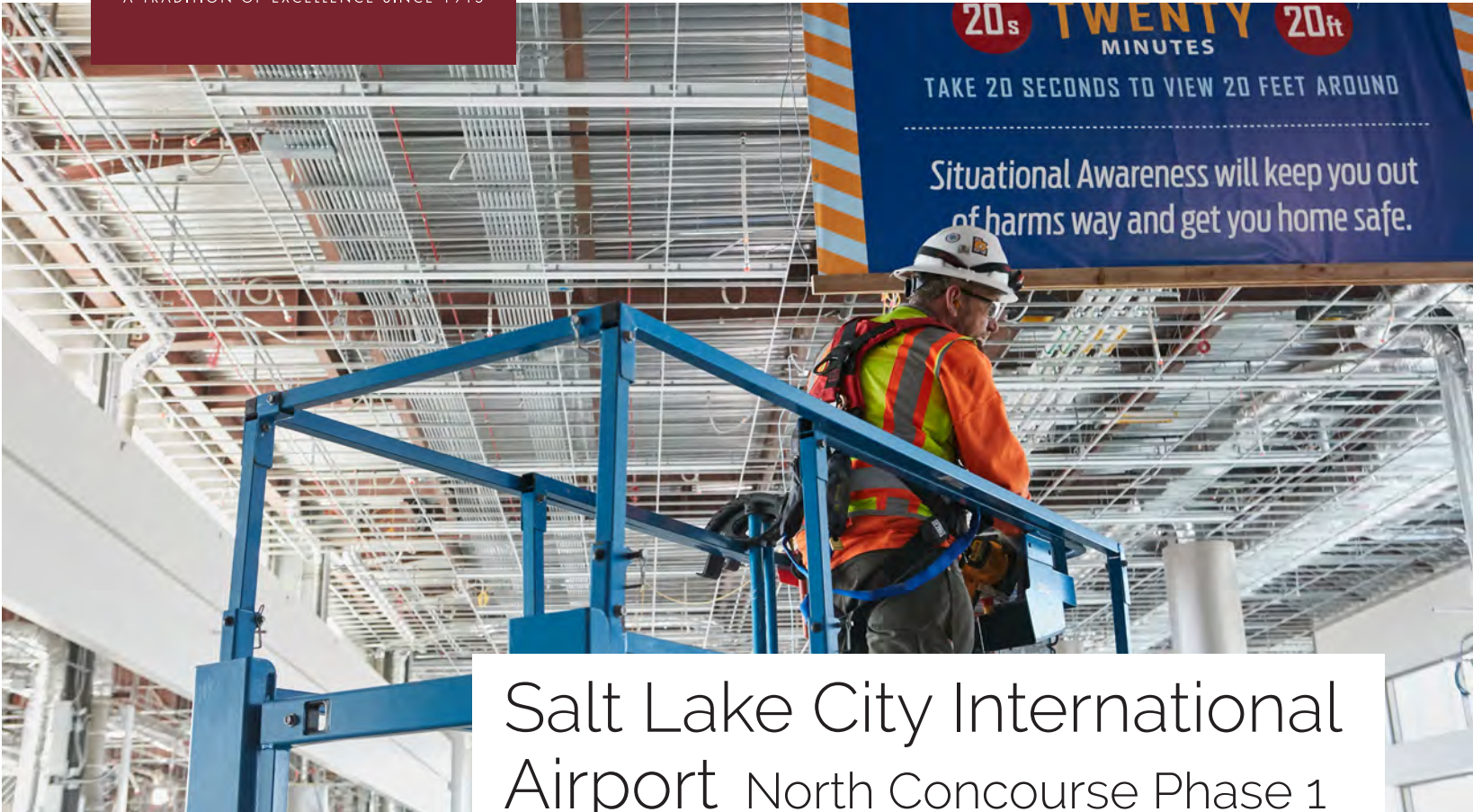




CACHE VALLEY ELECTRIC
A TRADITION OF EXCELLENCE SINCE 1915

VOL 19 ISSUE 2 | DECEMBER 2019

NEWSLETTER



Salt Lake City International Airport North Concourse Phase 1

SALT LAKE CITY, UTAH

476,650
SQ FT

AUSTIN-OKLAND, A JOINT VENTURE
GENERAL CONTRACTOR

SALT LAKE CITY DEPT. OF AIRPORTS OWNER

CVE DIVISIONS **ELECTRICAL CONSTRUCTION, AVTEC, TELEDATA, MULTIMEDIA, DAS, CVE TECHNOLOGIES GROUP**

PROJECT OVERVIEW

The new North Concourse at the Salt Lake International Airport is nearly 50% complete and on schedule to open in the fall of 2020. Cache Valley Electric is proud to be involved in this project with a broad scope of work including complete electrical construction and redundant power system (capable of powering all critical systems during an outage), structured cabling, Distributed Antenna System for cellular connectivity, physical security, Wi-Fi access infrastructure, and more.

This highly collaborative project is an excellent opportunity for multiple CVE divisions to work together providing significant integrated value to both the Austin Okland Joint Venture team and the Salt Lake Department of Airports. For years to come, Salt Lake residents as well as the travelers who pass through the new North Concourse will appreciate the state-of-the-art building teeming with the most advanced technology available.

continued on page 2



Salt Lake City International Airport, continued from pg 1



ELECTRICAL CONSTRUCTION DIVISION (ECD) SCOPE OF WORK

- Dual incoming RMP electrical service yards
- Dual emergency diesel fired backup generators
- Emergency backup UPS system
- Building automation system
- Distributed Antenna System for airport communications
- Extensive, custom LED lighting fixture package
- Ample convenience power, receptacles, etc. for travelers in concourse area(s)
- Fire alarm system that communicates with South Concourse and other buildings on the airport campus
- Extensive signage and wayfinding package for travelers
- Extensive teledata system including full build outs of numerous IT closets
- Full CCTV and multiple security systems installed in the airport for different levels of security
- Public address system throughout concourse for airport and public communications
- VDGS (visual docking guidance system) for aligning aircraft at passenger boarding bridges
- Construction, power and data to Passenger Boarding Bridges (PBBs)
- Power and data provisions for airport tenants, vendors, concessions, etc.

TELEDATA SCOPE OF WORK

- 650,000 feet of Cat6A shielded data cable
- 6,650 Cat6A data jacks
- 147 data cabinets
- 125,000 feet of fiber cable
- 7,328 feet of fiber optics fusion splices
- 200,000 feet of micro-duct

CVE TECHNOLOGIES GROUP SCOPE OF WORK

- Procure, configure, and deploy the network infrastructure that will provide all connectivity for the North Concourse

AVTEC PHYSICAL SECURITY SCOPE OF WORK

- Provision and installation of facility-wide control systems to include access control, video surveillance and digital paging
- Working with numerous enablement packages for support of the facility transition.



University of Portland – Dundon-Berchtold Hall

PORTLAND, OREGON

FORTIS CONSTRUCTION & CHERRY CITY ELECTRIC GENERAL CONTRACTOR	UNIVERSITY OF PORTLAND OWNER
CVE DIVISION CVE PORTLAND STRUCTURED CABLE, AV, DAS, SECURITY	

PROJECT OVERVIEW

The CVE Portland team began a great partnership with the University of Portland in the fall of 2018 when construction began on Dundon-Berchtold Hall, a new teaching and academic hall on the campus in downtown Portland. Construction concluded in fall of 2019 and the newest academic building on the campus is now complete with 17 classrooms, an auditorium, 36 offices, and 3 conference rooms. The building is brimming with technology and security features and supported by the structured cabling backbone, all installed by CVE Portland.

SCOPE OF WORK

- 3 floors of structured cable install
- Wireless access points installed throughout
- Card readers to provide access and security
- Security cameras installed
- Projectors, screens, speakers installed in the classrooms, conference rooms, offices and auditorium.
- Public safety Distributed Antenna System (DAS) install connected with other buildings on campus.
- LEED Gold Certification

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@observian

Connect with
all our CVE
Divisions on
social media!

CHG Healthcare

MIDVALE, UTAH

CHG HEALTHCARE OWNER

CVE DIVISION **OBSERVIAN**



PROJECT OVERVIEW

Observian is assisting CHG Healthcare in migrating their applications to the AWS Cloud. Observian's AWS certified cloud engineers have helped jumpstart CHG's application migration process by first performing an AWS Well Architected review to ensure that CHG implemented AWS's Best Practices. This review helped educate the CHG technical staff and ensured that a scalable and secure environment was developed to rapidly migrate applications following best practices.

Observian engineers have also helped CHG's CI/CD (continuous integration/continuous delivery) software delivery process so that future software application deployments can be rapidly, securely, and properly executed in the AWS Cloud.

SCOPE OF WORK

- 200 hours of Professional Services
- 2 Observian Architects

WHY CLOUD?

Companies are moving data to the cloud for one simple reason: return on investment. Today, if you are hosting a web server on premise, you are paying for that server 100% of the time. When you architect that web server in the cloud, that server exists at no cost when it is not in use, at night, for example.

The International Data Corporation reports that the five-year total cost of ownership (TCO) of developing, deploying, and managing critical applications in AWS delivered a 64.3% savings when compared to deploying the same resources on-premises or in hosted environments.

Project Update

UDOT 1-15 TECH CORRIDOR AT TRIUMPH BRIDGE LEHI, SR-92 TO LEHI MAIN STREET LEHI, UT



PROJECT OVERVIEW

This \$430 million project widening I-15 in Utah County, Utah will now improve traffic congestion between Lehi's Main Street and S.R. 92 (Timpanogos Highway), known as the Tech Corridor. Cache Valley Electric's Signal and Utility Division worked with UDOT to provide lighting, signals, signage, traffic monitoring, utility, and toll lane controls.

SCOPE OF WORK

Two additional travel lanes in each direction; new bridge over I-15 at Triumph Boulevard; one-way frontage roads and redesigned interchanges between S.R. 92 and 2100 North; reconstructed bridges at cross streets and railroad crossings; new bike and pedestrian connections.



IHC Spanish Fork Hospital

SPANISH FORK, UTAH

234,522 SQ FT

OKLAND CONSTRUCTION
GENERAL CONTRACTOR

INTERMOUNTAIN HEALTHCARE OWNER

CVE DIVISIONS **ELECTRICAL CONSTRUCTION, TRANSMISSION LINE & SUBSTATION, TELEDATA & MULTIMEDIA**

PROJECT OVERVIEW

Cache Valley Electric—as a trade partner with Okland Construction—is currently working on Spanish Fork Hospital, another successful project with Intermountain Healthcare. The four-story hospital will include four operating rooms (with shell space to add two more), two endoscopy rooms, two C-section operating rooms, five LDR (labor, delivery, and recovery) rooms, three birthing rooms and 28 patient rooms, as well as spaces for MRI, CT scan, radiology, radiation, and fluoroscopy. A three-story medical office building will also connect to the hospital.

CVE's site package includes complete electrical construction, structured cabling, installing 89 site lighting pole fixtures and light fixtures for the helipad, and bringing in two separate utility feeds. In addition, CVE is building a remote central utility plant, housing three generators (with an option to add a fourth) and installing a tunnel from the central processing plant to the hospital.

In truly innovative fashion, the CVE team designed, engineered, coordinated, prefabricated, and installed the headwalls for all of the patient rooms (pictured to the right). CVE's BIM group designed and coordinated with other trades to create the prefabricated pieces to include the setup for electrical, gas, and mechanical. This saved time and labor costs by having one trade—instead of several—on-site during installation.

SCOPE OF WORK

- Utility yard power: medium voltage meter cabinet installation, transition switch, and 600 amp pad mounted switch
- 2-2500KVA 12470/480 transformer and 1-2000 KVA 12470/480 transformer
- Complete installation of Black Diamond video infrastructure for all operating and endoscopy rooms
- Fiber/copper backbone, voice/data
- Camera, WAP, TV, TOTGuard
- Nurse call home run cabling for the hospital and clinic
- 1 million feet of Siemon Cat6A F/UTP cable
- TEC (Data Center) with 11 cabinets with a fiber and copper cross connect infrastructure
- AV, overhead paging, and sound masking





Young Living Essential Oils

LEHI, UTAH

260,000
SQ FT

OKLAND CONSTRUCTION
GENERAL CONTRACTOR

YOUNG LIVING
ESSENTIAL OILS OWNER

CVE DIVISION MULTIMEDIA

PROJECT OVERVIEW

Construction was recently completed on a new five-story corporate headquarters for Young Living Essential Oils. The building features four floors of employee offices and conference rooms; the main level is a customer-oriented space. Throughout the project, CVE Multimedia worked closely with Okland Construction and the Young Living facilities team to outfit the building with awe-inspiring features including an auditorium complete with a 28-foot screen, customer experience theaters, a café, and video walls.

The 28-foot-wide, 1,270 lb projection screen is the largest that the CVE Multimedia team has installed to date. Multimedia Project Manager Ryan Lewis and his team worked closely with CVE Safety, Young Living, and Okland Construction for

months in advance so when the time came, CVE Multimedia Foreman Matt Ivey and his team were able to get the screen hoisted into the building with the help of Okland Construction and structurally mounted in the ceiling in only one day. The custom format of this screen required edge blending two 10K lumen projectors together to fill this massive screen and the end result is absolutely stunning.

SCOPE OF WORK

- Outfitted building-wide distributed audio, sound masking, and digital signage for 65 conference rooms.
- Installed a fully-loaded auditorium featuring a 28-foot wide projection screen with two edge blending projectors and a Crestron NVX network video distribution system and line array speaker audio, as well as customer theater spaces featuring three 2x2 video walls.



Recently Awarded Projects

ELECTRICAL CONSTRUCTION

Utah State Correctional Facility
-Men's General Population Bldg
-Male Maximum Security Bldg
-Security & Electronics System
Procter & Gamble
-Project Rosetta & Diaper Line
Aligned Energy - Multiple projects
DataBank - SLC 05 Construction of 100 sq. ft. Data center
DataBank - 2 MW upgrade project
DataBank - on going maintenance projects

HEAVY INDUSTRIAL

Nucor Steel - Hickman, AR
Galvanizing Line Duct Banks
Water System 5 MCC Upgrade
FX 3&4 Roll Mill Drive Upgrade-
Hickman AR
EAF 2 Vault Upgrade-Hickman AR
NYS - Armorel, AR
Switchyard 5 Upgrade
Air Liquide -Armorel AR - Compressor B
Calstrip -Hickman AR
Plant Ethernet Wiring
Precoat Metals - Houston TX
Wet Section Upgrade
Precoat Metals- Armorel AR
Incinerator Upgrade
Big River Steel Phase 2 - Osceola AR
- Autonomous coil storage building
Power distribution and Utilities.
-Russula Water Treatment systems,
embedded conduits and grounding.
-Tunnel Furnace power distribution &
utilities.
-Deep well pump #4
-Melt shop lighting and utility
expansion
-Gas Cleaning plant embedded
conduits and grounding
-Main substation 35KV switch yard
embedded conduits & grounding.

HAWAII ELECTRICAL CONSTRUCTION

Bishop Residential Conversion Phase 1
Siemens AT&T Keawaula
Pacific Guardian Center FA Phase V
Triple VA CFA Room
Meadow Gold Waster Water Treatment
Phase 2
Project NDA
Ala Moana-Shopping Center Various
Additions
Senior Residence Iwilei Hallway

TRANSMISSION LINE & SUBSTATION

Doc Crew - Park City, UT
Copco 2 & Weed Junction Substations
- Weed, CA
90Th South Substation Bus Tie Breaker
- West Jordan, UT
Enterprise Valley Substation -
Enterprise, UT
Ochoco Substation - Prineville, OR
Naples Substation - Naples, UT
GE Nextra - Big Stone City, SD
GE Boise Bench - Boise, ID
Goggin Substation Civil - Salt Lake
City, UT
Q-888 Bullard Substation - Lakeview,
OR

BAF Substation - Rexburg, ID

SERVICE DIVISION

LDS - Salt Lake Cannery - Line Addition -
Salt Lake City, UT
Albany - Tank Winding Room - Salt Lake
City, UT
Verizon Wireless - Salt Lake Airport -
DAS Installation
University of Wyoming -Stadium/Arena
DAS/WiFi Installation - Laramie WY
Dannon - Boccard - Process Line
Addition - West Jordan, UT
CEDAP - Line Relocation - France
CEDAP - Building Service and Equipment
- Clearfield, UT

SIGNAL & UTILITY

Daybreak Pkwy & Vадania Signal
UDOT Region 3 Signs
Ninigret North III Substation Signal
Syracuse
Garden City Bore
Highland Dr. & Corporate Way Signal
CR England TSD
UTA Airport Station Relocation Project
SR-164 & Mill Road/Woodland Hills Dr
Clinton 1500 W 1800 No Ped Pole
Upgrade
UTA Tiger Sandy Multi Use Path
31st ST & Pennsylvania, Ogden
SLC Airport IC1, IC2 Comm Raceway &
Gate Electrical
Vail Resorts Trash Compactors
Wrong Way Detection
Adams Ave Lighting Upgrade,
Washington Terrace
Northrup Grumman Site X Electrical
Dugway Conduit Path for Fiber for
Teledata

AVTEC

American Express Corporate Offices
(SLC) - Security Project
Avista Corporation Mission Parking
Structure - Security Project
BioFire Diagnostics
Security Control System Upgrade
Project
650 Komas Phase 1 and Phase 2
Cambia Health
Salt Lake / Cottonwood System
Improvements
Ciner
Hub and IT Building Additions Project
Dominion Energy:
Riverton Odorant - Security Upgrades
Coleman Station - Security Upgrades
Levan Peak - Security Upgrades
Medicine Butte - Security Upgrades
Flexential
Security Controls Projects:
Nashville, TN; Portland, OR; Salt Lake
City, UT
Malouf Linens
Office Expansion - Security Project
Park City Municipal
MARC / Utility - Security Upgrades
Public Utility District No. 1 of Chelan
County
Technician & Electrical Support
Contract

Rocky Mountain Power

Mercer Substation - Security Controls
PacifiCorp
JC Boyle - Video System Upgrades
LCT - Video Management Upgrade
Wind Generation / Transmission -
Security Project
Salt Lake City Department of
Airports
IC2 - Video Project
Salt Lake City Department of Public
Utilities
Parley's Water Treatment Project
North Salt Lake Water Reclamation -
Upgrade Project
City of Saratoga Springs
Police & Court Security Project
Western Governor's University
Tower 2 - Security Project
Retail Expansion - Security Project

TELEDATA/MULTIMEDIA

TELEDATA

Codale Reno - Reno, NV
Vivint Solar New Building - Lehi, UT
Boral Plant Upgrade - Tijuana, Mexico
American Express - Sandy, UT
U of U Hospital & Clinics Wireless
Upgrade - SLC, UT
U of U Infill Project - SLC, UT
Roosevelt Elementary - Roosevelt, UT
Dugway Fiber Infrastructure - Dugway,
UT
SLCC Jordan Campus Student Center -
South Jordan, UT
Provo Fire Station #2 - Provo, UT
Galileo ProcessingNew Data Center -
SLC, UT
Hawaii State Hospital - Kaneohe, HI

MULTIMEDIA

Health Equity TP-3 Building - Draper, UT
Health Equity Conference Room
Upgrade (2 Buildings) - Draper, UT
South Jordan City Fire Station 64 -
South Jordan, UT
Davis Technology College Allied Health
Building - Kasville, UT
IHC Altaview Hospital Education Center
Meeting Rooms - Sandy, UT
Hawaii State Hospital New Patient
Facility - Kaneohe, HI

WIRELESS/DAS

Salt Lake City Airport - Public Safety
DAS - SLC, UT
University of Wyoming Neutral Host
DAS - Laramie, WY
Rady's Children Hospital - San Diego, CA
OHSU - ECEC - Portland, OR
Sprint Grand Wailea - 5G - Wailea, HI
University of Utah - ACC, Rehab, and
Housing - SLC, UT
Mountain View Hospital - Idaho Falls, ID

CVE PORTLAND

Cache Valley announced as OHSU
preferred contractor
Jaguar - structured cable, security, AV,
Portland, OR

4th & Montgomery - Structured Cable.
Portland, OR
City of Portland Security - Structured
cable, security. Portland, OR
Wildhorse Resort & Casino - structured
cable, security. Pendleton, OR
Army Corp of Engineers - Audio Visual
Portland, OR
Salem Police Dept - structured cable,
security. Salem, OR
Lincoln City Police Dept - structured
cable, security. Lincoln City, OR
Nike - structured cable, security, DAS,
AV. Beaverton, OR
Cambia - structured cable, security, AV,
Portland, OR and surrounding cities.
MLK Condos - structured cable,
security. Portland, OR

CVE TECHNOLOGIES GROUP

Eugene Water & Electric Board
Adobe Systems Inc.
NetDocuments
Utah Retirement Systems
State of Utah
WGU
The Church of Jesus Christ of Latter-
day Saints
Intermountain Health Care
Mayo Clinic
Biofire Diagnostics
Sportsman's Warehouse
ARUP Laboratories
HealthEquity
Equinix Inc.
North Clackamas School District
Galileo Processing
The Standard Insurance Company
Energy Solutions
Bend-La Pine School District
Sorenson Communications
Salt Lake City School District
Huntsman Cancer Institute
SolutionReach
Health Catalyst
TriMet
Hawaii Pacific Health
Sun Run
Park City Municipal
Utah Transit Authority
Barrick
Vykin
Lake Oswego Public Schools
Jerry Seiner
Ultradent
Overstock.com
AgReserves

OBSERVIAN

Western Governors University-
Application migration to AWS
NetDocuments- Application Dynamics
(Application Monitoring Tool
Implementation)
Prestige Financial- Alert Logic (Cloud
Security Tool Implementation)
Master Control- Dynatrace (Application
Monitoring Tool Implementation)
Talk Desk- GSuite Implementation

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Logan, UT 84321
435-752-6405

SALT LAKE CITY OFFICE

1338 South Gustin Road
Salt Lake City, UT 84104
801-908-6666

ARKANSAS OFFICE

5590 E. State Hwy. 137
Blytheville, AR 72315
870-824-6670

OREGON OFFICE

12550 SW 68th Ave.
Portland, OR 97223
503-431-6600

TEXAS OFFICE

2370 West Airfield Dr., Ste 200
Dallas, TX 75261
469-844-5730

HAWAII OFFICE

733 Bishop St., Ste 2170
Honolulu, HI 96813
808-354-0080

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CACHE VALLEY ELECTRIC

Cache Valley Electric
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PRST STD
U.S. POSTAGE
PAID
SLC, UT
PERMIT 6

Return Service
Requested

Fond Farewell to Holiday Trucks

In 1999, our owner and CEO Jim Laub began the tradition of gifting diecast collectible American classic trucks to our valued customers during the holidays. The trucks have been a symbol of our deep appreciation for the friendships we have formed with our customers.

Over the course of the years, we have exhausted the options of classic trucks to replicate. CVE brought many American classics to life in holidays past, many of them are still on display in offices around the country. This is a tradition we are proud of, and while our trucks are retiring this year, our dedication to our customers and dear friends lives on.



Our People are Our Power

CONGRATS & THANK YOU TO JIM PHELPS

Our people are our power, indeed. If there was a Hall of Fame for electrical construction icons, master electrician Jim Phelps would be inducted. After 28 years of service, Jim Phelps retired in October, after coworkers threw a celebration in his honor.