

The **Bergelectric** Report

NATIONAL

NATIONAL TECHNOLOGY SYSTEMS GROUP

Launching Next Generation of Excellence

When George Stivers joined the company just before the “turn of the century,” Berg’s low-voltage systems capabilities—then primarily fire-alarm, security, public-address, tel/data and audio/visual—were just beginning to take shape. Since 1999 the type of products, services and technologies offered, as well as the number of highly-specialized personnel assigned throughout Berg offices, have grown exponentially. “Our **National Technology Systems Group** was formed to consolidate all of our existing low-voltage divisions under one management umbrella to provide distinctive advantages to our clients,” stated Stivers, who is vice president of the group.

Whether Bergelectric is designing or installing low-voltage systems, the **National Technology Systems Group (NTSG)** offers a highly-collaborative approach that encourages the dynamic exchange of ideas and resources—and results in unprecedented efficiency throughout the design process, project management and field execution across the nation. “In order to deliver a more consistent product, we’ve also aligned under one estimating manager who oversees all of the estimates for the newly-structured group,” Stivers added. This positions the **NTSG** to deliver a well-coordinated effort that is in line with the rest of Bergelectric’s services on both large and small projects.

NTSG Bottom Line—Benefiting Clients

Over a decade of collaboration between Berg’s electrical construction crews and in-house technology professionals has resulted in the industry’s most reliable, cost-effective and forward-thinking solutions now coalesced through the **NTSG**. With a unified approach and one point of contact, the electrical division and the **NTSG** can work in concert to guarantee all critical milestones are achieved. “Having our own reliable resources creates stability, especially on high-risk assignments,” explained Berg Senior Vice President Alan Mashburn. “We have the confidence that the low-voltage systems—that can include wide-ranging scopes of work—will come online when we need them, ultimately giving us more control over the final outcome of a project,” he said.



Complex assignments with massive system requirements—such as the more than 6,000 fire-alarm devices that will be delivered for the Stratcom military installation in Nebraska—are a perfect fit for Bergelectric’s in-house capabilities. “The ability to draw on our own forces as one of the largest electrical contractors in the nation equates to clients saving through appropriately-planned systems that meet their specific needs well into the future, turnkey solutions that encompass the latest technologies and available manpower to ensure an efficient installation,” Mashburn concluded.

Beyond One-Stop Shopping—NTSG Prime-Contracting Capabilities

While electrical construction has always been the cornerstone upon which Berg was founded nearly seven decades ago, much more is now possible with this trailblazing move that provides benefits well beyond “one-stop shopping” for Bergelectric clients.

“Standing on our own merit, the **NTSG** is able to both procure and perform prime work, that is not necessarily associated with Berg’s electrical construction projects,” said Stivers. In fact, approximately 30 percent of the **National Technology Systems Group’s** work currently performed is under a prime contract and that number is expected to continue to rise.

When the **NTSG** acts as prime contractor on prominent assignments—such as the multi-million dollar **Scripps Health** projects on which Berg is providing nurse-call, fire-alarm and WiFi upgrades as well as the latest in Distributed Antenna System (DAS) technologies—Berg’s position as direct distributor for manufacturers like Edwards EST Fire Alarm, Hill-Rom Nurse Call and Lenel Security provides direct benefits to the client. In addition to centralizing Berg’s low-voltage estimating under one manager for a better product, vendor relationships are maximized to give Berg clients the best buying power nationwide.

Industry Leaders Shaping the Future

Clients can rely on receiving the highest level of service from Berg professionals who are part of the **NTSG** and have achieved the prestigious **Registered Communications Distribution Designer (RCDD)** and **Outside Plant Designer (OSP)** designations offered by **Building Industry Consulting Service International (BICSI)**. From industry-leading designers to field technicians who hold **Information Technology Systems (ITS)** cabling and **National Institute for Certification in Engineering Technologies (NICET)** fire-alarm installation certifications, clients can rest assured that Bergelectric’s **NTSG** is building their project to the latest industry standards and best practices. “Bergelectric is an active participant in these organizations, serving in leadership roles and is at the forefront of our industry helping shape its future,” emphasized Berg Preconstruction and Design Manager Mario Sanchez, RCDD.

INSIDE CONNECTIONS

National
National Technology Systems Group provides distinct advantages for Berg clients.

Ventura
Making history at new \$140-million **Film Archive and Preservation Center**.

Los Angeles
Berg brings dynamic and diverse hospital expertise to **Loma Linda Medical Center** projects.

San Diego
Return match for \$82-million expansion at world-class **Indian Wells Tennis Garden**.

Sacramento
Berg in prime role on \$127-million **Rideout Memorial Hospital** additions.

Arizona
Championing expanded **Muhammad Ali Parkinson Center** in Phoenix.

Las Vegas
The Shops at Summerlin, a 106-acre retail development, underway with **VCC**.

Orlando
Productive history with **DPR** and **Qualcomm** transcends coasts.

Orange County
Repeat success with **R.D. Olson** on new \$50-million **Courtyard by Marriott Irvine Spectrum** and **LAX Hilton**.

Colorado
New \$155-million **Charles Schwab Service Center** campus reflects Colorado economic recovery.

Raleigh-Durham
Berg on board with **KBR** to deliver fast-track **Alamance Regional Medical Center** in Burlington, NC.

New Raleigh-Durham offices expanding staff and capabilities.

Austin
Berg collaborating with **JE Dunn** on new 24-story residential towers in West Sixth Street area.

Northwest
Northwest Region celebrates opening of new Seattle operations office.

ENR
Engineering News-Record

NO. 11
Among electrical contractors nationwide

NATIONAL TECHNOLOGY SYSTEMS GROUP SERVICES

- Structured Cabling Network Design and Installation
- Voice, Data and Video System Design and Installation
- Backbone Distribution System Design and Installation
- Optical Fiber Design and Installation
- Wireless Networking (WiFi) Design and Installation
- Distributed Antenna Systems (DAS) Design and Installation
- Audio/Visual and Sound System Design and Installation
- Public Address System Design and Installation
- Fire Alarm System Design and Installation
- Nurse Call System Design and Installation
- Access Control, Security and CCTV Design and Installation
- Campus Pathways and Cabling Systems
- Full Data Center Design & Installation
- Design and Installation of Horizontal and Vertical Conduit Pathways
- Cable Tray Design and Installation
- Feasibility Analysis and Consulting Services
- LAN/WAN/MAN Design Architecture and Deployment



PRESERVING

THE

“Stuff Dreams Are Made Of”

Making History at New \$140-million Film Archive and Preservation Center

Imagine movie classics like “Gone with the Wind”, “The Wizard of Oz” or “It’s a Wonderful Life” being erased from history because the film upon which they were recorded—what one writer described as “the stuff dreams are made of”—has disintegrated into nothing but a pile of dust. Prior to 1950, the nitrate cellulose film used to record these timeless moving images was both chemically unstable and extremely flammable. The next generation of material to replace it however—acetate “safety” film —has been found to also deteriorate over time. Today, polyester film stock and digital processes are being utilized to safeguard both image and sound quality, but in the meantime an estimated 50 percent of pre-1950 American sound films have been lost or compromised.

In the arena of film preservation, one must be part scientist, part researcher, part movie buff, part historian, part technician, part puzzle solver, part artist and part audiophile. It is a painstaking labor of love that has been described as both “labor intensive and an extremely costly endeavor.” Enter from the wings a non-profit foundation established in 1987 dedicated to such historically-significant endeavors as archeology, music, film-preservation and historic-conservation. Serving as a hands-on operating foundation, the **Packard Humanities Institute (PHI)** has already taken on long-term film-preservation projects involving the nation’s two largest moving-image archives—the *Library of Congress’ National Audio-Visual Conservation Center* and the *UCLA Film and Television Archive*.



Collaborative Partnership Creating Customized Approach

In its latest endeavor, **PHI** selected **Morley Builders** to deliver the \$140-million **Film Archive and Preservation Center** in Santa Clarita, CA, which will be overseen and operated by **PHI**. In a highly-collaborative partnership, Bergelectric is developing innovative customized installation solutions for the unique complex that is home to offices, state-of-the-art film preservation laboratories, a high-tech digital moving-image and audio-preservation laboratory,

meticulously-kept film video and paper-storage archives, specialized underground nitrate-storage vaults that are all environmentally-controlled to protect and stabilize the extremely combustible material and screening rooms to show the finished footage.

In an effort to achieve architectural and environmental goals, both the building structure and challenging layout take advantage of natural contours of the hillside site. Preserving the mature-growth oak trees dotting the landscape, the bulk of the Collection Storage area of the 180,000-sf LEED Silver facility is constructed

underground. Strictly-controlled temperature and humidity are powered by a new central plant that Bergelectric professionals are working diligently to seamlessly bring on line.

From the outset, the entire **Morley/Berg** team strived to carefully coordinate with end-users who are already involved in their own film-preservation activities at the existing *UCLA Film and Television Archive*, which is co-located with the **PHI** facility now under construction. The spotlight has been on a well-choreographed switchover that eliminated lapses in critical service throughout construction, as well as during the sensitive transition from the old utility service to the new 4000A service.

Bergelectric crews responsible for the installation are providing the much-needed peace-of-mind that currently-ongoing vulnerable preservation operations will be completely protected. “For this fall, we have been planning a smooth and seamless conversion of emergency generator power by bringing online a new 600kW bi-fuel (diesel and natural gas) generator system to serve both the existing *UCLA* facility and **PHI**’s new **Film Archive and Preservation Center**,” stated Bergelectric Regional Manager Steve Parks.



Inspired by the Classics, Designed to Perform

Replicating ancient Greek architecture featuring covered porticos or columned walkways, **BAR Architects** designed the “Stoa” portion of the facility to inspire the preservationists in their monumental efforts. From Mediterranean interior architecture influenced by a classic Florentine monastery to the authentic terracotta floors and two-story columned colonnade, design of the offices and workrooms considered every minute detail in order to perform synergistically with regard to both aesthetics and function. Providing state-of-the-art tel/data systems that perform flawlessly behind the scenes is the role of **Bergelectric’s National Technology Systems Group**.

Building on a well-established alliance with electrical engineer **Mazzetti Nash Lipsey Burch (m+nlb)**, and a proven 12-year track record with **Morley Builders** MEP Coordinator Garrett Miller, Bergelectric was involved early in design development to create custom assemblies, systems and installation methods. Many of the items that Bergelectric is installing—such as the wrought-iron and spun-glass cylinder light fixtures from Italy—are adaptations of original works of art. Unique to the **PHI Film Archive and Preservation Center** is the customization of products, including lighting, switching and dimming systems and finishes.

Of equal importance to the requirement that materials be beautiful and true to the original creation is that they also function efficiently for years to come. “Berg has done an amazing job in keeping up with our schedule, as well as the intricacies involved in such a complicated and evolving project,” noted Miller. “This is a 100-year facility and the installation needs to last. Berg’s ability to adapt and to achieve the right balance among aesthetics, performance and endurance is another reason why we chose them for the **Film Archive and Preservation Center**,” Miller added.



In a highly-collaborative partnership, Bergelectric is developing innovative, customized installation solutions for the **Packard Humanities Institute’s Film Archive and Preservation Center** in Santa Clarita, CA. The unique complex is home to offices, film-preservation labs, a high-tech digital moving-image and audio-preservation lab, video and paper storage archives and specialized underground nitrate-storage vaults.



Supporting a HEALING TRADITION

Berg Brings Dynamic and Diverse Hospital Expertise to Loma Linda University Medical Center Projects

Although the City of Loma Linda, CA has a modest population of only 21,000, it has served as a “national center of health and wellness” for over a century. The physicians of **Loma Linda University Medical Center (LLUMC)** continue to be honored among “The Best Doctors in America” and the cutting-edge institution has been named as one of the top hospitals for the treatment of cancer in recent issues of “U.S. News & World Report.” Perhaps most well known internationally for infant heart transplantation and proton therapy treatments for cancer, the medical institutions that comprise the **LLUMC** campuses offer a full gamut of healthcare services that has resulted in being recognized as “one of the leading health-sciences and educational institutions and hospitals in the nation.”

To help maintain this leadership position **LLUMC** has embarked on a 10-year capital-improvement program that will address not only HVAC, ADA and seismic upgrades, but also space needs into the future. With its diverse portfolio of healthcare experience that has resulted in an extraordinary understanding of its healthcare partners’ needs, Bergelectric has proven to be a textbook candidate to support **LLUMC** in its current efforts. From on-call emergency electrical service and small-scale renovations to massive new hospital construction that includes the \$101-million Palomar Medical Center West, the 740,000-sf Naval Hospital Camp Pendleton and a 1.2-million-square-foot California state hospital—Bergelectric’s team has provided the latest innovations and environment of care on over 38 million square feet and \$730 million in healthcare electrical and systems installations nationwide in just the last decade.

Throughout this past year, Berg’s healthcare professionals have been entrusted to perform services on a wide array on at least 15 **LLUMC** projects. In addition, the Los Angeles Service Division, under the leadership of Hans Erickson, is providing on-going support to all **Loma Linda** facilities through its **Communication Network Services (CNS)** department on such assignments as low-voltage cabling conduit infrastructure and the addition of power for networking equipment and data-center devices that are the lifeline of the institution.

Many Projects, One Mission

According to Berg Project Manager Jeff Hamilton, regardless of the magnitude of the assignment, Berg’s knowledge of existing facilities and full-time presence at the multi-campus institution enhances its ability to best directly serve all of **LLUMC**’s electrical, service and technology-systems’ needs. “Our scope has been broad—including everything from running conduit, power additions, medical-wing and department remodels and elevator upgrades, as well as other miscellaneous electrical work,” noted Hamilton.

Los Angeles Commercial Projects Division Manager Darren Murray talked about some of the key projects that Berg has worked on directly with **LLUMC**—such as the 9,200-sf **Cancer Resource Center** and the latest **Clinical Decision Unit**. “Our depth of experience with the *California Office of Statewide Health*



Throughout the past year, Bergelectric pros have been entrusted to perform electrical and technology systems services on a wide array of projects for **Loma Linda University Medical Center**—including this new **Cancer Resource Center** pictured above.

Planning and Development (OSHPD) has proven invaluable in keeping approvals and schedules on track,” he said. In the last 10 years on major California projects alone, Berg has completed well over six million square feet totaling more than \$500 million in electrical construction at hospitals, medical centers, cancer-treatment facilities, medical-office buildings, emergency departments, cardiovascular institutions and diagnostic facilities throughout the state, supplying Bergelectric with keen insight into regulatory requirements as well as expediting the *OSHPD*-approval process.

“I’ve worked on a real variety of projects at **LLUMC** as general foreman—from ICU and nurse-call upgrades, cardiovascular-lab construction, emergency-department improvements, uninterrupted power supply (UPS) and the build-out of a unique environment for the **Cancer Resource Center**,” added Bergelectric veteran Don Rittmiller. No matter what the depth and breadth of assignment, Rittmiller noted, “We know we can count on each and every Bergelectric staff member—from major projects divisions to service divisions and national systems groups to share their knowledge and expertise, which ultimately contributes to a successful project and quality delivery for **Loma Linda**.”



Berg’s depth of experience with *OSHPD* has proven invaluable in keeping approvals and schedules on track for at least 15 projects at **Loma Linda University Medical Center**.



Lights, Camera, Action . . .

Aside from climate control, lighting has perhaps the most critical function in the laboratories to help assure precision, quality and accuracy. From the fabricated and specialized electrical floor boxes to exact unique specifications for the “non-custom” fixtures, great care was required of Bergelectric professionals to ensure the final product was a “take.”

Prior to actual fabrication and installation and in addition to a fully-coordinated BIM process that took nearly nine months to complete, several generations of mockups—both on the Santa Clarita site and with the assistance of Berg’s local Sacramento Service Department staff in San Jose, CA near **PHI** headquarters—were created by the **Morley/Berg** team. “As a result of a constant flow of feedback sparking collaborative solutions, the lighting in the workrooms and common areas has evolved through several iterations from on/off fluorescent to individually-controlled dimming LED fixtures,” explained Bergelectric General Foreman Bob Beattie.

Once **PHI** assumes partial occupancy of approximately one-half of the facility in December 2013, it will be prepared to launch the next generation of archival functions of its own. While the 64.5-acre site has potential for a future Collection Storage building expansion and library—which are already taken into consideration in the project’s long-term plan—it’s safe to say that with proper storage ensured, the film being restored, preserved and housed at the **Packard Humanities Institute Film Archive and Preservation Center** will be around for hundreds of years to come.



“The Film Archive and Preservation Center is a 100-year facility and the installation needs to last. Berg’s ability to adapt and to achieve the right balance among aesthetics, performance and endurance is another reason why we chose them for this project.”

Garrett Miller, MEP Coordinator, Morley Builders

Berg in its Prime on \$127-Million Rideout Memorial Hospital Additions

In 1907 when Phebe Rideout offered to donate her family's 4,000-sf "mansion" in Marysville, CA for renovation into a much-needed hospital facility to serve the largest city between Sacramento and Portland, a community health organization was born. A century later, the progressive 1,800-person staff of **Rideout Memorial Hospital** continues the same clear vision: "to help people get better, to lead healthier lives."

Spurring the need to expand to the six-square-block campus in historic Marysville was **Rideout's** emergency department that was bursting at the seams—experiencing 55,000 patient visits per year in a facility designed to accommodate about half that volume. As the area's only STEMI-receiving center where severe heart attacks are diagnosed and treated, as well as being designated as a Level III Trauma Center, it was essential for **Rideout** to be able to handle the case load—considering both the sheer number of patients and the quality of care.

In a \$127-million effort under the leadership of construction manager **Jacobs Project Management Co.**, **Rideout** is pursuing a 215,206-sf expansion with its new six-story hospital tower that will connect to an existing four-story tower on the first and second levels, but will remain seismically separated. The new construction program will add 8,000 square feet of space and essentially double the number of beds in the Emergency Department, which is phased to open in 2013 and 2015. Critical to the hospital's role as a STEMI-receiving facility and trauma center is a new rooftop helipad for Life Flight operations.

Labor of Love—Protected by the Best Technology

Whether it's bringing new life into the world or providing critical care for heart-attack patients, **Rideout** is in the business of saving lives. As part of the new six-story tower, a dozen labor and delivery recovery suites will serve as a vital part of the two-floor **Women's & Infants Maternity Center**.

Adding three heart catheterization labs and an imaging center are considered crucial technology investments by **Rideout**. In addition to all electrical work, Berg is responsible for wall rough-in of all low-voltage systems—including fire-alarm, public-address, food-service, medical-equipment, pneumatic-tube, exterior signage and nurse-call.

"We're working with our partners to provide electronic safety, security and cameras, as well as the *Hugs*® **Infant Security System**, which provides the world's

best protection against infant abductions," noted Berg Project Manager Roy J. Smith, IV. Families and patients alike can rest easier knowing their loved ones are protected by the best technology available.

Rideout Relying on Berg Modeling Expertise

Acting in a prime-contracting role Berg professionals are not only providing 3D modeling/BIM coordination specifically for synchronizing trades in the intricate above-ceiling work being performed, but have also been commissioned to provide BIM coordination throughout the hospital—capitalizing on the company's demonstrated expertise utilizing modeling programs like *Navisworks* and *Revit*. According to Assistant Project Manager Mike Verna, Berg is also conducting a value-engineered design-build of a low-voltage cable-management system for the new six-story tower that reflects **Rideout's** focus on "cost controls and increased efficiencies" in all of its operations.

Once completed, the much-anticipated Emergency Department expansion, as well as the additional 66 medical/surgical beds, future operating rooms and the two-room Endo Suite will enable **Rideout Memorial Hospital** to meet the expanding needs of a growing community—a legacy that will live on well into the next century.



Bergelectric is serving in a prime-contracting role on the 215,206-sf, six-story tower addition to **Rideout Memorial Hospital** in Marysville, CA. In addition to all electrical power and distribution and diverse low-voltage systems work, Berg has been commissioned to provide BIM coordination throughout the hospital—capitalizing on the company's demonstrated expertise utilizing modeling programs.

A R I Z O N A

Still the GREATEST

Championing Expanded Muhammad Ali Parkinson Center

Not long after retiring from the boxing ring, former champion Muhammad Ali was diagnosed with Parkinson's at the age of 42—nearly three decades ago. Since 1984, his rounds in the ring with this debilitating disease, which began with tremors, slurred speech and slow body movements, progressed to the point of being unable to speak in public. Ali's high-profile battle with the ailment and role as one of the original founders of **The Muhammad Ali Parkinson Center (MAPC) and Movement Disorders Clinic** has resulted in the most comprehensive facility in the US for treatment and outreach specifically established for disorders of the nervous system.

As part of the world-renowned **Barrow Neurological Institute** at St. Joseph's Hospital and Medical Center in Phoenix, AZ, the original **MAPC** was opened in 1997 and is now due for an upgrade. Returning for a repeat performance on the construction team are general contractor **Kitchell** and Bergelectric, who are responsible for the renovation and expansion of 26,865 square feet that focuses on functionality and patient comfort—from light wells installed at corridor intersections and updated kitchen and gym facilities that enhance patient therapy to a state-of-the-art conference facility that supports the **MAPC and Movement Disorders Clinic's** role as a *National Parkinson Foundation Center for Excellence*.

Phased Approach Doesn't Miss a Beat

Located on the third floor of the existing main hospital, the **Kitchell** team's phased approach included demolition and build-out of 16,290 square feet before

tackling renovation of the remaining portion of the third floor. "We were able to meet the challenge of working in a fully-functioning hospital through shift work and weekends in order to minimize impacts," shared Bergelectric Superintendent Mike Faust. Once Berg crews provided power, lighting and fire-alarm systems so office space and nurse stations could be occupied, the work began in earnest on renovating the rest of the third floor.

According to Berg Project Manager Nathan Sawyer, long before crews were on site Berg's BIM capabilities were tapped into to enhance coordination with trades on tight overhead installations and navigate complex existing utilities. Under the guidance of Bergelectric Foreman Brian Cavanaugh, all of the functions of this exceptional medical facility are being considered during critical transitions. "Schedules are being met and patient care is being maintained while tying into the existing older switchgear," Cavanaugh added. With improvements such as more than tripling patient consultation rooms, building a larger rehabilitation gym and accommodating the latest gait and balance lab equipment, the **Muhammad Ali Parkinson Center and Movement Disorders Clinic** will continue to be the greatest.



In a repeat performance **Kitchell** and Bergelectric recently completed a renovation and expansion of **The Muhammad Ali Parkinson Center and Movement Disorders Clinic**, the most comprehensive facility in the US for treatment and outreach specifically established for disorders of the nervous system.



RETURN MATCH

AT WORLD CLASS TENNIS VENUE

Since its grand opening in 2000, the **Indian Wells Tennis Garden** has been home to the largest combined ATP World Tour (ATP) and WTA (WTA) event in the world.

One of the premier events on the tennis calendar, the **BNP Paribas Open** offers over \$12 million in prize money and a \$1-million check is awarded to each singles champion. Much is at stake during the two-week-long international tournament, which is the largest outside of the four majors: Wimbledon and the French, Australian and US Opens. To stay competitive, executives of the **Indian Wells Tennis Garden** are always in pursuit of the latest tennis technologies—it is the only tournament worldwide to offer the Hawk-Eye line-calling challenge system on every match court. In addition, making continuous improvements in facility amenities, including top-notch restaurants, are among the many creative ways **Indian Wells Tennis Garden** continues attracting and accommodating ever-increasing crowds.

SETTING STANDARDS: Expanded Facilities to Accommodate up to 500,000 Spectators

The **Indian Wells Tennis Garden** was the brainchild of former No.1-ranked US player Charlie Pasarell and partner Raymond Moore—who now serves as CEO of the **BNP Paribas Open**. While the stadium has been acclaimed as one of the foremost tennis facilities in the world, it is now undergoing an \$82-million expansion program including a new 8,000-seat stadium, which will only enhance and improve the entire venue.

By offering the best-of-the-best amenities for players, fans, sponsors and the media covering the tournaments, the event's attendance has steadily increased from the first year's 187,000 spectators to over 380,000 in 2013—with a goal to attract over 500,000 over the next few years.

When big-thinker and Oracle Corporation co-founder Larry Ellison—himself a sports legend from his *America's Cup* racing pursuits—became new owner of the **Indian Wells Tennis Garden** in 2009, the current 183,626-sf expansion was born. Featuring first-rate amenities for players, patrons and members alike, the new three-level steel-framed and precast-concrete stadium will also be home to three upscale eateries, including the famed high-end sushi restaurant **Nobu** and the **Prime Chop House** owned by the Kaiser Restaurant Group, as well as a coffee and ice cream building and immense new shade structures that offer a respite from the desert sun.

SCORING POINTS: Experience Counts

With a critical 10.5-month schedule, which must be met in order for the world-class sporting event to take place in March, **Garden of Champions LLC** chose a team of professionals with first-hand knowledge of the existing facilities and a proven track record. Steve Simon, company COO and **BNP Paribas Open** Tournament Director notes, "We developed a good relationship with Berg when we first met their team during the initial buildout here and we have continued to work with them on a year-round basis for nearly 15 years. With the continued growth of the event our challenges with power and distribution of power have grown as well—Berg understands these requirements and we know that when we finish this exciting project we will have what we need for this event and for the future."

"With the continued growth of the event our challenges with power and distribution of power have grown as well—Berg understands these requirements and we know that when we finish this exciting project we will have what we need for this event and for the future."

Steve Simon, COO
Desert Champions, LLC

Serving in a design-assist role in support of electrical engineer **Glumac**, Berg is bringing all of this experience to bear on a massive list of preplanning items to prevent unforeseen glitches in the schedule. "For example," explained Berg Project Engineer Phil Brault, "we have meticulously reviewed submittals and coordinated intensely with **Keisker & Wiggle Architects**, lighting manufacturers and steel

fabricators to assure that mounting plates on the building align exactly with the lighting-pole attachment plates." In a sport where expert installation of lighting is vital for television production, Berg is utilizing its unparalleled base of knowledge to assure that sports-lighting fixtures are accurately aimed at the action. "Our previous experience in installing lighting for TV will prove invaluable in helping to ensure a reliable image," added General Foreman Dave Cruz.

POWER HITTERS: New High-Voltage System to Serve Sitewide

With an international sporting event such as the **BNP Paribas Open**, media coverage is as critical to sponsorship success as the star players themselves. Bergelectric is installing a new site-wide 12KV primary-utility metered distribution system and TV-production distribution system as part of the **Indian Wells Tennis Garden** expansion. Crews are also re-routing 4,000 feet of existing 12KV utility-owned (SCE) feeder to clear the way for construction of the new shade structure. According to Berg Superintendent Dan Chancellor, the move will make way for a new site-wide, high-voltage, 12KV primary-utility distribution system—including switchgear, transformers and substation, which will provide adequate power for both the new and existing facilities.

Additionally, Berg is providing raceways through which specialized **Society of Motion Picture & Television Engineers (SMPTE)** cable will be fed, which will extend from the new and existing stadiums back to "TV Land"—an area which houses all of the worldwide broadcast trailers and equipment—in order to provide quality, uninterrupted coverage. "One of the main ways we are approaching this very aggressive schedule is by utilizing our specially-trained and equipped underground-utilities crew who are installing all of the site-distribution system concurrently while the stadium is being built," stated Underground Crew Foreman Vince Musaraca.

ADVANTAGE CLIENT: Manpower, Organization and Technology Merge to Ace Schedule

In addition to having the capability to bring vast manpower resources to bear for impending longer work days and shifts, Berg's in-house experts are also positioned to help ace the project's delivery. "We have organized our electrical work in sections, so there are at least eight foremen in leadership roles that are simultaneously tackling large installation areas," said Superintendent Chancellor.

Many other Bergelectric professionals are contributing to keeping the complex project on track—from prefabricating massive quantities of kick-it widgets and utilizing pre-finished power and lighting devices to tapping into the expertise of Berg's in-house **National Technology Systems Group** to provide the design-build fire-alarm system. All are instrumental in enabling the **Indian Wells Tennis Garden** to be ready to break many more records when it hosts the next **BNP Paribas Open** in March 2014.



Acclaimed as one of the foremost tennis facilities in the world, **Indian Wells Tennis Garden** is now undergoing an \$82-million expansion, including a new 8,000-seat stadium, which must be completed in just 10.5 months in time for the 2014 **BNP Paribas Open** Tournament.



LAS VEGAS RISING

Berg Contributing to Resurrection of 106-acre Retail Development

When the US economy went into a tailspin one of the hardest hit communities was Las Vegas, NV. In the game of high-stakes development, timing couldn't have been worse for the 1.5-million-sf spectacular mixed-use retail complex at the master-planned community of Summerlin. Lying dormant for nearly five years, the steel skeleton that was once an eyesore is being resurrected as home to over 125 stores and restaurants—**The Shops at Summerlin**—in time for the 2014 holiday shopping season.

Now owned by **The Howard Hughes Corporation**, who took over the development, much of the once-vandalized steel structure is still able to be used in the redesign of the 106-acre site that includes an eight-story Class A office space above one of the 37 retail-related buildings being constructed by one of the nation's preeminent retail contractors—**VCC**. The mixed-use development, which will also offer entertainment and multi-family residences, will serve the affluent community of Summerlin as its long-awaited "vibrant, walkable downtown."

Divide and Conquer

"Prior to construction commencing, our Estimating Manager Nathan Goodrich collaborated closely with both **VCC** and **The Howard Hughes Corporation** for more than a year to help get a better handle on scope of work and costs on the \$215-million retail development," shared Bergelectric Project Manager Nathan Sawyer. With two 200,000-sf anchor stores and many of the shops already committed, the massive construction effort has gotten underway in earnest.

In order to tackle the Herculean tasks required to open on time, the project has been separated into huge blocks of work that each require substantial resources to achieve. Getting temporary power up and running, which was critical to being able to allow the 500+ person workforce now on-site daily to begin their efforts, became the challenge of Bergelectric.

Through intense meetings with service provider **Nevada Energy**, Sawyer was able to guide redesign of previously-vandalized temporary power into three sections and provide new details for the one-line drawing, which laid out relocation of the main power feed. "By repairing an existing 2000-amp switchgear as well as relocating conduit and installing a new 1000-amp switchgear where nearly one-third of the power for the project was going to be required, we were able to reduce our feeder run by 450 feet and ultimately save the client money," explained Bergelectric General Superintendent Mike McGowan.

Staying on Course

Deep in the subterranean level of four-story Parking Structure 2, one of two parking structures that fall under Berg's scope of work, is the location of the **Nevada Energy** power feed. Bergelectric detailer David Chin was instrumental in



*The Shops at Summerlin, a new \$215-million mixed-use retail complex currently under construction in Nevada, is owned by **The Howard Hughes Corporation** and expected to be open in time for the 2014 holiday shopping season.*

determining how the feeder conduit could be brought up from a 25-foot depth in the basement and successfully make the connection. The intricately-choreographed repair and re-routing work was all accomplished within an incredibly compressed 1½-month timeframe in order to meet the temporary power schedule and enable other trades to begin construction.

In addition, lighting and mechanical loads for the entire site—37 buildings plus two parking structures totaling eight stories—will be controlled by a state-of-the-art Electrical Management System (EMS) housed at a central location. Bergelectric crews have been working weekend shifts to install the fiber-optic cable loop, which will tie the whole development together and transmit to the EMS.

According to Bergelectric General Foreman Kenny Bryner, phasing, staging and immense coordination with all of the trades and general contractors on site will be key to achieving the overall schedule. In addition to the critical temporary power, Berg crews are responsible for approximately 75,000 feet of trenching to accommodate the 700 light poles and speakers throughout the 106-acre site.

Accommodating Growth

Summerlin is expected to double its population upon build-out over the next 30 years. The 100,000 residents who currently call Summerlin home will soon have a high-end place to shop, dine and be entertained and that is sure to attract other home-buyers to the development, which has been ranked as one of the country's best-selling master-planned communities.

Building on a Productive History in Orlando

Qualcomm and DPR Project Transcends Coasts

Just a year after the U.S. Telecommunications Industry Association changed the face of cell-phone usage by adopting CDMA as a cellular standard—an advanced digital wireless technology pioneered by **Qualcomm**—Bergelectric had its first opportunity to serve the communications giant. Today, with 75 completed projects together totaling over \$47 million in electrical construction, the two companies have chronicled dozens of successful collaborative construction efforts, primarily for **Qualcomm's** California operations—from time-critical tenant improvements to 475,000-sf, 10-story office and laboratory facilities.

Qualcomm conducts business globally through more than 200 offices worldwide and when the company required assistance on interior alterations at its Orlando location, it called on the expertise of general contractor **DPR Construction** to head the effort. Bergelectric's local presence and productive history with both **Qualcomm** and **DPR** was a perfect recipe for success on the endeavor.

Reflecting on the nearly 200 completed projects with this top-50 general contractor—delivering well over \$122 million in electrical installations—Berg Senior Vice President Alan Mashburn had this to say, "Our resources, consistency and stability have enabled us to help **DPR** deliver exactly what the customer wants and turn projects around on time. With our veteran personnel like Southeast Regional Manager Rob Ford and Preconstruction Manager Zach Frye leading the charge, we have been able to match those standards on the east coast."

Establishing the Comfort Zone: Early and Continuous Collaboration

In a design-assist role with **Farmer Architecture** and **Gast Engineering, Inc.**, Bergelectric was proving its mettle early in the 15,000-sf project by identifying long-lead items. "This was a very fast-track project—just two months to complete—so procurement of critical items such as lighting fixtures and switchgear was tracked and followed-up with on a daily basis to ensure delivery dates were being met," explained Bergelectric Project Manager Robert K. Vaughn. In addition to enhanced collaboration with **DPR Construction** and all other trades on the project through the secure on-line file sharing offered by **Box.Com**, the use of Berg's proprietary software **Berg Project Management** was essential to documenting and tracking critical submittals and RFIs.

Working on the second floor of an occupied building that was being "selectively demolished" to accommodate **Qualcomm's** relocation, minimizing noise and disruption was a crucial requirement. "Maintaining some of the existing infrastructure, while providing new lighting and occupancy sensor controls, enhanced power and additional switchgear and cable tray was accomplished through our work in shifts that began after hours," said Bergelectric Superintendent Jeff Ford.

Due to the quick turnaround required on the **Qualcomm** interior alterations, conference calls were a standard staple of the project's constant communication—from preconstruction right up until delivery to the end-users. "**DPR** and **Qualcomm** have been important clients in Bergelectric's history since the 1990s—we look forward to continued growth with both companies on this side of the country," noted Vice President William Sorber, who oversees both the Orlando and Austin regions.

HOSPITALITY REIGNS

Berg Continues Long Lineage of Hotel Projects with Industry Leader

Since 1979, **R.D. Olson Construction** has matured into one of the top 50 California general contractors and premier builder of hotel properties. Earlier this year founder Robert D. Olson was named as a "titan of the hotel sector" in the "Real Estate Forum's Top Hotel Industry Icons." Following in the same tradition just a decade ago, its sister company **R.D. Olson Development** delivered its first hospitality project—the **Residence Inn by Marriott John Wayne Airport** in Irvine, CA, a 174-suite hotel for which Bergelectric provided electrical installation.

R.D. Olson and Berg have enjoyed repeated success in the hospitality arena working together on more than a dozen major projects—from the **Renaissance Esmeralda** in the Coachella Valley Desert oasis of Indian Wells to the posh **8601 Wilshire** in Beverly Hills and the **Residence Inn by Marriott Long Beach** rising 11 stories above the harbor. All three companies continue to play a major role in the hospitality marketplace as they bring their collective expertise to current projects like the **Courtyard Marriott Irvine Spectrum** and the remodel of the **LAX Hilton Ballroom**.

Connectivity Plus—New \$50-Million Courtyard by Marriott Irvine Spectrum

Recently completing the **Courtyard by Marriott** in Oceanside with many of the same players from Berg and **R.D. Olson** is proving to be an added advantage at the Irvine Spectrum. "Our professionals, who have been involved since very early in the process, were able to lead the design effort with regard to value-engineering options, including recommending materials and innovative construction methods to make the **Courtyard by Marriott Irvine Spectrum** the most cost-effective while still maintaining the extraordinary Marriott standards," said Orange County Preconstruction Manager David Jacques.

For the \$50-million **Courtyard by Marriott Irvine Spectrum** currently being both developed and constructed by **R.D. Olson**, Bergelectric had an opportunity to collaborate once again with the hospitality leader during preconstruction that produced creative ways to reduce costs through re-design and value-engineering.



*This \$50-million **Courtyard by Marriott Irvine Spectrum** is currently being both developed and constructed by **R.D. Olson**.*

With a fast-tracked 11.5-month timeframe in which to deliver the 210-room complex, Bergelectric called on its prefabrication experts to help ensure the schedule will be met. "Preparing rough-in packages for lights and power in advance, which contain every item our field crew will need for each guest room, enables them to proceed along each of the eight floors in an uninterrupted work flow," noted Berg Project Manager David Extale.

Whether guests are lounging in a pool-side cabana, working in one of the semi-enclosed Media Pods, or plugging into their room's iPhone/iPod docking stations they can enjoy the tech-laden amenities being installed by Bergelectric throughout the 136,451-sf hotel. "In addition to the interactive **GoBoard™** displays that provide guests with news, weather, traffic and local restaurant information, which our crews are providing infrastructure for, other technology features such as convenience plugs, Wi-Fi, and flat-screen TVs with full connectivity are part of the latest **Gen Next** design being incorporated into the **Marriott Irvine Spectrum™**," added Berg Superintendent Robert Van Son.

Remodeling a Legend—LAX Hilton Ballroom

From dozens of service contracts to large-scale hotel development, Bergelectric values its exceptional working relationship with **R.D. Olson** whose business philosophy—quality, competitive pricing and on-time delivery—mirrors Berg's own. When hotel owner **Fortuna Enterprises** was seeking a contractor for renovations at its 1,234-room **Hilton at Los Angeles International Airport (LAX)**, it called on the services of **R.D. Olson**.

The **LAX Hilton's** 16,000-sf ballroom—the crown jewel of the hotel's immense 55,000 square feet of meeting space—is always in high demand. **R.D. Olson** chose to rely on the proven expertise of Bergelectric, under the guidance of Project Manager Scott Spiker, to install all of the lighting and controls in the huge space on an extremely aggressive two-month schedule.

"Although the owner provided the chandeliers, it was our job to see that the substantial fixtures were installed properly in the new ceiling," added Bergelectric Superintendent Robert Van Son. New LED lighting and state-of-the-art Lutron controls installed by Bergelectric field crews, overseen by Foreman Lionel Gonzales, further updated the space and provided greater flexibility in lighting. By using prefabrication of the ballroom's branch circuiting, Bergelectric crews were able to expedite installation and deliver the ballroom back to the Hilton in record time so the hotel giant can let its light shine on special events again for years to come.

A Bright Outlook in the Sunshine State

Rob Ford Named Regional Manager in Orlando



Rob Ford, Bergelectric Southeast Regional Manager

One valuable lesson the recent recession and housing-market collapse taught Floridians is that the state couldn't continue to remain primarily dependent on homebuilding to fuel economic growth. In an effort to diversify,

political leaders are pushing for a mix of industrial, technical and manufacturing jobs, which are being supported through a variety of tax incentives. These incentives, combined with other contributing fundamentals, have Florida businesses seeing sunnier skies ahead—all bolstered by news from media outlets such as the "Tampa Tribune" which reported that "once again a warm climate, low taxes and an air of opportunity combine to get folks moving here." And that's good news indeed for a new manager in Bergelectric's Southeast Regional Office located in Orlando.

Former Operations Manager Rob Ford, who brings 18 years of electrical industry experience to the table, was recently named Bergelectric's Southeast Regional Manager. "We have experienced success in this region, but ironically much of the work that has been performed by Berg's Orlando office since I joined the company seven years ago has been in other areas including the Carolinas, Texas and Georgia," Ford observed. We plan to capitalize on a promising economic outlook and focus on having a larger presence closer to home right here in Florida," he added.

Forecast: Healthy

"All indications in the region are that the construction sector is going to be seeing a steady increase through 2016," Ford stated. And the University of Central Florida's Institute for Economic Competitiveness supports Ford's prediction—projecting construction job growth of over 112% by 2016. Elaborating on his view of Bergelectric's future growth in the region, Ford explained that construction projects on the region's "watchlist" include new and expanded medical facilities, as well as airport expansions and sports stadiums.

"Rob himself has an extensive healthcare background and also really understands the big picture from a strategic standpoint with regard to what we're trying to achieve as a company," shared Bergelectric Vice President William Sorber, who oversees both the Orlando and Austin regions. With a resume that includes providing electrical installations for over \$60 million of electrical construction at regional medical centers, hospitals, surgical suites and other healthcare-related facilities throughout Florida, Ford brings keen insight to this growing market.

Valued Contributions

As a Florida native who lives in the same hometown where he attended high school—Dunnellon, Ford comes from a long line of electrical-industry professionals. Along with wife Mary and daughters Brittany and Lauren, he has always played an active role in the community, whether coaching girls' softball or volunteering at Habitat for Humanity. "Rob has been leader of our team when it comes to community involvement and he brings that same commitment and care when representing Berg to our clients," Sorber said. Senior Vice President Alan Mashburn reiterated Ford's valuable contributions to the Orlando Regional Office, "Rob has shown the leadership and the management skills Berg needs in the local marketplace and he will continue to enhance Bergelectric's involvement with our local general contractors and industry partners."

Charles Schwab Service Center Campus

\$155-Million Complex Reflects Economic Recovery in Colorado

A mere five years after an upstart financial services firm was founded in 1973, two enterprising professionals opened the company's first Colorado branch office in a downtown Denver loft. Today, **The Charles Schwab Corporation**—a globally-recognized name in brokerage, banking and investment services—is about to turn the page on the next chapter of vibrant history as it celebrates its 40th anniversary of business success and the construction of a new 500,000-sf service center complex in Lone Tree, CO.

Over the years, **Schwab** encountered steady growth that has resulted in 1,800 regional employees scattered throughout leased offices at three separate sites around the Denver metro area. In a desire to centralize staff, strengthen the **Schwab** presence, as well as to enhance both quality of life and a sense of community, the company chose **Fentress Architects** to design a consolidated campus featuring two five-story offices, a separate Amenities Building offering in-house dining facilities and a data center as well as a retail building to serve **Schwab** clients—all on a spectacular 40-acre site nestled along the Rocky Mountains.

From Community to Neighborhood: In Search of the "Colorado Experience"

Opportunities to discover the great outdoors among the many parks and trails and take advantage of the dedicated recreation and arts centers, as well as accessibility to shops and restaurants in a "walkable environment" were all attractive features that fulfilled **Schwab's** desire to create a uniquely Colorado lifestyle for its employees at the mixed-use community of RidgeGate. The financial-services giant will also make its own contribution to the 3,500-acre master-planned community's amenities with the development of an amphitheater to be utilized by both **Schwab** and its neighbors, which is being constructed by general contractor **Mortenson Construction** as part of the \$155-million expandable campus.

The region's strong economic recovery and robust employment market—which is performing well ahead of national averages—is also enabling **Schwab** to reap the benefits of Colorado's Job Growth Incentive Tax Credit as part of its consolidation move. Projecting that the company will create nearly 500 jobs during the next five years, **Schwab's** campus plans support future growth with the flexibility to add a third five-story office building.

With the complex planning required to relocate and consolidate so many staff and lease expirations looming, **Mortenson Construction** is counting on a proven team of contractors to expedite the aggressive 17-month schedule. The **Mortenson/Berg** team has a proven formula for delivering such challenging projects as the *Byron G. Rogers Federal Office Building*, on which several key staff assigned to the Schwab campus—including Bergelectric Project Manager Dennis Land and General Foreman Mike Mueller, as well as mission-critical field personnel—played key roles in its success. Local experienced professionals, coupled with Bergelectric's depth of national resources and additional field personnel from other regional offices upon whom the team can call if necessary, all help ensure that the aggressive schedule of the **Charles Schwab Service Center Campus**, which includes more than eight miles of conduit spread over 27 acres, will be met.

In-house Resources Committed to Move-in Readiness

In a design-assist role, Bergelectric is working closely with ME Engineering and Mortensen to supply Building Information Modeling (BIM) input under the guidance of Berg's Onsite Detailer Kent Bassett. "Up-to-the-minute construction drawings and details can be accessed by Bergelectric field foremen armed with iPads so that everyone is always on the same page with regard to any changes," Bassett noted.

According to Berg Project Engineer Kent Rinker, trend-log pricing scenarios were developed to evaluate various design options and drive the project toward the team's target-value design. "By proposing solutions, like recommending alternate light fixtures without sacrificing quality that made it possible to shave hundreds of thousands from the budget, we were able to produce positive impacts on both costs and installation efficiencies," Rinker estimated. Berg's in-house experts



Designed by **Fentress Architects**, the new **Charles Schwab Service Center campus** consolidates the company's Denver-area offices and features two new 5-story offices, a separate Amenities Building offering in-house dining facilities and a data center as well as a retail building to serve Schwab clients—all on a spectacular 40-acre site nestled along the Front Range of the Rocky Mountains in Lone Tree, CO.

were at work early in the design process providing preliminary cost estimates and determining dozens of other cost/time-saving opportunities including:

- Setting up an on-site prefabrication area and taking advantage of innovative prefab opportunities, which include some of the smaller electrical home runs;
- Changing from copper to aluminum feeders on key runs;
- Analyzing challenging site elevation change of over 60 feet and proposing more direct routing of both underground telecommunications and electrical distribution conduit, reducing the requirement by nearly 5,000 feet;
- Utilizing MC cable in lieu of EMT for final connection to branch power devices;
- Proposing a significantly lighter-weight elbows for underground conduit enabling the use of a more cost-effective material and efficient install;
- Using color-coded conduit fittings resulting in a more efficient and durable installation with easily identifiable conduits for future maintenance;
- Switching from fire alarm in full conduit to conduit stubbed up to accessible ceiling space;
- Facilitating change from two 3000A service switchgear to a 3000A and 1600A service switchgear that provides a more efficient method of power distribution;
- Switching from a fully-addressable to a zonal-addressable lighting-control system;
- Reducing the amount of furniture feeds in cubicles by nearly half through careful evaluation of cubicle electrical loads and methods of distribution; and
- Maintaining two layers of redundancy to power backup—generator and UPS/Battery—to ensure uninterrupted power supply at all times.

Tapping into Berg's national purchasing power and vendor relationships makes it possible for fixtures and switchgear to be ordered in advance and stored locally by vendors so materials are delivered at the precise time they are needed on the project site. "Whenever we can be proactive—whether it's quality control pre-inspections by our in-house QC Supervisor Ray Morales or utilizing our web-based system for submittals and tracking requests for information (RFIs)—we're helping to advance the schedule and adding value to the **Schwab** project," noted Berg Project Engineer Zac Stout.

"Local experienced professionals, coupled with Bergelectric's depth of national resources and additional field personnel all help ensure that the aggressive 17-month schedule of the Charles Schwab Service Center Campus will be met."



R O O M T O O G A R O U

New Raleigh-Durham Regional Offices Expanding Staff & Capabilities



When Bergelectric first opened an office in Raleigh eight years ago, the rather incognito space was tucked away in the midst of an office/warehouse complex. With well-established roots running deep among general contractors and suppliers in one of the fastest-growing metropolitan areas of the country,

Berg's new 12,000-sf facility on Mechanical Boulevard in Garner offers both spaciousness and modern amenities, providing lots of elbow room for continued growth. "Now when visitors arrive, they enter a stand-alone building that is distinctly Berg—from the backlit Bergelectric sign to the beautiful granite reception area," noted Office Manager Tarah Jones.

Closer to the Action

According to Raleigh-Durham Regional Manager Ray Murfello, Berg's move to a larger building accommodates the growth throughout the Carolinas and Virginia—in both manpower and capabilities—which the company has experienced over the past several years. "The location makes us more accessible to clients and enables us to conduct some operations in-house that previously had to be performed on site or in other offices," Murfello continued.

Going Full Circle with Full-Service

Over 4,500 square feet of warehouse space within the facility is being transformed into a prefabrication department and tool area. "Establishing a fully-functional prefabrication department to service area projects will be a huge benefit to the region," emphasized Senior Vice President Alan Mashburn.

While the new offices will provide ample meeting space to host clients, Bergelectric staff will also have an expansive area designated as a training center. According to Mashburn, a full-service office that includes detailing and estimating is part of the big-picture plan for growth throughout the region and purchasing the building solidifies Berg's presence and commitment in the eastern states. Centrally located near downtown Raleigh, the expanded offices will serve as a productive home for Bergelectric for years to come.

Meeting Long-term Healthcare Needs in State-of-the-art Facilities

Berg on Board with KBR to Deliver Fast-track Medical Center Expansion in NC

Established in the 1850s during the golden age of railroad in Alamance County, NC, the town that currently boasts a population of over 50,000 experienced a growth spurt at the turn of the century when a modest textile venture, which became known as Burlington Industries, began operations. Today, the thriving community of Burlington has broadened its employment base with economic engines such as *Laboratory Corporation of America*—a global leader in biomedical testing.

Founded upon the vision of being "chosen by the community for the provision of healthcare services due to...excellent service, modern facilities and equipment" **Alamance Regional Medical Center (ARMC)** opened its doors in 1995 to serve Burlington and the surrounding area of more than 150,000 residents. This quest for excellence became challenged as the medical center began treating 58,000 patients per year in the Emergency Department alone, taxing capacity and impacting patient flow.

Intensive Care: Meeting a Fast-track Schedule

General contractor **KBR** is leading the charge in delivering the **ARMC** Healthcare's largest expansion to date, which includes more than doubling the Emergency Department's size and renovating the existing hospital. Tackling \$30-million of improvement projects in two phases, Bergelectric crews worked overtime to deliver a 58,370-sf Phase 1 addition, which includes 15 more patient-care rooms to support the ER, as well as five larger operating rooms to accommodate future high-tech surgical equipment, such as overhead digital monitors and robotics—all in just nine months.



Bergelectric is efficiently addressing the accelerated schedule on the **Alamance Regional Medical Center** in Burlington, North Carolina, with its ability to quickly staff up, commit crews to six-day work weeks and tap into national resources such as detailing expertise in its regional offices.

of our Sacramento office," said Bergelectric Project Engineer Jordan Adem. Major contributors to achieving the scheduling feat were Berg foremen Andy Connolly and Ed Rongitsch, who have helped to establish priorities and dissect the intricacies of the medical center's diverse electrical systems being installed including how to best merge new and existing systems and relocate electrical panels to minimize shutdowns.

Regional Manager Ray Murfello knows he can count on Berg pros like General Foreman Ron Cayton to ensure that every detail of the myriad systems—from nurse-call and security rough-in to major electrical and fire-alarm—are precisely being carried out in the field. An added bonus, explained Murfello, is the previous experience at **ARMC** that General Foreman Mitch Coble brings to the table, which greatly enhances Bergelectric's ability to provide the design-build fire-alarm system for Phase 1 and Phase 2 that must be tied back into the existing system.

A 2020 Vision for Patient Care

In addition to a new Automatic Transfer Switch (ATS) installed by Berg crews as part of Phase 1, conduit stub-ups for the nurse-call system, electrical rooms and a mechanical area were also included. Phase 2 renovations of the 373,000-sf existing hospital will be focused on five operating rooms and 22 same-day surgery rooms, as well as 25 additional areas that address behavioral therapy, non-acute patient care and "fast-track" care that will better serve the medical needs of the community.

"Through the use BIM and a punchlist-management software known as FinishLine, our crews are able to sync field tasks in real time with technology, ensuring that every item is fulfilled within the tight schedule," noted Foreman Ed Rongitsch. Upon completion of the expansion and renovations, the **Alamance Regional Medical Center's** "mission-driven journey—to bring new healthcare capacity and...resources to Alamance County" will be achieved, which will enable a projected 70,000 ER patients to be treated annually by 2020.



General contractor **KBR** is leading the charge in delivering the \$30-million **Alamance Regional Medical Center** improvement project—the center's largest expansion to date.

SEVEN RIO



Berg Teamed with JE Dunn on New High-Rise Residential Towers



The Sixth Street District in Downtown Austin, TX—the vibrant entertainment hub that resulted in the city’s motto “Live Music Capital of the World”—may eventually get a run for its money with an adjoining trendy area known as West Sixth, which is aiming to provide a well-rounded urban high-rise living experience complete with shopping, restaurants, resort-like spas, art galleries and entertainment venues of its own. With post-recession employment on the rise in the central business district and occupancy rates at an unprecedented 97 percent, equity capital leaders **Behringer Harvard Multifamily REIT I, Inc.** and developer **CWS Capital Partners** teamed up to resurrect a 220-unit high-rise apartment tower, which had originally been planned as condominiums, right in the heart of the action.

Collaborations Help Maintain Budget from Concept to Award

General contractor **JE Dunn**—who is leading the project dubbed **Seven RIO**—tapped into Berg’s high-rise and local expertise early on during the conceptual budgeting phase. According to Bergelectric’s Texas Estimating Manager Louis Wyler, this provided an invaluable exchange of information and ideas between **JE Dunn** and Berg, allowing for timely budget updates that were in sync with the project’s progression. “We applied our experience with high-rise structures to methodically examine options for the electrical-distribution system—creating value analyses for the most cost-effective and efficient routing and electrical room locations throughout the tower,” Wyler explained.

Working with the design team of architect **RHODE PARTNERS** and electrical engineer **EN-Incorporated**, Bergelectric was also able to recommend various options and pricing components for light fixtures in both the parking structure and

apartment units of the \$39.7-million development. “Collaborating with local lighting and switchgear manufacturers and distributors was instrumental in helping us control costs on the **Seven RIO** project and contributed to our ability to maintain the budget from initial conceptual design all the way through to project award,” added Berg Project Manager Bobby Gibbs.

Zeroing in on Logistics

With a zero-lot-line site and urban location, logistics are a primary challenge for the 388,000-sf construction. In addition to busing crews to the job site, Berg is prefabricating many of the repeated elements and bringing materials to the site for “just-in-time” delivery to offset limited storage space. “Our crews’ use of ‘shark cages’ on each floor to have precisely the right materials on hand for each task not only helps solve our storage issues, it also contributes to a reduction in labor costs by being able to work more efficiently in the field,” noted General Foreman Mike Suggs.

Rising 24-stories into the Austin skyline, Bergelectric’s scope of work includes electrical infrastructure, fire-alarm system and raceways for telecommunications and data that will keep tenants of the 220 units plugged into the latest technologies. “Perhaps our biggest challenge on this tight site is the intense coordination required to ensure that we get all of our electrical installed in the decks prior to concrete being poured,” said Bergelectric General Superintendent George Leach. According to Leach, Berg’s use of the *Trimble Total Station* to target rough-in locations for conduit and feeder conduit with pin-point accuracy in the decks plays a huge role in the contractor’s ability to proceed with confidence. Once completed in 2014, **Seven RIO** will become a beacon to the up-and-coming West Sixth Street District and a shining star supporting both the growing jobs and population in Austin’s downtown.

“General contractor JE Dunn—who is leading the 24-story Seven RIO project—tapped into Berg’s proven high-rise and local expertise early on during the conceptual budgeting phase.”



Poised for Continued Growth

New Regional Manager Craig LoValvo at the Helm in Austin

“Stable and steady as she goes” is how economists of Moody’s Analytics describes the Texas marketplace. Having recovered more quickly than the rest of the US from the recent recession, this region continues to surpass the nation in terms of both economic and job growth. Well before other markets saw healthy signs reflected in increased employment,

Texas had replaced all jobs lost in the recession and then some—adding over 500,000 additional jobs.

Guiding Bergelectric’s own expansion in the region is new Austin Regional Manager Craig LoValvo, who came to Berg as a preconstruction manager with 19 years of experience in the electrical-contracting industry. After serving our country in the US Marine Corps, LoValvo entered the electrical apprenticeship program and quickly rose to management positions. He and wife Danielle, along with four-year-old Ryan and teenager CJ, make their home on 20 acres that LoValvo has dubbed his “mini-ranch” in nearby Blanco. Embracing the small-town atmosphere, the family of four enjoys all that the community of 1,200 has to offer—from travel baseball to fishing.

Mirror Match for Berg

As a former chief estimator, LoValvo gained valuable understanding of the nuances of the marketplace, building relationships with manufacturers and vendors,

developing creative cost-effective construction alternatives and delivering accurate estimates that stand the test of time. Regarding his current staff of approximately 300 electricians and nearly 20 office personnel, LoValvo said, “We have a great preconstruction staff under Texas Estimating Manager Louis Wyler; experienced, dedicated project managers; and we have brought in additional talented superintendents to organize and oversee Berg’s rapidly-growing field staff who are serving on some of the state’s most exciting projects including the 1.2-million-square-foot *JW Marriott*, the \$350-million *Fairmont Hotel* and a newly-procured project at the Austin International Airport.”

Over the past five years, LoValvo’s experience has mirrored major growth markets in which Bergelectric is active—utility-sized (200 megawatt) solar installations, *Department of Defense (DOD)* design-build and major criminal-justice facilities. When reflecting on LoValvo’s leadership and contributions to the Texas region, Bergelectric Senior Vice President Alan Mashburn observed, “It takes maturity to maintain a sharp focus on the type of organic growth we have planned in Texas. Craig is a true leader who will continue to establish Bergelectric in the marketplace with our clients, owners and community as our staff grows—ensuring that we continue to have a rock-solid base from which to build.”

Plans for an Electrifying Future

When asked about future plans for Bergelectric in the Lone Star State, LoValvo noted that the immediate focus will be on expanding the footprint of the Austin operations, from the work currently being performed in the Austin/San Antonio corridor, into Houston and Dallas. According to LoValvo, Berg will build upon strategic partnerships with general contractors and establish a local presence in those marketplaces. While Moody’s projects that the Houston and Dallas-Fort Worth areas “will remain among the country’s top employment centers,” under LoValvo’s guidance Berg’s Texas region will certainly continue to grow and thrive.



Bergelectric is currently completing electrical installations for nearly 20 million square feet of residential and mixed-use projects in Seattle—including “Rivet” at 1201 Mercer Street with general contractor **Holland Partner Group**.

Urban Residential Boom Opens Doors in the Emerald City

Northwest Region Celebrates New Seattle Operations Office

According to the Wall Street Journal, Seattle’s recent “manufacturing gains have helped turbo-charge” the local economy, which is reflected in a sunny employment picture unmatched by the rest of the nation. Coupled with the Emerald City ranking 14th in the US for the largest 2011-2012 population growth, it’s no wonder Seattle’s pent-up housing demand is being fulfilled in an epic way. With young adults’ preference for urban living, the number of apartments recently under construction in the city approached 8,400 units and Bergelectric is right in the midst of the action in trendy downtown Seattle neighborhoods like Ballard.

At the forefront of this urban residential boom are general contractors **Holland Partner Group**, **Andersen Construction**, **Exxel Pacific** and **PCL** with whom Berg has forged strong relationships in the Seattle marketplace, laying the groundwork for the establishment of a Seattle Operations Office under the leadership of Operations Manager Rick Hopkins. “We made inroads in the Seattle area by following some of our existing clients here, such as Holland Development whose success in the high-rise apartment market provides a firm anchor for the establishment of a permanent presence,” stated Bergelectric Northwest Regional Manager John Nason. “It’s exciting in that the market here is very similar to what we are experiencing in Portland, so it is really in sync with our areas of expertise—and there are a lot interesting clients and a great workforce in Seattle,” Nason added.

Controlled Methodical Growth Expands Horizons

“We had a great relationship working together in Oregon with Vancouver-based **Holland Partner Group**, who was very instrumental in getting us to the Seattle market,” Hopkins also noted. When asked his own vision for Bergelectric’s future, Hopkins shared, “Our plans for the Seattle market are to take care of the general contractors that brought us to the area and then expand at a controllable rate making sure we can give our customers a higher level of service than they are typically used to.” In navigating the exponential rate of development in the Pacific Northwest, Hopkins will have the valuable advantage of Berg’s expertise in the controlled methodical growth that has enabled the company to expand throughout the nation organically—from the ground up through doing the best job possible and building on that success.

Berg’s role in the construction of nearly 80 stories of mixed-use development that encompasses over 1,600 apartment units is a sizable involvement in the current housing boom, which is helping feed a voracious demand. However, Nason is also looking to Hopkins’ 33 years of highly-diverse experience on both small and large-scale projects—from high-rise and high-tech to higher education, hospitals, retail, stadiums and recreational facilities—to support the pursuit of other growth areas in the marketplace.



True North Apartments, Seattle, WA



Broadstone Capitol Hill Apartments, Seattle, WA

Project	General Contractor	No. of Stories	No. of Units	Mixed Use	Square Footage
Ballard Tallman	Exxel Pacific	7	303	✓	320,000
Ballard West	Andersen Construction	6	111	✓	121,218
Broadstone Capitol Hill	Exxel Pacific	8	248		291,000
Seneca Towers	PCL	32	335		451,000
“True North” – 801 Dexter Avenue	Holland Partner Group	7	286	✓	320,207
“Rivet” – 1201 Mercer	Holland Partner Group	7	131		163,205
West Seattle Junction	Andersen Construction	12	203	✓	290,846
Totals		79	1,617		1,957,476

People Power: Recipe for Success

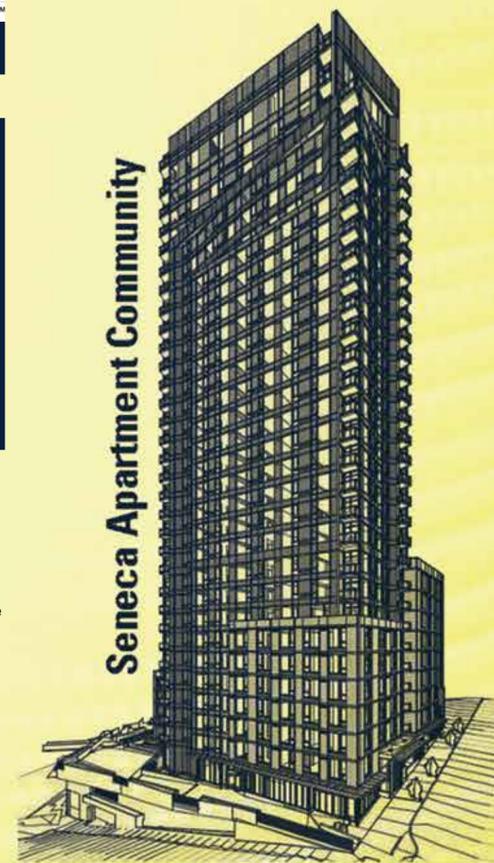
An essential ingredient in Berg’s recipe for success and long-term staying power is management support in the Seattle Operations Office. Hopkins recognizes that although Berg is a large company, the staff’s one-on-one relationships, personal touch, buy-in and involvement of the entire construction team, as well as caring about the success of each and every employee, all contribute to Berg’s ability to better serve its clients. These attributes are epitomized in Berg office administrator Kelly Pope whose “attention to detail and commendable work ethic made her the perfect choice to help run the Seattle Operations office.” Nason also emphasizes the critical importance of having trained supervisors like seasoned Project Manager Scott Jennings and Superintendent Darren Olson, who bring their combined years of experience to the table, to manage the efforts of the talented workforce available in Seattle.

As Bergelectric’s entrance into the Seattle market continues to be so well received, Hopkins is pursuing additional ways to get involved with the local community and make a positive contribution. “We feel strongly about our impact on the community, not only since we plan to be here for a very long time but because we know how important it is to give back in the place where we live, work and play,” Hopkins added.



“Our plans for the Seattle market are to take care of the general contractors that brought us to the area and then expand at a controllable rate making sure we can give our customers a higher level of service than they are typically used to.”

Rick Hopkins, Bergelectric Seattle Operations Manager



REPORT

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A message from the president/CEO



Tom Anderson
President/CEO
Bergelectric Corp.

BERG MISSION: Serve Clients and Employees with Exceptional Dedication

With positive signs of recovery throughout our regions and remarkable sales so far this year, we have been proactively planning for the future with a major companywide strategic-planning effort.

Recently a diverse team of Bergelectric managers came together to develop a five-year plan that will create structure and enhance our efforts to “be the premier national electrical contractor with national resources and local presence, serving our clients and employees with exceptional dedication.”

Highlights include our plans to:

- Grow with sales reaching record levels in five years;
- Expand our geographic footprint with several new regional offices;
- Focus on market sectors in which we are leading experts including healthcare, justice, hospitality, manufacturing, commercial and multifamily; selectively pursue new sectors such as transmission and distribution; and enhance existing efforts on solar/alternative energy;
- Continue privately-held ownership structure with more employee shareholders;
- Increase focus on competitive advantages such as national buying power, national account management, mobile workforce and operational excellence;
- Capitalize on strengths like complex projects expertise, technical abilities and innovation, exceptional safety record and financial stability; and
- Study structure of major services including systems technology design and construction, wireless, electrical contracting and service/maintenance.

Major Plan Progress—National Technology Systems Group

We have already begun to make progress on several of the goals within the new strategic plan including the groundbreaking creation of Bergelectric’s **National Technology Systems Group (NTSG)**—the subject of this issue’s feature article. This innovative move consolidates all of our existing low-voltage divisions under one management umbrella to simplify the integration of complex systems and add value for our clients, while truly differentiating Berg from the traditionally fragmented electrical and systems components. Some distinct advantages of the newly-formed group are:

- Unified approach which allows the electrical division and the NTSG to work in concert to guarantee all critical milestones are achieved;
- Highly-collaborative environment that encourages a dynamic exchange of ideas and resources among field crews, in-house professionals and divisions;
- Enhanced capabilities to procure and perform prime technology-systems projects;
- Ability to draw on our own resources as one of the nation’s largest electrical contractors;
- The highest level of service from certified technicians who are up-to-date with the latest industry standards and practices;
- Confidence that low-voltage systems will come online when needed, ultimately giving Berg more control over the final outcome of a project; and
- One estimating manager overseeing NTSG which translates to a more consistent product and coordinated effort that are aligned with the rest of Berg’s services and project types.

My thanks to our clients and the dedicated Bergelectric employees across the country who contribute so much every day to helping us become the nation’s premier electrical contractor.

Thomas R. Anderson, President/Chief Executive Officer, Bergelectric Corp.