



john burns
construction company



THE UNDERGROUND

Newsletter

2016

In this Issue

PBC Fiber Extension

CTA Bus Garage Renovation

ITS and Roadway Lighting

iDAS & Small Cell

Data Center

Metra Substation Conversion

JBCC Message

John Burns Construction Company has been providing excellence in building construction for over **110 years**. Our commitment to **safety, quality, integrity, and customer service** in every project built has been our guiding principle. We continue to grow our construction services for our core business customers as well as expand our services to new clients in both private commercial industries and the public sector. We remain leaders in our industry through continuous field and staff training in addition to anticipating our client's needs as the market changes.

Our dedicated team has a vast amount of experience that allows us to effectively provide solutions to the ever changing, fast paced market. I am grateful to all our customers, employees and vendors who have afforded us much success this past year and into the future!

Bill O'Malley – Chief Executive Officer



Core Values of JBCC

Safety ♦ ***Quality*** ♦ ***Integrity*** ♦ ***Customer Service***

JBCC Spotlight: Substations

Upgrading *utility* substations is critical in today's world in order to meet the increased technical demands. Substations take power from high voltage transmission lines and lower the voltage level so it can be sent in multiple directions to homes or businesses via smaller distribution lines to eliminate outages and equipment failure.

Upgrades to *transit* substations are needed to increase traction power capacity, to support train operations during construction, and the increased train frequency anticipated in the core capacity service plan. Substations take power from medium voltage distribution lines (12600KV) and convert to traction power DC secondary voltage to propel trains.

John Burns Construction Company has the expertise and experience in upgrading and building both transit and utility substations for our customers. JBCC recently completed CTA's *Your New Blue Line* project which consisted of inspection of traction power manholes, rod/rope of existing conduits for HNTB, and 30% design for the new signal and traction power substation upgrades from Jefferson Park to O'Hare.

As a result of CTA's projected growth in the next five years, JBCC has recently acquired individuals that are experienced in CTA traction power substations, train control, and communications to help build and upgrade the transportation industry. JBCC is currently working on a new substation for Metra and is looking forward to procuring substation projects with Exelon Corporation as a "Contractor of Choice."



Save the Dates....



JBCC Sporting Clay Shoot @ Max McGraw
1st annual JBCC Sporting Clay Shoot at Max McGraw to benefit the **From Tragedy to Triumph Foundation**, www.ftttf.org, which provides emotional and financial support to burn survivors and their family.



Convoy of Hope @ Marquette Park
Join JBCC and other volunteers to help www.convoyofhope.org give out free groceries, health and dental screenings, haircuts, family portraits, meals and hope to the community.

Project Highlights

PBC Underground Low Voltage Services



John Burns Construction Company provided an array of construction services for the Chicago Public Building Commission (PBC) in extending fiber lines along the north side of the Chicago Lakefront. JBCC extended the existing fiber optic cables located at Fullerton and Lake Shore Drive to Addison and Lake Shore Drive.

The path included using a mix of existing Chicago Park District duct and new duct placed with directional boring. Additionally, fiber and power were run from the main back bone to future camera locations.

At both Fullerton and Addison, exterior cabinets were installed that house the fiber splices and terminations. JBCC used their vast experience in working with utility companies to successfully manage and coordinate with ComEd lines, water, sewer, and the Chicago Park District System. JBCC successfully managed the high level of pedestrian and vehicular traffic along the lakefront to ensure the safety of all.



CTA 77th Street Bus Garage

John Burns Construction Company is the general contractor for the CTA to replace select bus pits at the 77th Street Bus Garage #6. This project entails excavating and constructing new concrete pits along with installing the required electrical components.

The project highlights include demolishing existing pits and accessories as well as process piping, HVAC, and electrical and underground plumbing. The refurbished concrete pits will have new process piping installed with compressed air, cold water, automatic transmission fluid, rear end grease, motor oil, gear lube, and antifreeze for bus operation maintenance. Electrical components including all new pit lighting and receptacles will be installed. Cast iron underground pit drainage with lead and oakum joints will be constructed. The HVAC will be installed and it will consist of a cutting-edge BlueDuct underground pit ventilation system. This project valued at \$3 million is anticipated to be completed by July, 2016.



Project Highlights

Tollway Roadway Lighting and ITS Duct Package

John Burns Construction Company is scheduled to complete the installation of ITS (Intelligent Transportation System) conduit and lighting for the Illinois State Toll Highway Authority on the Jane Adams Tollway (I-90) from Mannheim Road to I-294 in the winter of 2016. JBCC successfully installed over 140,000 feet of ITS conduit along the tollway. The JBCC Infrastructure Division managed and self-performed the installation of over 15 miles of electric cable and over 90 light poles. Using their expertise, JBCC constructed 2 underpass lighting systems consisting of over 300 light fixtures. JBCC also installed over 3,000 feet of PVC coated conduit underneath the Jane Adams Tollway.



IDAS and Interior Small Cell Installation

JBCC is currently installing a Hybrid IDAS system for a neutral host carrier (ExteNet) in the City of Chicago. The in-building wireless network, when completed, will provide integrated carrier-class mobile distribution supporting the 2G, 3G, 4G and 4G LTE services throughout the 38 story 770,000 sq. ft. facility.

Project highlights include installing approximately 15,480' of 2" EMT on 26 floors (occupied and unoccupied) for IDAS system. Ceiling hatches are installed where necessary.

JBCC installing approximately 16,500' Heliac cable on 26 floors to BDA (Bi-directional amplifiers) located in hubs on even floors.

JBCC is installing PPC one shot connectors on all cable ends at combiner, splitter, tapper, and antenna locations. Antennas are being mounted in various types of ceilings (spline, drywall, acoustical, exposed). JBCC performs PIM/Sweep testing and certification.



JBCC Vision

JBCC will be regarded as the safest and highest quality contractor as rated by our customers, vendors, and employees in all the services we provide.

JBCC Mission

Since 1906, a contractor committed to safety, quality, integrity, and customer service in every project built!

Project Highlights

ZAYO Data Center

JBCC is scheduled to complete the building of a new backbone for the Zayo Group's Data Center in Chicago in October, 2016 in the heart of Chinatown. The new backbone will connect to two of Zayo Group's existing backbones at Clark Street / Cermak Road and Western Avenue / 36th Street and will have a single lateral to 2800 South Ashland Avenue. The JBCC scope of work includes an underground construction trench of 2,000 LF for the installation of 4" conduit with (3) – 1.25" innerducts encased in 12" of concrete. The trench included a stretch along Archer Ave between Canal St. and Cermak Road in which CDOT set up a detour for a 3 week period. JBCC completed the 1,120 LF trench, saw cut and removed and replaced the 21,104 sq. ft. of concrete within this 3 week timeframe to open the roads back up to the public.



The four additional areas of underground construction trench were completed by JBCC which included over 52,000 sq. ft. of asphalt restoration, 3 manholes installation, and four ADA compliant ramps. Upon completion of all underground conduit installations, over 21,000 LF of fiber will be pulled.



Metra - Traction Power Substation Conversion



John Burns Construction Company is scheduled to convert Metra’s 51st Street Tie Station into a Traction Power Substation by end of September 2016. This Traction Power Substation will convert Alternating Current (AC) power provided by the local utilities into Direct Current (DC) power utilizing the process known as rectification. The DC power will be used on Metra’s Electric Line.

JBCC is building this substation from the ground up and will integrate into the existing Tie Station on site. The Traction Power Substation equipment is now housed in a pre-packaged substation enclosure. The equipment includes AC switchgear, rectifier transformers, DC switchgear, bus ducts, SCADA, distribution panels, and several auxiliary systems. JBCC recently completed the underground casing bore for a duct bank to connect two precast concrete manholes that were set.

The subsurface work JBCC self-performed included excavation, temporary shoring, reinforced cast-in-place concrete foundations, manholes, and concrete duct banks.

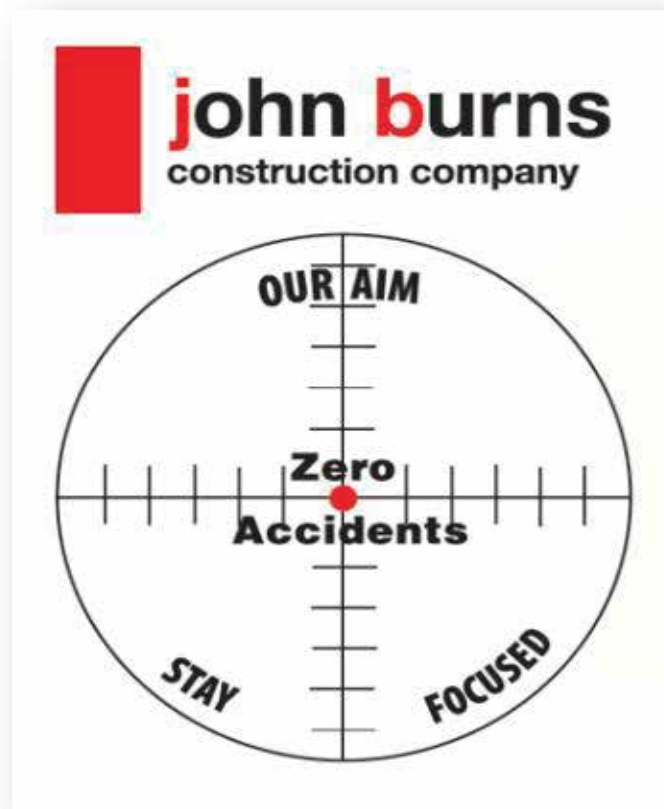


JBCC Safety

The 2016 John Burns Construction Company's safety theme is "**Our Aim, Zero Accidents**". At first glance this seems like an overly ambitious goal. The construction industry can be very dangerous and the U.S. Department of Labor reports that over one million construction workers are injured in the workplace every year. However, when you research the root causes of these accidents it becomes clear that unsafe behavior is the determining factor in almost 90% of all accidents. This statistic shows that we do have a great deal of control when it comes to preventing accidents. At JBCC, safety is a personal commitment that we each make to ourselves, teammates, and families every day. Choose to work the right way, avoid short cuts and remember you should never have to tolerate unsafe job site conditions.

At JBCC we approach our safety goal as a total team effort. Planning and communication across our company is what makes our Safety Program successful. Our safety planning begins for each project during our pre-construction meetings. At this stage of project planning we determine the biggest hazards associated with the job and determine the equipment needed to safely accomplish the work. Next, JBCC's Labor Leaders assign a team to the project that is experienced and trained in the hazards associated with the job tasks. Finally, JBCC Field Foreman are responsible for holding **daily job briefs** prior to beginning work each day, making sure to address the potential dangers they are facing and communicating their plan to work safely to the rest of the crew.

Increasing our safety knowledge through training is the key to making "Zero Accidents" a reality. In 2016, we will continue to pursue new avenues to improve our Safety Program and be a leader in the industry while pursuing our goal of zero accidents.



Philanthropy



JBCC sponsored the **Out of the Darkness Community Walk in Chicago** for the *American Foundation of Suicide Prevention*. The John Burns Team joined thousands along the Chicago Lakefront on a beautiful Saturday morning in September to help spread awareness of mental illness. Thank you to those who supported our team! We look forward to sponsoring this worthy event again **October 15, 2016**. Check out our page for more information at www.ChicagoWalk.org.



JBCC employees and families participated in the annual **Plane Pull Competition** at O'Hare International Airport to support *Special Olympics of Illinois* last fall.





17601 Southwest Highway
Orland Park, Illinois 60467



ILLINOIS HEADQUARTERS

17601 Southwest Highway
Orland Park, IL 60467
Main # 708-326-3500 - Fax # 708-326-3599

LOCAL CONTACTS:

Bill O'Malley, *Chief Executive Officer*
Scott Becker, *President/Chief Operating Officer*
Andrew Carnegie, *Vice President*



TEXAS HEADQUARTERS

655 East Main Street
P.O. Box 1117
Lewisville, TX 75057
Main # 972-434-6789 - Fax # 972-221-8301