

CITY BEAUTIFUL NETS A NEW STADIUM

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Orlando City Soccer Club completed its new \$155 million stadium in March which will be the home of the Orlando City Soccer Club Lions, the Orlando Pride and the Orlando City B team.

With the bump from the United Soccer League to Major League Soccer, Orlando City Soccer Club needed a new stadium and Barton Malow Company was selected as their contractor of choice to build it. The 425,000 square foot stadium is located in the heart of Downtown Orlando and features an open design with a playing pitch below the city's ground floor.

The new stadium has a capacity of approximately 25,500 seats and includes a canopy that covers every seat to enhance crowd noise and provide shelter from sun/rain. The design also includes 31 suites, one of which, a 90-person "super suite" as well as a 59-person group suite. Additionally, an 8,400 square-foot indoor Club in the west stand; a 10,000 square-foot open air Supporter's Terrace; and a 360-degree concourse with additional concessions and fan amenities for a premier fan experience. The all-natural grass playing surface is eight feet below ground level to offer spectacular views from street level.

Over the duration of the project required 4,800 tons of steel and 1,000 tons of rebar - equal to more than 25 Statues of Liberty and 20,000 cubic yards of concrete - enough to fill six Olympic-sized swimming pools.

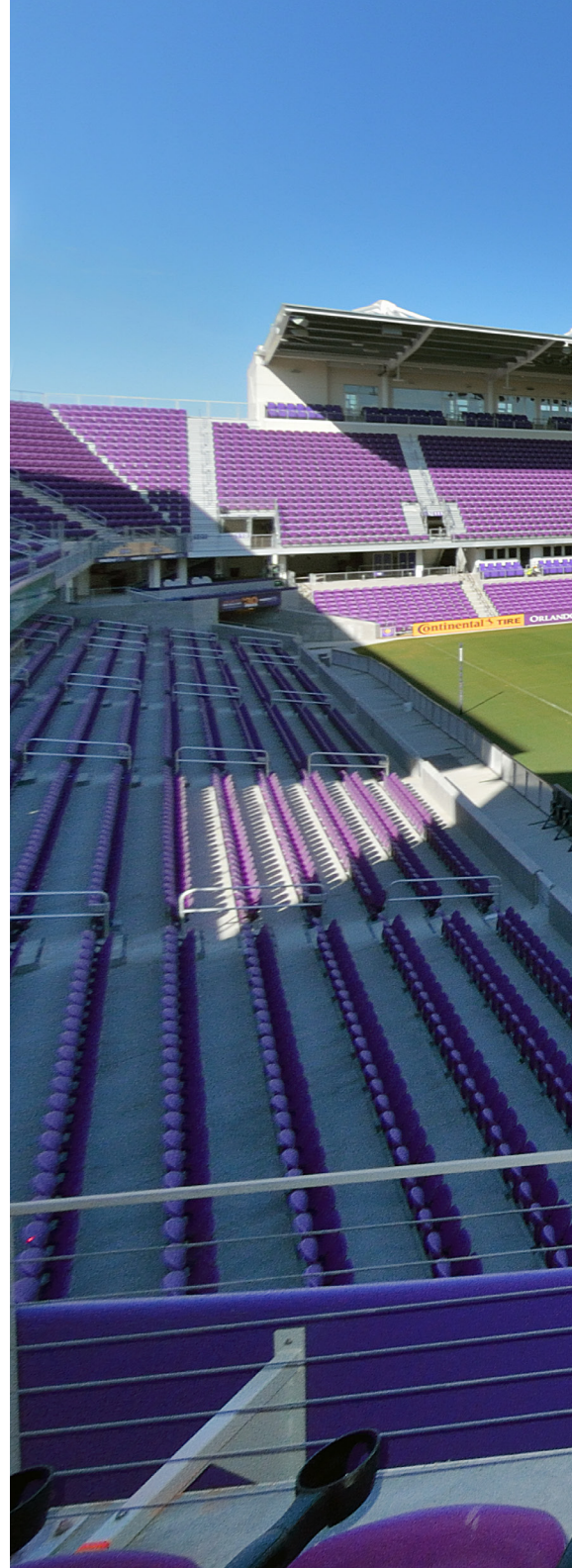
The first game in the new stadium was scheduled less than a year after erecting the first piece of steel, creating many challenges for Barton Malow Company and all others involved. Building information modeling, and over communication to ensure meeting expectations with buyers and partnerships were key in overcoming the time crunch faced.

A small work site was another challenge to overcome. Ensuring

deliveries were on time was essential and detailed logistics and planning were critical. In addition, it was important for Barton Malow to engage local (and MWBE) subcontractors as much as possible, and through the relationships they had created over the years as well as the partnership with Votum and JCB Construction, they were able to successfully staff the project. Barton Malow also used national resources and relationships to engage sports and specialty contractors.

Knowing the deadline of the project was under a year, Barton Malow put in 1,072,626 man hours before the first game; over 700 workers at peak times. With a fast-tracked schedule, sequencing of the work had to be flawless. A huge part of the project's success was setting expectations early and making sure the subcontractors knew that the stadium was being built per the coordinated virtual model so to ensure minimized errors. Managing material lead times was also impactful - looking ahead was a must and part of the success. Communication with the owner, ensuring expectation and requirements were met, and prioritizing was also key to meet the opening day goal.

The new stadium is unique from the old Camping World Stadium and other stadiums across the country. The stadium is home to the first-ever safe standing section in North America. A 3,800-capacity section with a steep rake, around 33 degrees, to keep fans close to the action. A rail between each 24-inch row eliminates any possibility of crushing, while offering an anchor for a much-needed cup holder. Another unique feature is the field is lower than the concourse. The need to have three giant vaults that can hold up to 9,000+ gallons (21,000 soccer balls) and 5in/hr. of water. Unusually for Florida, where the water table is very high, the field being eight feet below ground level, is designed to enhance the amphitheater aspect. All four main stands are designed



with metal deck canopy roofs that will also enhance and amplify the noise of the fans beneath them. The stadium is also tech savvy - boasting 583 wireless access points to ensure free WiFi is available throughout the stands and every concourse. Small, gray panels attached to the handrails are the wireless points.

Following the Pulse nightclub tragedy in June 2016, City pledged to install 49 rainbow-colored seats as a memorial to the 49 fatalities from America's worst mass shooting incident. Those seats can



be found in the lower level of the West Stand in six rows.

Over the course of approximately seven months, and \$1.2 million, Spectra Flooring also had their fair share of challenges with the new stadium, along with installing many items to add beautiful detail and dimension to the inside, including Italian porcelain floor and wall tiles.

For starters, designer porcelain wall tile, 5' x 10' panels, cut into various sizes with glass tile for pattern, were installed

in the home team showers. "Now that's saying a lot!" says Spectra Account Manager, Jonathan Vice. In addition to the lavish showers, custom broadloom carpet with border and metal cove base were installed for the home team locker room, and carpet tiles from several manufacturers made specifically for this project, were installed for suites, offices, and other areas of the stadium. Resilient carpet with amazing pattern designs were installed for the team offices and durable rubber tiles were used for all

other locker rooms, built to handle the needed wear and tear. Bio-based resilient flooring was used in a lot of the back of house areas, and quite a few products were 'green' or contributed in some way to LEED requirements.

Like a lot of the companies involved with this project, Spectra Flooring's biggest challenge was a demanding schedule. "We had multiple ceramic, carpet and resilient crews working multiple shifts, pretty much all the time."

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said Vice. Logistical challenges played a part due to the job being downtown, providing little space for parking, equipment, etc. "Material Management was also a challenge" says Vice, "due to not only the overall size of the project, but the fact that we had to store our materials offsite and bring them in as needed." Multiple trades were working

club offices, access to back of house operations, and cash rooms. Part of this system is a badging station used to deliver and alter credentials to the access points and three client work stations.

The Video Management Systems (VMS) consisted of 52 IP High Resolution Mega-Pixel cameras placed throughout the facility, ensuring every part of the stadium could be seen at all times.



within the same space, and in turn, the replacement of numerous areas due to the damage from other trades over the course of the project, made for a time consuming process for Spectra Flooring.

BCI Integrated Solutions was very excited to be a part of the new Orlando City Soccer Stadium. BCI worked directly with the Barton Malow Company and the owner, to install the access control system and video management system. BCI specifically worked directly with the owner to install the suite ticketing readers and the MLS required replay camera system for replays viewed from the MLS offices.

The access control system consisted of 24 secured doors throughout the stadium including the suite level areas, select entrances into the stadium,

Because of the high mega-pixel cameras, the VMS operator can focus on a specific point in the video while the entire capture area is still being recorded, ensuring that nothing is missed. The operator can also send parts of the video to security staff through their mobile devices, allowing an altercation to be dealt with quickly and with minimal disruption. The VMS stores large amounts of data, allowing the user to access footage both in real-time and post event.

BCI did face some scheduling challenges and strict deadlines and worked efficiently and diligently to keep the project on time and on budget. BCI ensured that the security solutions were ready for the regular season and that the staff was properly trained on the system. ■



CFC ABC Member Companies Involved with the project:

Architectural Glass Services, Inc.
Barton Malow Company
BCI Integrated Solutions
Brightview Landscape Development, Inc.
Cornerstone Construction Services, Inc.
Empire Office, Inc.
JCB Construction, Inc.
Pacesetter Personnel Services
Southern Acoustics, Inc.
Spectra Contract Flooring
Speedy Concrete Cutting of Central Florida
Tri-City Electrical Contractors, Inc.



Central Florida Chapter

EVENT CALENDAR

May 9

Builders' Breakfast

May 11

BBQ Competition, *Grace Church*

May 15

Deadline for Excellence in Construction Awards & STEP

May 18

Design & Building Industry Mixer, *Ember*

June 8

Silver Summer Nights/ABC After Hours, *Ferg's Depot*

EDUCATION CALENDAR

May 15

Basic Blueprint Reading Begins

May 16

Business Development for Construction Professionals

May 23

Managing Your Risk - A Top Ten List Of How Best to Avoid Spending Time (and Money) with Lawyers

May 24

CPR & First Aid Certification

May 25

Lien Law

OSHA 10-hr. and 30-hr. online courses available.

OSHA Online: abccflosa.com

Computer training courses available online or instructor led.

Visit abccentralflorida.com for more information, events and course schedules.

Unless otherwise noted, events and classes are held at CFC ABC office.