WHILE MANY SEE TECHNOLOGY AS A PLUG-AND-PLAY SOLUTION, O’NEAL TAKES A DIFFERENT APPROACH TO THE LATEST INNOVATIONS. INSTEAD OF A ONE-SIZE-FITS-ALL PHILOSOPHY THAT REPLACES PEOPLE WITH TECHNOLOGY ALONE, WE’RE INTEGRATING OUR TEAM’S INVALUABLE DESIGN AND CONSTRUCTION EXPERIENCE WITH LEADING SOFTWARE AND PROCESSES TO DELIVER EXCEPTIONAL RESULTS FOR OUR CLIENTS.

As delivery methods evolve to give stakeholders greater project definition up front, it’s more critical than ever to stay ahead of the curve and implement the best solutions available at every level — for design, preconstruction, procurement and construction. By combining our team’s knowledge with the most powerful tools at our disposal, O’Neal can provide more accurate scope definition and cost estimates than the competition, keeping clients informed and every element of the project on target.

LASER SCANNING

For existing facilities, O’Neal utilizes 3D laser scanning tools to capture very detailed geometric information about a facility’s existing conditions. “The scans allow our designers to accurately and rapidly create a model that represents existing conditions,” said Dave McGuire, O’Neal’s Vice President of Design. “The scanner outputs a point cloud image that accurately replicates the scanned objects, and the models can be pulled into any CAD platform.”

The point cloud-based as-built drawings and 3D models can improve design by analyzing clashes between newly designed elements and existing conditions. The models also help in evaluating alternative designs during the planning phase prior to construction.

PRECONSTRUCTION AND DESIGN

On the front end, O’Neal is leveraging the power of technology in a truly unique way. Our experts use an advanced site/project assessment tool, in collaboration with clients to create detailed 3D models, providing instant feedback regarding location, cost, layout, energy, lifecycle, cut and fill, and scope.

With this macro BIM tool, O’Neal helps the owners and project team visualize and analyze the project to make informed decisions quickly. During this flexible interaction, more options
can be considered in less time. O’Neal is customizing this technology for complex industrial projects combining industry cost information with our own historical costs, giving clients a more accurate project estimate earlier than ever before.

“O’Neal is placing a continued focus on technologies that streamline and improve the preconstruction, design, procurement and construction process,” said McGuire. “These investments are helping us develop project scope and definition as quickly and cost-effectively as possible.”

O’Neal’s approach to technology allows our preconstruction, design, procurement and construction experts to effectively collaborate at the onset of project development. This technology is bringing the true benefits of design-build together at the onset of a project where it can pay the biggest benefit to both the owners and project team.

As project schedules become more aggressive, precision is vital—and O’Neal’s preconstruction process, combined with continued investment in design and construction software and estimating tools, will help ensure clients get the most complete picture of every project at the earliest date possible.

INTEGRATION

The true impact of technology is felt across all phases of the Engineering-Procurement-Construction process, making integration among our team a key priority. Using powerful tools like BIM, Revit, PDMS and SmartBidNet, our design, procurement and construction experts are able to work collaboratively from the very outset of project development — giving clients the maximum benefit of the design-build process, as well as giving the project delivery team the information they need to stay on schedule.

O’Neal’s collaborative, cross-platform approach is evident in the way our team can leverage our experience and software tools to provide a unique elevated approach to brainstorming. It’s just one of many ways technology is transforming the business of project delivery.
CONSTRUCTION

On the construction side, O’Neal is utilizing advanced field management software like BIM 360—giving project managers the ability to assess and problem-solve in real time using iPads on the jobsite. With direct links to original BIM models, all updates and modifications are instantly displayed so progress can be tracked.

O’Neal’s field management software is also used to track materials and equipment through various stages of the construction process, adding an extra level of security. Checklists and troubleshooting issues are all catalogued and fully accessible through the iPad, as well as shop drawings, plan sheets and more. Instead of regrouping around physical renderings, project managers can view the most updated information in one place — ensuring accountability among multiple partners.

“Creating efficiencies in how projects move from the design phase to the construction phase has plenty of opportunities,” added Ed West, O’Neal’s Director of Projects.

PROTECTING INTELLECTUAL PROPERTY

Many owners and general contractors may not understand that critical intellectual property (IP) is contained in the various drawing packages located in online plan rooms. Intellectual property is further compromised when firms use low-cost design centers.

“Owners may not initially realize their technologies and drawings are being outsourced to countries with little or no IP laws or protections, but not at O’Neal,” says O’Neal’s President and CEO, Kevin Bean.

“As this technology continues to proliferate and more of the owner’s manufacturing- and process-related information is attached to the model, protection of the owner’s intellectual property is something we will continue to take very seriously at O’Neal,” said Bean. “We have a formal IP protection plan that is tailored specifically to each project very early in the planning phase.”

THE NEXT GENERATION

As technology evolves, so does the experienced team at O’Neal — supporting project development and delivery with the best solutions available. Whether on the design or construction side, technology is changing the landscape every day. Our ability to quickly adapt and integrate our team with these new solutions is what sets O’Neal apart and brings genuine value to our clients.
O’Neal Delivers.

FULL PROJECT DELIVERY
O’Neal focuses on the Business of Project Delivery—integrating overall project planning, design and construction to create cost-effective capital solutions. With all of our design and construction professionals in-house, our clients benefit from a true collaboration of disciplines.

PRECONSTRUCTION
O’Neal leverages design and construction expertise to develop project definition, scope and cost at the earliest phase of a project. Our proven process can identify and quantify clients’ project needs quickly and accurately. This allows clients to develop or confirm funding and schedule duration for their project prior to full capital commitment—guaranteed.

GUARANTEED COST AND SCHEDULE
Unlike most in our industry, O’Neal can guarantee a cost and schedule for project delivery. Our expertise and due diligence in the Preconstruction phase allows us to be confident in our cost for total project delivery.

EXPERIENCE
Since 1975, O’Neal has been successfully delivering capital projects in diverse industries worldwide. Our professionals average over 21 years of experience and specialize in complex design and construction.

OUR PEOPLE, OUR VALUES, OUR CULTURE
Our people are our biggest asset. As an employee-owned company, O’Neal people have a long-term stake in client satisfaction. Although we are not a small company, working with O’Neal gives you that small business feel. Clients experience a culture that is customer-oriented, accountable and professional.