

# Mistwood Golf Club

## Case Study



The Mistwood Golf Club at Romeoville, Illinois is one of the top golf training facilities in the country. The new clubhouse is a two-story building of about 26,000 square feet with several office spaces and various facility rooms. In 2014 Quest Design Group (QDG) began working on the project with International Contractors, Inc. (ICI), and in 2016 the Chicago Building Congress recognized the project with a Merit Award.

QDG designed the mechanical, electrical, plumbing and fire protection systems for the Mistwood Golf Club's new clubhouse in 2014. And while the end result is a beautiful, award-winning building, QDG had to overcome some complications.

### An Award-Winning Project

In 2014 QDG worked with ICI on the new clubhouse at the Mistwood Golf Club in Romeoville, Illinois, which is one of the top golf training facilities in the country. The project included engineering designs for the mechanical, electrical, plumbing and fire protection systems, and in 2016 the building received a merit award from the Chicago Building Congress.

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"We faced aesthetic restrictions of clay, metal, and earthen roof systems that could not hold equipment, and the building has ceiling height constraints with sloped light gauge trusses, explains Scott Leadbetter, ICI's Project Manager. "The QDG team had to think outside the box to figure out how to conceal the various MEP equipment and services while still maintaining functionality. They nailed it."

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QDG designed a system with convenient and efficient gas fired boilers, hot water handling units, gas fired rooftop units, make up air units, water heaters and exhaust fans serving throughout the building space.

The office spaces, pro-shops and storage rooms are heated and cooled with dedicated VAV boxes along with hot water reheat coils served by the boiler system. Suspended unit heaters along with hot water coils from the boiler room heat the cart storage area on the lower level. The other lower level spaces, including locker rooms and restrooms, are served by a separate VAV box system.

The restaurant, kitchen and banquet rooms are heated and cooled via separate rooftop units. A total of eight rooftop units are designed and aptly placed in required spaces in the building to maintain space comfort levels.

The control systems for the rooftop units and VAV boxes have thermostats located in convenient locations for user friendly functioning and sensors that monitor system performance, maintain thermal comfort conditions, and manage efficient system operation based on varying loads.





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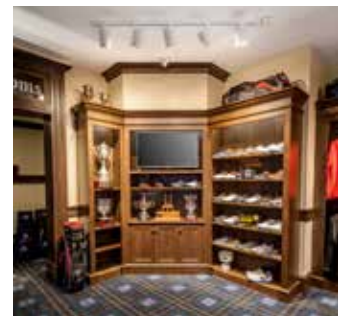
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The lighting design included more than 70 different types of lighting fixtures ranging from energy efficient LED lights in the pro shop and bar area to Scottish Farmhouse style fixtures in the restaurant and banquet facility. A central dimming system with over 50 zones and countless scenes manages the lighting systems for the entire facility.

For life safety the entire building is monitored by a state of the art intelligent addressable Fire Alarm Control Panel with the latest firmware.

The facility is fed with a 120/208V, 3Ø, 2000 Amp service. The service is split into two categories: general service and emergency service. The general service covers the pro shop, lower level and general office spaces while the golf course area is prone to power outages. The restaurant and banquet facility is entirely backed-up by a 300Kw natural gas generator.

“Working with Scott Leadbetter from ICI and their electrician during the installation made this project run as smoothly as possible,” said Michael Stanich, Electrical Department Manager, Chicago Division at Quest Design Group.





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### 2016 Merit Award Winner

Mistwood Golf Club earned a Merit Award from the Chicago Building Congress in 2016.

The Merit Awards have been celebrated the building industry since 1956, and no other association activity more perfectly defines the mission of the Chicago Building Congress than the Merit Awards Program. Prominent buildings that have won this award include the Sears Towers, the Trump International Hotel, and the Art Institute of Chicago.

"The Mistwood clubhouse is a gorgeous building," according to Michael Janis, President and CEO of Quest Design Group, "and our team is honored to be recognized by the Chicago Building Congress."

