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BIM at Quarry Park

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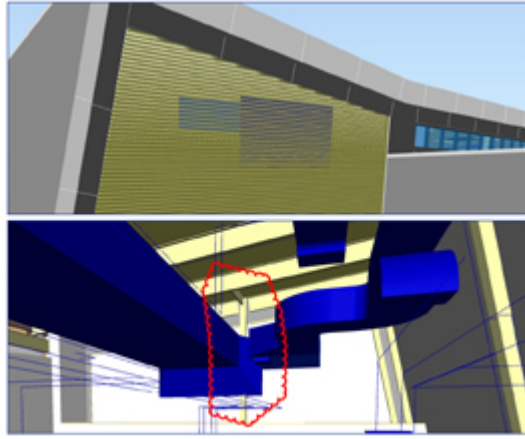
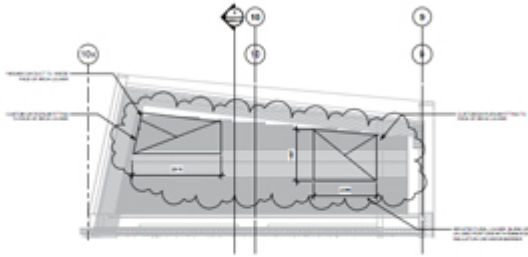
Bird Construction hosted approximately 50 industry representatives and members of CanBIM during a tour of the Quarry Park Recreation Facility on Sept. 30 to showcase their success in using Virtual Design and Construction (VDC) methods.

Collaborative Building Information Modeling (BIM) tools, a subset of VDC, was used where all relative disciplines' 3D Models are combined into a single Construction Model. This model allows for those working on the project to better visualize the final product and even navigate around the 3D space.

A major benefit of using BIM collaboration tools is clash detection. Within the Construction Model tests are run to detect physical objects that are intersecting — for example, BIM can detect if a building system is interfering with structural components or if building elements are encroaching on building systems' clearances. These problems are often caught while construction is underway and work needs to be redone, which prolongs the construction schedule. With clash detection these problems can be assessed and corrected well before construction on an area begins. Subsequently, Bird reported no major issues during the erecting of the structure for the new Quarry Park Recreation Facility.

The tour of the recreation facility highlighted six major instances where early clash detection saved both time and money. Plenty of Bird representatives were on hand to thoroughly answer any questions along the way.

The Quarry Park facility is set to be completed in May 2016.



Louvers require additional HSS framing - conflict with HVAC units.
Expected to affect the free air space and HVAC performance.

