Alyse van Epps

May 1, 2008

**AutoCAD Revit Evaluation**

This program would prove to be very helpful in the architectural field. It was very simple to use for the small project that we were set out to design. I really enjoyed using the program and would be very curious as to how other disciplines, such as mechanical, electrical, and plumbing, can be incorporated into this program.

It was easier to visual the process of constructing the building. You can visualize the building three dimensionally while you create it. From my experience, architects generally create plan views prior to the elevations. This program gives the designer the opportunity to create the building from the elevation, which is the most aesthetically important part of the building for the architect and the owner. Once the windows, doors, exterior lights, etc., are drawn on the elevation, it automatically illustrates on the plan view. Revit features also make it easier to show the client/owner a better idea of how the building will actually look with a shaded, perspective point of view without having to design a physical three dimensional model.

I did not see any problems with this program, because it gives the designer/drafter a better perspective during the design process, which provides the designer with fewer chances to make mistakes on the final construction documents. The program was straight forward with how to add elements to the building. The merging of disciplines aid the designers/engineers in viewing and coordinating all aspects of the building. This can open up many paths and ideas that can lead to a better design. These features of AutoCAD Revit can also aid in the design of an intelligent building. The ability to view a building in this detail is leveling to the human mind and creates the possibility for many ideas to arise while viewing the building with shadows. The shadows can help to determine the placement of temperature sensors. With other disciplines, such as electrical and structural, these ready-made perspective views help with the elevation of the sensors, switches, and structurally to see how much room is left in the ceiling for mechanical ductwork, sprinkler piping, etc. AutcoCAD Revit has endless possibilities to reduce mistakes within a construction document. That alone would payback for any design engineering company.