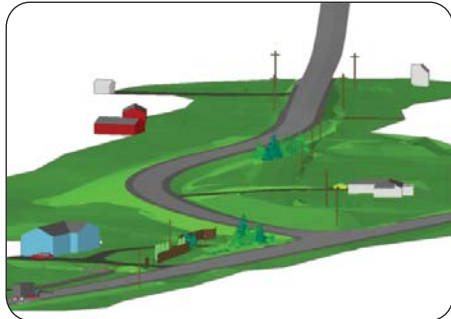


## Onondaga County Department of Transportation Implements Autodesk® Civil 3D®



### → THE CUSTOMER

Onondaga County, population 458,336, is located in the center of New York State and within 350 miles of all major cities in the Northeast. It is home to the city of Syracuse, population 147,306, which is situated in the approximate center of the County and the focus for commercial and business activities. The County DOT maintains 804 miles of highway.

### → THE CHALLENGE

Onondaga County DOT recognized that Civil 3D would be the future replacement of Autodesk® Land Desktop and Autodesk® Civil Design. "We felt it was important to embrace this new technology, and even though the new process might present an unwelcome learning curve, the possibilities for more integrated, efficient design would be well worth the effort," stated Mark D. Premo, P.E., Civil Engineer III, CAD Coordinator, and design lead for the County DOT.

### → DESIRED OUTCOME

Civil 3D offered a new approach to designing roads, residential subdivisions, building sites, and other land development projects. The Onondaga County Department of Transportation saw a demonstration of Civil 3D and realized the potential time savings for their department.

### → THE SOLUTION

IMAGINiT went on-site and developed the initial styles and templates setup for the County. "By working with IMAGINiT Application Engineer Rich Tiede to define styles and build templates, we were able to focus on our tasks at hand without disrupting our workflow. That also allowed our staff to focus on design instead of the preliminary software setup," noted Mr. Premo. "IMAGINiT provided technical support and kept in contact with us to ensure our success with the software. Since we don't have a full time CAD Manager or a dedicated IT department, it was extremely helpful to have the additional support," affirmed Mark.

### → THE RESULTS

The parametric design technology in Civil 3D is the fundamental benefit to the County. They particularly like the unprecedented use of objects for a more model-based design environment where on-screen components maintain key relationships with the design data. "This intelligent model-based design and the dynamic nature of the software have been very advantageous for our small municipality," added Mark.

In New York State, it can take several years after the completion of the conceptual design to actually build the infrastructure. The benefit of Civil 3D design templates is that the design is still viable when the infrastructure goes to construction years later; making changes or modifications to an AutoCAD design requires a complete redraft. With Civil 3D you have a living digital asset that can be updated parametrically when elements of the initial design require modification.

The County anticipates that the creation of styles and templates will dramatically improve the exchange of data within their consulting environment and in-house engineering group. "A consistent design template provides project managers, engineering staff, and consultants with confidence in the data, which allows them to make better decisions and significantly decrease our project development time," declared Mark. "We already see an increase in productivity and efficiency. Day-to-day and week-to-week, we discover new ways Civil 3D helps our department become more efficient," concluded Mark.