

CUSTOMER SUCCESS STORY

Boss Engineering Maximizes their CAD Investment to Improve Efficiency and Profitability



Founded as a family-owned company in 1969 to provide land surveying and civil engineering services to land owners, builders, and developers in Livingston County, [Boss Engineering](#) has grown into a full-service, privately owned consulting firm serving all Southeastern Michigan. Today, Boss specializes in providing public and private sector clients with:

- Civil engineering
- Land surveying
- Water and wastewater engineering
- Landscape architecture
- Construction services

“From the beginning, Boss has focused on building and maintaining trusted relationships with municipalities, county and state agencies as well as employees, clients and partners,” said Dawn Boss, Human Resources Director, Boss Engineering. “These relationships have contributed to our success over the decades by helping us rise to challenges and take advantage of new opportunities.”

Over the past 50 years, Boss has successfully performed thousands of surveys and developed hundreds of residential subdivisions and commercial developments. Its portfolio of projects includes churches, commercial buildings, health care, manufacturing, municipalities, recreation, education, subdivisions, transportation, water and waste water treatment.

Success Creates Needs for Standardization

As the Boss team of engineers grew, so did the company’s need of style standards for Autodesk® Civil 3D® software. “Limited standardization led to users adjusting settings on the fly, which contributed to a variability of design styles. We knew this could be addressed with Civil 3D software,” said Ms. Boss.

“We are very busy, and it was critical that we work with an Autodesk partner that could complete the project with minimal disruptions to our team. We contacted IMAGINiT Technologies because of past successful projects, and we selected them because they demonstrated an understanding of our needs as well as the ability to deliver the required outcome on time and on budget.” said Ms. Boss.



Caretel Inn of Brighton sits on a 12-acre site adjacent to an active railroad track. Boss Engineering performed site planning, site engineering, planting design, and hardscape design. Great care was taken to preserve the existing vegetation.



The Crossroads Town Center contains an anchor tenant, two retail center buildings, and six outlots for future development. Boss Engineering performed the survey, engineering design, landscape architecture design, and construction stakeout.

Boss Engineering and IMAGINiT Technologies

Jason Hassell, Account Executive, IMAGINiT Technologies, leveraged his knowledge of the industry, Autodesk software, and IMAGINiT Technologies' capabilities when he met with Boss leadership to assess the company's needs and develop a solution comprised of:

- Creating an Autodesk Civil 3D drawing template to be implemented as a company standard; evaluating and modifying layer standards; configuring custom styles; and creating surface content, parcel content, and survey content
- Training 12 engineers on the aspects of Autodesk Civil 3D most applicable to Boss projects
- Follow-up training focused on Civil 3D, hydraulics and hydrology, Civil 3D grading

Mr. Hassell said, "We used best practices and processes throughout the entire process, including assessing Boss's needs, communicating the plan, delivering the implementation, and providing post-implementation support."

Benefits Realized

With the company standards in place and the training completed, Boss has a more in-depth understanding of Civil 3D, including its dynamic features. That understanding helps the engineers generate large project construction plans faster, which results in more efficiency and profitability.

Dan Boss, President, Boss Engineering, said, "The services provided by IMAGINiT helped contribute to a 100% increase in profitability on projects."

Proven Formula for Continued Success

With a 50-year history, Boss knows what it takes to be successful.

"Our solid reputation is built on a foundation of advanced technology and superior customer care," said Ms. Boss. "To maintain that reputation, we strive to hire and train the best people, identify and use the latest technologies, and exceed our clients' expectations."

"Autodesk Civil 3D is one of those technologies, and thanks to our work with IMAGINiT, our employees have a better understanding of styles and can continue to modify and improve upon the Civil 3D template as needed."



The Shoppes of Green Oak is a 45-acre commercial planned development. Boss Engineering performed the survey, engineering and landscape architecture services, and its services included site grading, site layout, sanitary sewer design, water main design, landscape design, construction stakeout and engineering, and the as-built survey.

About IMAGINiT Technologies

IMAGINiT Technologies, a Rand Worldwide Company, is the world's largest provider of enterprise solutions to the engineering community, including the building, manufacturing, civil and mapping industries. With over 25 years of experience, and 45 offices throughout North America, we provide the expertise, training and support to help companies realize the full power of design technology, maximize ROI and gain competitive advantage.



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