



STEVENS Shares New Trends in Civil Construction Industry

August 18, 2021

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Ohio-based STEVENS Engineers and Constructors recently released an article about the latest trends in the civil construction industry. The Ohio industrial construction company states that any company or professional must be aware of these trends to stay competitive in the market. From the equipment used in the civil construction industry to the technology that allows jobs to be completed quickly and safely, staying ahead of the curve can help companies provide their clients with high-quality services.

Click on the following link to read the entire article,
<https://www.stevenssec.com/blog/new-trends-in-the-civil-construction-industry>.

Sustainability is one of the biggest trends in the civil construction industry, states STEVENS, emphasizing the need to reduce damage to the environment while meeting customer demands. Choosing organic photovoltaic films or OPV as a sustainable alternative can help a company be environmentally friendly while also reducing costs. The leading industrial construction company adds that these panels are lighter, more flexible, and

transparent than traditional alternatives.

The civil construction team in Ohio is well-known for its successful completion of sustainable steel building projects. STEVENS harnesses the power of 3D BIM software that streamlines construction in the design and planning stage and identifies problems ahead of time.

Another trend in the civil construction industry is the advent of virtual reality technology, which quickly detects design errors in the design stage that might not be noticed until construction begins.

Safety is a priority in the post-Covid era, and the focus is on separation to keep job sites less crowded. "Safety has always been a primary focus for STEVENS in every job we do," states STEVENS CEO Vicki Anderson. "We implement enhanced safety protocols to ensure that our civil construction projects, or any other project, are done with the highest level of safety possible."

Another trend in the civil construction industry is the rising popularity in the modular construction and prefabrication market, which highlights the aspect of energy efficiency and cost-effectiveness.

STEVENS Engineers and Constructors discussed another trend that has been revolutionizing the construction industry. The importance of project management software in the construction sector takes care of several tasks to manage projects efficiently and make timely payments to subcontractors and contractors at the end of a project.

STEVENS is the leading name for industrial and civil construction. The Ohio industrial construction contractor has the knowledge, experience, and resources to fulfill the growing demand of the civil construction industry. With 75 years of quality, commitment, and expertise, STEVENS is the industrial constructor of choice.

The construction company is at the forefront of cutting-edge trends to provide its customers with the best services possible. Anybody with plans to start a construction project should get in touch with STEVENS. Schedule a free consultation with the #1 Ohio construction contractor on the STEVENS website to help with the next civil construction project.

https://www.youtube.com/embed/BD9Y2le_aDo

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For more information about STEVENS Engineers & Constructors, contact the company here: STEVENS Engineers & Constructors Vicki Anderson (440) 234-7888 info@stevenssec.com 7850 Freeway Circle, Suite 100 Middleburg Hts, OH 44130

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a civil construction industry that aims to enhance the quality of life for customers. In the article below, we will look deeper into some of the new trends in the civil construction industry.

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CIVIL CONSTRUCTION IS FOCUSING ON SUSTAINABILITY

The idea of sustainability has been increasing in the civil construction industry for a while. This issue has grown in importance in society and is valued by most people in general, so it only makes sense for the construction industry to embrace it. Sustainability is more than meeting customer demands and reducing damage to the environment, It will also add better energy efficiency and leads to longevity and cost savings on projects. Solar panels for the production of renewable energy are already an innovation that has become commonplace in buildings. However, there's an even more sustainable alternative that can replace photovoltaic panels called Organic Photovoltaic Films. This technology, also known as OPV, consists of organic photovoltaic cells printed on thin, resistant, and recyclable film. These panels are much lighter, more flexible, and more transparent than the traditional panels. Other sustainable technologies that are being incorporated into civil construction projects are: Cisterns for rainwater collection and storage Green roofs Skylights for lighting Vertical gardens to regulate the internal temperature Ecological bricks Reusing materials like floors and tiles, the reuse of old furniture, and demolition wood are trends that will further improve sustainability in buildings.

BUILDING INFORMATION MODELING (BIM)

BIM, or Building Information Modeling, is very similar to CAD or Computer-Aided Design, but they aren't entirely the same. BIM software uses 3D modeling to design and model what will be built. But BIM technology doesn't just create a visually appealing 3D model of your project. It also creates layers of metadata and renders them within a collaborative workflow. It captures things in a way that old paper blueprints never could. Today, 30-35% of civil engineers are using BIM software. BIM software allows for better collaboration because each person and expertise area can add their piece to the same model instead of breaking it into multiple versions of a paper drawing. This allows the model to evolve immediately as people contribute and streamlines the process, and increases efficiency. BIM can also help with problem-solving in a project's design and planning stages. It can automate detection and provide a complete picture of your project.

VIRTUAL REALITY AND AUGMENTED REALITY

Virtual reality technologies have begun to significantly impact many industries worldwide, including the construction industry. Modern buildings are becoming more complicated by the day. However, these technological advancements can help architects and construction teams improve their designs and detect design errors. Architects and design teams can significantly improve building design through interactive design and gesture interfacing. This could help avoid errors in HVAC system design or find missing elements that have been overlooked during the design phase. These technologies can also be utilized in the construction industry to:

- Aid in the 3D modeling of buildings and structures.
- Helping improve and innovate BIM visualization.
- Help provide a permanent record of the building
- Allows clients to explore designs before construction.
- Helping maintenance workers and service engineers "see through walls."

CIVIL CONSTRUCTION CONTRACTORS MAKE SAFETY A PRIORITY

Safety has always been a concern, but in a post-COVID-19 world, safety rises to the top of the list. Adjustments have been made to mitigate the spread of disease. They

will focus on the separation of workers and enhanced equipment and cleanliness protocols. Separation can be difficult to achieve on a job site, where cooperation and teamwork are necessary. You can expect smaller crews and staggered shifts to keep job sites less crowded. Enhanced protocols will also include obvious things like masks and hand sanitizer and things specific to construction. The passing around of tools, sharing of gloves and hard hats will be curtailed to keep workers safe. We'll all only wear our own protective equipment.

INCREASE IN PREFABRICATION AND MODULAR CONSTRUCTION PROJECTS The modular construction and prefabrication market has also gotten increasingly popular recently, and it isn't hard to see why. Both trends are energy-efficient and cost-effective and eliminate the amount of manual labor required, which is ideal at a time when most material prices are rising. The popularity of modular and prefabrication projects will continue to increase even more, especially for construction companies looking to cut overall costs. Expect to see a lot more permanent modular buildings in the future, as well as pop-up buildings and other prefabricated civil engineering projects.

PROJECT MANAGEMENT SOLUTIONS In addition to the countless technological advances that have been made, construction project management software is a trend that will carry on. The number of companies creating construction project management solutions has increased within the last couple of years. Construction professionals have better software options than were available even just a couple of years ago. User interfaces are designed to be more user-friendly, and there are countless options to choose from. Project management solutions have features like time solutions, equipment rentals, change orders, and traditional project management options. This makes it much easier for construction companies to manage their projects. Project management software can also keep all documents related to the project in one location, helping subcontractors and contractors get paid at the end of a project.

CONTACT STEVENS FOR YOUR CONSTRUCTION NEEDS It's an exciting time to be in the civil construction industry. With all of these new trends, the future of the civil construction industry is very bright. Backed by over 75 years of quality, commitment, and experience, STEVENS strives to be the preferred industrial engineer and constructor of choice. STEVENS has been on the latest cutting-edge trends to provide their customers with the best services possible. To learn more about how STEVENS can help with your civil construction project, click on the button below to see what they can do for you.

Check out our other civil construction articles: **WHAT TYPES OF EQUIPMENT ARE USED IN CIVIL CONSTRUCTION? PART 2** **HOW CAN YOU REDUCE CONSTRUCTION DELAYS?** **HOW IS TECHNOLOGY CHANGING CONSTRUCTION WORK?**",

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STEVENS Engineers & Constructors

STEVENS Engineers and Constructors provides complete industrial construction services from our office in Middleburg Heights, Oh near Cleveland. We offer high-quality design, build, and management services to industrial customers across the United States.

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