SitePrint
For Interior Contractors



ICI gets 8 times more productive in interior construction layout projects

Highlights

8 Times More Productive

4 Times Faster
than the company's traditional process.

1 Layout Worker

Project Background

Description
Print interior layout for walls in various buildings including hospitals, aerospace, technology projects, and schools

Project Size
60,000 sq ft

ICI, LLC is a medium-sized contractor based in Denver specialized in interior construction and layout projects across the Southwest region. The company focuses on a variety of projects, including hospitals, aerospace, technology projects, and schools. Since operations span such a wide range of industries, ICI has multiple layout crews working across various job sites. To maintain this operational model the company is known for adaptability, and has embraced innovative tools and technologies to deliver quality results. Yet, this innovative approach hadn't reached the layout process. While ICI owns advanced tools like total stations and runs CAD software, traditional methods dominated the layout process, resulting in delays and bottlenecks. The adoption of HP SitePrint marked a significant step in modernizing their workflow.

The Challenge

They've traditionally relied on conventional layout techniques, such as snapping lines and manually referencing grids or controls set up by superintendents. These methods required two-person layout crews and were labor-intensive.

While the company owned advanced tools like total stations, no effective solution to integrate them into the layout process meant the tools were underutilized. Managing consistency and efficiency across multiple job sites was difficult without leveraging centralized tools or advanced technology. Additionally, the company often faced challenges finding workers with the advanced expertise required to perform layout tasks. The combination of these issues limited ICI's ability to take on more projects.





The Solution

ICI, LLC needed a way to address the interior construction and layout challenges creating timeline bottlenecks and scaling issues. They were also seeking a solution that allowed them to use existing tools to improve processes and reduce the potential for error. The company chose to integrate HP SitePrint into its layout operations to improve efficiency and reduce costs.

HP SitePrint specialists conducted an intensive two-day training program to familiarize employees with HP SitePrint and its operation alongside the total station.The training targeted the company's internal CAD Personnel and onsite HP SitePrint operators. Specialists provided continued education and support to ensure employees maintained proficiency with the new tools. The structured approach enabled a smooth transition from traditional methods to the advanced "capabilities of HP SitePrint.

The technology was introduced in a phased manner across several projects with a special focus on hospitals, aerospace, technology projects, and schools. By leveraging their existing CAD expertise and total stations, the company successfully incorporated HP SitePrint into its workflow, ensuring consistent results across job sites.

"What first piqued my interest in HP SitePrint was the robot ś ability to layout radius walls and soffits in such a fast and accurate manner."

Nick Hartline, ICC, LLC
President

"We moved forward with HP SitePrint after discussing all options because of the great customer service over the others."

Nick Hartline, ICC, LLC
President



The Results with HP SitePrint

The traditional layout approach was, making it difficult for ICI to take on new projects and scale to meet customer demand. By integrating HP SitePrint into its layout processes, the company was able to drastically cut time requirements for layout and reduce layout teams to one operator. The precision offered by HP SitePrint ensures accurate layouts to minimize errors associated with manual methods. The improved accuracy reduced the need for costly rework and contributed to higher-quality installations across various job sites.

> **"HP SitePrint saves us man hours on site doing the layout and allows us to spend more time doing QA/QC with a dedicated SitePrint operator also allowing the main superintendent/foreman to focus on his crews and looking forward into the project"**
>
> Nick Hartline, ICC, LLC President

HP SitePrint was used for layout tasks across multiple projects. To date, they have used the robot to print approximately 6,500 ft of walls over 60,000 square feet in 30 hours time, achieving a printing productivity rate of 220 ft of wall per hour. Traditional layout methods, requiring a two-person crew, have an average productivity of 60 ft/hour, which would require them to spend 108 hours to complete the same 60,000 sqft.

Total cost reduction:
Operational costs were reduced and layout time was cut by two-thirds

Total time saved:
78 hours, which is 4 times faster than the previous process and 8 times more productive

Long Term Impact

The productivity improvements demonstrated the value of HP SitePrint's technology to simplify complex layouts, ensuring a strong return on investment over multiple projects. By reducing layout teams to a single operator, ICI was able to diminish labor shortage concerns and achieve the goals of producing consistent and efficient layouts across multiple job sites. Ongoing education provided by HP SitePrint specialists ensured employees remained proficient in using HP SitePrint, allowing the company to fully capitalize on its features. This commitment to continuous learning fostered confidence among team members, increasing adaptability to the new technology.

The seamless integration of HP SitePrint into ICI, LLC's layout operations made it clear that the equipment could help them achieve future goals of producing high-quality layouts while scaling with customer demand. Moving forward, they can access robots as needed to work on multiple interior construction and layout projects at once.

Comparative Analysis

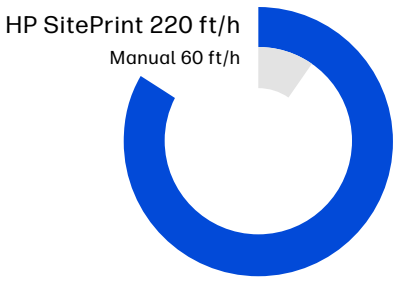
Known for its adaptability and innovation, ICI has embraced innovative tools and technologies to enhance operations and deliver quality results. Integrating HP SitePrint into the layout process allowed them to improve the ROI on existing investments, including total stations and CAD software. The improved productivity and reduced labor requirements helped them maintain high-quality interior wall layouts and installations while taking on more projects. The implementation of HP SitePrint across several projects clearly illustrates the benefits of HP SitePrint over traditional layout processes.

ICI, LLC at Health Peak

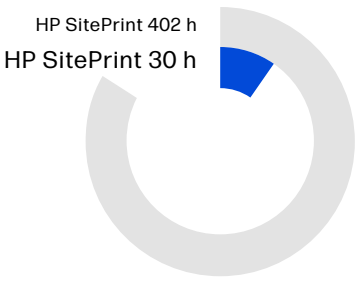




		Manual	HP SitePrint
Job Data	Printed Floor Area (ft^2)		60,000 ft^2
	Printed Distance (ft)		6,500 ft
Labor Cost Rates	Layout Crew Size	2	2
	Layout professional cost/hour		$75/h
	SitePrint Support Usage Fee ($/ft)	-	$0.2/ft
Time And Productivity	Total Layout Time (h)	108 h	30 h
	Productivity (ft of printed wall / hour)	60 ft/h	220 ft/h
Layout Costs	Labor Cost	$ 16.250	$ 2.216
	SitePrint Support Usage Fee	-	$ 12.000
	SitePrint Amortization (1 week)	-	$ 572
	SitePrint CAD Prep Cost	-	$ 1.125
	Total Cost	$ 16.250	$ 15.913



Productivity



4 Times Faster

Interested to learn how HP SitePrint can help you reach your construction goals? Contact us today to learn more about how you can improve your construction workflows with HP SitePrint layout robots.

Contact Us

Learn more at www.hp.com/siteprint

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c09127139 February 2025