



MARK III

Mark III + EVOLVE:
A Case Study to Maximize Working Hours

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OVERVIEW

In January of 1976, Mark III Construction was founded by partners Mark O'Brien, Buzz Oates and Charlie Massie over a Grand Slam breakfast at a Denny's in Sacramento. Now, Mark III is a prominent MEP subcontractor and commercial service firm specializing in mechanical, electrical, plumbing, and underground utility projects within the commercial and industrial sectors. With headquarters in Sacramento and an additional office in Fresno, they service clients throughout California.



BACKGROUND

Mark III has a fully developed VDC/BIM team and an MEP prefab facility which enables them to take on ambitious projects.

With a remarkable track record in industries such as industrial, commercial, healthcare, biotechnology, and food-grade technology, they excel in delivering a wide range of projects, including initial construction, tenant improvements, and remodeling.

When the Mark III VDC/BIM team found themselves struggling with the complexities of Revit and RFA (Revit Families) files they turned to EVOLVE for help.

THE CHALLENGE



"RFAs are too flexible," explained Justin Tucker the VDC Division Manager at Mark III. "They're too easy to change, takeoff was laborious as pipes and fittings would change with system types and had to be checked every time."

Fittings would change when small adjustments were made to the piping and generic parts would autofill making take-off inaccurate.

"Working with RFAs can be very time-consuming as the files are very heavy and can inflate BIM models," said Micah Burdick, a premier Piping Modeler/BIM Specialist at Mark III. Micah estimates that detailers were wasting 25% of their time waiting for views to load in Revit.

Another hurdle the Mark III team ran into was spooling and pipe fittings. Justin shared that, "Autodesk Revit alone was not designed for MEP contractors. Parts are difficult to snap fitting to fitting. Other parts of the system may move when adjusting a branch and sloped piping is extremely difficult."

Spooling also brought more complexities to the Revit program. Before EVOLVE, it was a large and complex operation that could take days, adding significantly to the time from model sign-off to fabricated spools ready to install.

The next challenge the Mark III VDC team wanted to address was fabrication integration. According to Micah, "Autodesk is slow in completing fabrication integration. Important parameters and data are often locked or unreachable by schedule."

Getting the information for fabrication out of the model was a constant work-around of calculated fields in schedules. This simply would not cut it with Mark III's ambitious goals to ensure high-quality MEP projects across California.



THE SOLUTION

“The EVOLVE modeling quick tools are a boon to modeling speed...”
-Micah Burdick, Piping Modeler/BIM Specialist



Mark III needed a way to simplify their design process so they could become a lean, mean BIM design team. Previously, model manipulation, data extraction, spooling, and point layout were all done with different add-ins. EVOLVE provided a single easy-to-use program to control fabrication parts and data. “Training new team members became much simpler because we’ve replaced three different Revit add-ins with one streamlined one: EVOLVE.” Justin Tucker, VDC Division Manager

EVOLVE also solved the RFA struggles that were holding back the Mark III VDC team. As Micah put it, “The modeling quick tools are a boon to modeling speed, allowing you to manipulate parts in ways that are difficult using stock Revit fabrication tools.”

Micah estimates that his team is spending 50% less time on modeling once they switched to EVOLVE which helped them move away from RFAs. Less revisions needed to be done because EVOLVE helped them create more accurate and high-quality models.

THE SOLUTION

“Autodesk alone was not designed for MEP contractors”
- Justin Tucker, VDC Division Manager

Justin and Micah are now spending less time troubleshooting and more time detailing and modeling. As all VDC teams know, projects are complex and change often. But EVOLVE enables Mark III to react quicker to changes. “As the manager of our database, I can be confident that our parts are accurate and we can add new parts and systems quickly if they aren’t already available from the manufacturer,” said Justin.

“With EVOLVE, projects start up off the ground faster, as we’ve been able to templatize everything. Modelers have more time to create accurate content and spend less time ensuring that the model is to spec.”

Take your MEP contracting to a whole new level of excellence. Our EVOLVE Revit add-in is here to empower your BIM design team with unparalleled capabilities. Stop endless revisions and embrace speed and efficiency in your projects.

Elevate your standards, transform your processes, and build a future where quality meets efficiency.



THANK YOU!

Inspired by Mark III Construction's success story?
Get in touch with us to start your journey toward
outstanding results.



Contact us!