

# Collaborative Project Management Solution

Successfully managing a \$250-million turnpike project.

**T**rumbull Construction Management Services (TCMS) has been providing construction management and inspection services for nearly 20 years. The Pennsylvania Turnpike Commission charged TCMS with managing the construction of the Mon/Fayette Expressway Uniontown to Brownsville Project, a new 20.6-mile, four-lane divided limited access toll road. This \$250-million project involves seven construction contracts for work encompassing five interchanges, 29 structures, utilities relocations, lighting, signing, and toll facilities. Using a collaborative project management solution has allowed TCMS to:

- Standardize communications among the owner, contractors, designers, and consultants.
- Optimize collaboration by providing a single, secure site for project documentation.
- Reduce time required to process



*Collaborative project management has allowed project cost control, reduced time, and standardized communications among participants.*

project paperwork, such as correspondence, contractor pay estimates, subcontractor approvals, RFI's, submittals, and owner controlled insurance program approvals.

- Control project costs through enhanced visibility and more efficient collaboration.

Trumbull has been a major contributor to the local Pittsburgh and regional construction market since its inception in 1955. Offering construction management and general contracting services, Trumbull has managed over \$2 billion of quality services to both government and private clients. By completing some of the most challenging projects in the region, on time and with a constant focus on owner cooperation and partnership, Trumbull has earned an excellent reputation in the heavy and highway construction industry.

## Multiple Contracts to Manage

TCMS drew upon this experience in tackling one of its most difficult projects yet: the Pennsylvania Turnpike Commission's Mon/Fayette Expressway. Seamless communication among multiple parties—including the contractors, designers, consultants, insurance agencies, and local jurisdictions—was required to ensure the ongoing success of the Mon/Fayette Expressway



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*The on-demand capabilities of Constructware are a must on large projects like the Pennsylvania Turnpike Commission's Mon/Fayette Expressway, where time is of the essence.*

Uniontown to Brownsville project. TCMS had relied upon paper-based forms of collaboration in the past, with contractors required to submit as many as 14 copies of construction documents for routing and approval.

Seeking to enhance the efficiency of these sorts of processes, TCMS approached the Pennsylvania Turnpike Commission about the use of an on-demand collaborative project management solution. The turnpike was receptive to the idea, as were all project team members who were under no contractual obligation to use this type of system. Ultimately, the project team embraced Autodesk® Constructware® software ([www.autodesk.com/constructware](http://www.autodesk.com/constructware)), delivered on demand, as its collaborative project management solution.

A simple, accessible, and proven solution, Constructware helps organizations standardize and optimize business processes and control costs, allowing projects to run smoothly and be delivered on time and on budget.

Just as importantly, Constructware provides these capabilities on-demand—a must on large projects where time is of the essence. “We can bring new users on board and get them up and running in no time at all,” said Beth Loncar, contracts manager for TCMS. “Administration includes adding or deleting users as needed and setting the proper file access permission

levels, so that information is secure as well as accessible.”

Using the software has had a dramatic effect on TCMS’s efficiency in managing the Mon/Fayette Expressway Uniontown to Brownsville project. All documents related to the project—from RFI’s to proof-of-insurance—are located within the collaborative project management system, providing a single, centralized location.

“By having the project team standardize on Autodesk Constructware as our collaborative project management

solution, we’ve been able to remove a lot of bottlenecks,” explained Loncar. “People spend less time waiting for paper documents to be prepared, mailed, and processed, and more time moving the project forward. For example, it used to take us several weeks to process contractor pay estimates. Now, with collaborative project management, we’re able to accomplish that same task in a matter of hours.”

“The project is complex,” according to Loncar. “The scope of construction management and inspection services encompasses preconstruction plan reviews, scheduling and estimating, contract administration, construction inspection, CDS documentation, materials acceptance testing, project closeout, and public events coordination.

As the Mon/Fayette Expressway Uniontown to Brownsville Project moves ahead, TCMS looks forward to continuing its use of collaborative project management solutions. “The Pennsylvania Turnpike Commission has been impressed with our management of the project and the role that Autodesk collaborative project management has played in keeping the project on schedule,” said Loncar. “It’s nice to know that our technology choices are saving taxpayer dollars at the same time that they’re making us a more efficient organization.”

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*Standardizing on Constructware has enabled centralized project communications and documentation, making appropriate information available to each project team member.*