

SIMILAR PROJECTS

State:	Kentucky
Agency:	Regional Water Resource Agency / Owensboro / Daviess Co.
Project and/or Route Name:	<i><u>RWRA Elevated Platform for the East Plant – Daviess County</u></i>
Dates:	2002
Type of Improvement:	Design and Detail Elevated Platform Structure to Improve Access Press Equipment at Sewage Treatment East Plant
Firm's Project Manager:	Tony Huff, PE – THA Engineering Solutions

The Problem

Access to grease fittings and other routine maintenance on the press equipment was a challenge and a bit of a hazard, often requiring use of ladders. Some platform was present, but areas along the length of the equipment did not have adequate access.

Assessment

THA Engineering Solutions was asked to assess the situation and to determine the most feasible way to install new platform segments to improve access. A key element of the study was to determine how much, if any of the existing platform could be incorporated into the final structure. Furthermore, location on the building's 2nd floor added complications with constructability and time was critical to minimize disruptions to the overall operation.

Solutions

THA chose to use the existing steps and most of the rear platform in-place. A section of existing platform between the press units was discarded as working around the odd sections would likely cause more complication and take more time during construction. Six (6) new segments of platform were designed to interconnect with the existing floor, knee wall and the rear section of existing platform. Bolt-together sections were specifically designed to facilitate both ease of access and future removal; when needed for more intense maintenance operations. Bolt-up sections also minimized field welding, which facilitated quicker construction and fewer disruptions to the on-going operation. THA facilitated the bidding and award process and provided on-site inspection thru final close-out.

