

SIMILAR PROJECTS

State: Kentucky

Agency: US Military Affairs / thru Kentucky Finance Cabinet

Project and/or Route Name: *Wendell H. Ford Regional Training Center Wash Rack Structural Rehabilitation – Muhlenburg County*

Dates: 2003

Type of Improvement: Rehabilitation of Concrete Structure

Firm's Project Manager: Tony Huff, PE – THA Engineering Solutions

Project Description:

The Problem

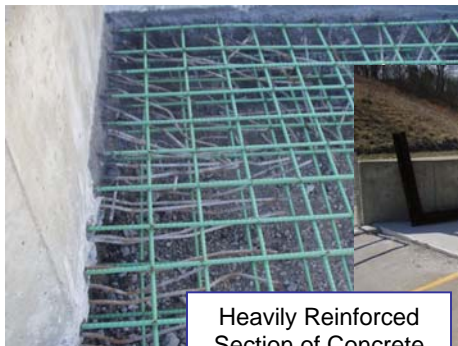
The Military (M-1 Abrams) Tank Wash Structure exhibited numerous problems from combined effects of expansion / contraction and differential settlement resulting from placement on old surface mine spoil and underground old mine works.

Assessment

THA Engineering Solutions was asked to assess the situation for determination of cause and to design a repair solution to extend the life of the structure. An understanding of the usage of the structure and the material properties of steel and concrete were key in developing a repair strategy.

Solutions

THA Engineering Solutions re-designed the broken concrete elements to include expansion joints and beefed-up concrete reinforcement. THA also re-designed the water jet system to spray the under-carriage of the tanks.



Heavily Reinforced
Section of Concrete

