



Quantum Environmental & Engineering Services, LLC

EXAMPLE PROJECT

Bledsoe County Correctional Complex

QE² is providing the environmental permitting and related design support to the Bledsoe County Correctional Complex (BCCX) Expansion Project. Earlier surveys of natural resources (wetlands and streams) have allowed QE² to analyze the impacts of proposed site layouts to natural resources and initiate the permit application process.

Several proposed site layout designs were evaluated by QE² to determine the extent and cost of aquatic resource impact permitting and mitigation. After an original site design (labeled as Site Plan No. 26) was determined to require a permitting schedule of approximately 18 months and a mitigation/permitting cost of approximately \$1,000,000, the site layout was revised. Currently Site Layout #33 is proposed, and QE² has determined that permitting time will be approximately seven to eight months, and mitigation costs will be on the order of \$200,000. The proposed footprint was oriented in such a way to cause the least amount of impact to aquatic resources possible.

Implementing Site Layout #33 will cause an impact to slightly over 2 acres of wetlands and less than 2000 feet of stream. Because of proposed impacts to wetlands and streams, the project requires permitting by the United States Army Corps of Engineers (USACE) (Section 404 Permit) and the Tennessee Department of Environment and Conservation (TDEC) (Aquatic Resources Alteration Permit). Both agencies require a public notice period in their permitting activities. Accelerated public notice and meetings were held in advance of permitting to resolve public concerns early in the process.

In addition to natural resources determinations and mitigation, other planning and design activities included archaeological investigation to locate any potential cultural resources requiring protection and site-wide infrastructure layout including electrical substation and distribution networking, wastewater treatment plant development and water supply arrangements with adjacent municipal utilities.

