

Dams and Embankment Structures

CES' focus is on safety first when providing structural services. A few examples of the dam designs CES has performed are:

Shaws Mill Pond Dam, Lawrence Township, Cumberland County – With a \$1.5 million construction cost, this dam reconstruction project required full schematic design, final design and permitting. The existing 400 foot long Class II earth dam had inadequate spillway capacity and was at risk of failure during the design storm event. During the conceptual design phase, CES developed 6 alternative designs for cost and construction feasibility comparisons and presented the comparisons to NJDEP and the NJDBC.



Reconstruction of River Bank, Hancock's Bridge, Alloways Creek, Salem County – At Historic Hancock's Bridge and along the Delaware Bay, CES provided complete engineering services for the design and permitting of this 900' long, 12' high tidal flood control project. Conceptual design work included development of alternatives analysis for permit review including revetment systems, conventional retaining walls and other slope stabilization methods. CES address the poor soil conditions and severe scour potential at the site with the tied back sheet pile system design. The final design features safety railings and helical screw anchors to avoid disturbances of residential dwellings and yards.



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