

Seton Recreation Facility

Cement Stabilized Base



SOLID STABLE SOLUTIONS



Project Duration: 4 months (2016)

Product Produced: 40,000 tonnes of Cement Stabilized Base (CSB)

CSB Requirements: 5 MPA (7 days), optimize Fly Ash component with the goal of increasing LEED points

CSB Design: Prior to the project, BIRCO developed and tested the CSB mix design maintaining a focus on the specified CSB Requirements.

Application: CSB was used as a stabilized base in critical areas of the project to eliminate any potential settlement issues.

Process: approx. 40,000 tonnes of CSB was mixed and produced onsite through the BIRCO Pugmill. This material was transported by dump trucks then placed and compacted in 10 inch lifts throughout the project excavation. In some locations successive lifts were as high as 10 meters.

Result: BIRCO produced over 2,400 truck loads of CSB. Daily testing was administered by an outside consultant. In every instance these test results either met or exceeded the CSB Requirements for the project.

