

## **Executive Summary**

Technical Assignment 2 provides a Detailed Project Schedule, Detailed Site Layout Plans for Steel Erection, an Assemblies Estimate of the Building Envelope, a Detailed Structural System Estimate, and a General Conditions Estimate. This report give an introduction to cost and schedule issues for the Teachers Education and Technology Center (TETC).

An on time project delivery is critical to the TETC project because The University of Maryland is aiming to open the building for the start of the fall semester 2008. The project has been split into 3 phases for Building A, B, & C to allow finishes and MEP rough-in to begin prior to the total structure top out. The University of Maryland hopes to start installing FF& E in June 2008. Site Layout Plans were developed to illustrate steel erection sequencing, crane locations, and steel delivery.

In the Assemblies Estimate, the cost of the exterior brick façade, pre-cast concrete, windows, doors, and roofing system were calculated. The square footage of brick, pre-cast concrete, number of windows, and square footage of roofing were calculated to complete the estimate. Two roofing systems were estimated to see the cost differences between the alternate systems The University of Maryland is considering.

A typical bay, carried through all floors of the building, was used to estimate the structural concrete and steel for foundations and superstructure. The square foot model extrapolated from this data was found to be very close to the actual structural system cost within 1%.

The General Conditions Estimate was calculated using the Staffing Plan illustrated in Technical Assignment 1 and the construction requirements of the General Contractor. Then General Conditions Estimate was found to be 11.4% of the total project cost and very close to the average of 10%.