A. EXECUTIVE SUMMARY

This technical assignment explores the areas of *Medlar Field at Lubrano Park* that are good candidates for research, alternative methods, value engineering, and schedule compression which will be used in my final proposal. By attending the critical industry issues seminars at the PACE Roundtable (10/13/05) and investigating value engineering, schedule compression areas, and constructability review items, many ideas have been developed for use in my final senior thesis proposal due in April 2006.

On Thursday, October 13, 2005, I had the privilege of attending *PACE Roundtable* conference at the Penn Stater Hotel and Conference Center. Before attending the *Roundtable,* I had an idea that I wanted to research the area of building information modeling (BIM) relating to the construction industry. By attending two morning sessions relating to technology within the industry, ***Frontiers for Innovation I: Promoting Innovation*** and ***Frontiers for Innovation II: Developing Innovative Capacity***, I immediately realized that BIM is an important discussion for industry members. The following discussion will:

- Summarize key topics discussed in each session I attended.
- List the current industry members that have shown an interest in the attended sessions.
- Evaluate the initial method and goals of applying BIM to my thesis project, Medlar Field at Lubrano Park.

At the time my research concludes, I hope to further educate the industry on BIM and answer as many questions as I can that were proposed during the *Roundtable* sessions.

The problem identification section identifies several areas for future analysis as part of my senior thesis project. These areas include value engineering analysis, constructability review, and schedule reduction / acceleration. Many of the value engineering items relate to the choice and/or use building materials. The items associated with the constructability review relate mostly to the problems associated with the building enclosure being constructed during the winter months in State College, PA. Because *Medlar Field at Lubrano Park* is a sport facility and the construction schedule for these types of projects are often very short, my schedule reduction focuses on the problems occurred during MEP system design and release of MEP drawings for bid. Lastly, I have briefly outlined the methods that will be used to help analyze each technical area.