



## Executive Summary

In this proposal, the reader will be able to identify the research topics and analysis studies for Milestone Building #4 in the upcoming semester. The content in this document will identify the problem or opportunity, the goal, research step and expected outcome for each analysis. A weight matrix is included at the end to this document to illustrate the distribution of each topic. A breakdown of all four analysis topics is outlined below.

### *Research Topic - LEED Guide for Trade Contractors*

A LEED guide for trade contractors will be developed to allow an easy implementation process for inexperienced industry members on a preselected Materials and Resources points. An information pamphlet and LEED guideline will be developed for them. Also, a list of experienced suppliers and manufacturers will be available to industry members, so they are able to prepare a proficient project team early on.

### *Sustainable Breadth - Increase LEED Rating*

In this breadth, the implementation of additional LEED points will be added with a goal of making Milestone Building #4 a LEED Gold rated building. Obtainable LEED points will be chosen by being able to add them into the design and construction of the building with the least amount of impact on cost and schedule.

### *Architectural Breadth – Interior Tenant Design*

This analysis will focus on serving a client as an architect by designing a tenant space. The primary goal of this analysis is to create a sustainable design that can easily fit into the current construction schedule. LEED for Commercial Interiors will be used in implementing ideas for a high performance place. A cost estimate will be completed as well.

### *Structural Breadth - Impervious Surface Parking vs. Parking Structure*

Shortcomings of impervious surface parking will be researched and eliminated by the addition of a parking structure. An architectural design and structural analysis will be executed by comparing different structural systems. One main benefit of eliminating the impervious parking lot ties into the sustainable breadth; by increasing the ability to achieve more LEED points. Also, I will research ideas on how the newly free space can be utilized.

Milestone Building #4

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Construction Management | Dr. Riley | Germantown, Maryland | December 14, 2007

