

Donna Kent
Structural Option
Building: Vickroy Hall
Location: Duquesne University
Pittsburgh, PA 15282
Date: January 31, 2007
Title of Report: Thesis Proposal - Breadth
Faculty Consultant: Dr. Boothby



Executive Summary

Two breadth topics will be investigated.

The first breadth topic is an in depth schedule comparison. The original system and the new system will be scheduled on the computer program Primavera. They will then be compared to each other. This breadth may lead to an answer as to why moment frames were used as the original system. Since steel is constructed faster than masonry, this may be the answer to that specific question and others that may be posed throughout the execution of the proposal.

The second breadth topic will be to redesign the lighting in a popular lounge room on the ground floor. This will be done using the computer program called Luxicon. The original and new design will then be compared and contrasted.

The new building system will be evaluated with not only the structural changes, but also the impact on the other major architectural engineering options. In this sense, the building will be analyzed as a community of options instead of only structures to determine if the new system could effectively stand in for the original system.