

- Benner Pike Shops
- State College, PA
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## Executive Summary

The final proposal consists of three technical analyses that it is going to be prepared for the final presentation in spring, 2006. This proposal is written and submitted to analyze current issues of the Benner Pike Shops and generate process of how each analysis is going to take place. Even though the analyses will be performed based on this guideline, it is possible that there could be some modifications through out the process. In such case, it will be reported to the advisor beforehand.

The first analysis is the system comparison between tilt-up concrete panels and cast in place concrete masonry units. Cost and schedule analysis will be performed to compare two different systems. Structural breath analysis is going to be part of this study since the systems take strengths and reinforcing into consideration. A 4D model of tilt-up process will be generated to see how it is erected respect to time.

Reconfiguration of the HVAC units located on the rooftop of the Benner Pike Shops is the second analysis. Also for this examination, cost and schedule analysis will be performed to the original and modified coordination. The crane and rooftop capacity will be checked to see if it is adequate for the modified units to be installed. Mechanical breath analysis will be part of this study.

The last analysis is going to focus on current closing out planning of the project done by the LSF general contractor. Research of the company will be performed to find out why they had come up with the current closing out plan. Communication process of the project will also be studied with e-mail surveys of several PACE members.

Description	Research	Value Engineering	Constructability Review	Schedule Reduction	Total
Tilt-up Concrete Panels		15%	10%	10%	35%
HVAC Units Reconfiguration		10%	10%	15%	35%
Close out Plan/Communication	20%			10%	30%
Total					100%