

Executive Summary

The final proposal will provide a guide for the research and analyses that will be performed on the Marymount University 26th Street Project throughout the spring 2010 semester. The topics include the development of a Short Interval Production Schedule, MEP coordination techniques, implementation of a green roof, and incorporating an Energy Education Plan. All of the research topics have been chosen to revolve around the critical industry issue relating to increasing efficiencies.

Analysis I:

The first analysis involves implementing Short Interval Production Scheduling into the interior finishes of the Residential Facility. The repetitive nature of the activities that are involved with this phase of the project provide a perfect opportunity to try to bring the efficiencies of the “manufacturing process” to the construction industry.

Analysis II:

The second analysis involves the investigation into the MEP coordination process. All of the MEP coordination on the Marymount University Project was done “traditionally” with two-dimensional drawings. The rise of three-dimensional coordination has introduced another option but has yet to become widely accepted. The acceptance of the 3D MEP coordination process will be evaluated through a survey of the General Contractor and their subcontractors.

Analysis III:

The third analysis involves incorporating a green roof into the design of the facilities at Marymount University. This will require supplementary evaluations on both the structural and mechanical systems of the building. In addition, Analysis III will satisfy the M.A.E. requirement.

Analysis IV:

~~The fourth analysis involves developing an Energy Education Plan that will be specific to the residents/occupants of Marymount University. The university has proven their commitment to sustainability as the 26th Street Project is aiming for a LEED Certified rating. Along with this rating, Marymount University is actively looking to maintain the efficiency of their building over time. The Energy Education Plan will help to accomplish this by keeping everyone on the entire campus involved.~~