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Lighting/Electrical
Dr. Moeck
DEF Workforce Development & Technology Building
Dubois, PA
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The Lighting Proposal Memo



Executive Summary:

For this assignment, we were to choose the spaces that we would be redesigning and analyze them at their existing conditions. Our choices would be based on the requirement of having at least one of each of these four settings:

- 1) A Large Work Space
- 2) A Special Purpose Space
- 3) A Circulation Space
- 4) An Outdoor Space

Along with these requirements, we were to also take into account any other systems that may be affected by certain changes to the spaces (heating, cooling, structural, etc).

After some careful Consideration I was able to choose four spaces that would satisfy all requirements, while also allowing for some systems integration to take place. I chose the main lobby in the corner of the building as a special purpose space. Then the PA Career Link space on the second floor will be used for the large work space. The rear entrance and accompanying second floor lobby space as the circulation space. Finally I will be doing an exterior façade for the outdoor space. I haven't decided exactly which face of the façade to use, and will not know until I visit the building shortly.

Special Purpose Space:

The main lobby in the south eastern corner of the building is a very modern looking space. The corner is rounded with a radius of about 44'. The exterior façade on the rounded portion is mostly aluminum panels and 1" glazing. The first floor opens to the ceiling for about half the floor plan. There is a smaller second floor portion of the lobby that is accessible by either elevator or stairs, both of which are located in the center of the lobby. Its main purpose is connecting the two wings of the building together, also sort of a "connector piece" if viewed from the outside.

There is mostly incandescent lighting in the lobby at this point. There does not seem to be any structural obstacles at this point in the case of redesign. However with all the glazing, a daylight study may be feasible.

Large Work Space:

For this space I've chosen the PA Career Link space that takes up most of the second floor north wing. This space is rented out by PA Career Link from DEF (Dubois Educational Foundation). The total square footage for this space is roughly 3,132 SF. At this point I'm uncertain exactly what is in the space. It appears to be an open office space because there are rows of pendant hung fluorescent lighting. There are five columns across the middle of the room that may present minor problems for changing the location of fixtures or adding skylights.

Circulation Space:

For this requirement, I've chosen the rear entrance way. There are two sidewalks leading up to a large paved center point, in which there are two sets of double doors. The patrons then enter a vestibule before going through another set of doors to get into the main lobby. I will be using the small portion of the second floor lobby as part of the space also. The indoor dimensions are 22' x 28' for a total SF of 616'. The lighting is 2x4 troffers and circular recessed incandescent downlights.

Exterior Space:

I've decided on using one or two of the building facades. I'm unsure as to which one(s) I will be doing at this point. I will be visiting the building shortly and will be able to make a much more accurate assessment of what surfaces would be feasible to design or redesign. The exterior is mostly brick veneer with the rounded corner being primarily glazing and aluminum panels. Also most of the south and east facing windows have long extended overhangs, making lighting them difficult.