



EXECUTIVE SUMMARY

The Grand Oaks Assisted Living Facility serves as an upper class residence for those older individuals that want their privacy and autonomy, but with some assistance along the way. The Georgian style architecture of the building creates a very inviting and homey exterior. The opulence of the space is felt when one enters the lobby. Rich wood finishes, European inspired décor, cove lighting, and other formal finishes greet guests and residents as they enter the lobby. This atmosphere is maintained throughout the facility. This facility tries to be as inclusive as possible and provide the residents with whatever they may need or desire. The Grand Oaks has a craft room, multipurpose room, chapel, spa, beauty saloon and barber shop, formal dining area, and a gift shop/convenience store, to name a few. Residents' rooms are dressed in warm finishes to really provide a sense of home. The Grand Oaks facility will have a new addition that will provide a parking garage and additional resident rooms and activity rooms. The overall lighting analysis of the existing conditions considers the original Grand Oaks building as well as the addition. For the individual lighting analysis of the selected spaces, the original building was used because it provided the necessary variety of spaces.

The overall lighting uses energy efficient, fluorescent fixtures where ever possible. To maintain a feeling of home, there is a large use of downlighting in the areas the residents occupy. Throughout the building there is use of cove lighting, decorative pendants, and wall sconces. Areas such as the dining room and lobby make use of bulkheads to break up the open nature of the space and provide a more intimate atmosphere. The four spaces that were evaluated and critiqued were:

- The Multipurpose Room
 - Large use of downlighting to provide general illumination for the open space. Lighting layout must work with the large open area, as well as the smaller areas that the moveable wall partitions can create.
- The Dining Room
 - Formal and elegant, dressed in rich finishes and furniture. Architectural cove lighting and bulkhead give greater dimension and interest to the space. Large use of dimmable downlights, wall sconces, and chandeliers.
- The lobby
 - European inspired décor from furnishings to carpeting. The lobby uses a cold cathode system for the cove lighting. Pendant fixtures provide the other indirect illumination. Direct lighting comes from compact fluorescent downlighting. The over all ambiance of the space is warm, elegant, and inviting.
- Outdoor Space
 - Pole mounted fixtures; with a metal halide source provide general illumination to the walkways and vehicular areas. At the main entrance, the porte cochere and covered walkway illuminate the building entry with use of compact fluorescent downlighting. This space serves as the transition point from indoor to outdoor environment, and visa versa, so this space is important when considering the adaptation time required for eye adjustment to different luminance levels.

Overall, the different lighting systems and techniques work well in highlighting architecture and providing the desired illuminance levels. Based on the established design criteria, some areas have more light and luminaries than are required to meet both illuminance levels and to stay within the allotted power density. In the redesign, the integration of daylight and providing the most efficient design will be of the utmost importance.