

South Nassau Communities Hospital North Addition

Oceanside, New York



Carl Speroff

Lighting Electrical

Faculty Advisor: Dr. Kevin Houser

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Proposed Spaces

For the lighting portion of my thesis, I am proposing four spaces to be analyzed and redesigned. The spaces to be studied are as follows:

- Large work space – Second floor nurse’s station
- Special purpose space – Auditorium
- Circulation space – Main entrance lobby
- Outdoor space – Courtyard

At this point in time I am proposing to complete three schematic designs for the courtyard and will study Flynn impressions for the auditorium. More information will be provided in Tech Report 1.

Second Floor Nurse’s Station – Large Work Space



Figure 1: Nurse’s Station

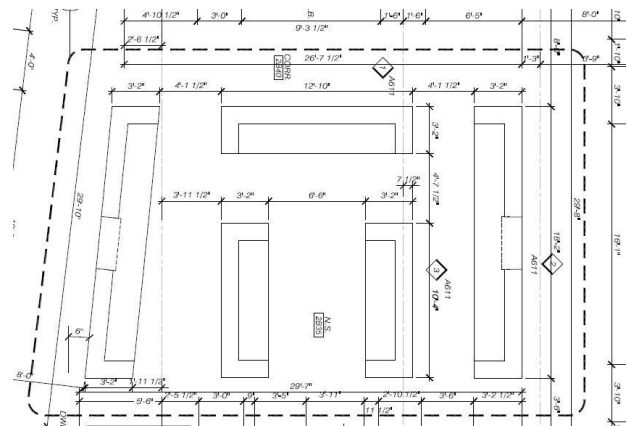


Figure 2: Nurse’s Station Floor Plan

The nurse’s station is the center of activity on the second floor. Circulation through the area is an important consideration since nurses and doctors will constantly be moving between the area and patient rooms. The area serves as a monitoring station for the surrounding patient rooms, and as a result reading, writing, and computer usage are critical tasks.

An image and floor plan of the second floor nurse’s station is shown in Figure 1 and 2 respectively. The dimensions of the space are approximately 29.5’ x 27’, with a ceiling height of 9’-6” and a total area of about 830 SF. Table 1 shows the materials and finishes in the space.

<i>Location</i>	<i>Material / Finish</i>
Ceiling	White Armstrong acoustical ceiling tile
Walls	Cream vinyl wall covering with dark grey handrail with wood trim.
Floor	White Azrock vinyl composite tile
Desks	Gold vertical surfaces with white Formica tops and wood trim

Table 1: Nurse’s Station Finishes

Auditorium – Special Purpose Space



Figure 3: Auditorium

The auditorium is adjacent to the lobby on the ground floor. The space is described as an auditorium and conference center, and as a result the lighting design should be flexible to account for educational and more intimate uses. A projector screen spans the wall at the front of the space shown in Figure 3. The auditorium can also be divided into three separate spaces. Visual tasks will vary depending on the function of the space. As a conference center, visual tasks will likely include reading and writing, but could also included viewing presentations. Minimizing glare and producing good facial

rendering on the speaker will be important to consider when designing the lighting for a presentation space. The space could also be used as space to host a formal gathering, in which case a more relaxing and likely dimmable lighting system may be desired.

Figure 4 shows the floor plan for the space, and Figure 5 shows a wall section, which shows the general shape of the wall around the back and right side of the space. The auditorium has a ceiling height of 16’ and a total area of about 2700 SF. Table 2 shows the materials and finishes in the space.

<i>Location</i>	<i>Material / Finish</i>
Ceiling	White Decoustics acoustical ceiling tile
Walls	Red acoustical fabric wall covering, wood paneling
Floor	Light brown Atlas Tessile carpet

Table 2: Auditorium Finishes

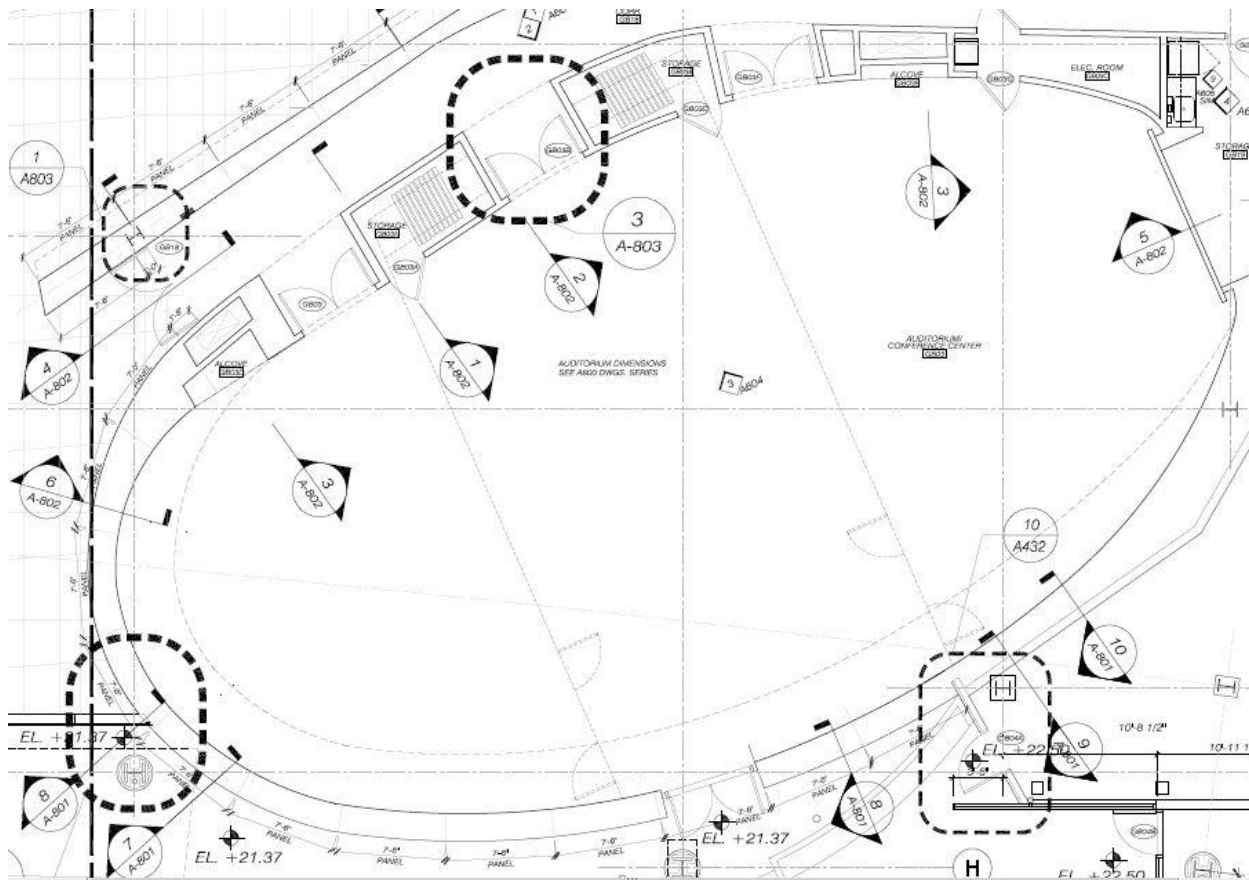


Figure 4: Auditorium Floor Plan

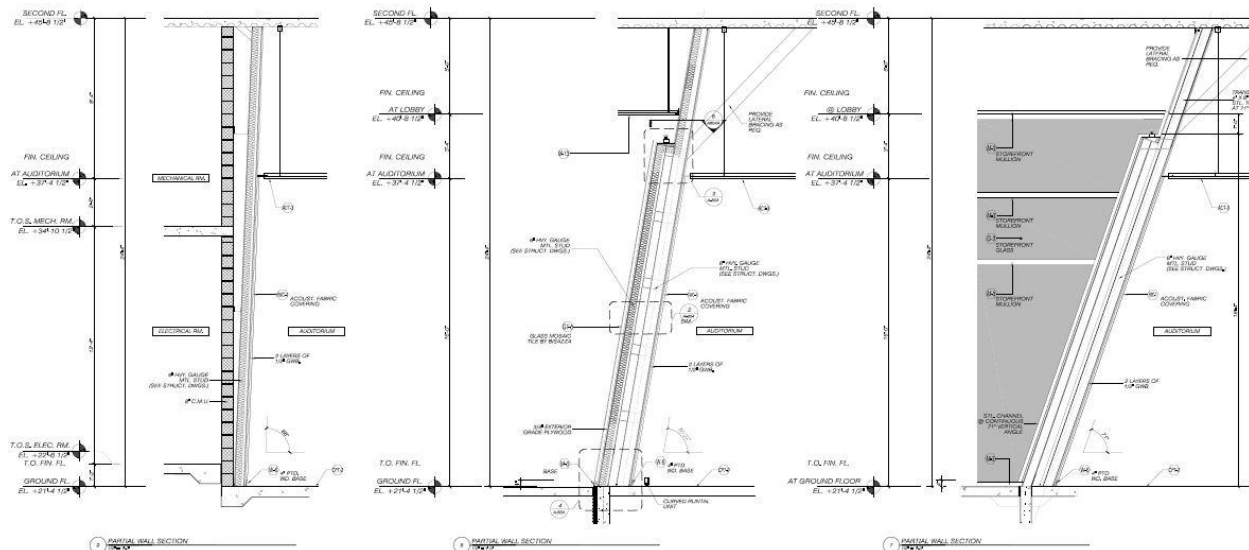


Figure 5: Auditorium Wall Sections

Lobby – Circulation Space



Figure 6: Lobby



Figure 7: Lobby

The lobby serves as the central hub of the building. The elevator lobby, conservatory, and auditorium are all located directly off of the lobby. A corridor on the second floor overlooks the double storied space. The space serves primarily as a circulation space, but there is a small seating area next to the vestibule. The lighting should provide good facial rendering because of the social interactions that will occur in the space. Visual tasks such as reading or writing may occur in the seating area. The lighting should be designed to orient visitors to the building. Visual tasks at the reception area will include reading, writing, and computer usage. The exterior wall of the auditorium is a key focal point and architectural element in the space and should be integrated into the lighting design. Figure 6 shows the seating area while Figure 7 shows the auditorium wall and the lobby as it stretches past the gift shop on the left. A floor plan of the space is shown in Figure 8. The lobby has a ceiling height of 19'-4" and a total area of about 5000 SF. Table 3 shows the materials and finishes in the space.

<i>Location</i>	<i>Material / Finish</i>
Ceiling	White Armstrong acoustical ceiling tile
Auditorium (East) Wall	Brown glass Bisazza mosaic tiles
Curtain (South) Wall	PPG Solarban 60 Low Iron glass
North Wall	Tempered Clear Low Iron glass for gift shop, wood paneling. Laminated etched glass railing along second floor corridor.
Reception (West) Wall	Beige/Pink polished sandstone, glass railing
Floor	Beige terrazzo with light brown Atlas Tessile carpet in the seating area

Table 3: Lobby Finishes

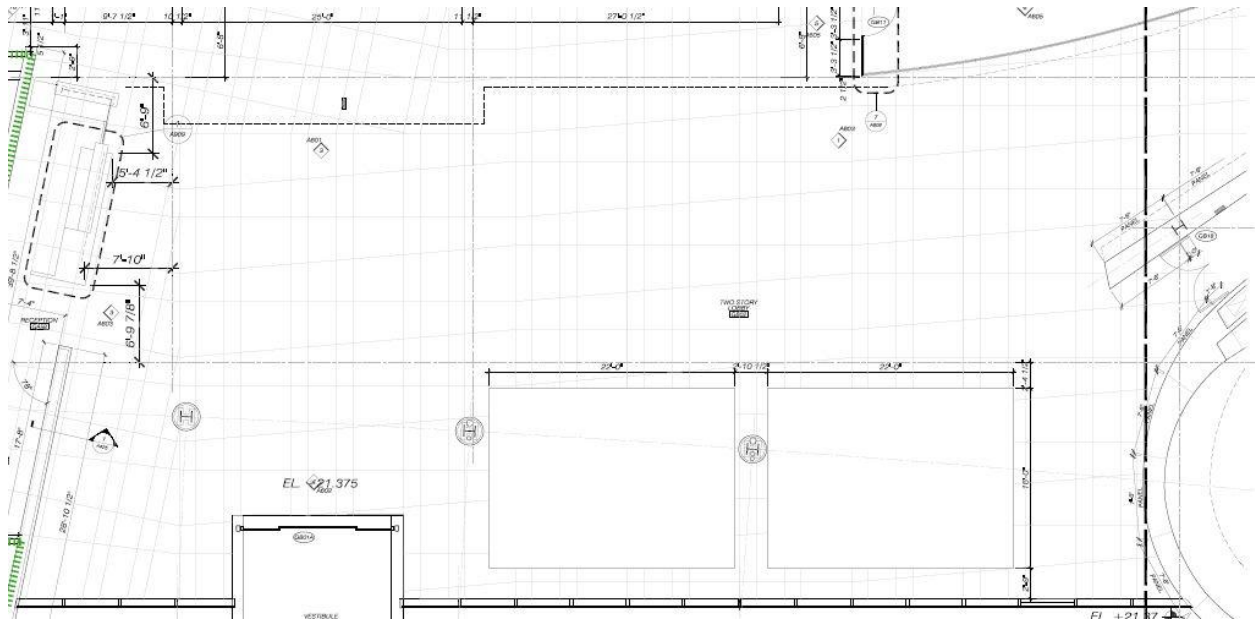


Figure 8: Lobby Floor Plan

Outdoor Space – Courtyard



Figure 9: Courtyard



Figure 10: Courtyard

The courtyard serves as an extension of the conservatory. The area functions primarily as a circulation space that connects the conservatory to the older sections of the hospital. A small seating area sits just outside the entrance to the conservatory. Visual tasks in the space are primarily related to circulation, so the lighting design should facilitate safe and easy movement through the courtyard. A landscaping plan for the courtyard is shown in Figure 11. The courtyard encompasses an area of about 14000 SF.

The surrounding exterior walls of the hospital are brick with some brushed stainless steel panels. The conservatory shell is composed of clear laminated glass. The ground of the courtyard is concrete with surrounding planters covered with grass. This space is also being considered for an architectural breadth topic, with initial ideas for brick pavers and the addition of small trees.

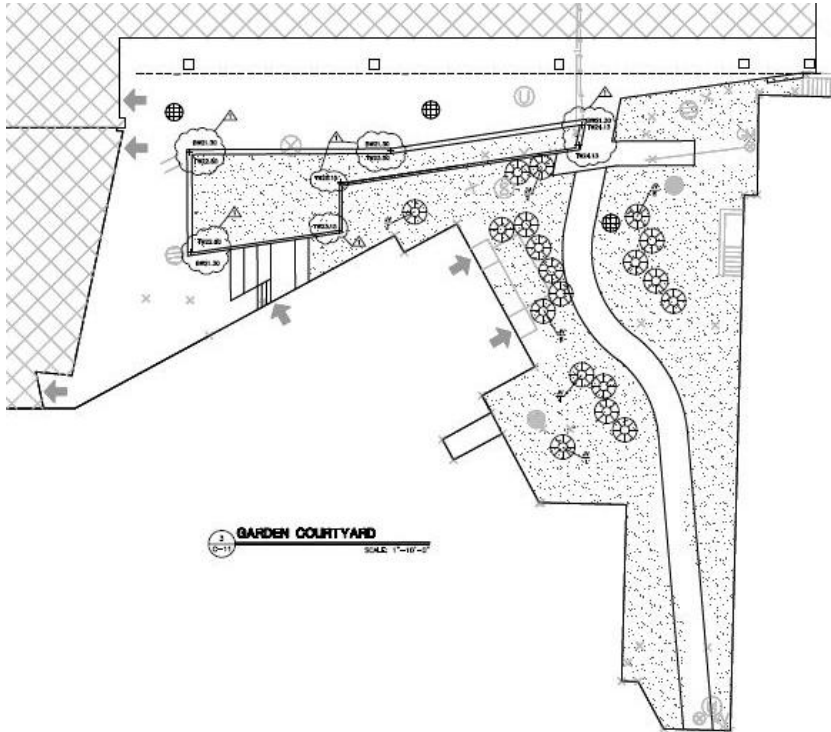


Figure 11: Courtyard Landscaping Plan