

IDEC STUDENT DESIGN COMPETITION

CONCEPT STATEMENT

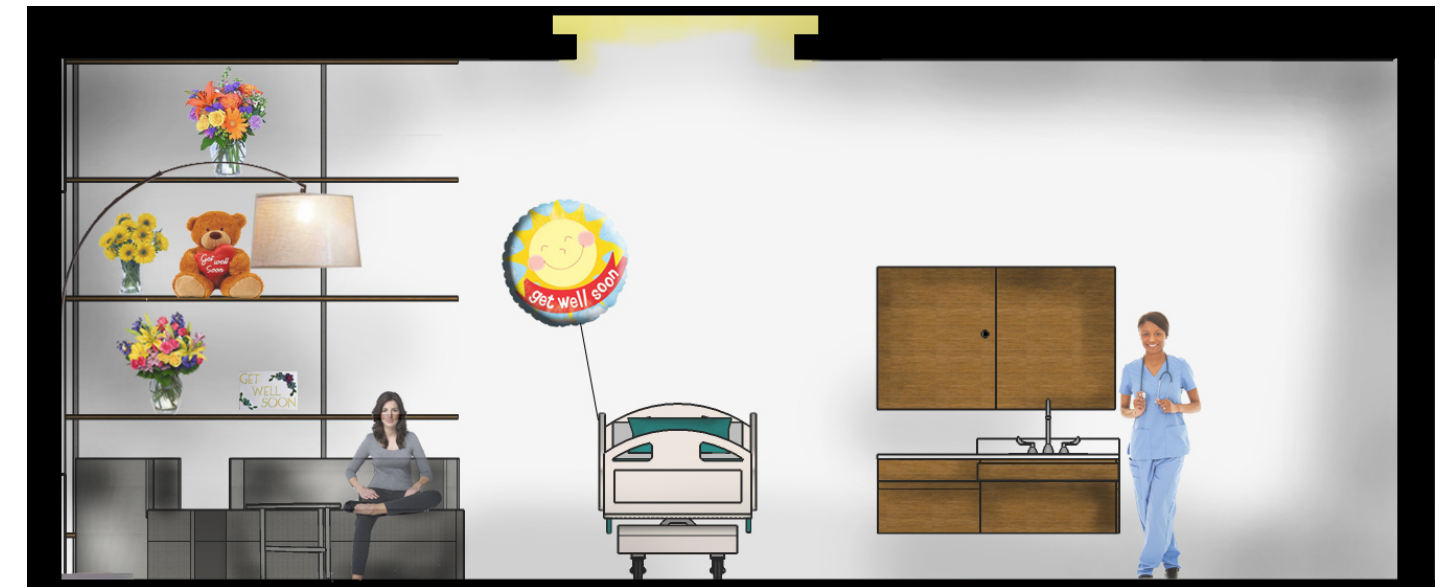
The concept for this pediatric healthcare environment is to create a visionary patient room that considers patient, family, and healthcare provider interactions. Incorporating family spaces within the patient room creates a more welcoming and comfortable environment for visitors. Mobile furniture creates transformative and mobile environments for individual preference enhancement. The family area will include a “kids’ corner” with an interactive wall for siblings to stay entertained. Innovative technology aids communication between doctors, nurses, patients, and visitors and is beneficial for all. As an example, technology can be used to bring the outdoors in and speed the healing process. Natural and organic motif designs promote and encourage patient health and healing. The lighting reflects the natural sunlight and is custom controlled by the patient and families for greater personalization. The use of sustainable materials and warm, cheerful colors promote both the patient’s health and happiness.

RESEARCH SUMMARY

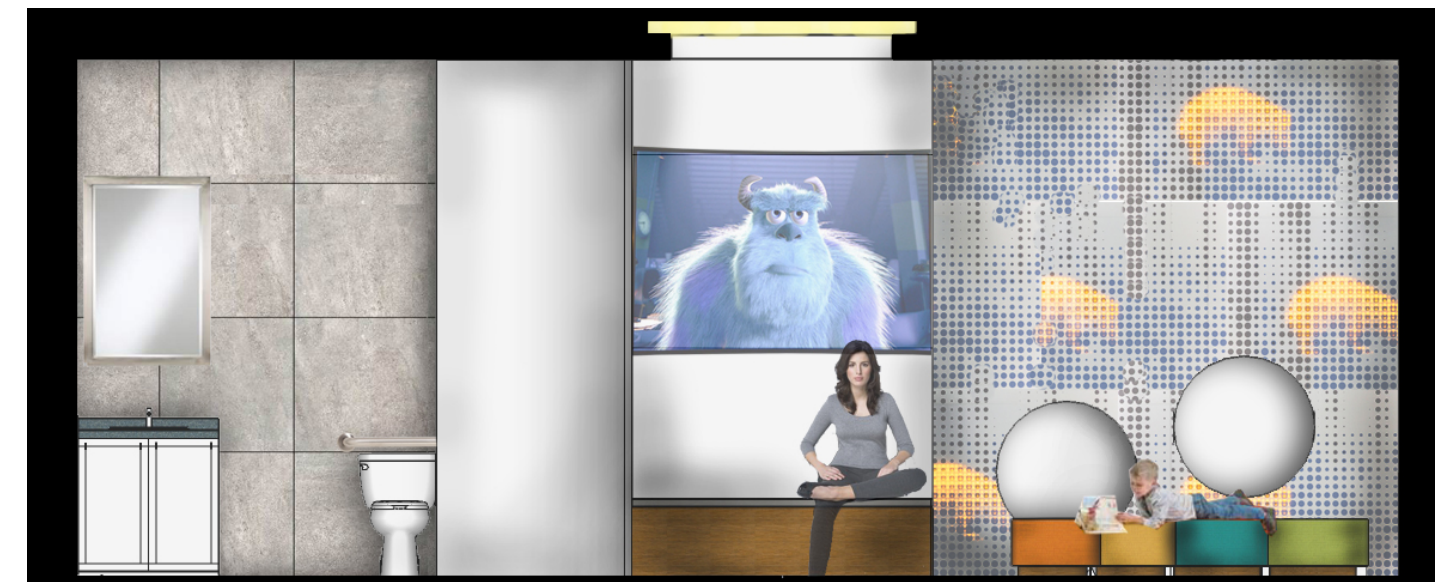
- Parental presence during hospitalization is emotionally beneficial for the parent and the child, yet the parental health and ability to act as an advocate for the child may be negatively impacted due to the loss of sleep. ⁴
- When parents room in with their children, nurses may be concerned that the families will be in the way and hinder safe access to the patient, or misunderstand information shared during rounds and change of shift. ¹
- Recent trends in healthcare design focus on improving the patient experience by addressing patient concerns and comfort. Homey environments and hotel-like services are becoming increasingly common. ²
- “Data from patients suggest preferences for homelike environments with views of nature and natural light.” ²
- The architects at a newly built hospital took an anti-hospital approach to design, embracing the idea that good architecture is an integral part of the healing process. They wanted to create a healing, inspirational, and intimate space. ²
- Tony Kelly, from Shore Health, believes sustainability creates healing environments that focus on the patient, providing efficiency and holistic care. Patients and staff value daylight and a connection to the exterior. ³
- Sustainability was incorporated in the design at Shore Health. Their findings: sustainability works. And, it’s improving care for patients and environments for staff, and bettering their communities while improving the bottom line. ³
- The first impression of Patient Room 2020 is a remarkable lack of clutter. The installation blends ease of use with an equally functional aesthetic. There are few obstructions or protrusions; the television monitor is embedded in the footwall. ⁵
- Patient Room 2020 is a decisive swerve away from high-end hospital rooms that masquerade as hotel suites or cabins on luxury cruise ships. There are no wooden panels or pastel-colored walls, just white rectilinear surfaces reflecting natural-looking light in wavelengths that evoke healing more than home. ⁵

CITATIONS

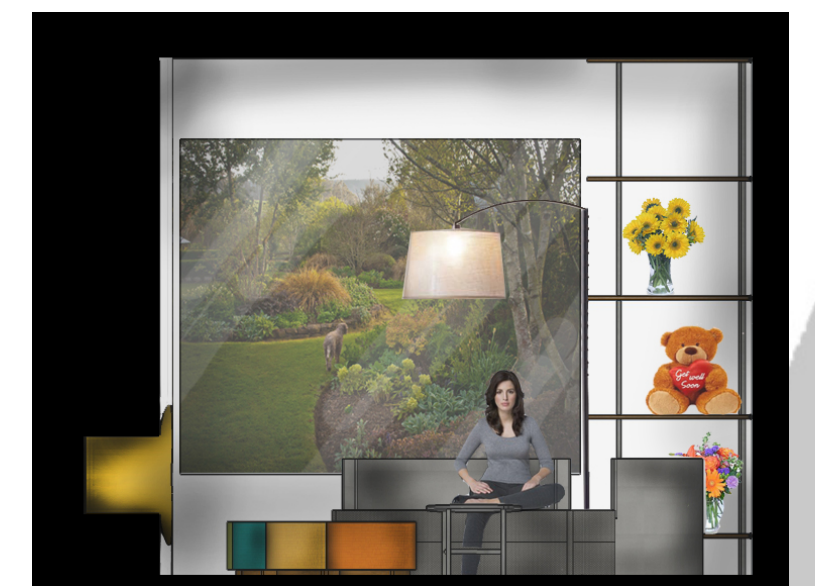
- ¹Abraham, M. & Moretz, J.G. Implementing Patient and Family-Centered Care: Part 1- Understanding the Challenges. *Pediatric Nursing*. 38, 44-47.
- ²Bromley, E. Building Patient-Centeredness: Hospital Design as an Interpretive Act. *Social Science and Medicine*. 75, 1057-1066.
- ³Gunsolus, Roy. "Improving Community Health Through Community Healthcare." *Healthcare Design Magazine*. 7 May 2013. Web.
- ⁴Meltzer, L., Davis, K., & Mindell, J. (2012). Patient and Parent Sleep in a Children’s Hospital. *Pediatric Nursing*, 38(2). 64-71.
- ⁵Shulman, Ken. "Healing Machine." *Metropolis Magazine*. May 2013. Web.



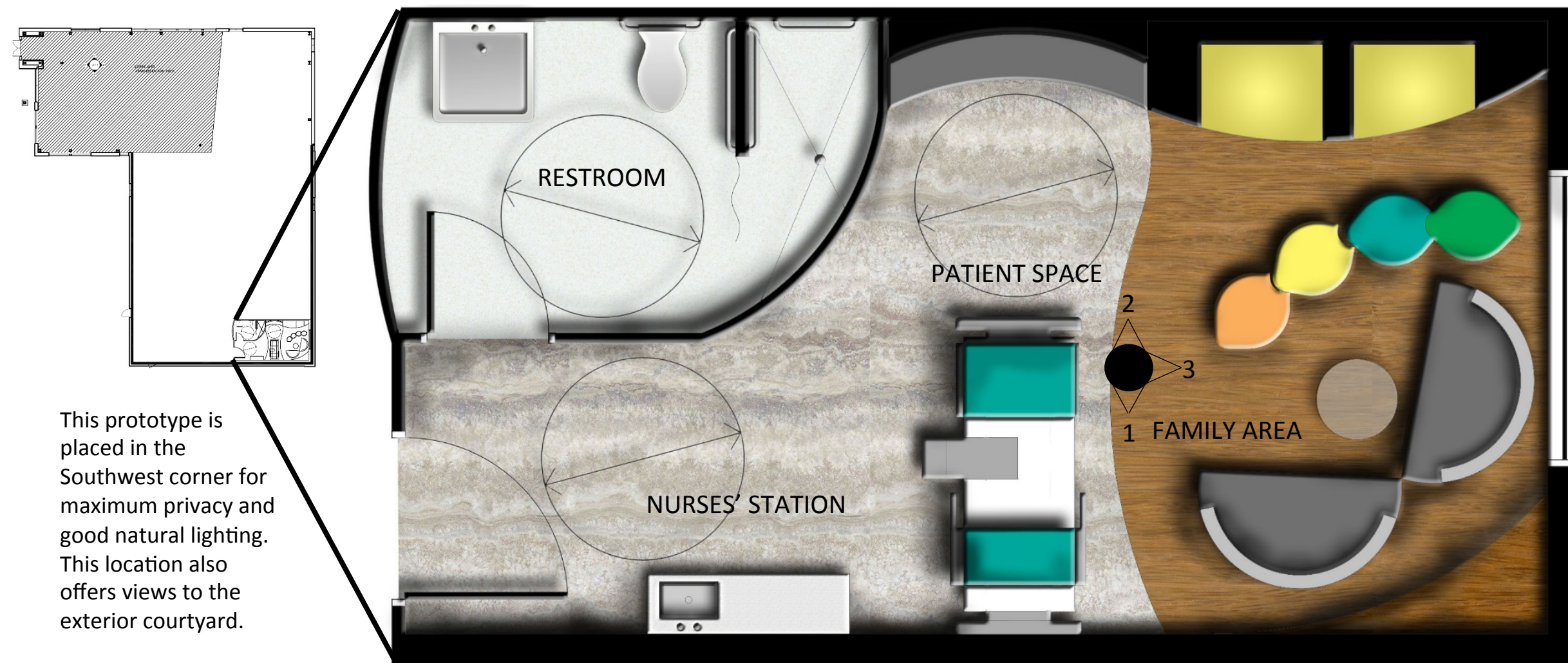
1 ELEVATION
Not to Scale



2 ELEVATION
Not to Scale



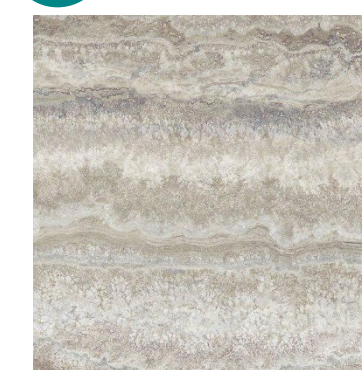
3 ELEVATION
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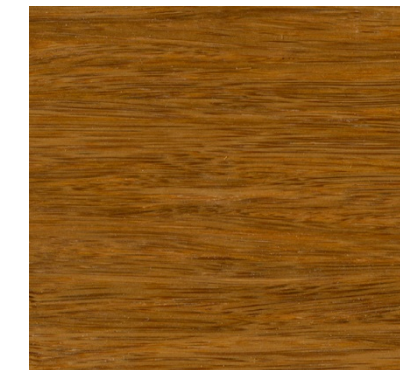
FURNITURE PLAN
Not to Scale

This prototype is placed in the Southwest corner for maximum privacy and good natural lighting. This location also offers views to the exterior courtyard.

Sustainable Flooring Materials



Ceramiccork –
Travertine



Standwoven
Bamboo - Dark



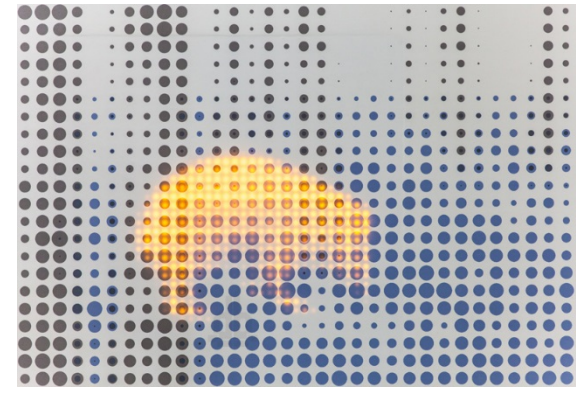
Armstrong –
Natural Creations

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LIGHTING CONCEPT

The patient lighting creates ambient lighting from a hidden source to reflect natural sunlight. The Winona curved recessed lighting in the family area reflects the organic and natural motifs and creates ambient lighting. The decorative hanging floor lamp gives a sense of homeliness, and provides task lighting for reading or other activities, while not disturbing the patient. Crestron lighting controls allow each of these fixtures to be custom controlled by the patient and families. They will be able to adjust the lighting to their own preferences, making the experience more comfortable.

Interactive screen wall allows children and adults to engage with the space.



Winona curved recessed lighting reflects natural designs and is controlled by family.



Hanging floor lamp adds a homely touch and creates additional task lighting.



PATIENT SPACE PERSPECTIVE

Sectional on lockable rollers transforms into a sleeping bed for rooming in parents.



Arc Com Eco-TEX Fabrics

Shelving allows for further personalization of the family area.



Screened ceiling allows for patient to bring the outdoors in and is adjustable to their preference.

Hidden lighting creates sunlight effect over patient bed.

Screen allows for entertainment, as well as nurse use to better communicate with the patient and family.



Leaflette bench allows children to move and rearrange the pods as they desire.



Arc Com Eco-TEX Fabrics

Interactive wall cut-outs allow for children to fully engage in the space and creates extra seating.



FAMILY AREA PERSPECTIVE

DESIGN GOALS

1

The solution will integrate a large family area to provide a more comfortable environment for family members to visit. The patient's space will have a "kids corner" as a result to engage siblings with an interactive wall and furniture.

2

The modular and interactive furniture will let the family members individualize the area for maximum comfort. The sectional seating is able to transform into a sleeping area for parents to room in with their child. The leaflette bench allows for siblings to interact with the playful furniture.

3

Innovative technology serves to make the patient room interactive and engaging. The use of screens allows for individualized nature ceiling, interactive children's wall, and also allow for stronger communication between healthcare workers, the patient, and family.

4

The sustainable materials will reflect the patient healing process and brings natural elements into the interior. The natural materials mixed with bright colors will create an encouraging and cheerful space.

5

The patient lighting is designed to create ambient lighting from a hidden source to reflect natural sunlight. The family lighting incorporates organic ambient lighting solutions, as well as task lighting, to allow for individualized control of the lighting levels.