Solid Rock PHYSICAL REHABILITATION CENTER

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Professor Mark Barnhouse

What is the correlation between physical, social, and emotional attributes?

Problem Statement

The physical environment changes due to the day-to-day behavior of people.

Theoretical Premise

Site



Site

Located in the Kenwood District of Duluth, Minnesota, this wooded site is approximately 100 acres in size. Located to the south is the United Health Insurance Group, and residential neighborhoods border the site on the east. Secondary roads provide access to the site.



Located north of the site is a ski clubhouse. There are a few man-made paths used for cross country skiing and hiking. (Upper Right)









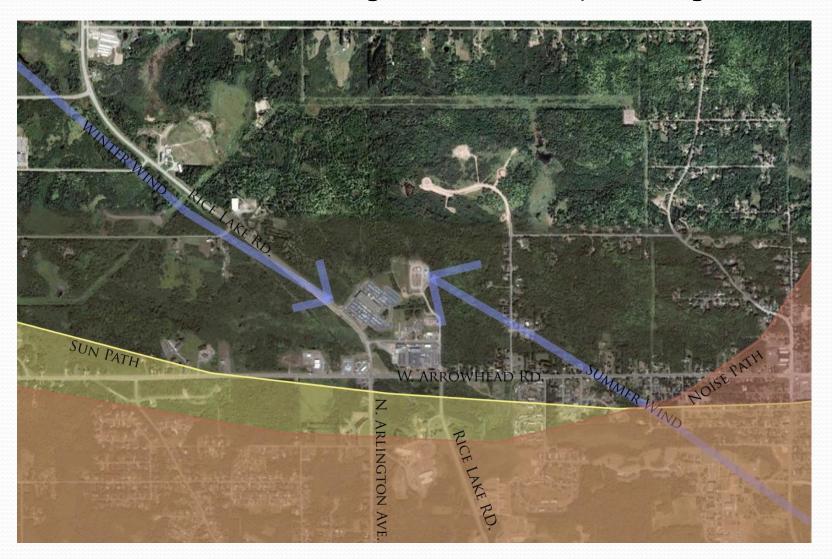
There are a few dead trees, but overall the site is densely filled with vegetation.





Sun, Wind, & Noise Directions

Varying vegetation height on the site blocks some wind, sunlight, and noise from penetrating into the site.



Site Sections





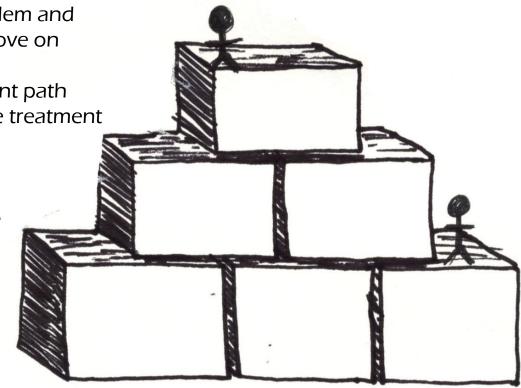
East to West Site Section

Three steps to the overall healing process

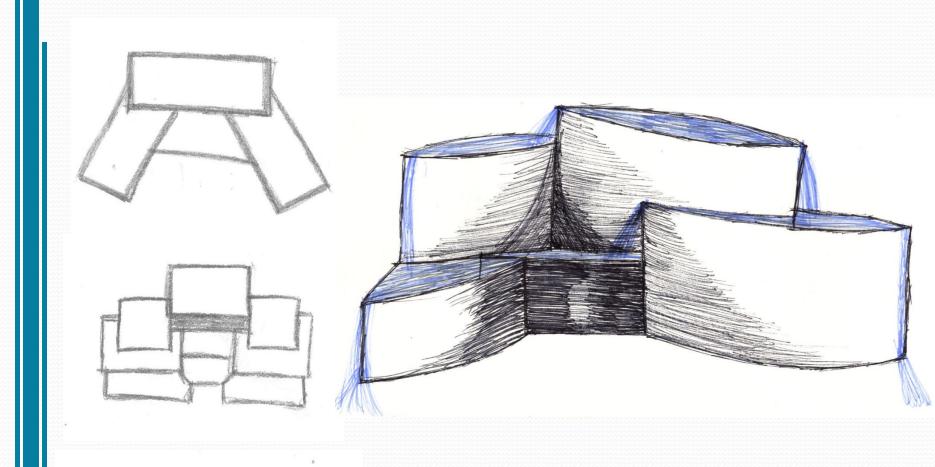
■ 1 – Accepting there is a problem and wanting to overcome it to move on

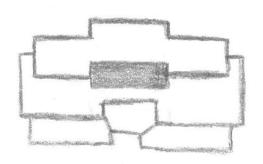
 2 – Finding the right treatment path and going through the entire treatment process to heal

 3 – Moving on with life after treatment and living with the impairment

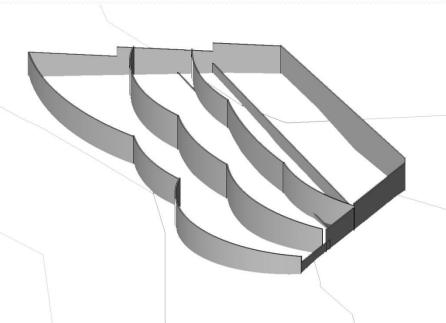


Healing Process



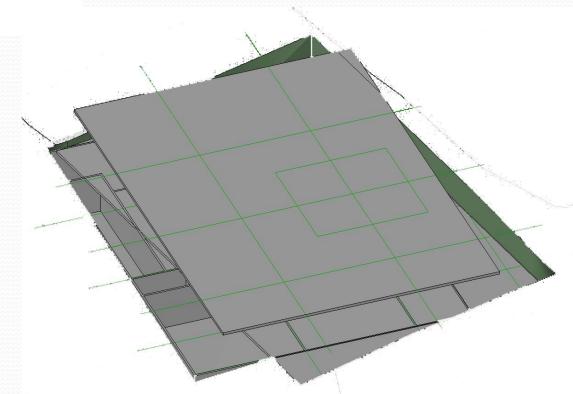


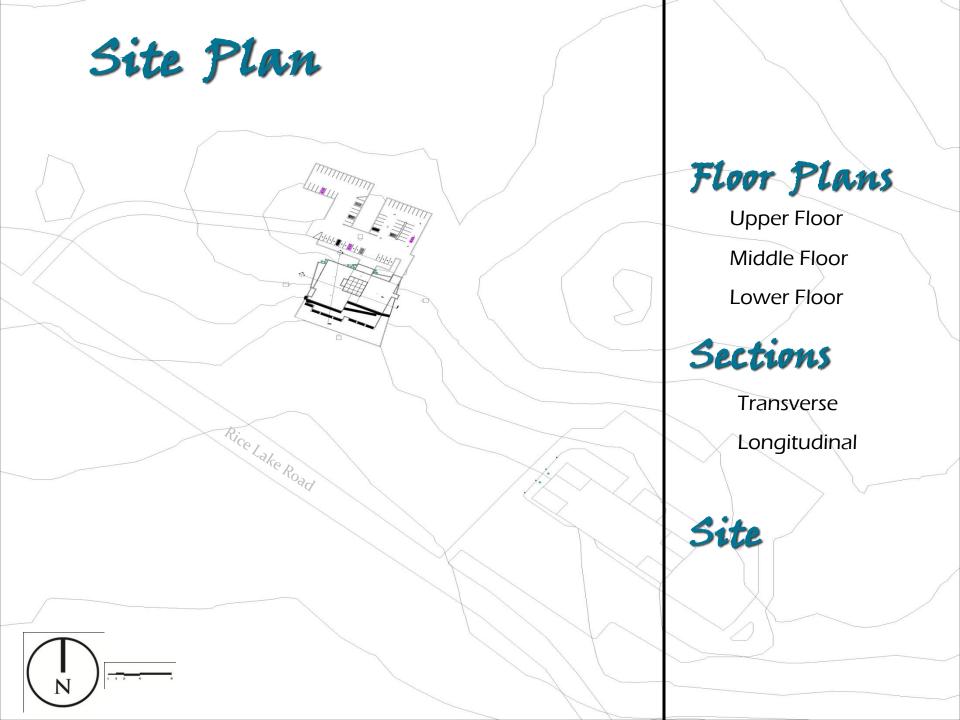
Design Process

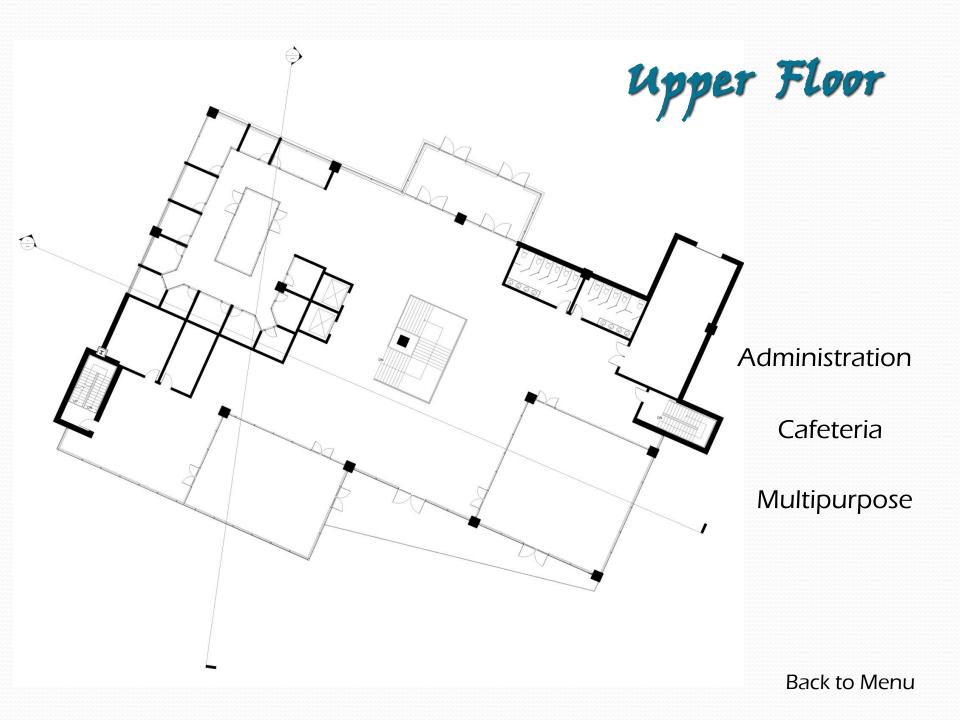


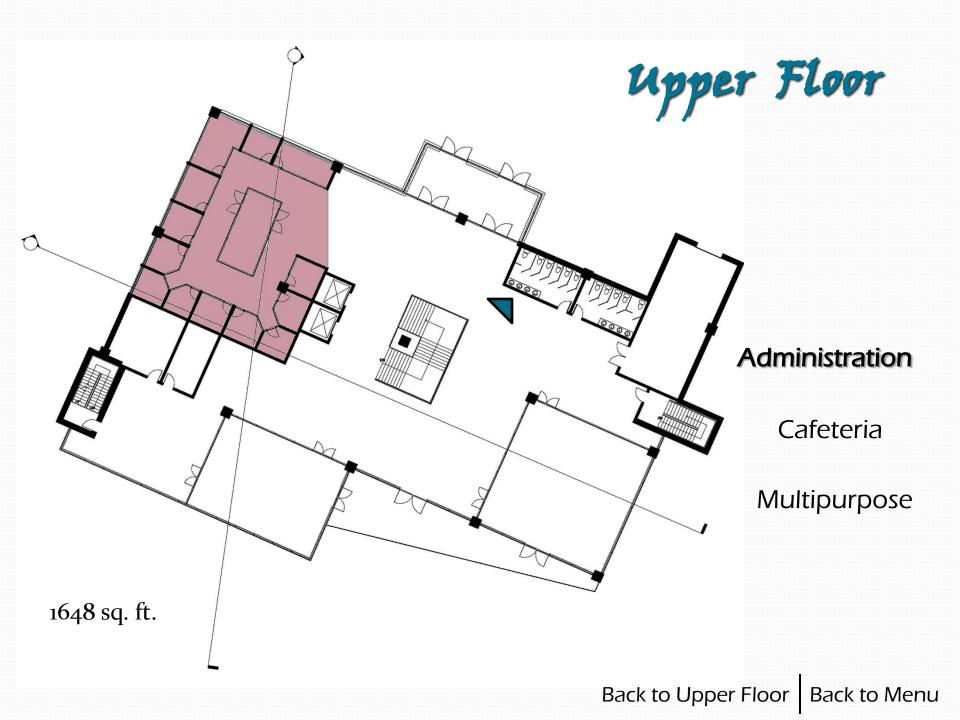
The initial design had more of an organic shape to follow the topography of the site. The process developed into a more structured design following the forms of treatment provided.

Organic to Structured



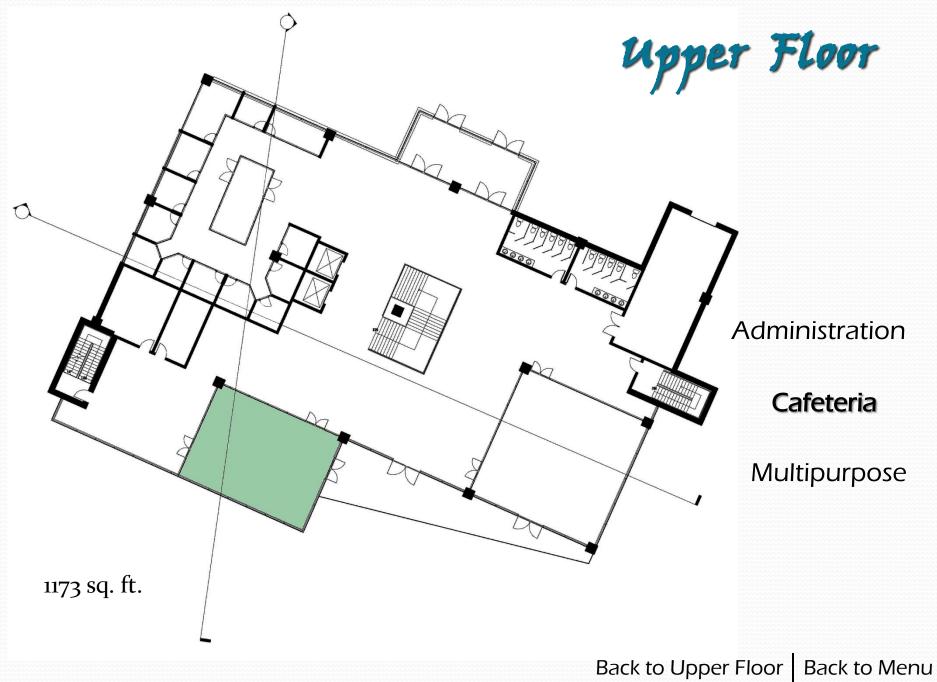


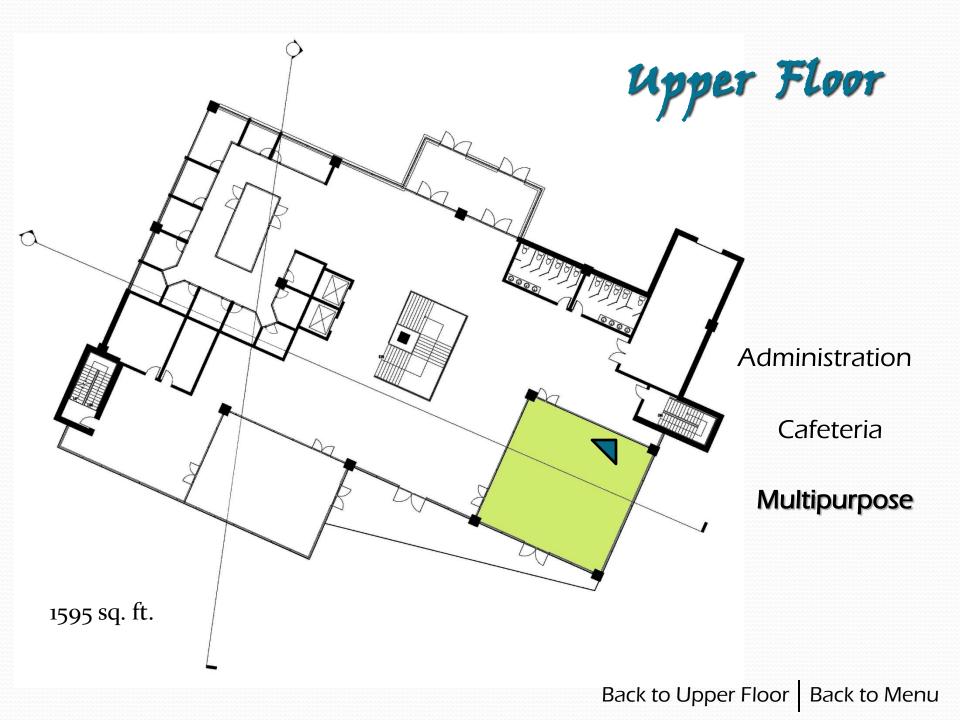




Entrance Lobby







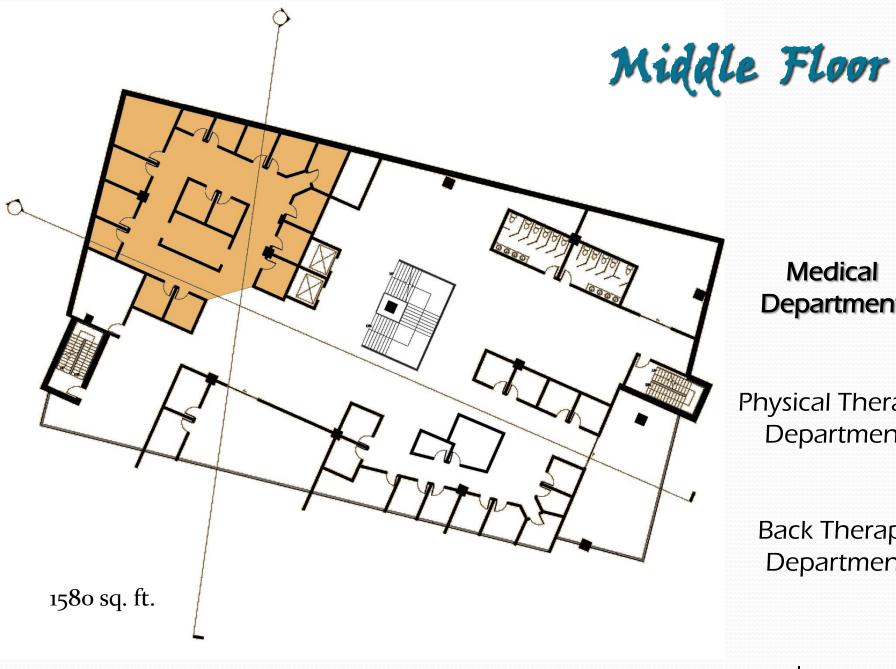
Multipurpose Space





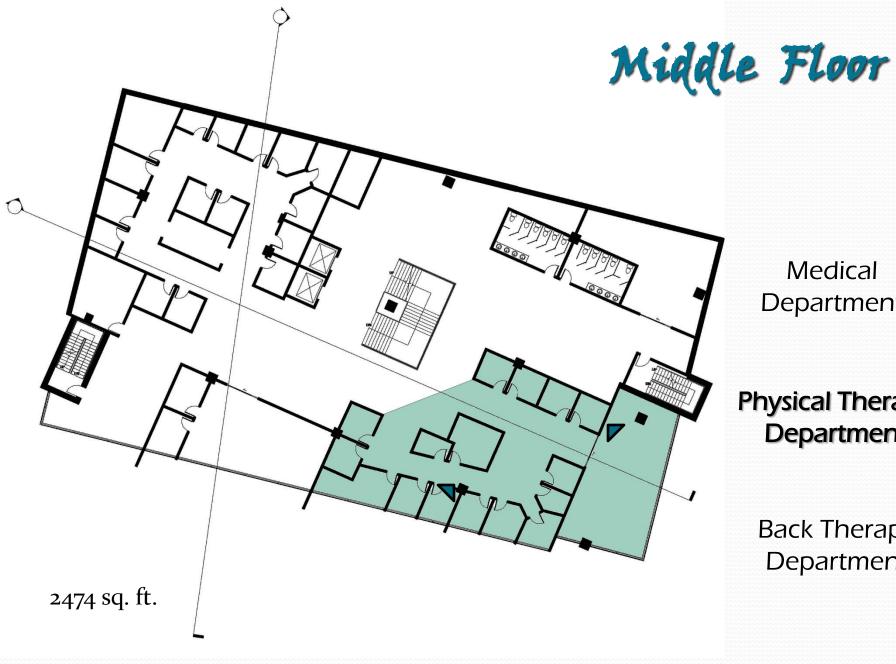
Physical Therapy Department

> **Back Therapy** Department



Physical Therapy Department

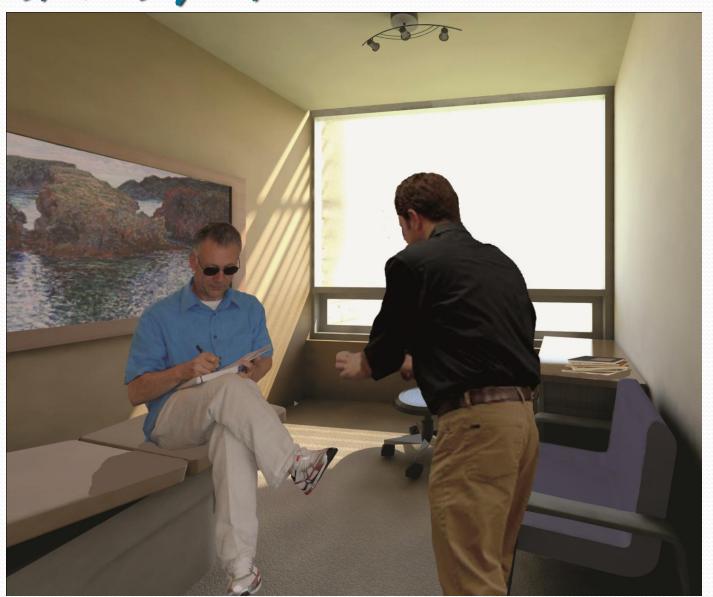
> **Back Therapy** Department



Physical Therapy Department

> **Back Therapy** Department

Treatment Room



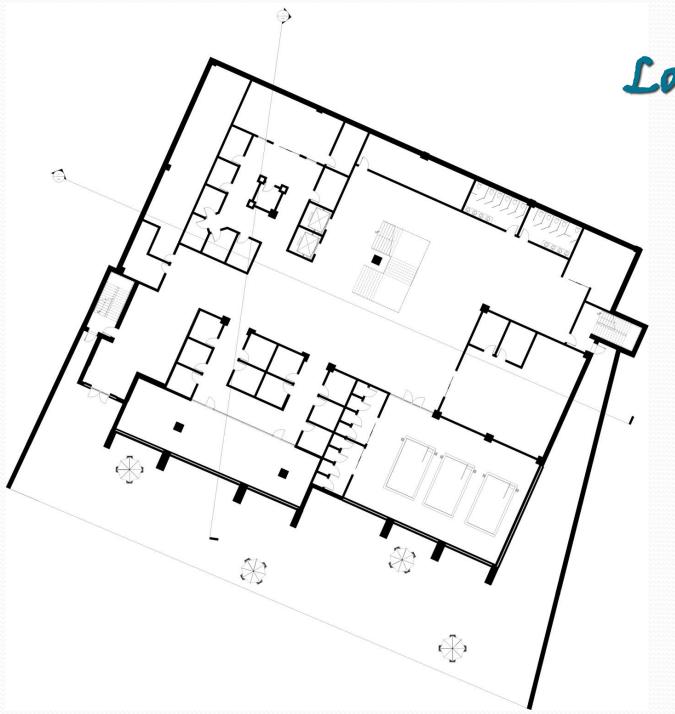
Group Treatment Space





Physical Therapy Department

Back Therapy Department



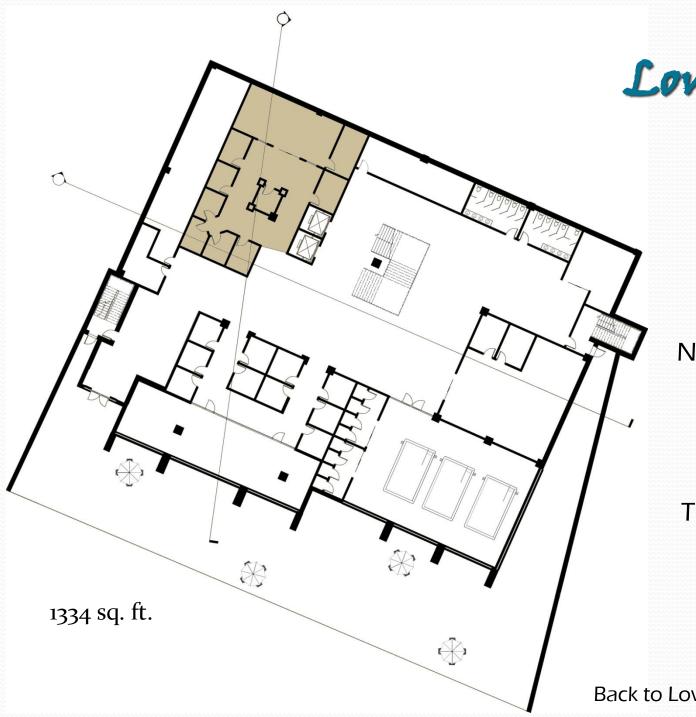
Lower Floor

Sports Therapy Department

Neurological Therapy Department

Occupational Therapy Department

> Aqua Therapy Department



Lower Floor

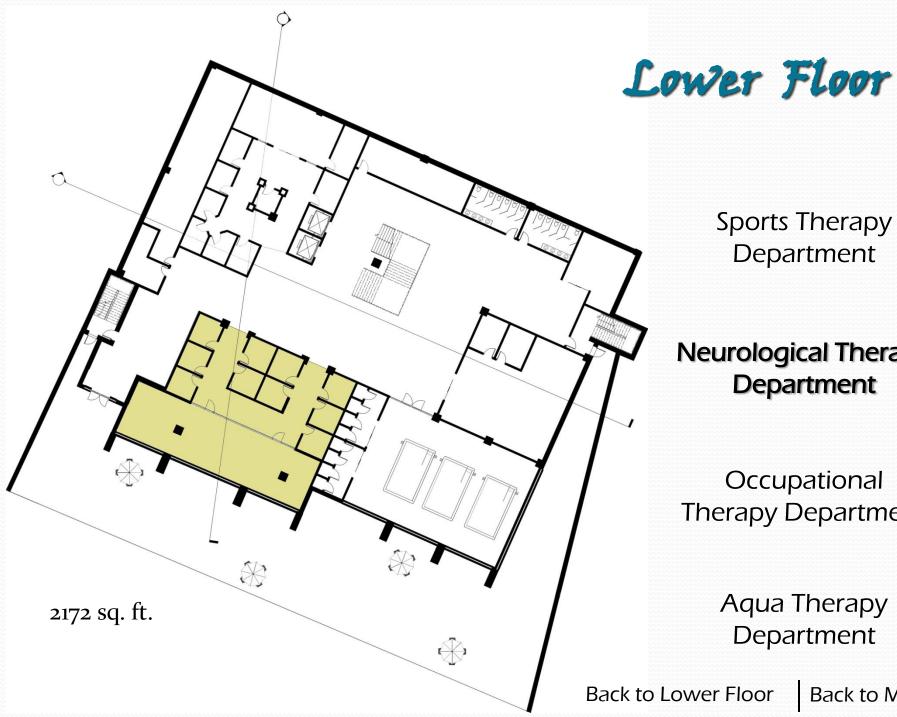
Sports Therapy Department

Neurological Therapy Department

Occupational **Therapy Department**

> Aqua Therapy Department

Back to Lower Floor Back to Menu



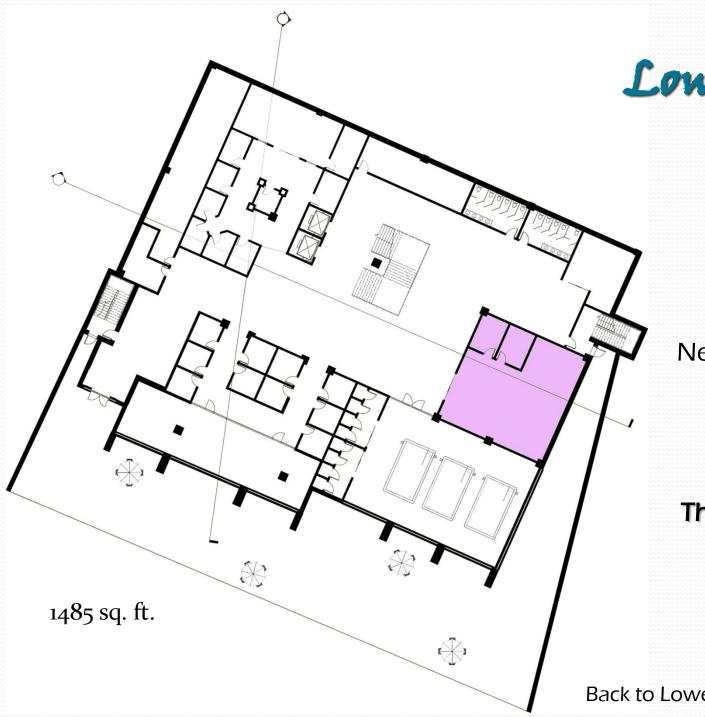
Sports Therapy Department

Neurological Therapy Department

Occupational **Therapy Department**

> Aqua Therapy Department

Back to Lower Floor



Lower Floor

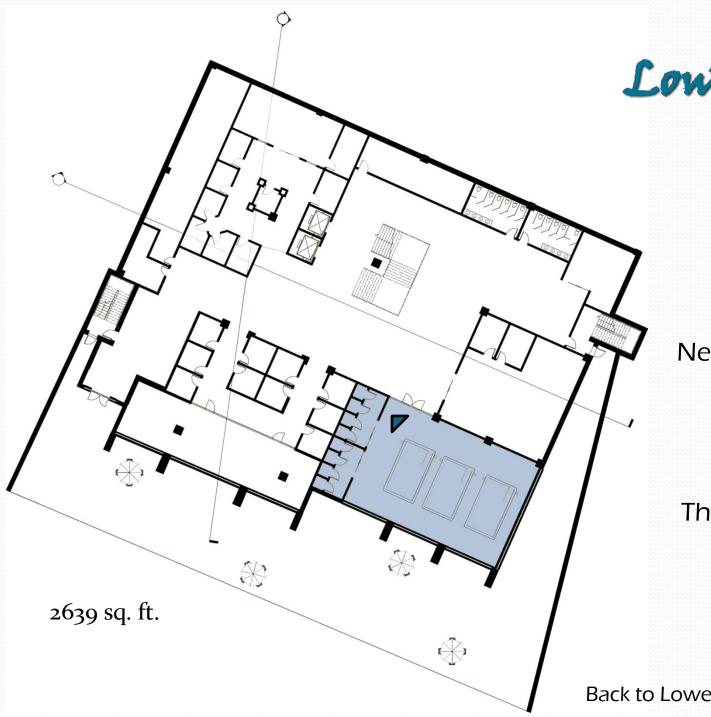
Sports Therapy Department

Neurological Therapy Department

Occupational **Therapy Department**

> Aqua Therapy Department

Back to Lower Floor



Lower Floor

Sports Therapy Department

Neurological Therapy Department

Occupational **Therapy Department**

> **Aqua Therapy** Department

Back to Lower Floor

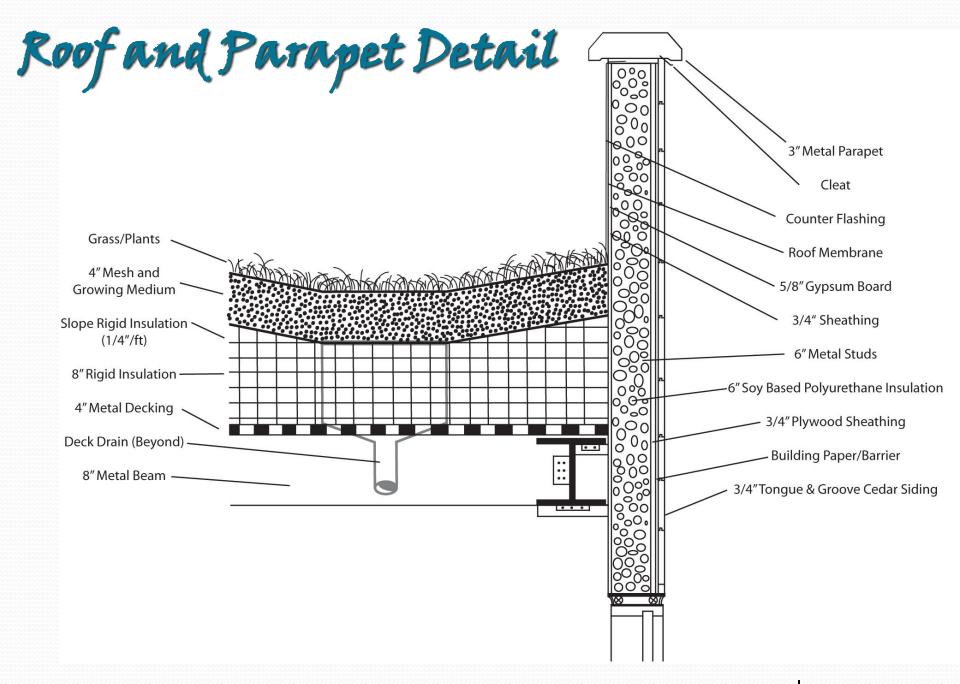
Agua Therapy Pools



Administration Department	1648 sq. ft.
Cafeteria	1173 sq. ft.
Multipurpose Space	1595 sq. ft.
Medical Department	1580 sq. ft.
Physical Therapy Department	2474 sq. ft.
Back Therapy Department	1062 sq. ft.
Sports Therapy Department	1334 sq. ft.
Neurological Therapy Department	2172 sq. ft.
Occupational Therapy Department	1485 sq. ft.
Aqua Therapy Department	2639 sq. ft.
General Public Support Spaces	31052 sq. ft
	48975 sq. ft.

Transverse Section



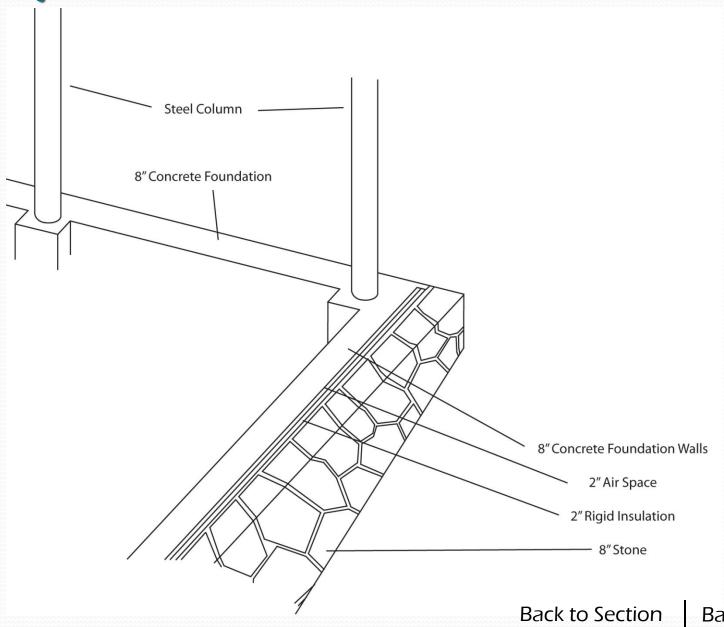


Longitudinal Section

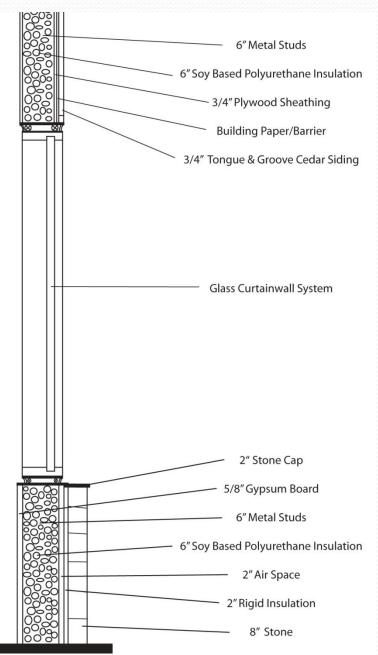


Foundation Detail Wall Detail Back to Menu

Foundation Detail



Wall Detail



Back to Section



Approaching from Driveway

South Elevation

Lower Exterior Patio

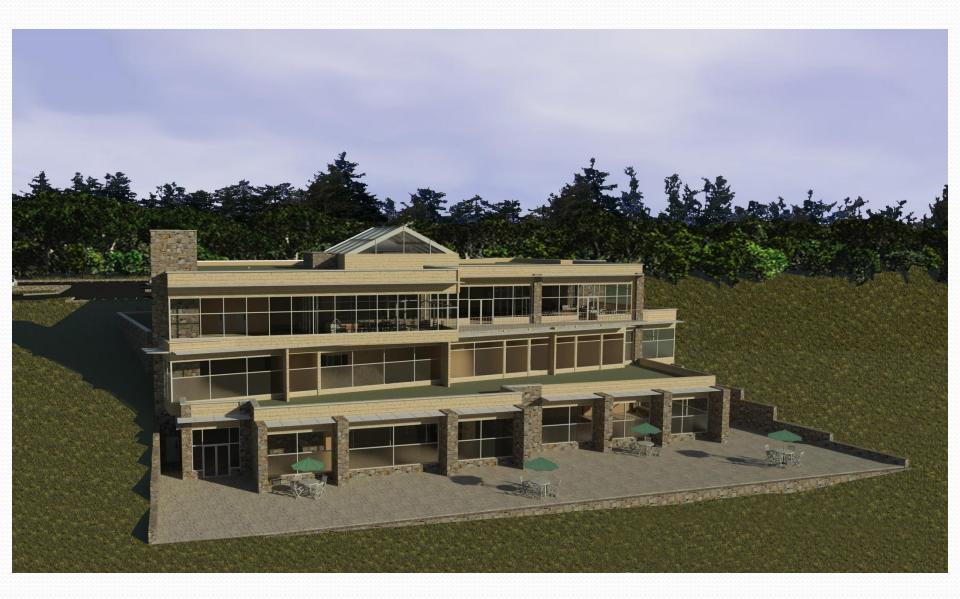
Entrance



Approaching from Driveway



South Elevation



Lower Exterior Patio



Entrance



Back of Parking Lot



Solid Rock Physical Rehabilitation Center

