

Elizabethtown College Wellness Center Proposal Team Members: Zachary Karasek, Parke Martin, Ryan Shirk

Problem Statement

Elizabethtown College is looking to expand their wellness facilities. Our project was to propose a design for a new wellness facility that embodied mind, body, and spirit.



Floor Layout



Floor plan area is 500x250	feet
Lobby space of 3000 squar feet	~е
86.400 square foot space t	hat
contains an indoor track, 3	
basketball courts	
2400 square foot weight roo	om
2800 square foot sports	
medicine facility	
2800 square feet of storage	Э
space	
900 square foot class room	1
4500 square feet devoted to	0
atudant wallnaa	



Site Location

	Thompson Gym	Potwoon Soccor and Lacrosso Fields	Pobind Soccor Field	Off Compute Location
Workable Land	-			
New Renovations	-	+	_	+
Space Needed	-	+	+	+
Accessibility	+	+	+	-
Aesthetics	-	-	+	-
	1	4	4	3

One of the main aspects of this project was choosing a location for this facility. After analyzing all of our options we chose to place the facility above the soccer field where the softball field is located. The Pugh table to left depicts our thought process. It displays the main factors in this decision.



Sustainable Features



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+

of Installme

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When looking at the results of the pue table we came to the conclusion that roofs all had good however they all had some sort of fault with them. With so much space on the roof we decided to choose two of roof designs and use them both for the building. Green Roof:

- This will allow use to collect and use rainwater for the buildings pluming
- This will also provide insulation for the main room in the building Solar Shingles:
- This will help with providing energy for the building along with providing aesthetics

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Geothermal heat is a great option for a building like this. It takes advantage of the earth's constant core temperature, using it to heat and cool the building. These systems will save the school a lot of money that would have been spent powering a traditional HVAC system.