



University of Pittsburgh Master Plan Recreational Center

The Reck'n Crew

Spring 2019



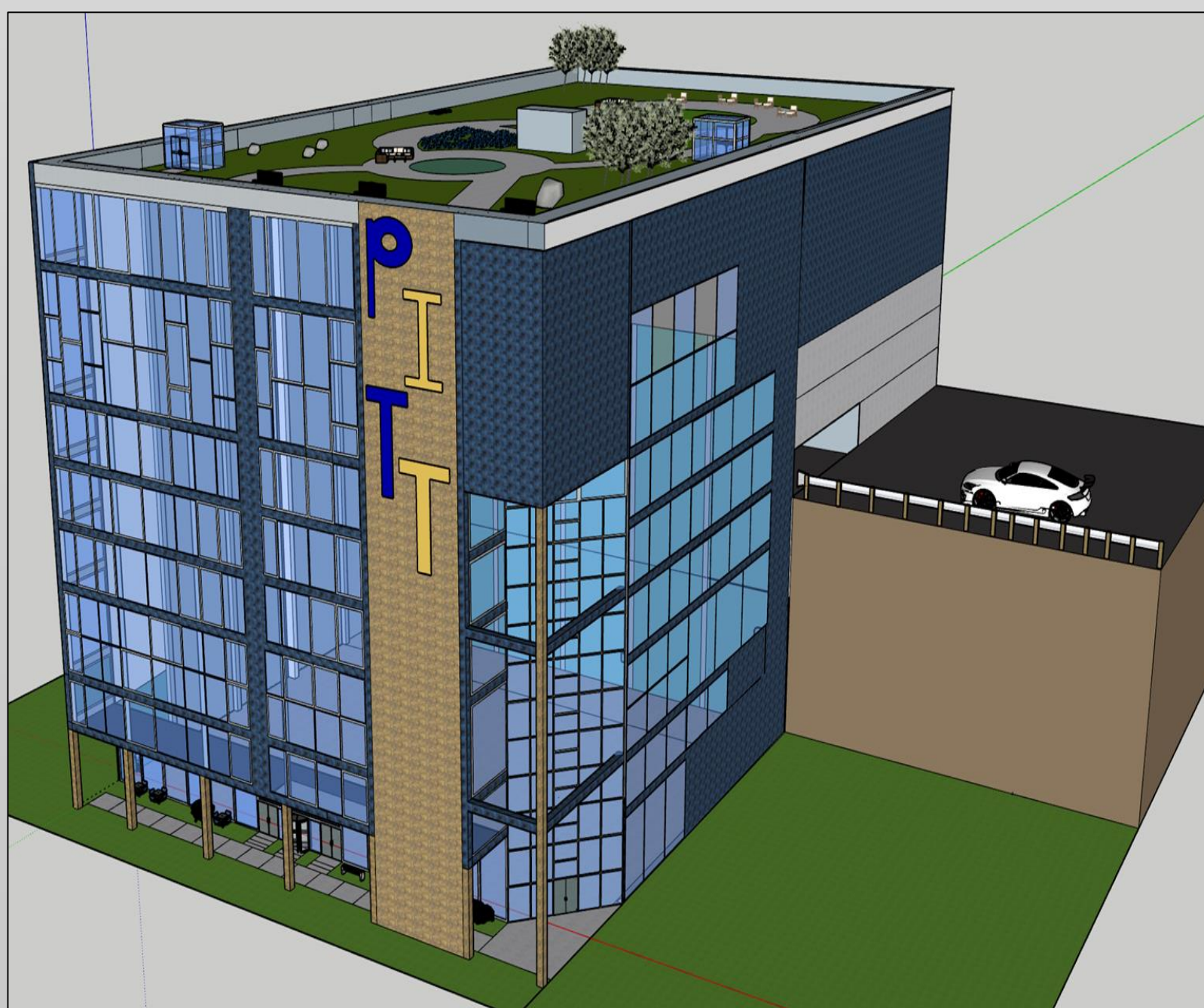
Our Team



- | | | |
|--------------------|---------------------------------|----------------------|
| Structural: | Construction Management: | Geotechnical: |
| Nate Buettner | Michael Donato | Gustavo Cardona |
| Chase Rogers | Kate Lundy | |
| Alexa Silverman | James Suszynski | |
| Cassandra Valcourt | | |

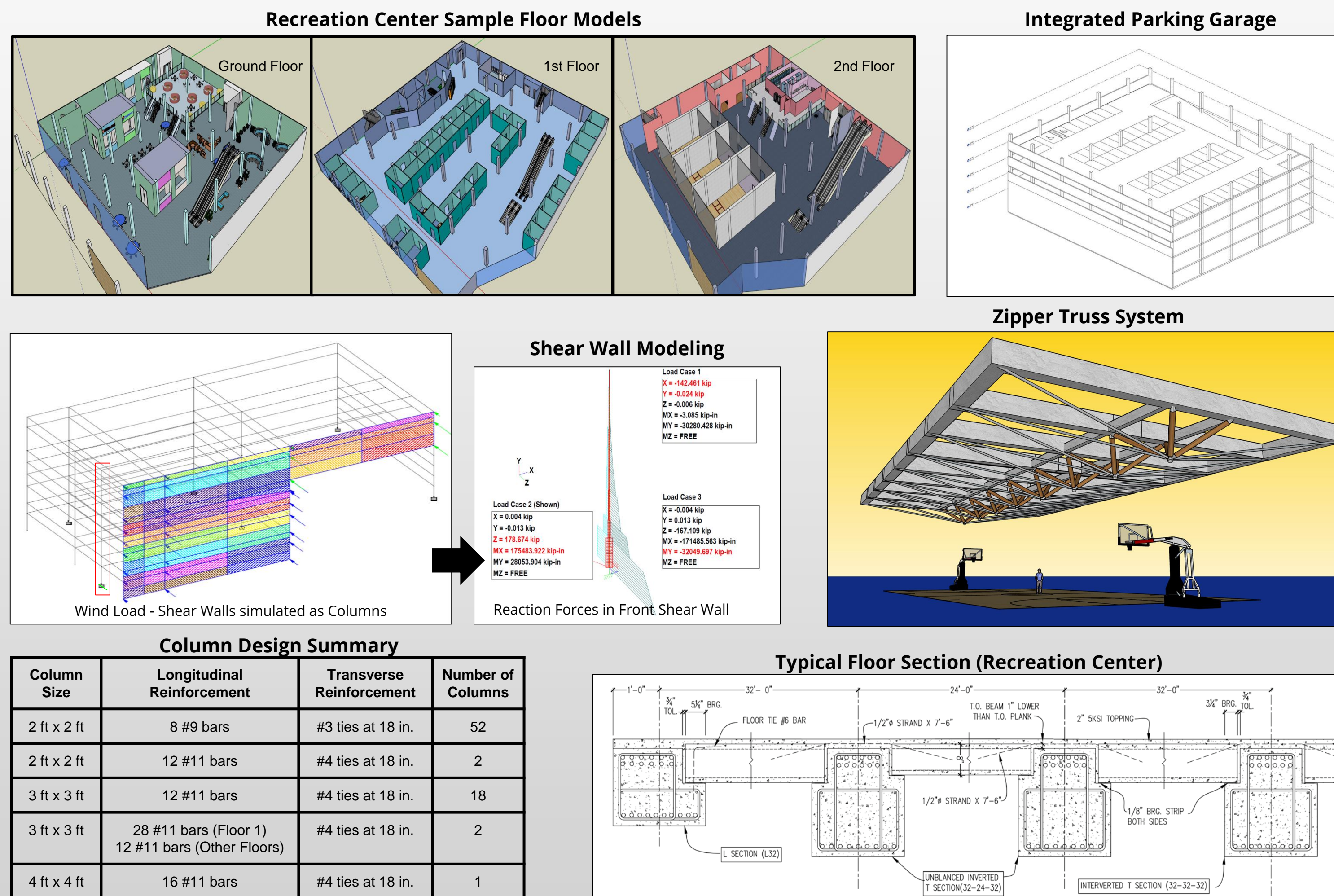
Project Description

A major goal of the University of Pittsburgh's Campus Master Plan is to provide a more centralized recreation facility and form a connection between upper and lower campus. This recreation center sits on the site of the current O'Hara Parking Garage and meets both needs and more. It will provide much-needed dining options and study spaces in addition to state-of-the-art fitness facilities throughout this architecturally stunning, 8-story structure.



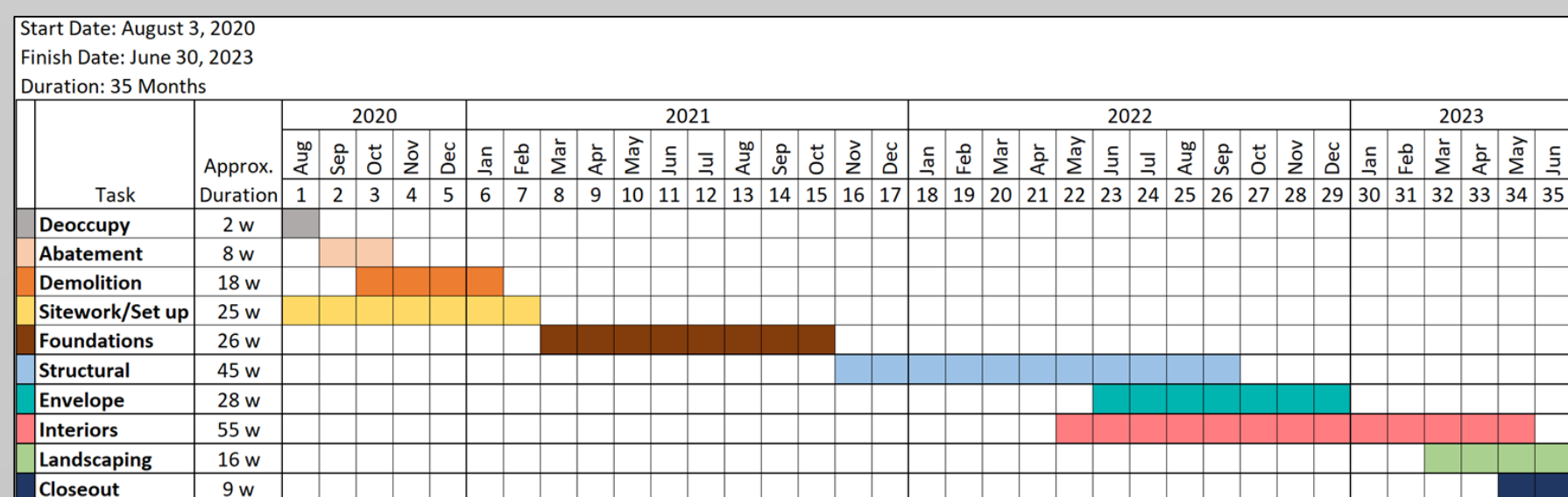
Structural

The Structural Team's scope included the design of floor slabs, beams and girders, columns, shear walls, and the long span zipper truss system. These structural components support the integrated recreation center and parking garage. The architectural features of the recreation center were also a major part of the structural team's scope, and detailed floor layouts were created to illustrate the overall program of the building. Stakeholder input was a driving force behind the chosen features.

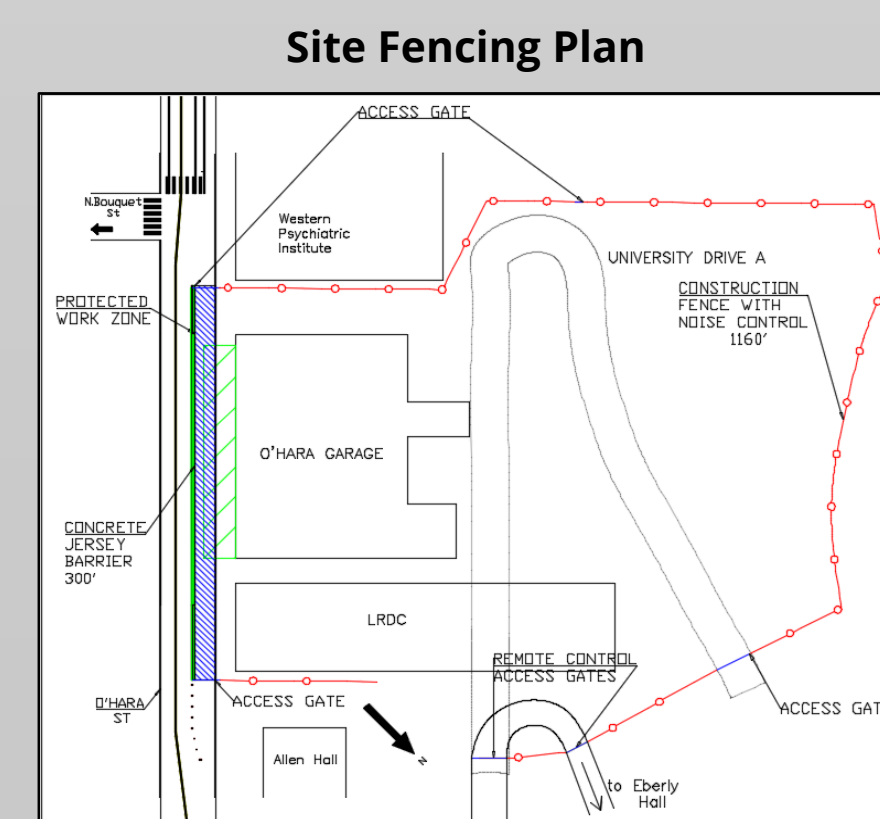


Construction Management

The Construction Management team had a broad scope encompassing everything from pre-construction to closeout. Summaries of the comprehensive schedule and cost estimate are shown. Additionally, the team created in-depth health and safety, risk management, phasing, site layout, maintenance and protection of traffic (MPT) and demolition plans. Techniques used to complete these tasks included historical data taken from past recreation center projects, building demolitions and University of Pittsburgh new-construction jobs. The schedule was created using P6 Primavera software and all drawings/models were prepared with AutoCAD.

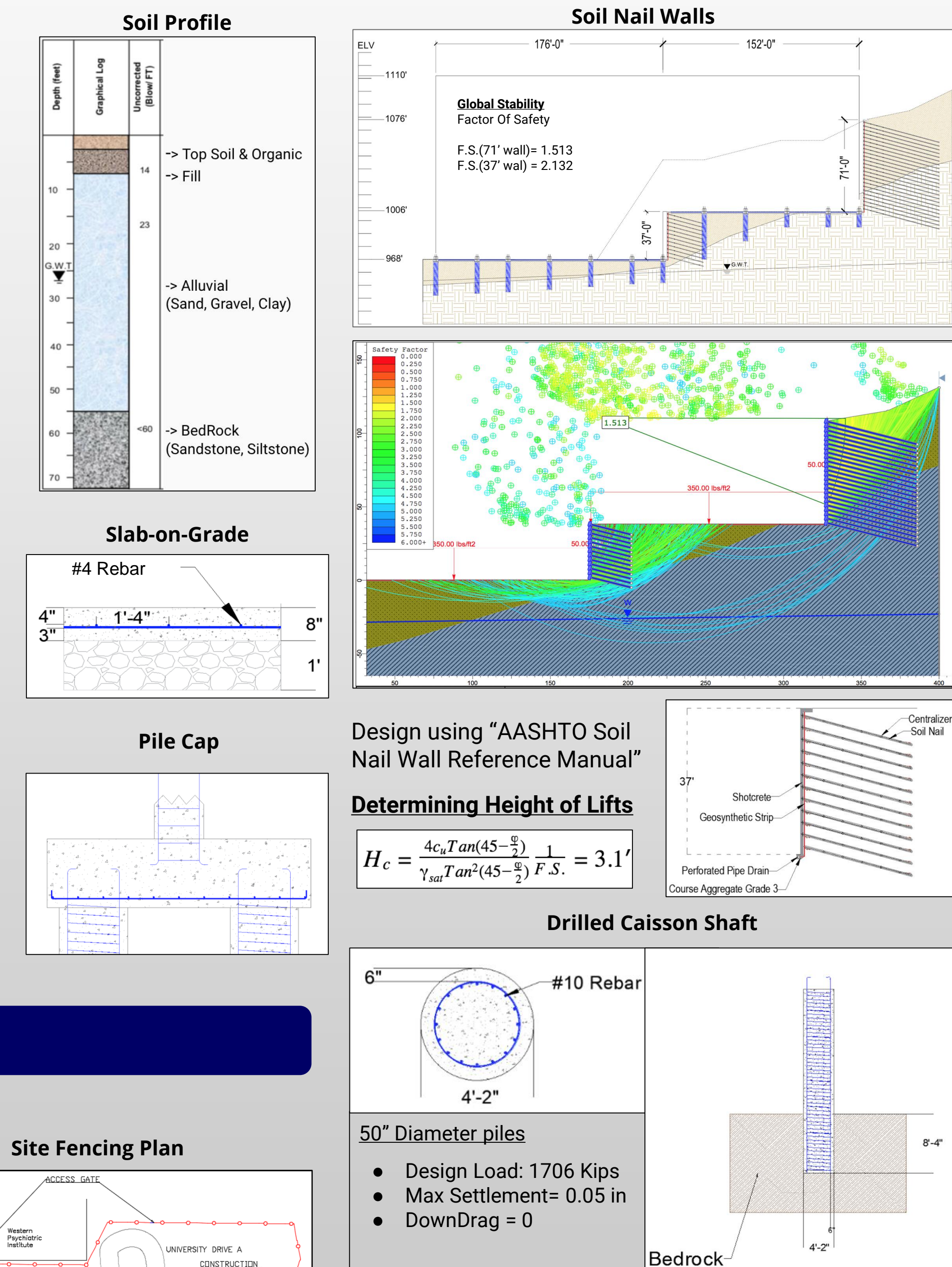


Summary	Cost
Labor (+20%)	\$67,567,981.75
Materials	\$53,641,625.42
Permits	\$1,799,590.00
Equipment/Other	\$30,692,955.00
Sub Total	\$153,702,152.17
Bonds/Insurance (1.5%)	\$2,305,532.28
Contingency	\$9,805,000.00
Profit (3%)	\$4,611,064.57
Total	\$170,423,749.02



Geotechnical

The Geotechnical Team was responsible for the design of all foundations, soil-nail retaining structures, structural slabs-on-grade and completing an in-depth soil analysis to ensure that the construction of the recreation center began on solid ground.



Acknowledgements

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- Dr. Andrew Bunker
 - Dr. Kent Harries
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