

BYU ENGINEERING

Civil & Construction Engineering

CAPSTONE

Project Status Report: CPST-0 04

Weekly Mtg: Friday at 1:00

Team Members: Drake Church, Saylor Wilson, Brian Sawcroft

Project Title: Times and Seasons Building Platform

1) Summary of technical/non-technical challenges encountered

- We had a challenge trying to design the connection of the helical piers to the platform beams. The reinforcement in the beam is in the way.
- It may be necessary to redesign one of our beams because it is too big.

2) Team approaches & resolutions to overcome challenges

- We consulted with our mentors and determined how to properly reconfigure the reinforcement to allow for the helical pier connection.
- We are also going to change the type of concrete we use to a higher strength to allow us to use a smaller beam that will accommodate the architect's desired floor plan.

3) Status of challenge resolutions & potential project impact

- In the process of redrawing the new rebar configuration in our beam.
- Currently resizing the beam with different concrete to decrease the size.

4) Project status & summary

- We are really close to the end. Just need to finish redrawing some of the details in our revit model.
- We also to add annotations and general notes to our drawings to help better communicate our plans.

Please enter # of hours spent on project this last week for each team member in the order listed above

3/25/2024

Member #1: 3

Member #2: 3

Member #3: 3

Member #4:

Member #5: