Nelson, Kyle B.

From: Nelson, Kyle B.

Sent:Friday, January 22, 2016 7:43 AMTo:ProjectManager@HenselPhelps.comSubject:RLC Elevator Design Evaluation

Hey (Project Manager),

I wanted to follow up with you regarding one of our design change concepts involving the added elevator to the RLC room. Per your request I have given the idea some thought and research and wanted to provide my opinion regarding whether or not we should formally present this to the owner as one of our requested design enhancements. I have attached some rough concept sketches to help visualize the concept.

The idea of adding a two story elevator on the west side of the building is doable. From a budget standpoint, the fact that it is a 2 story elevator would allow as to use a hydraulic elevator and avoid the need for a more expensive traction elevator and possible machine room. From a conservative cost standpoint plan on \$100K.

From a schedule standpoint the biggest concern would be turning this concept into a finalized design in time to get approved plans and foundations in the ground so as to not interrupt the timing and sequence of our foundation pours that we already have design packages for. Given that we will be using a Hydro elevator, there will definitely be a need for deeper pit for the jack and casing. Other that, I don't see any other schedule concerns for us this early in the game.

In regards to constructability, this obviously wouldn't be the first time we have seen an elevator like this. The primary concerns I have with an exterior elevator involve water infiltration. We are taking on some risk adding a standalone elevator that will be completely outside of the building envelope. That is something to consider.

In the end, I don't think the question is whether we can do something like this. I believe the question is whether or not it is worth doing something like this. If we are going to propose an idea that will funded by a donor contributions, it should be a great enhancement to the building and student body. The problem I have with this concept is that it provides a possible convenience for one campus employee who has a strong probability of not needing it at all; keep in mind ADA elevator access is provided into the building it just isn't directly into the RLC apartment. Which is why I would give this idea a thumbs down. I think we can table this concept and come up with a stronger design enhancement to put in front of the Owner and Dr. Hammett that would serve a larger amount of students and employees.

Thanks,

Kyle Nelson

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