



July 10, 2023

Karl Spain  
Spain Development, LLC  
18973 NW 241st Street  
High Springs, FL 32643

RE: Haile Quarry Zip Lines  
Alachua County, Florida

Dear Mr. Spain,

Hubbard Merrell Engineering is the structural engineer for the zip lines on your site in Alachua County Florida. We have also designed multiple zip line tours throughout the country. The question of ADA access or accessibility is often a conversation piece in the discussion with Authorities having jurisdiction. I do not proclaim to know the intricacies or requirements of the ADA act (it's not our specialty as structural engineers), but I do know that often, the common practice is to provide access to a representative portion of the overall course. On a course like this it might be access to a single zip line, since all other attractions are single zip lines, and in a location that is easier on the participant by limiting the height that must be traveled to access the platform (even through lifting).

Access to zip lines usually requires the use of a lifting device attached to a cantilevered element (called a swing arm) that can be swung in once the participant reaches the platform elevation, and potentially lowered in the same fashion. Single pole zip line launch and landings are economical for this type of tour but make the feasibility of a swing arm difficult since the arm is swung about the only vertical pole in the system and therefore would never swing over the platform. The effort to modify structures to allow access to the platforms at all locations would be significant. Either an additional pole and foundation (and associated guy wire system and foundation) would be needed, or an alternate (unproven) system would need to be developed for use on the single pole, also increasing the structural demands and therefore impacting the sizes of the pole, foundation and guy wires and their anchors. No actual structural design has been performed, but this is a general sense of the impacts of such a change. Please let us know if you need us to explore further options related to accessing these areas.

Sincerely,



David S. Merrell, P.E., S.E.  
Principal