



Executive Summary

This report contains a detailed description and preliminary analysis of the structure of Parkridge Center – Phase VI. The scope of this report is limited to basic gravity analysis of columns, beams, and girders and a simplified lateral check of the lateral resisting elements within the building. It was found in this report that the assumed loading and distributions of loads throughout the building were within allowable tolerances; with checked members ending up at or within one member size of the original design by the projects structural engineer.

The only area within this report that falls outside these tolerances is in the calculation of the building seismic base shear. The calculated result is approximately 42% larger than that used by the original designers. The primary reasoning for this difference is in my own inexperience with the seismic design criteria. Although this loading fell outside the tolerances it is a conservative error which would result in larger member sizes than those in the original design.