

## I. INTRODUCTION

The Duncan Center is a premium office building located in Dover, DE. There are a total of six floors with the building reaching an overall height of 93'-0". Open flex office space is located on the first four floors, a reception and banquet hall on the fifth floor, and a penthouse holding the building management offices on the sixth floor. Small electrical and mechanical rooms are also located on the sixth floor, with the larger electrical and mechanical room located in the basement along with storage space. Balconies augment the fourth and fifth floors and the overall structure is crowned with an arched penthouse.

The purpose of this report is to examine the work performed to compare a proposed concrete two-way flat slab and shear wall structural system versus the existing moment frame steel structural system based upon the structural design, acoustics, cost, and schedule. Additional calculations in support of the material presented in this report are available upon request. Spot checks were performed for all computer models and can be found in Appendix A in their appropriate section as indicated in Depth: Proposed Concrete Structural System.



Figure 2: Ballroom Entrance, Personal Photo: Taken August 16, 2007