

VI. CONCLUSION

Based upon the conclusions reached for the depth, acoustics breadth, and construction management breadth, the proposed concrete structural system performed better than the existing steel structural system for the following criterion:

1. Reduction of need for spray-on fireproofing
2. Increase of mechanical ceiling to floor cavity space
3. Increase of sound transmission class
4. Better reverberation time performance in the ballroom
5. Reduced cost

Despite these improvements compared to the existing steel structural system. The proposed concrete structural system is not recommended based upon the increase of schedule by six months, as duration of schedule was the most important design consideration as specified by the Owner.

