

January Task Schedule

Week 1: January 9- January 15, 2006

- A. Set up a layout for the new columns and floor framing of the steel system.
Determine where columns can be removed to save material and costs.
- B. Begin to set up a model of the building in RAM Steel.

Week 2: January 16- January 22, 2006

- A. Complete the three-dimensional model of the building in RAM Steel.
- B. Check the results of the gravity analysis.
- C. Begin to verify the lateral loads, and adjust the seismic loads based on the new building weight.

Week 3: January 23- January 29, 2006

- A. Finish verifying the lateral loads.
- B. Apply the new lateral loads to the three-dimensional model in RAM Frame.
- C. Begin to design the building's new lateral system.

Summary of Tasks

Task 1: Structural Redesign

- A. Set up a layout for the new columns and floor framing of the steel system.
- B. Use RAM Steel to layout the typical floor plan and determine steel sizes.
- C. Verify lateral loads and recalculate the seismic loads with the new building weight.
- D. Construct a three dimensional ETABS model of the building using the sizes determined by RAM Steel.
- E. Design moment connections for the lateral resisting system, using hand calculations.
- F. Estimate new sizes for the belled caissons based on the new building weight.

Task 2: Construction Management Breadth Study

- A. Calculate a cost estimate of the new structural system using R.S. Means.
- B. Estimate the construction schedule of the new system.

Task 3: Acoustics Breadth Study

- A. Determine acceptable sound transmission values for the residential and retail areas.
- B. Determine the Sound Transmission Class of the material used in the floor assembly.
- C. Consider noise reduction alternatives if necessary.

Schedule

Week #	Dates	Tasks
1	1/8 – 1/14	1A, 1B
2	1/15 – 1/21	1C, 1D
3	1/22 – 1/28	1D
4	1/29 – 2/4	1E, 1F
5	2/5 – 2/11	1E, 1F
6	2/12 – 2/18	2A, 2B
7	2/19 – 2/25	2A, 2B
8	2/26 – 3/4	3A, 3B
9	3/5 – 3/11	Spring Break
10	3/12 – 3/18	3B, 3C
11	3/19 – 3/25	Technical Report
12	3/26 – 4/1	Technical Report / Presentation
13	4/2 – 4/8	Final Paper due Wednesday 4/5
14	4/9 – 4/15	Presentations begin Monday 4/10