Example No. 1

A civil engineer is designing a 5-story building with a discontinuous diaphragm assigned to Seismic Design Category E. Which of the following will be required to be increased by a factor of 1.25?

A. Base shear
B. Diaphragm connection to the vertical elements
C. Collector connections using the overstrength factor
D. Non-structural element forces

Example No. 2

An apartment building of reinforced concrete construction was built in 1930. For the maximum considered earthquake, what <u>minimum</u> level of seismic design is appropriate to satisfy the *CBC* design philosophy for the replacement of this building?

A. Minor structural damage or loss of function
B. Limited property damage
C. Limited damage in order to maintain function
D. Major structural damage but no collapse

Example No. 3

A one-story, fully grouted masonry wall supported by a reinforced concrete footing is under construction. Assume concrete strength (f'_c) is 2,500 psi and masonry strength (f'_m) is 1,800 psi. The presence of a special inspector is required during the placement of

A. grout
B. masonry units
C. reinforcement in the wall
D. reinforcing steel in the footing