A one-story office building is shown below. The heavy lines are shear walls and the finer lines are windows or other openings. The dead load on the roof is 12 psf and that for the walls is 7 psf. Assume building is located in rural San Joaquin County. Do the following:

a. Determine the wind loadings.
b. Determine the seismic loadings.
c. Assuming the roof forms a diaphragm, determine the maximum diaphragm shear.
   (Hint: divide subdiaphragms in the N-S and E-W directions.
d. Determine the corresponding forces in the shear walls.
e. Locate the necessary drag struts and compute the maximum forces in them.

Notes:
- Lines with short dashes represent roof beams.
- Lines with long dashes represent interior load-bearing walls.
- All joists in the roof run E-W.