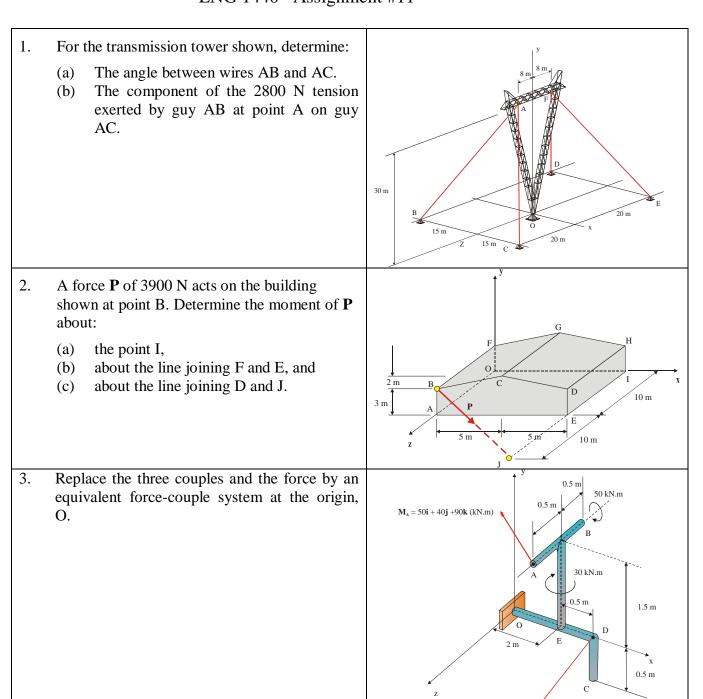
PLEASE INCLUDE THIS PAGE WITH YOUR SUBMISSION

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 $\mathbf{F}_{\mathbf{D}} = -10\mathbf{i} - 10\mathbf{j} + 20\mathbf{k} \text{ (kN)}$

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BONUS

Replace the system of forces and couples acting on the plate shown by a single force-couple acting at O. The magnitude of F_I is $20 \ kN$ and the magnitude of F_2 is $12 \ kN$.

