To do this I suppose a train to be moving across the trusses from left to right, and since the diagonals are in tension, the maximum strain in any diagonal occurs when the load rests on each apex between it and the abutment from which it slopes upwards.

\[
A = \left( \frac{4w'' + 2w'}{1.44} \right) \frac{1}{2} = 7842
\]

\[
B = \left( \frac{5w'' + 4w'}{1.44} \right) \frac{1}{2} = 26617
\]

Hence we have for the diagonal engine at 4, stress on A.

... 5...