Frontage Increase Example (CBC 506.2):

Building Perimeter, \( P = 150 + 150 + 50 + 80 + 100 + 70 = 600 \) ft.
Qualifying Building Perimeter, \( F = 150 + 150 + 80 + 100 + 70 = 550 \) ft.
Width Limit, \( W = \frac{[((30+25)/2)*150) + (30*(150+70+100+80))]}{550} = 29.3 \text{ ft.} \leq 30 \text{ ft.} \)

Frontage Increase, \( I_f = \frac{F}{P - 0.25} \frac{W}{30} = \frac{550}{600 - 0.25} \frac{29.3}{30} = 0.65 < 0.75 \text{ max} \)

Note: Since the south side yard is < 20 feet, the south wall length is not used to determine the Qualifying Building Perimeter, \( F \) nor is the south side yard and its wall length used to determine the Width Limit, \( W \).

* Exception to CBC 506.2.1 states “The quantity of \( W \) divided by 30 shall be permitted to be a maximum of 2 when the building meets all the requirements of Section 507 except for compliance with the 60-foot public way or yard requirement, as applicable.” Where this exception is applicable, the weighted average is calculated per CBC 506.2.1 with a limiting value of 60 for “\( W \)”.

The Width Limit, \( W \) would then be calculated as follows:

\[
W = \frac{[((30+25)/2)*150) + (30*150) + (60*(70+100+80))]}{550} = 42.95 \text{ ft.} \leq 60 \text{ ft.}
\]

Frontage Increase, \( I_f = \frac{550}{600 - 0.25} \frac{42.95}{30} = 0.95 < 1.5 \text{ max} \)