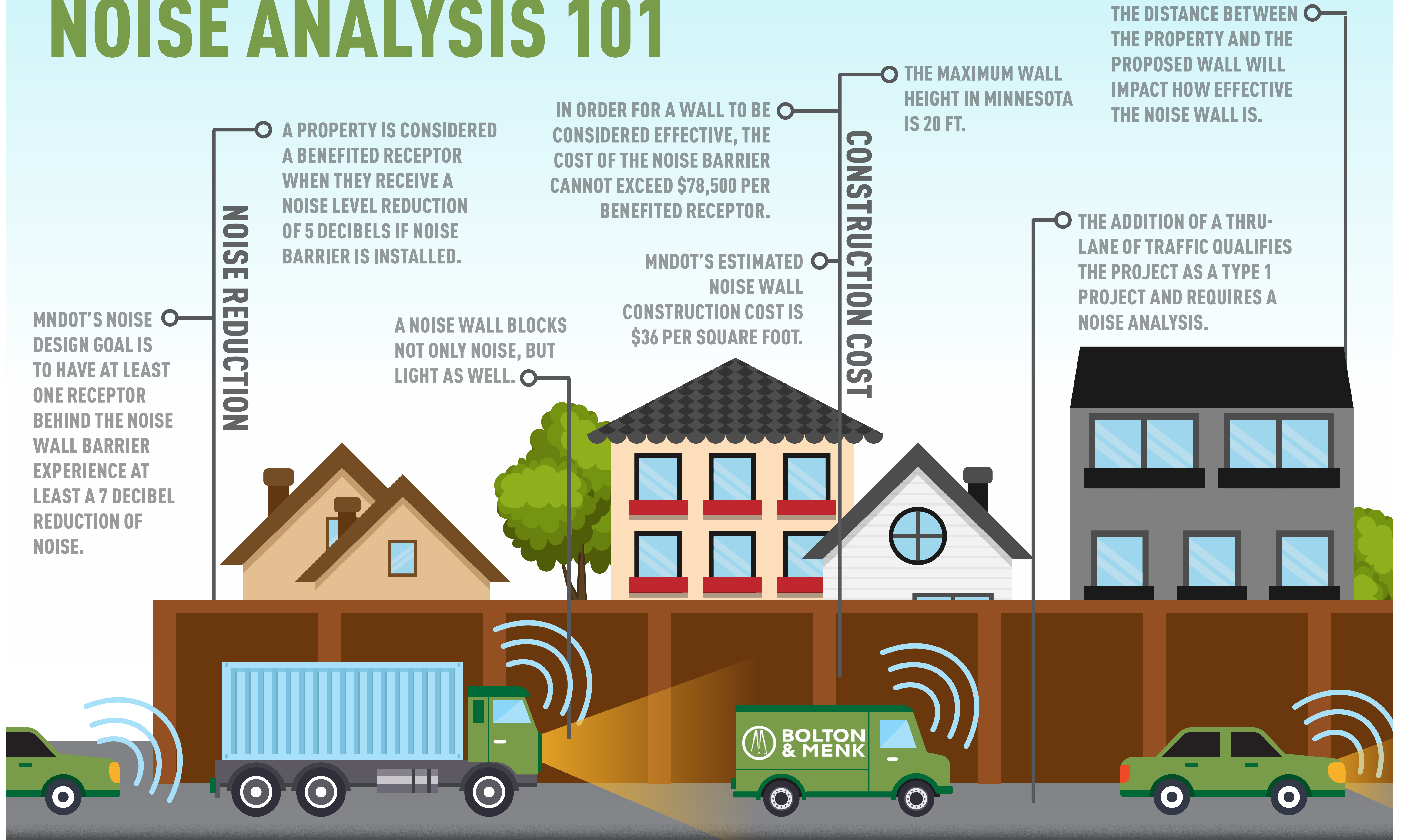


# NOISE ANALYSIS 101



MNDOT'S NOISE DESIGN GOAL IS TO HAVE AT LEAST ONE RECEPTOR BEHIND THE NOISE WALL BARRIER EXPERIENCE AT LEAST A 7 DECIBEL REDUCTION OF NOISE.

## NOISE REDUCTION

A PROPERTY IS CONSIDERED A BENEFITED RECEPTOR WHEN THEY RECEIVE A NOISE LEVEL REDUCTION OF 5 DECIBELS IF NOISE BARRIER IS INSTALLED.

A NOISE WALL BLOCKS NOT ONLY NOISE, BUT LIGHT AS WELL.

IN ORDER FOR A WALL TO BE CONSIDERED EFFECTIVE, THE COST OF THE NOISE BARRIER CANNOT EXCEED \$78,500 PER BENEFITED RECEPTOR.

MNDOT'S ESTIMATED NOISE WALL CONSTRUCTION COST IS \$36 PER SQUARE FOOT.

## CONSTRUCTION COST

THE MAXIMUM WALL HEIGHT IN MINNESOTA IS 20 FT.

THE DISTANCE BETWEEN THE PROPERTY AND THE PROPOSED WALL WILL IMPACT HOW EFFECTIVE THE NOISE WALL IS.

THE ADDITION OF A THRU-LANE OF TRAFFIC QUALIFIES THE PROJECT AS A TYPE 1 PROJECT AND REQUIRES A NOISE ANALYSIS.

### WHEN DOES THE PUBLIC VOTE?

A PROPOSED NOISE WALL IS VOTED ON WHEN IT MEETS THE NOISE DESIGN GOAL AND IS COST EFFECTIVE.

### WHO GETS TO VOTE?

PROPERTY OWNERS AND RESIDENTS WHO EXPERIENCE A 5 DECIBEL REDUCTION FROM THE PROPOSED WALL CAN VOTE.