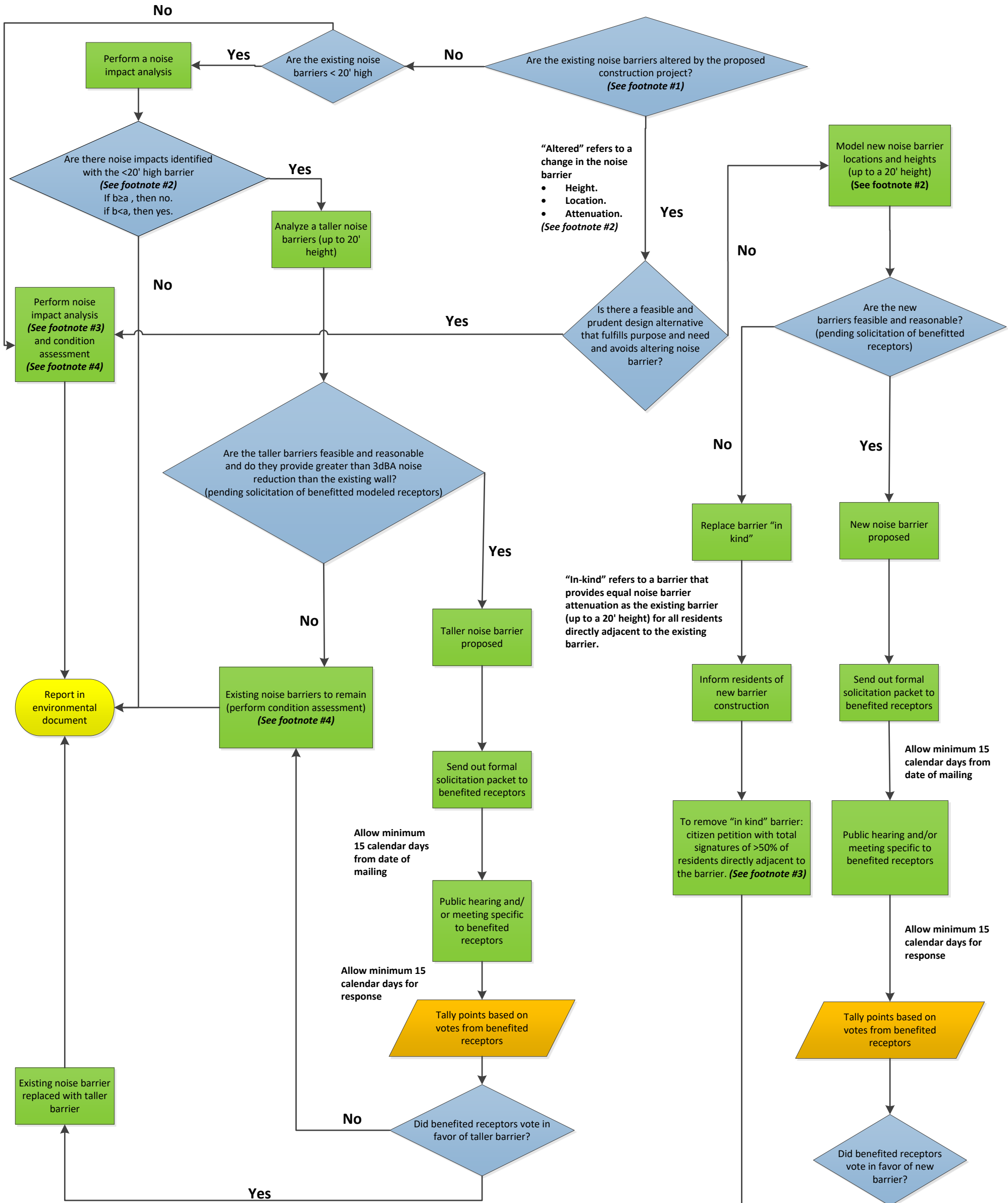


# Noise Analysis Guidance for Existing Noise Barriers on Type I Projects



**Note:**

1. If the noise barrier is less than or equal to 20 years old, removal and replacement costs are not Federal-Aid Highway reimbursable, but Title 23 commitment to maintain mitigation still applies. If the noise barrier is greater than 20 years old, removal and replacement costs are Federal-Aid Highway reimbursable.

2. To determine existing noise barrier attenuation:
- a. Calculate the difference between “no barrier” and “with existing barrier” using the existing highway condition. Under both “no barrier” and “with existing barrier” use the average reduction of all the first row receptors directly adjacent to the existing barrier.
  - b. Calculate the difference between “no barrier” and “with existing barrier” using the future highway condition. Under both “no barrier” and “with existing barrier” use the average reduction of all the first row receptors directly adjacent to the existing barrier.
  - c. The results a and b can be used for making decisions within the flowchart.

3. Only first physical row of receptors adjacent to the existing noise barriers are required to be modeled.

4. If condition assessment is poor, consult Project Manager/Asset staff for possible inclusion of barrier repair in project.