



# *NOISE ABATEMENT ANALYSIS*



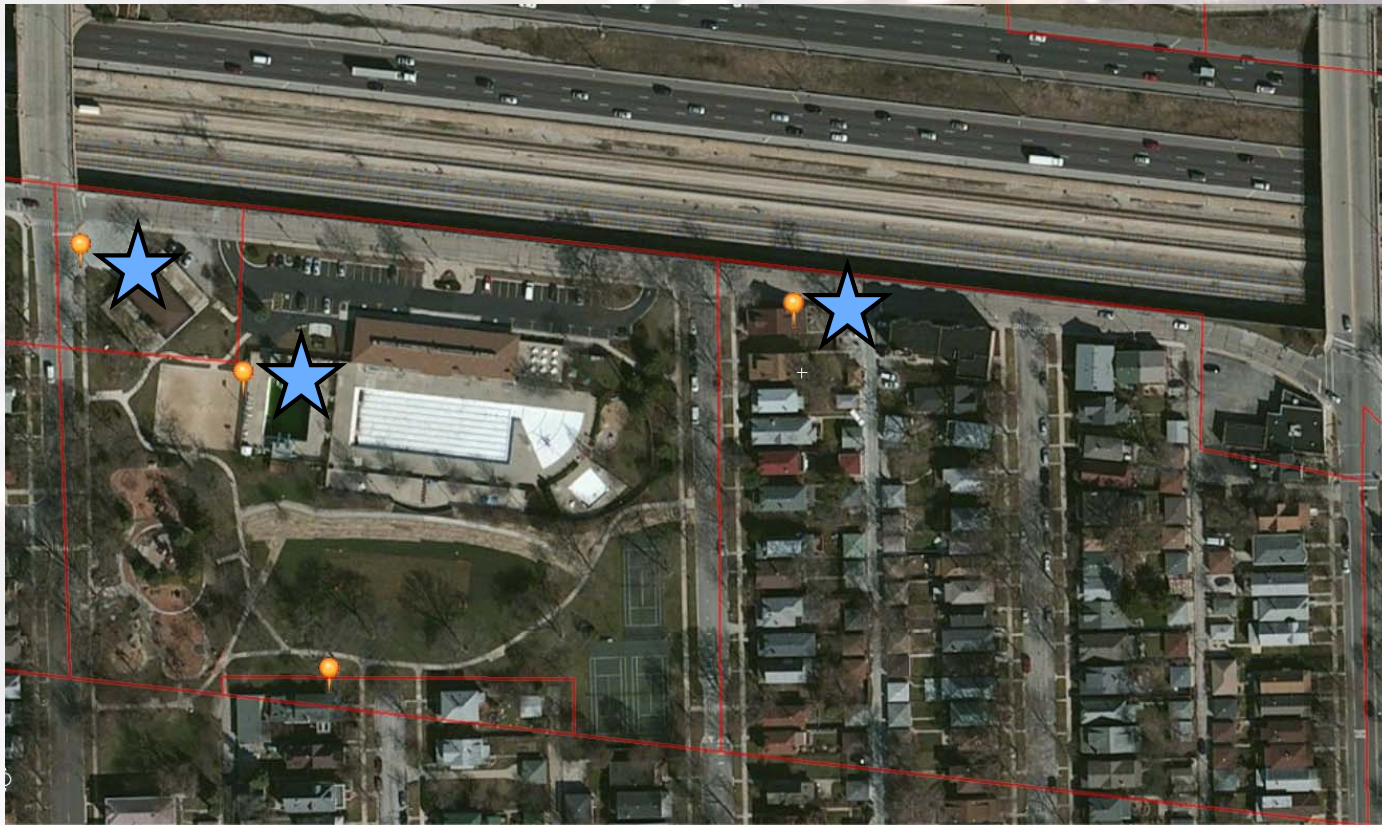
- Traffic Noise Impacts from Preliminary Preferred Alternative
- Traffic Noise Abatement Analysis and Findings
  - Recommended wall heights and locations
  - Locations benefitted by barriers and renderings of walls
- Viewpoints Solicitation and Noise Forums

# ANALYSIS PROCEDURES RECAP



- Exterior locations of frequent human use
  - Based upon outdoor conversations
- Noise impacts - Noise Abatement Criteria (NAC)
  - By land use type – noise sensitive uses
  - 67 dB(A) residential, park, school
  - 72 dB(A) restaurant, office
- Where impacts occur, abatement (walls) studied)
  - Feasibility
  - Reasonableness

# WHERE ARE NOISE IMPACTS?



## Noise Approaches/Meets/Exceeds NAC

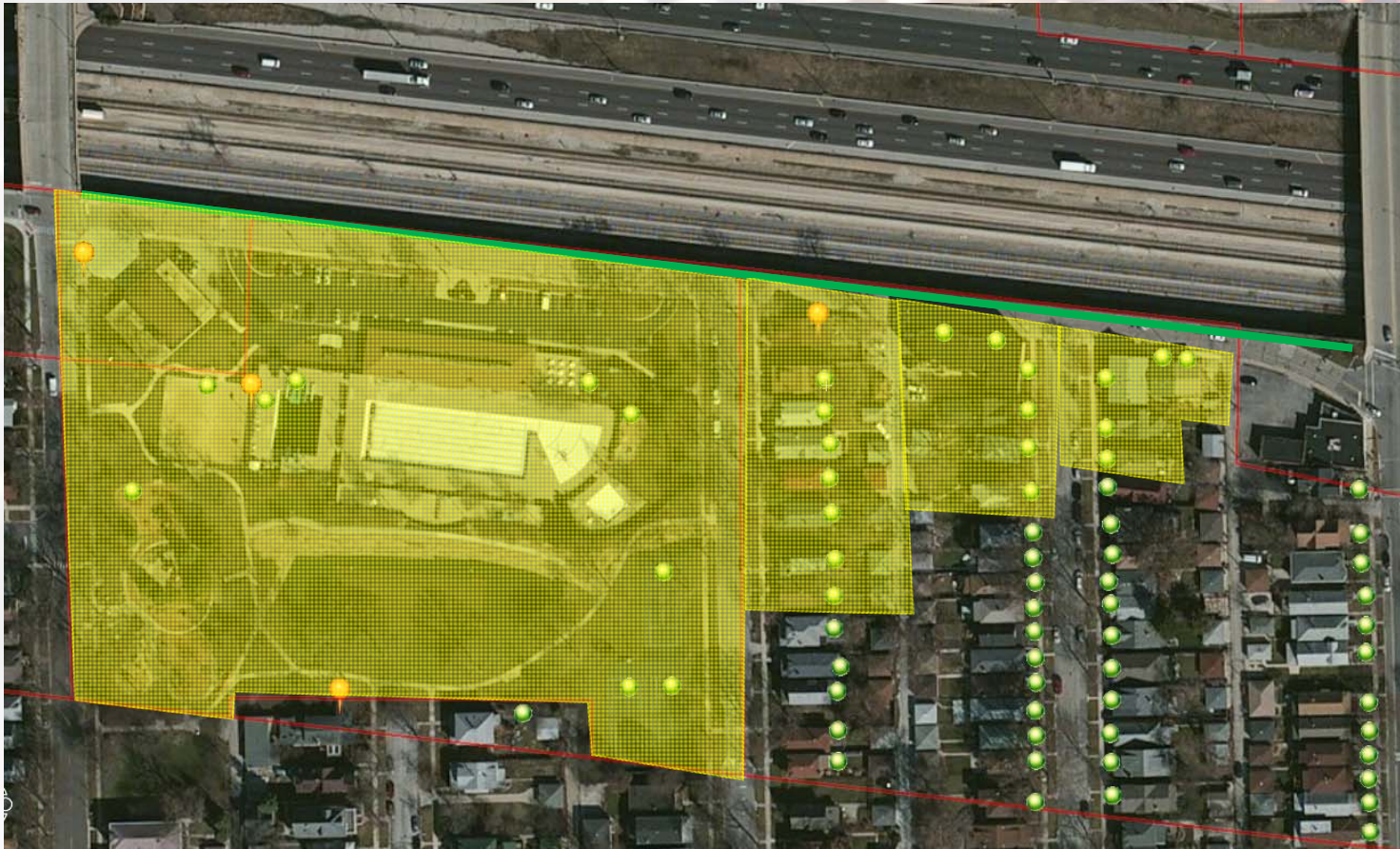
Existing	35 receptors
Future No Build	36 receptors
Preliminary Preferred (noise impacts)	35 receptors

# WHERE WERE WALLS STUDIED?



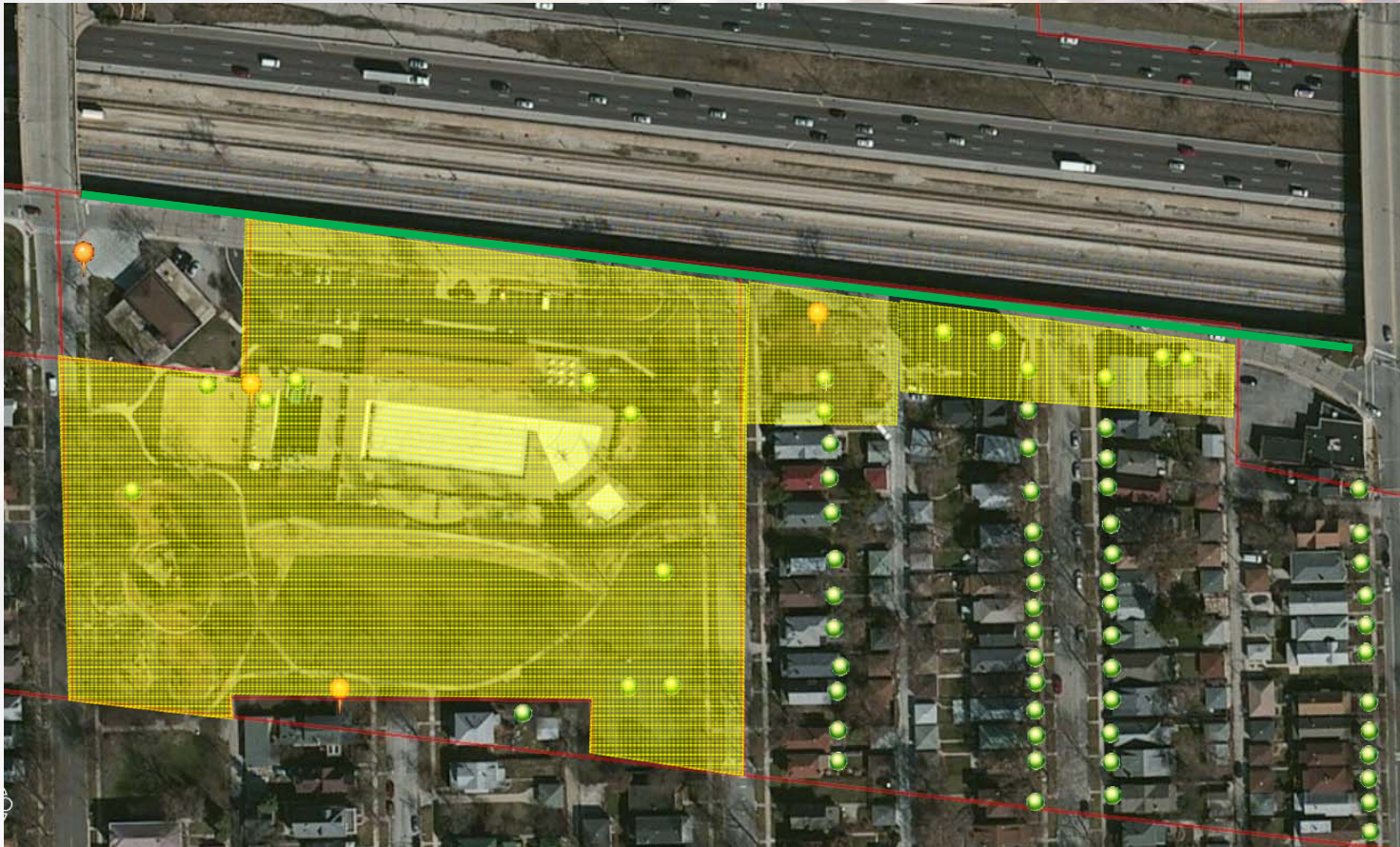
- Walls between cross streets where noise impacts identified
- Each individual location studied (green dots)
- Is wall constructible?

# WOULD WALL REDUCE NOISE BY 5 DB(A)?



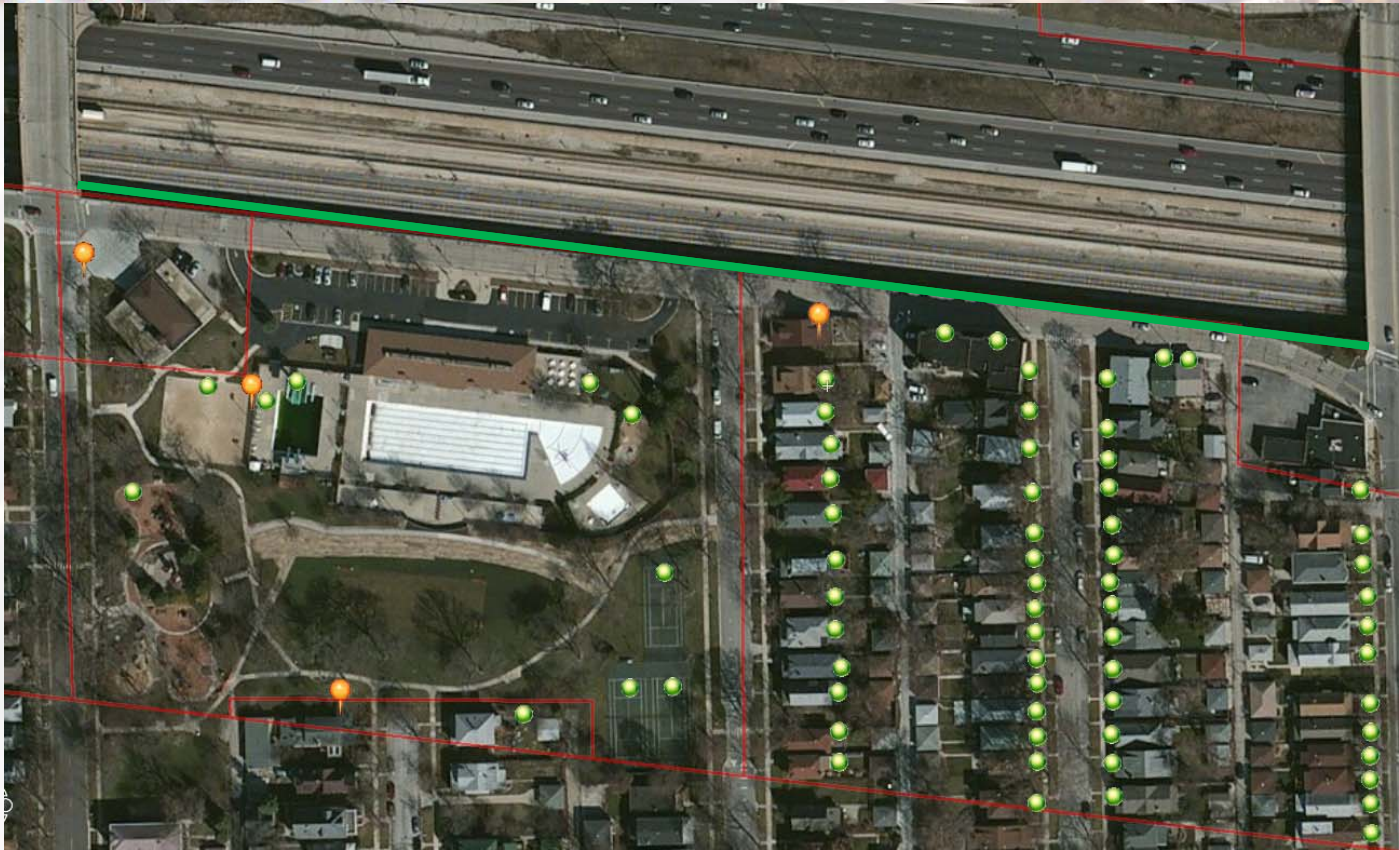
- Feasibility
- Does wall provide a **benefit**, a readily perceptible noise reduction?
- This wall reduces noise by 5 dB(A) at properties in yellow

# WOULD WALL REDUCE NOISE BY 8 DB(A)?



- Reasonableness
- Does wall meet IDOT's noise reduction goal of 8 dB(A)?
- This wall reduces noise by 8 dB(A) at properties in yellow

# WOULD WALL BE COST EFFECTIVE?



- Reasonableness
- This wall is cost effective
  - The allowable wall cost for benefitted receptors behind the wall is greater than the cost of the wall



# IS WALL SUPPORTED BY THOSE IT BENEFITS?



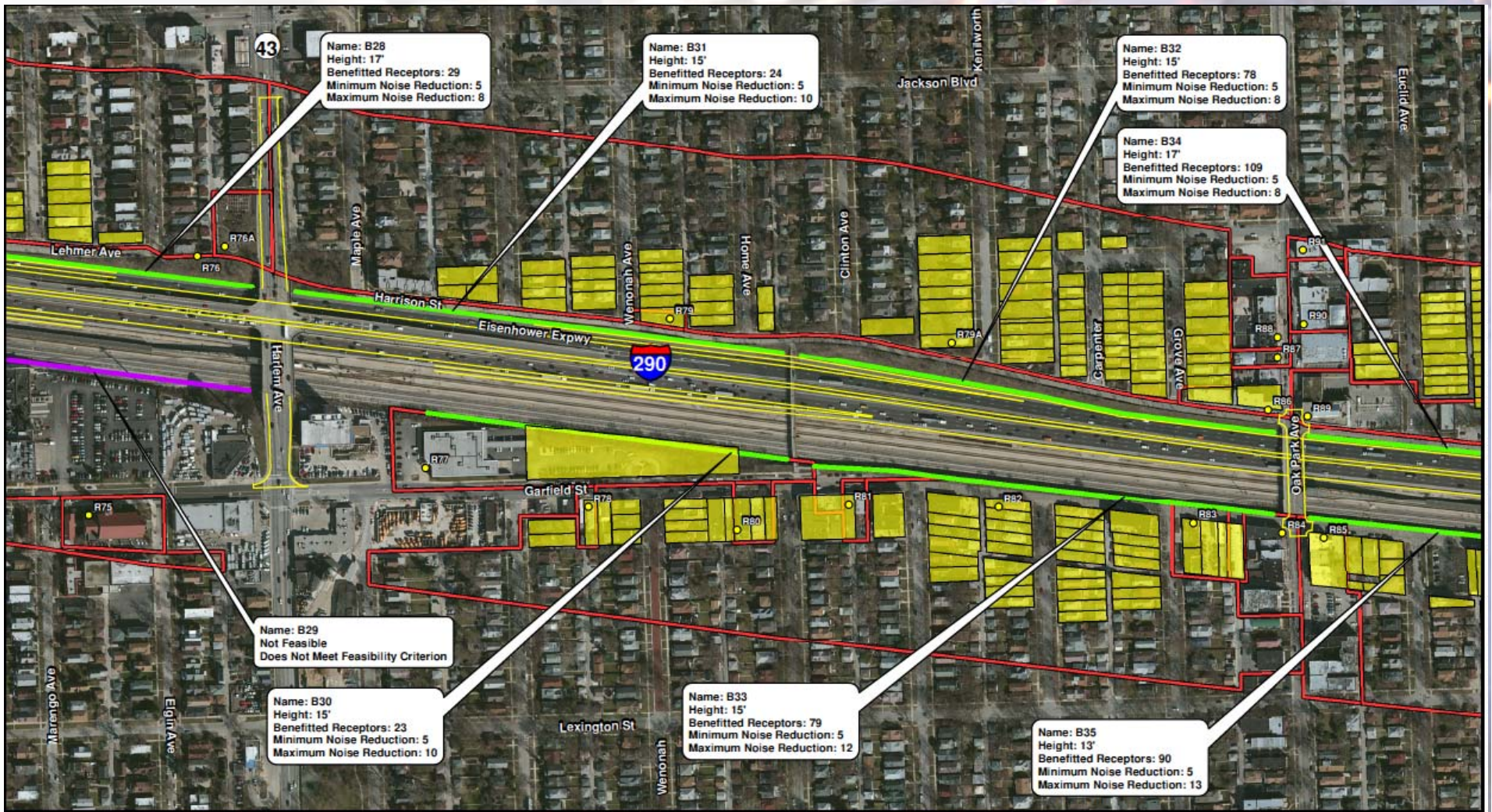
- Reasonableness
- Benefitted receptors vote for or against proposed noise wall
- "Viewpoint solicitation"
- Simple majority vote

# PROPOSED NOISE WALLS – I-290 CORRIDOR

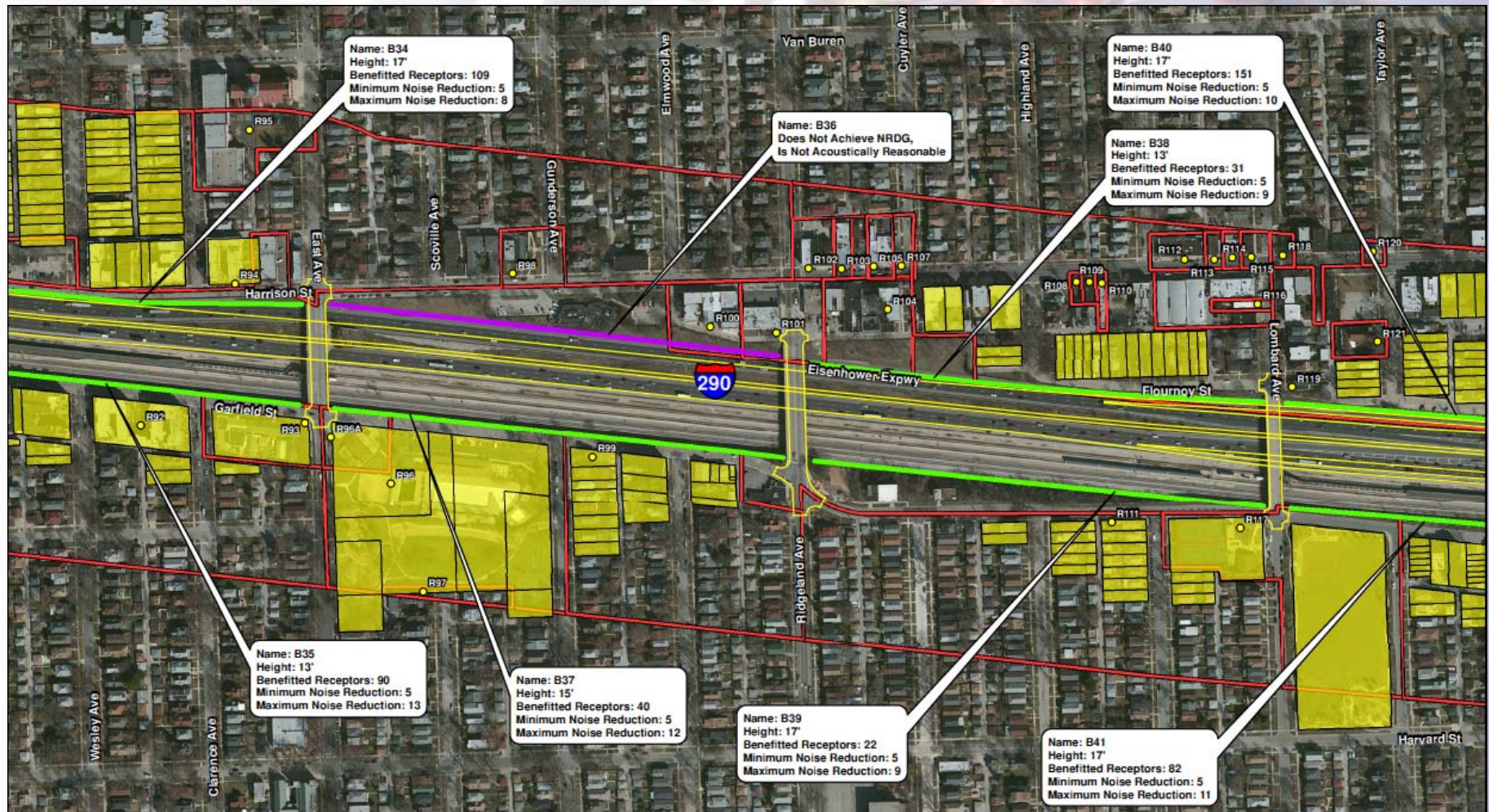


- Noise levels approach/meet/exceed NAC:
  - Existing: 220 receptors
  - Future No Build: 227 receptors
  - Preliminary Preferred: 228 impacted receptors
- 92 noise walls studied to abate the 228 impacted areas
  - 76 of the 96 walls were feasible
  - 61 of the 76 walls were reasonable (excluding viewpoints)
    - 9' – 19' tall walls recommended at 61 locations

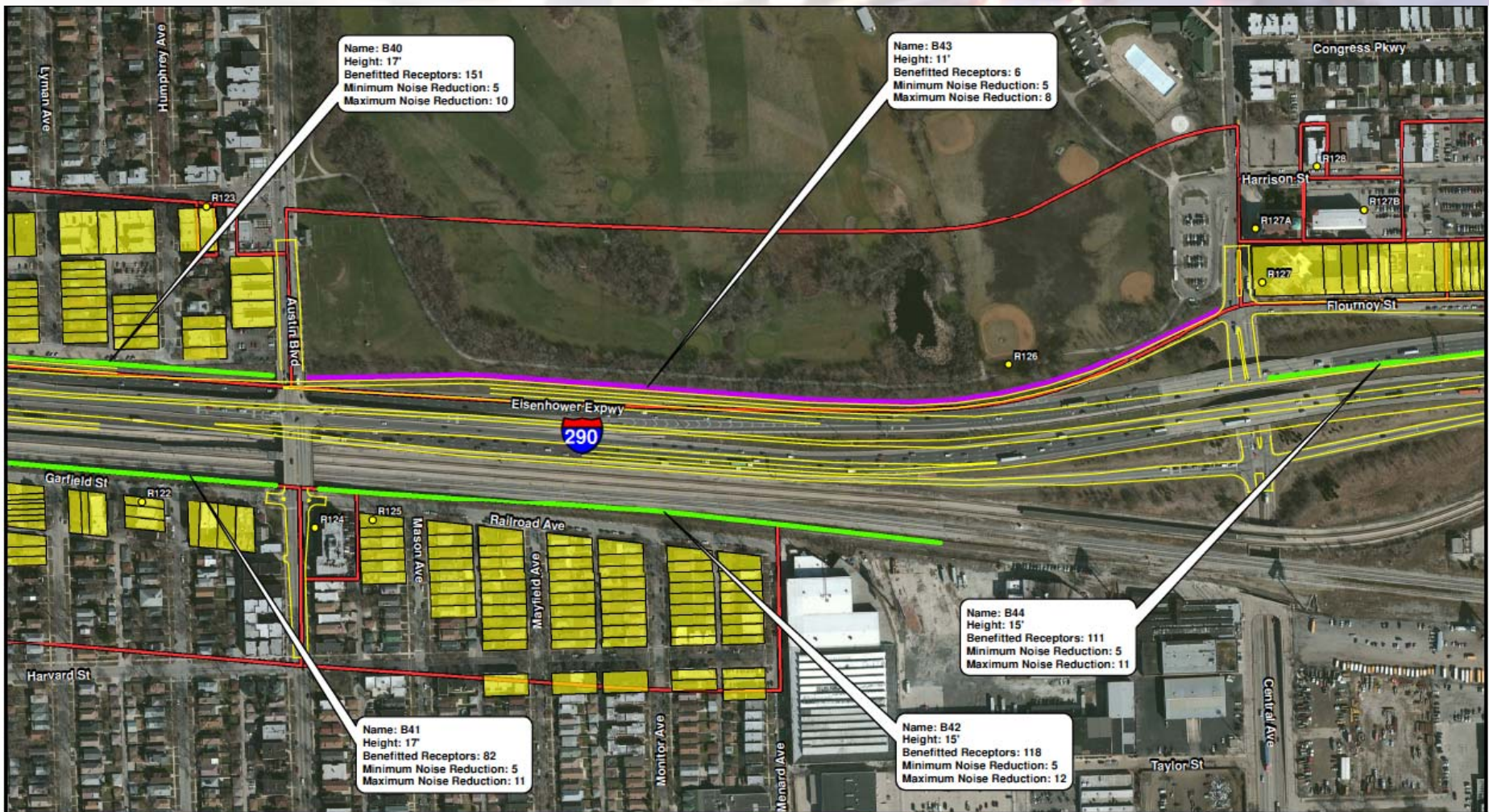
# PROPOSED OAK PARK NOISE WALLS – PLAN VIEW



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# NOISE WALL OUTREACH AND VIEWPOINTS SURVEY



- Noise Wall Informational Forums:
  - October 27 – Chicago Marriott at Medical District/UIC
  - October 28 – Carleton Hotel of Oak Park
  - October 29 – Best Western - Hillside
- 5:30 to 7:30 pm
  - Presentation and Q&A
  - Exhibit Area
- *Residents benefitted by the proposed barriers will be formally invited, but meetings are open to anyone*