Proposition 400 Noise Mitigation

MAG Regional Council

July 23, 2008

MARICOPA ASSOCIATION of GOVERNMENTS

ON THE MOVE
PARTNERS IN PROGRESS

Prop 400 Noise Mitigation Program

- **$20 million remaining from Prop 400 funding.**
- **Provide additional noise mitigation for areas that:**
  - Exhibit high noise levels.
  - Feasible options exist that could reduce noise levels.
- **Provide added funding for projects that exceed ADOT cost effectiveness threshold – currently $43,000 per affected property.**

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Evaluation Process

- **Baseline noise monitoring conducted. TPC approved additional analysis.** **(December 2007 TPC)**
- **FHWA approved TNM 2.5 noise model used.**
- **Results lowered by 4 dBA to account for rubberized asphalt.**
  - Rubberized asphalt not approved by FHWA for noise mitigation.
  - For projects with federal funds, noise levels would be 4 dBA higher than reported.
- **Under federal guidelines, all of the locations meet the ADOT noise threshold of 64 dBA.**

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Locations Requested

- **Phoenix**
  - I-17 & Camelback
  - I-10, 7th Ave to 15th Ave
  - L101 & 51st Ave
  - L101 & 7th St.
  - SR51 & Greenway
- **Scottsdale**
  - L101 & 90th St
  - L101 & Cactus
- **Peoria**
  - L101, Peoria to Grand
  - L101, Olive to Peoria
  - L101, Northern to Olive
- **Maricopa County**
  - L303, Deer Valley to north of Robertson D

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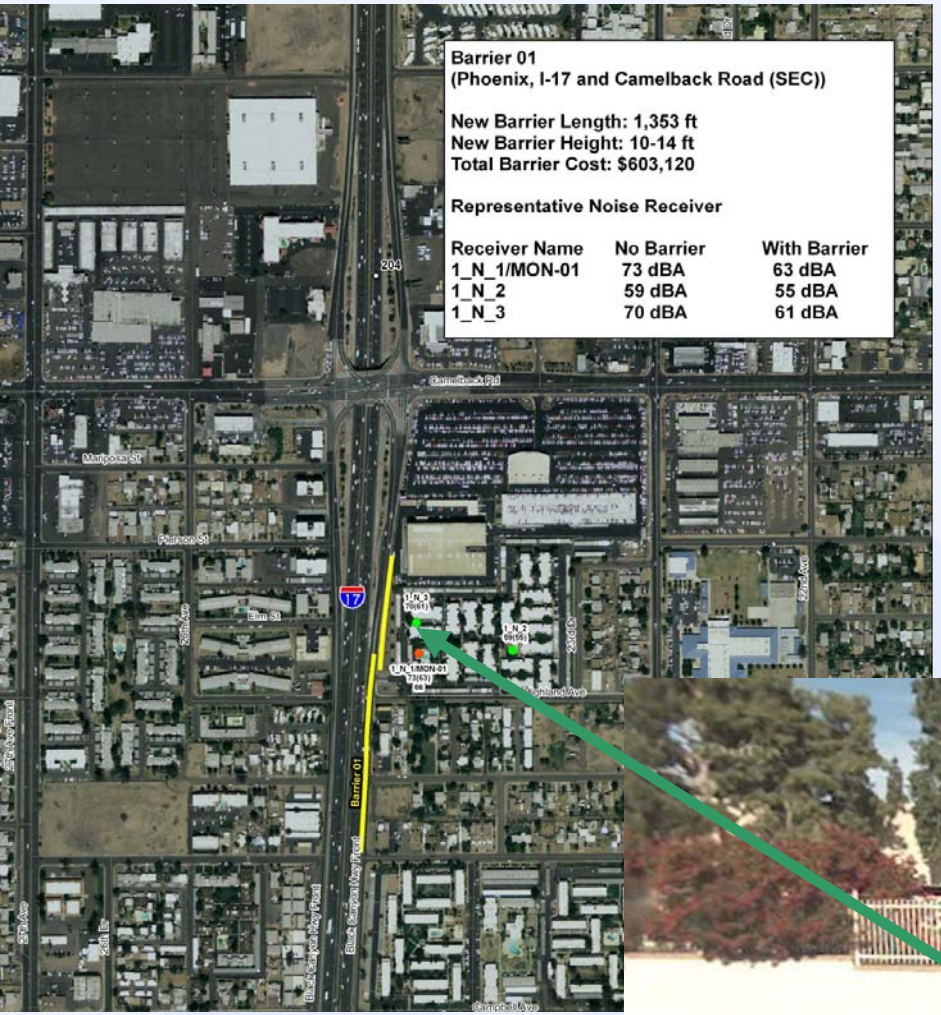

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Barrier 02
(Phoenix, I-10, 7th Ave to 15th Ave, north side)

Existing Barrier Removal Cost: $109,520
New Barrier Length: 2,738 ft
New Barrier Height: 14-18 ft
Total Barrier Cost (including removal cost): $1,775,040

Representative Noise Receiver

Receiver Name	No Barrier	With Barrier
2_W_6	65 dBA	62 dBA
2_W_11/MON-03	68 dBA	63 dBA
2_W_17	64 dBA	61 dBA

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Barrier 03
(Phoenix, SR 101 & 51st Ave (SEC))

Existing Privacy Wall Removal Cost: $60,840
New Barrier Length: 1,521 ft
New Barrier Height: 12-16 ft
Total Barrier Cost (including removal cost): $1,003,360

Representative Noise Receiver

Receiver Name	No Barrier	With Barrier
3_E_1	66 dBA	59 dBA
3_E_5/MON-05	67 dBA	60 dBA
3_E_8	66 dBA	61 dBA

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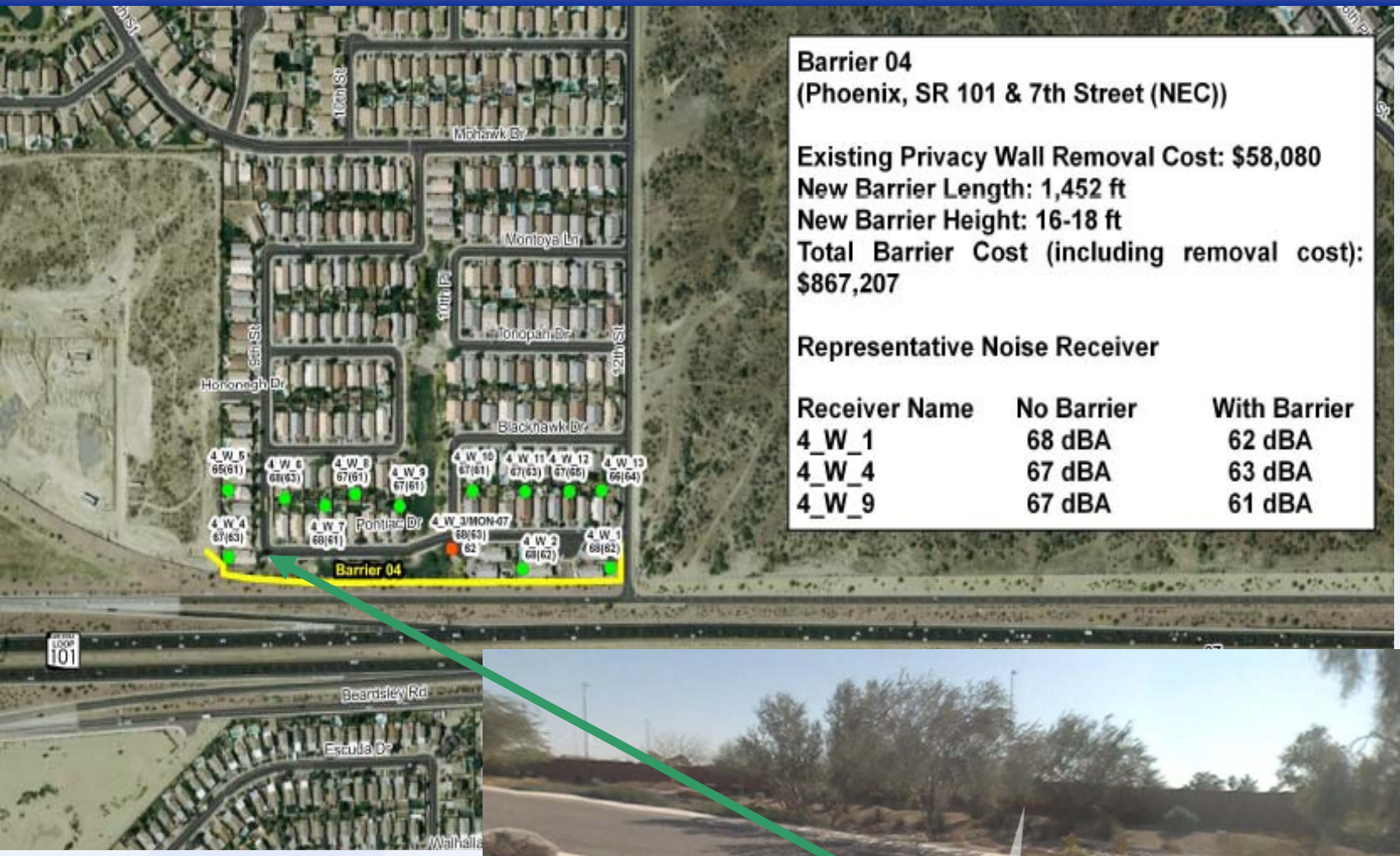

Barrier 04
(Phoenix, SR 101 & 7th Street (NEC))

Existing Privacy Wall Removal Cost: $58,080
New Barrier Length: 1,452 ft
New Barrier Height: 16-18 ft
Total Barrier Cost (including removal cost): $867,207

Representative Noise Receiver

Receiver Name	No Barrier	With Barrier
4_W_1	68 dBA	62 dBA
4_W_4	67 dBA	63 dBA
4_W_9	67 dBA	61 dBA

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Barrier 05
(Peoria, SR 101, Peoria Ave to Grand Ave)

Existing Barrier Removal Cost: $60,480
New Barrier Length: 2,693 ft
New Barrier Height: 14-20 ft
Total Barrier Cost (including removal cost): $1,842,320

Representative Noise Receiver

Receiver Name	No Barrier	With Barrier
5_N_2	68 dBA	62 dBA
5_N_10	67 dBA	62 dBA
5_N_15	65 dBA	60 dBA

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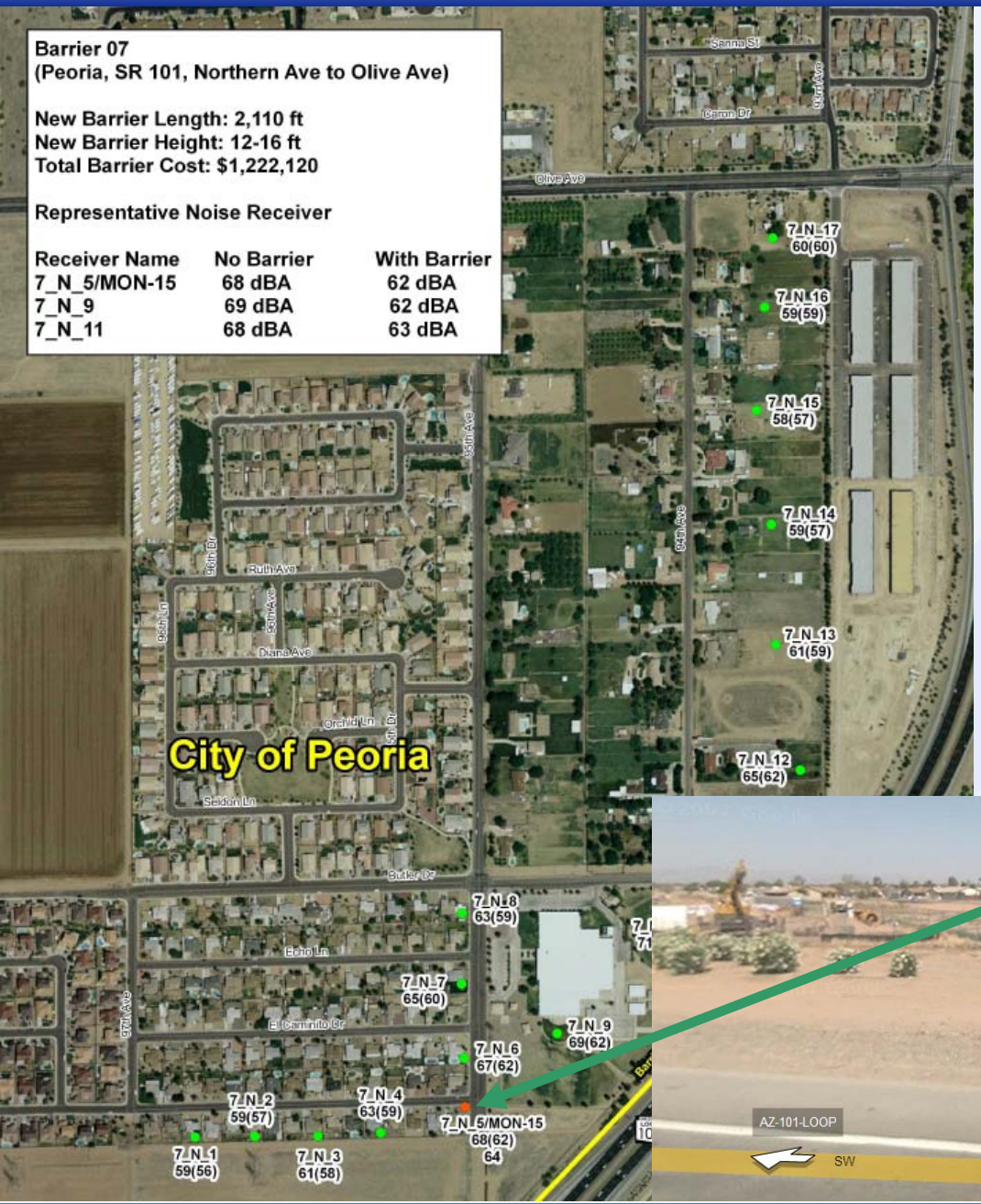
Barrier 07
(Peoria, SR 101, Northern Ave to Olive Ave)

New Barrier Length: 2,110 ft
New Barrier Height: 12-16 ft
Total Barrier Cost: $1,222,120

Representative Noise Receiver

Receiver Name	No Barrier	With Barrier
7_N_5/MON-15	68 dBA	62 dBA
7_N_9	69 dBA	62 dBA
7_N_11	68 dBA	63 dBA



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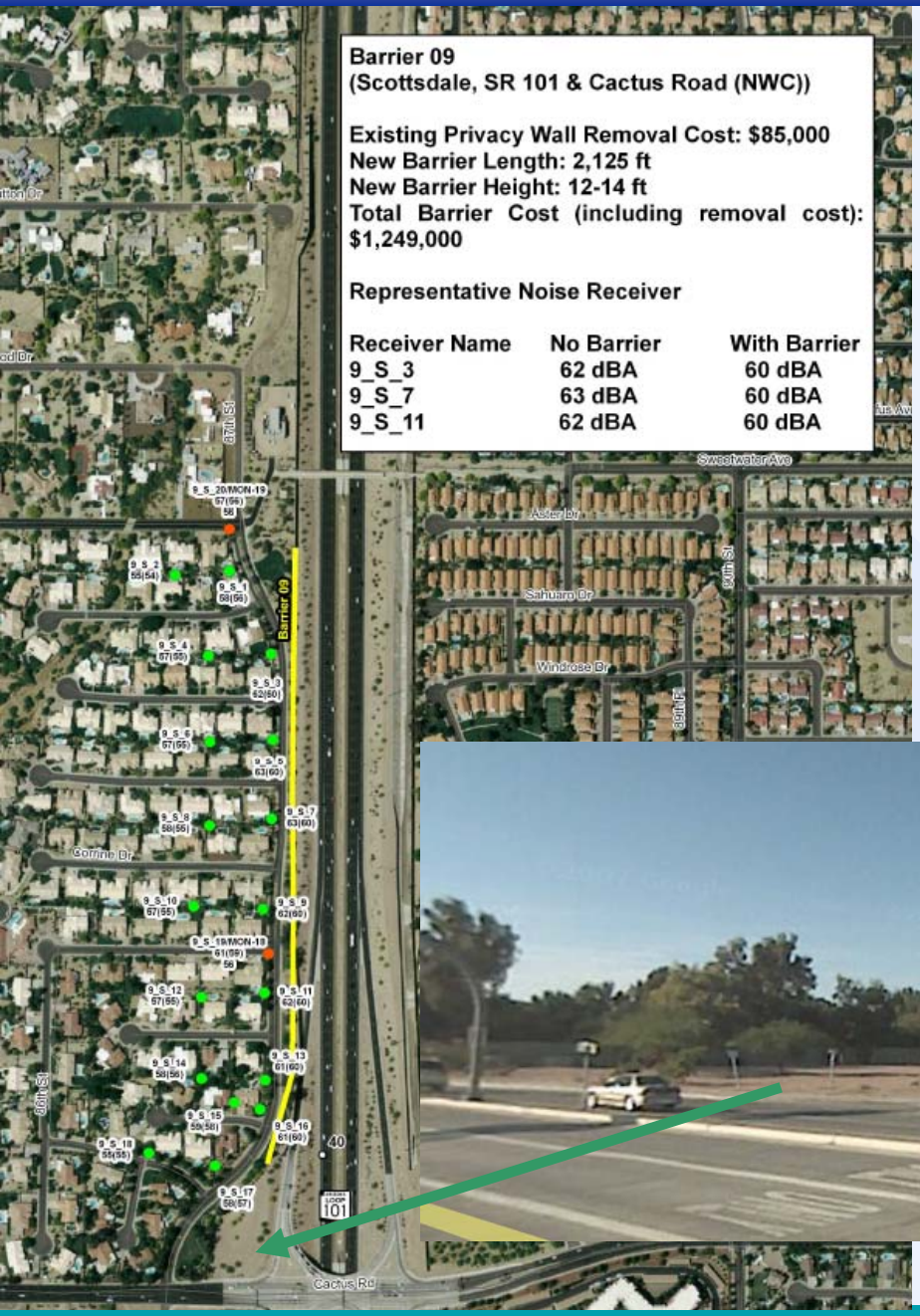

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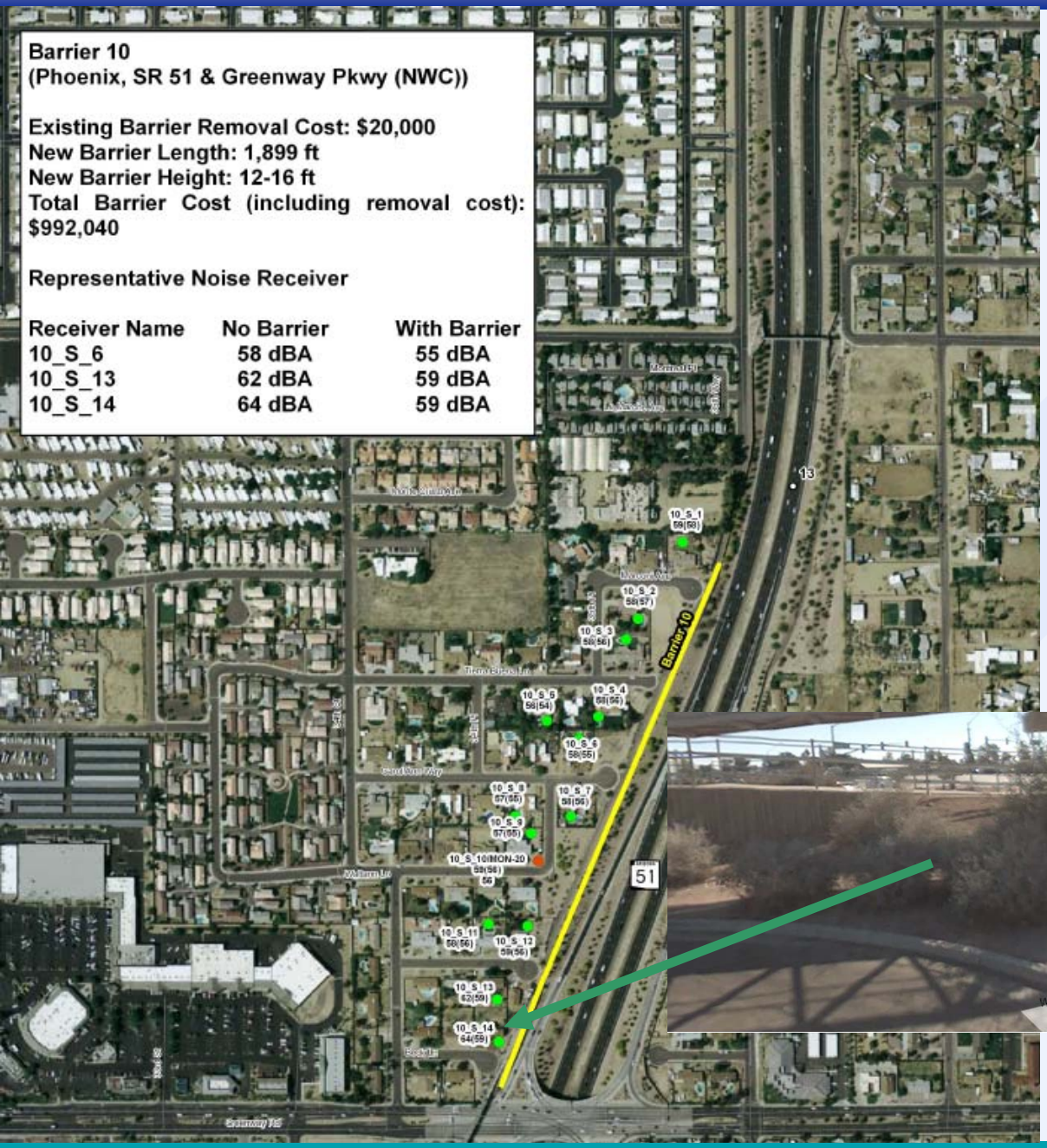
Barrier 10
(Phoenix, SR 51 & Greenway Pkwy (NWC))

Existing Barrier Removal Cost: $20,000
New Barrier Length: 1,899 ft
New Barrier Height: 12-16 ft
Total Barrier Cost (including removal cost): $992,040

Representative Noise Receiver

Receiver Name	No Barrier	With Barrier
10_S_6	58 dBA	55 dBA
10_S_13	62 dBA	59 dBA
10_S_14	64 dBA	59 dBA



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Barrier 11
(Maricopa County, SR 303, Deer Valley Road to North of Robertson Drive)

Existing Privacy Wall Removal Cost: $91,320
New Barrier Length: 2,283 ft
New Barrier Height: 8-16 ft
Total Barrier Cost (including removal cost): $1,248,720

Representative Noise Receiver

Receiver Name	No Barrier	With Barrier
11_E_5	69 dBA	63 dBA
11_E_6	72 dBA	63 dBA
11_E_11	67 dBA	61 dBA

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Contact Information

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