

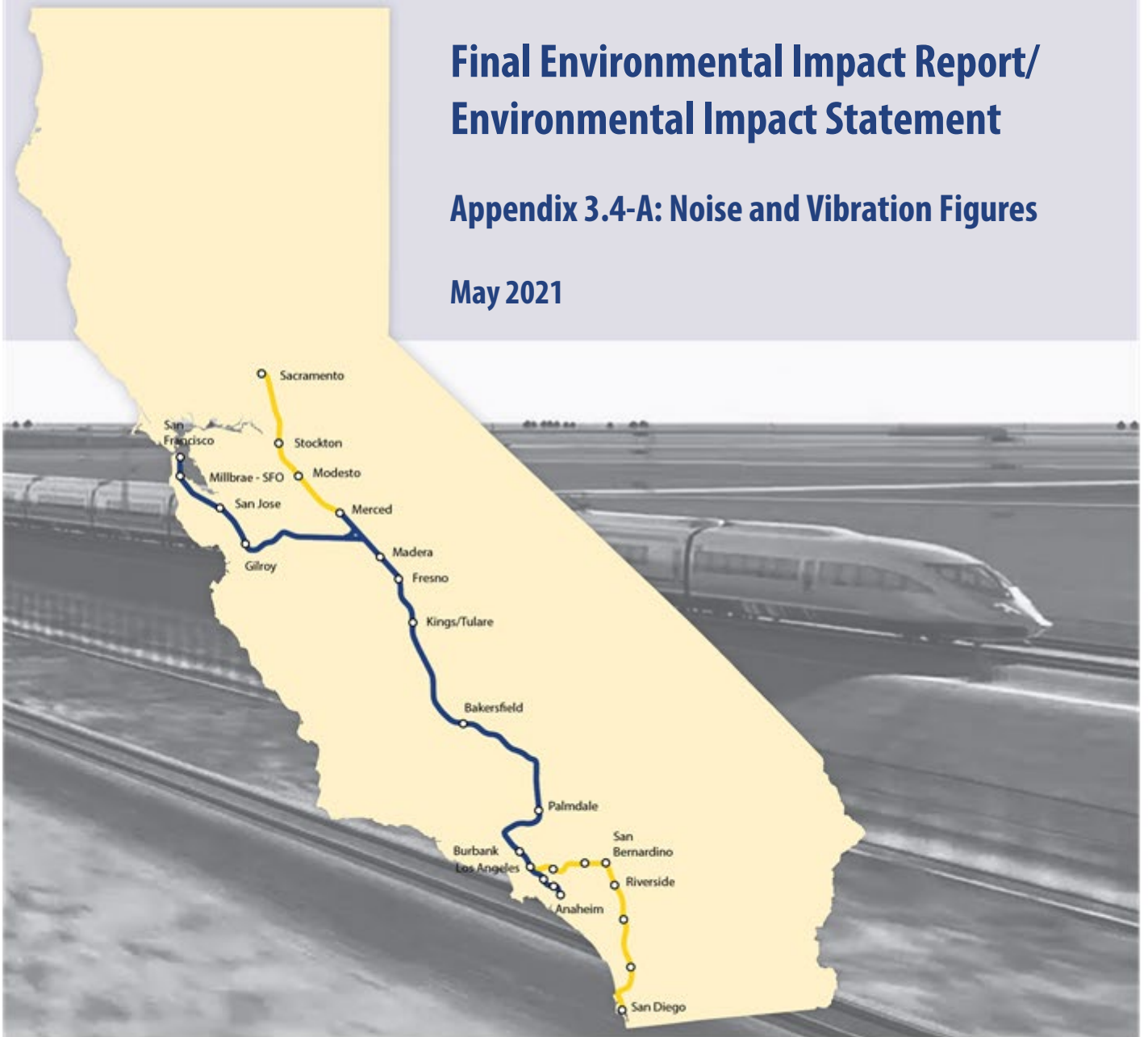
California High-Speed Rail Authority

Bakersfield to Palmdale Project Section

**Final Environmental Impact Report/
Environmental Impact Statement**

Appendix 3.4-A: Noise and Vibration Figures

May 2021



The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being or have been carried out by the State of California pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated July 23, 2019, and executed by the Federal Railroad Administration and the State of California.

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APPENDIX 3.4-A: NOISE AND VIBRATION FIGURES

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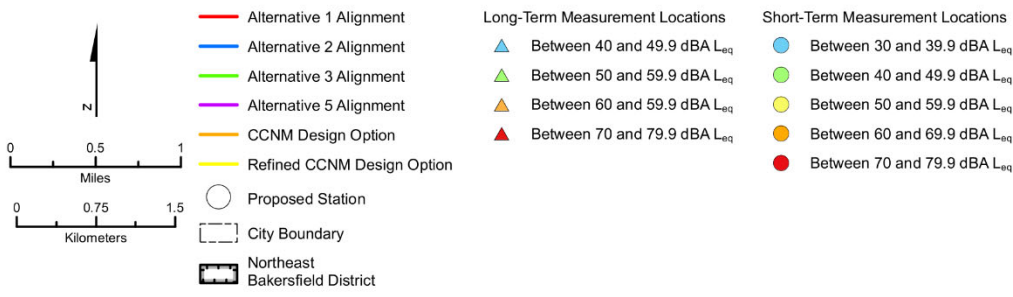
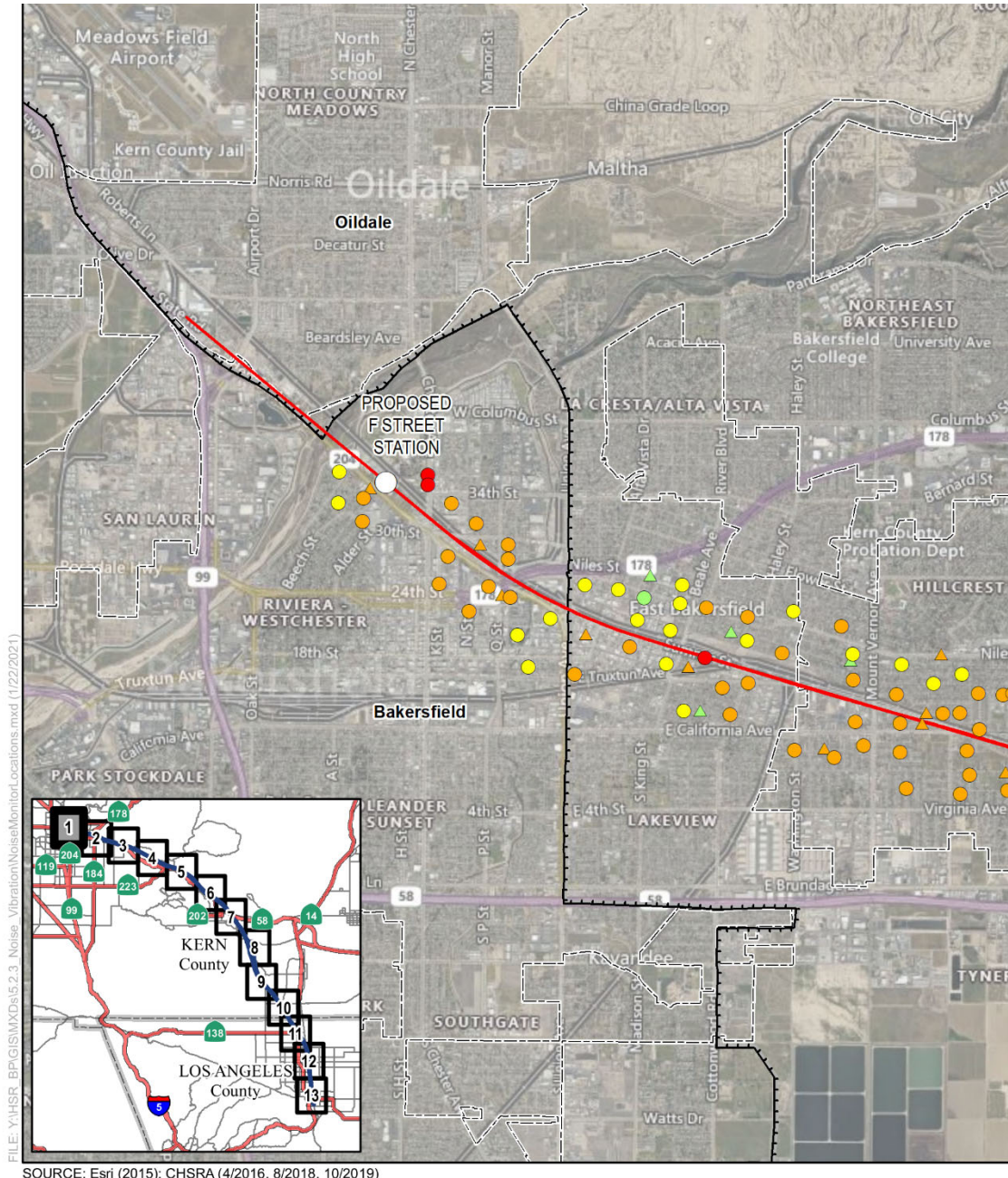
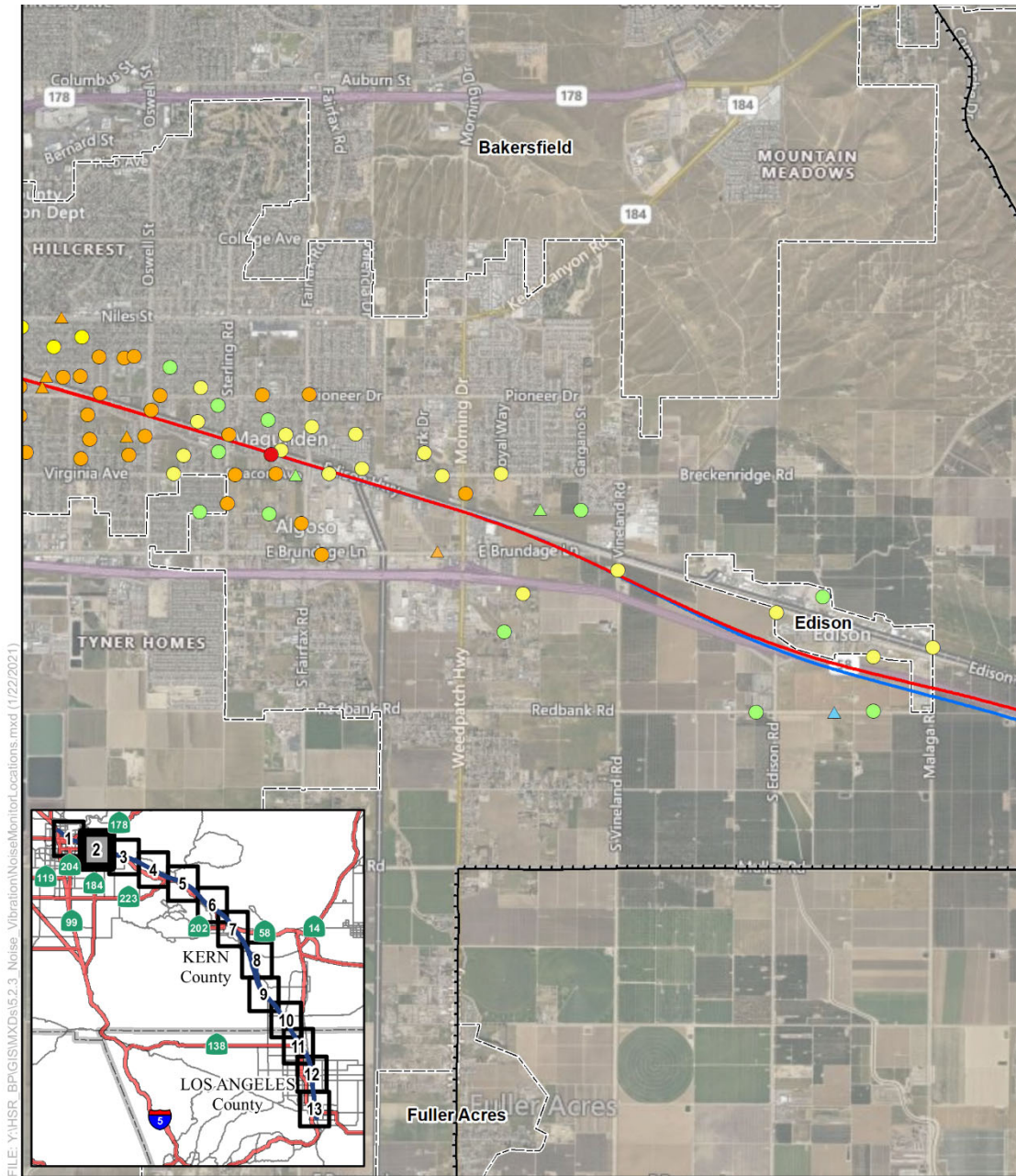


Figure 3.4-A-1 Noise Level Measurement Locations
(Sheet 1 of 13)



SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

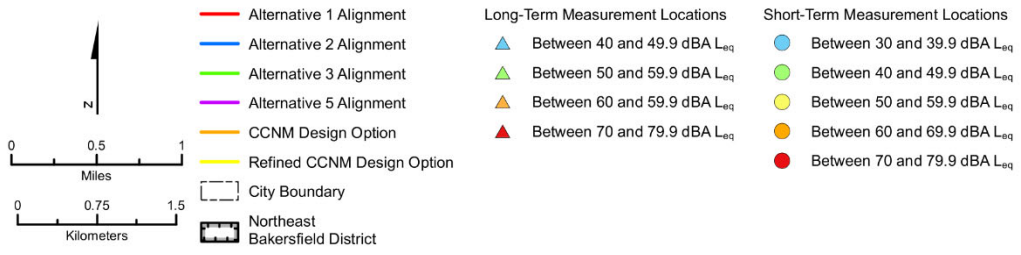
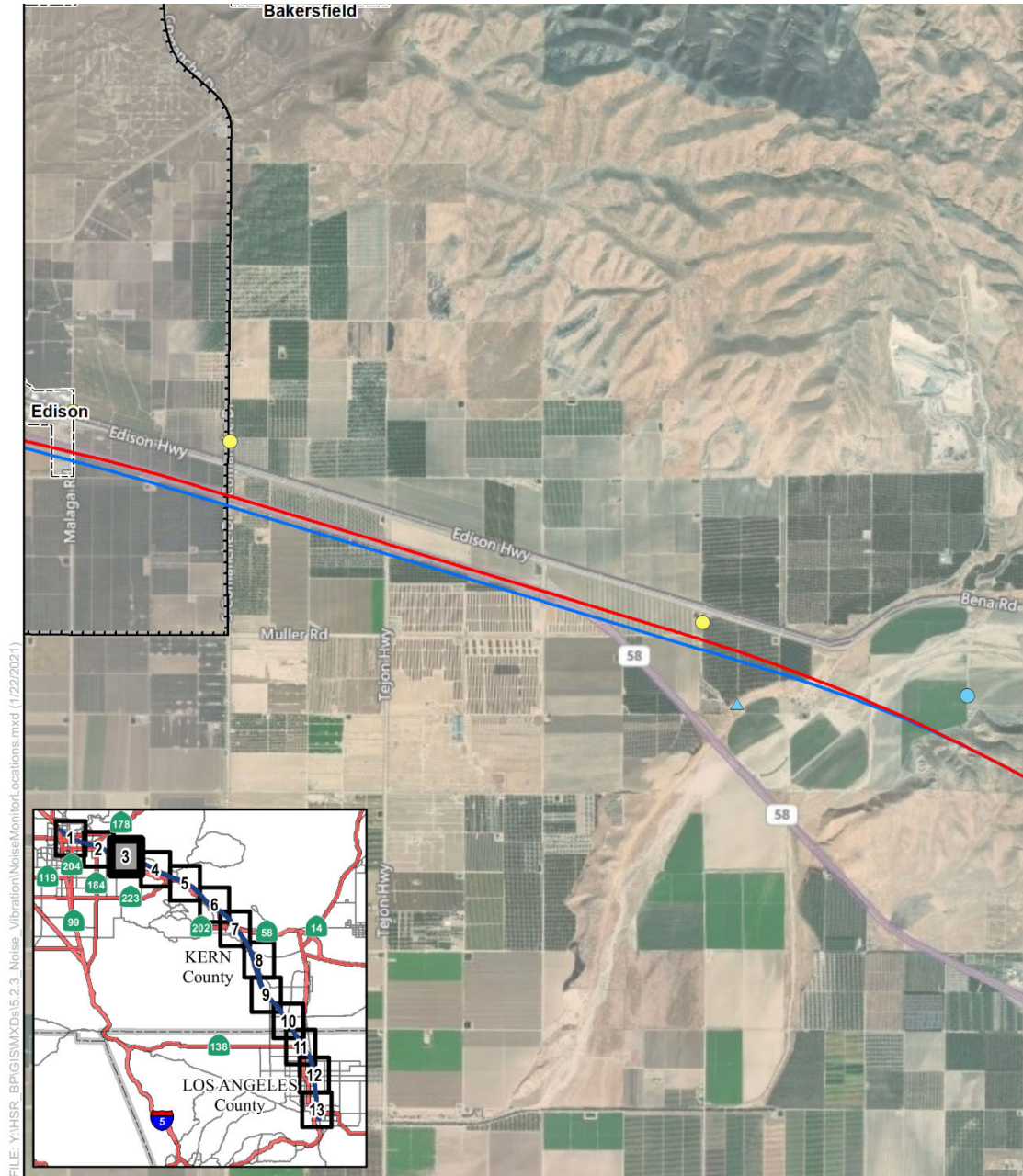


Figure 3.4-A-1 Noise Level Measurement Locations

(Sheet 2 of 13)

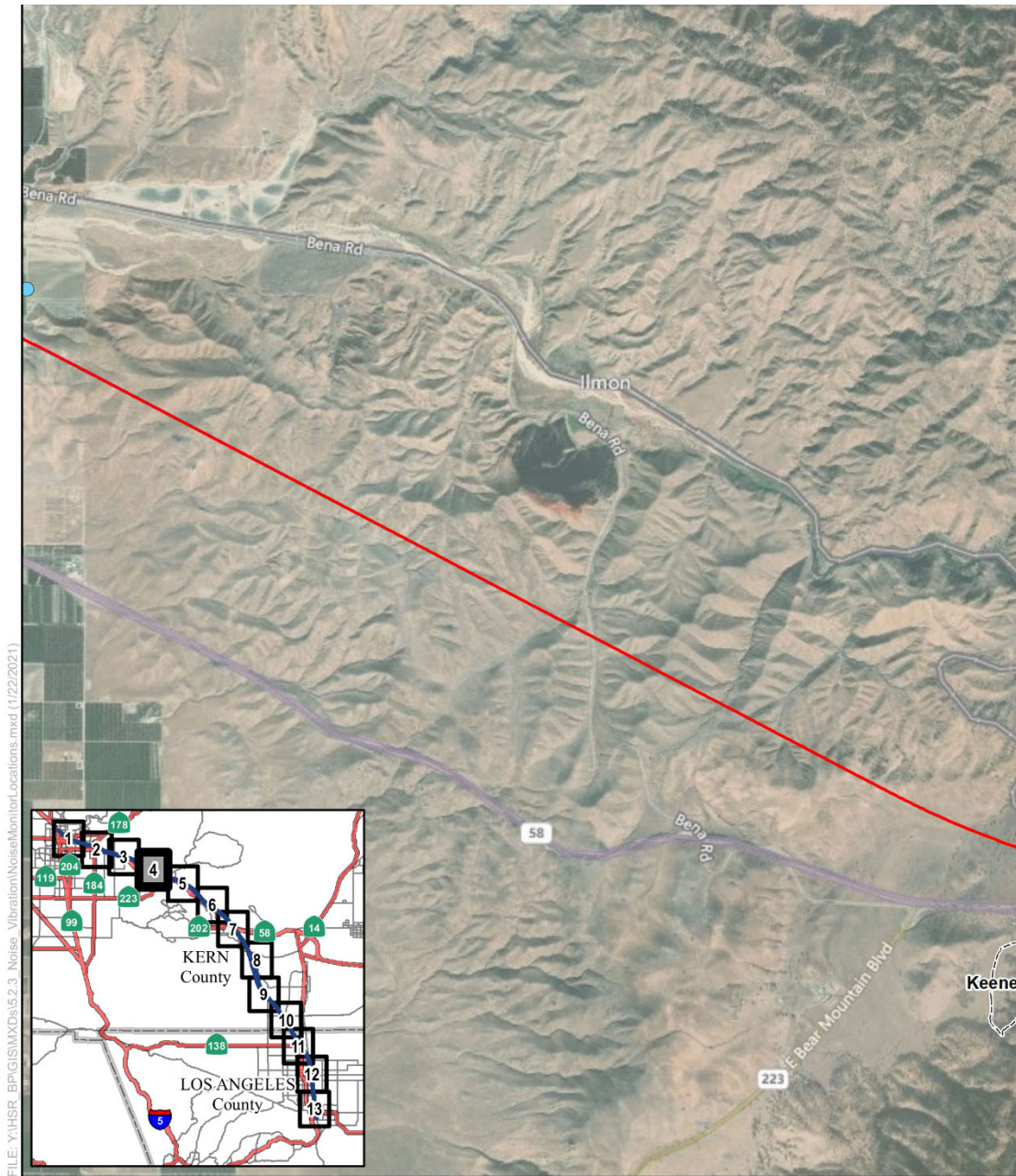


FILE: Y:\HSR_BP\GIS\MXD\5.2.3 Noise_Vibration\NoiseMonitorLocations.mxd (1/22/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)



Figure 3.4-A-1 Noise Level Measurement Locations
(Sheet 3 of 13)



FILE: Y:\HSR_BPG\GIS\XDS\5.2.3 Noise_Vibration\NoiseMonitorLocations.mxd (1/22/2021)

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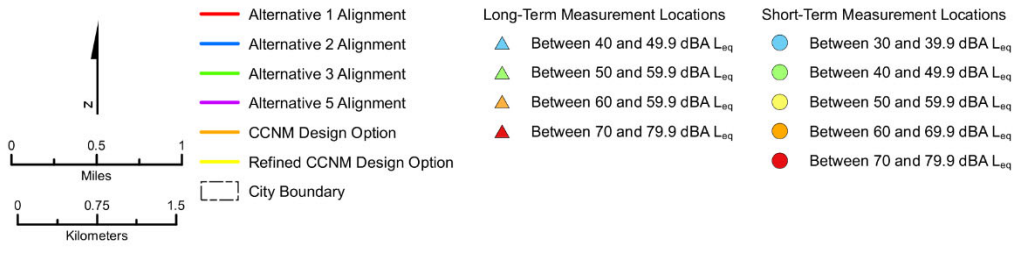
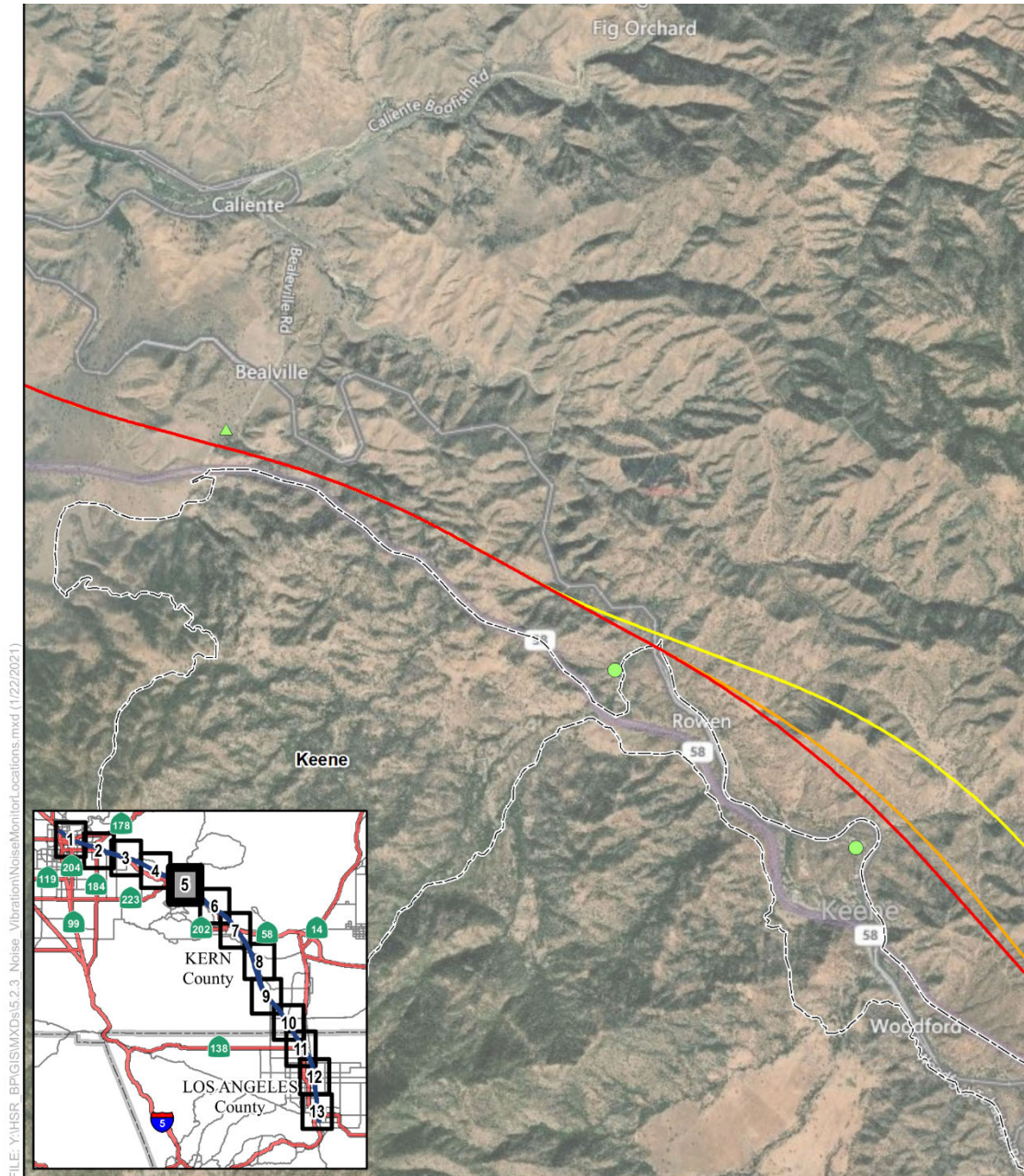


Figure 3.4-A-1 Noise Level Measurement Locations

(Sheet 4 of 13)



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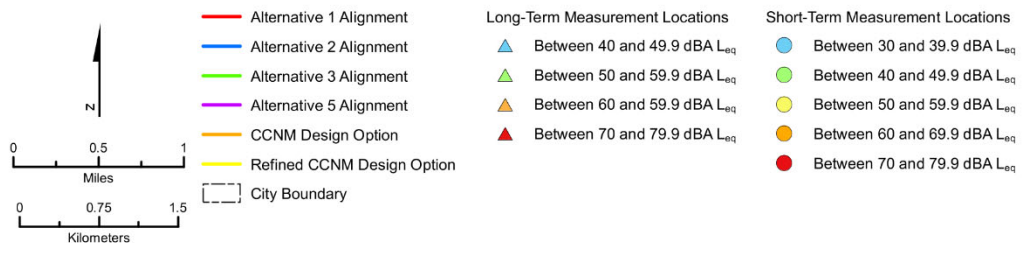


Figure 3.4-A-1 Noise Level Measurement Locations
(Sheet 5 of 13)

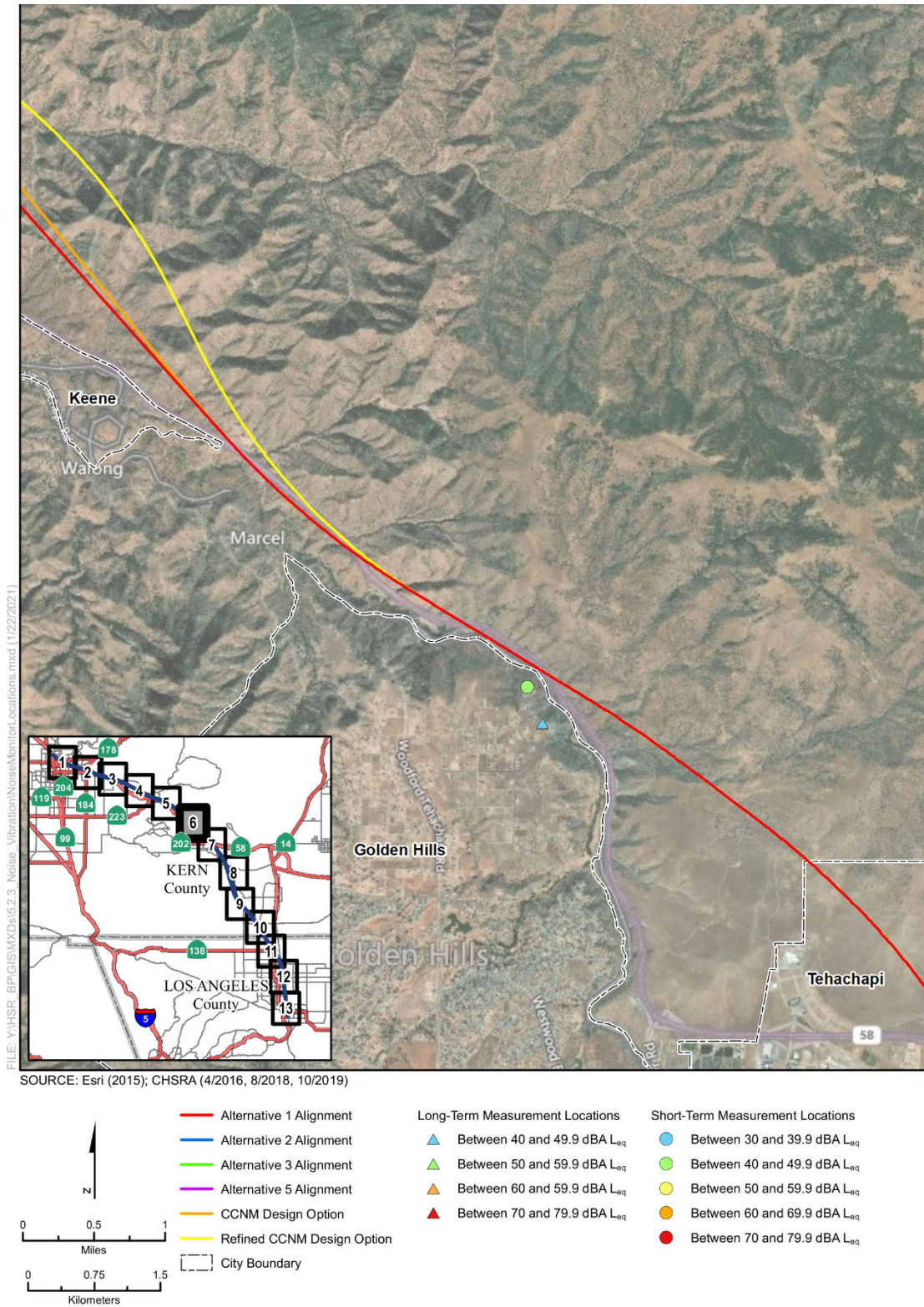
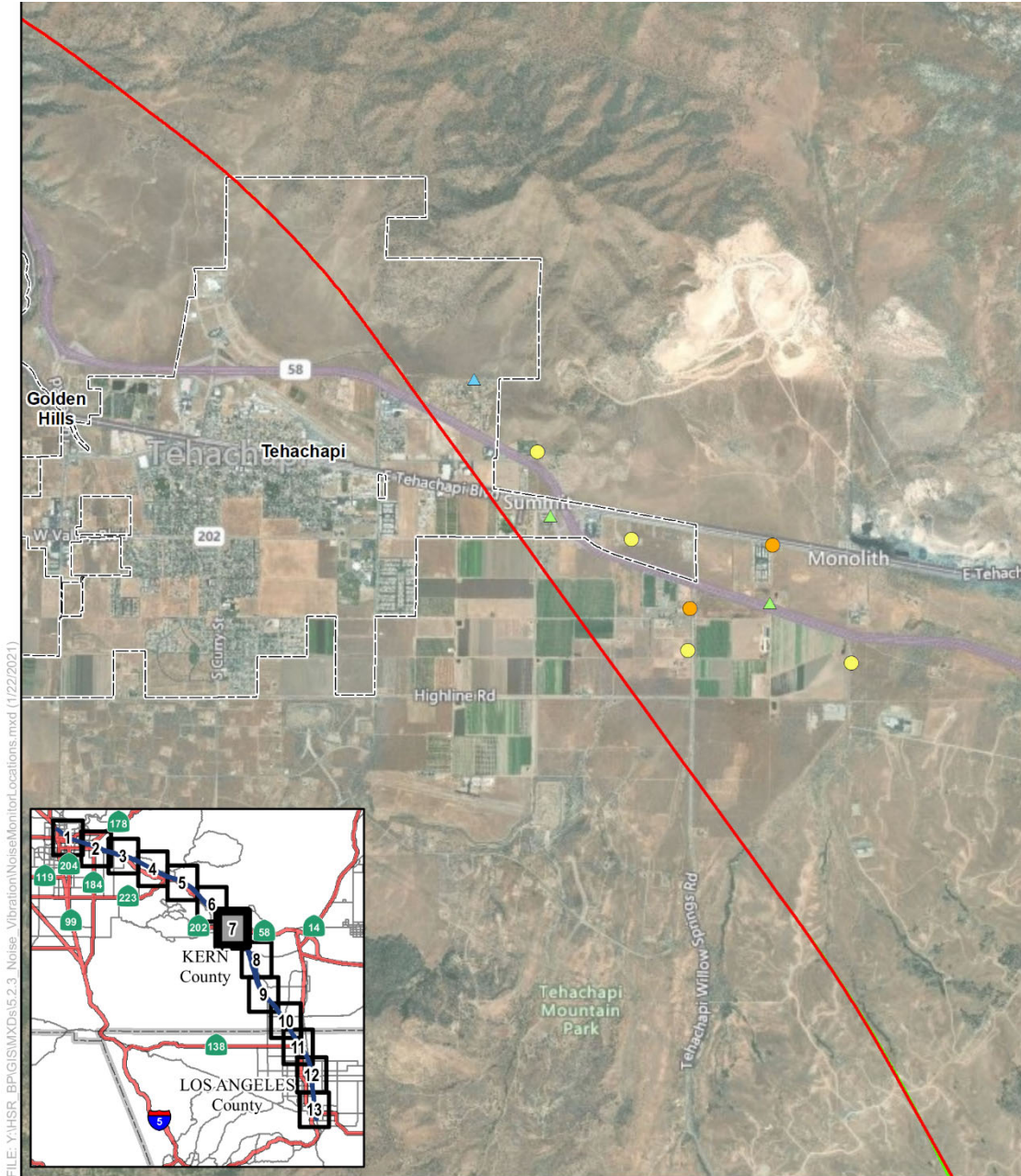


Figure 3.4-A-1 Noise Level Measurement Locations
(Sheet 6 of 13)



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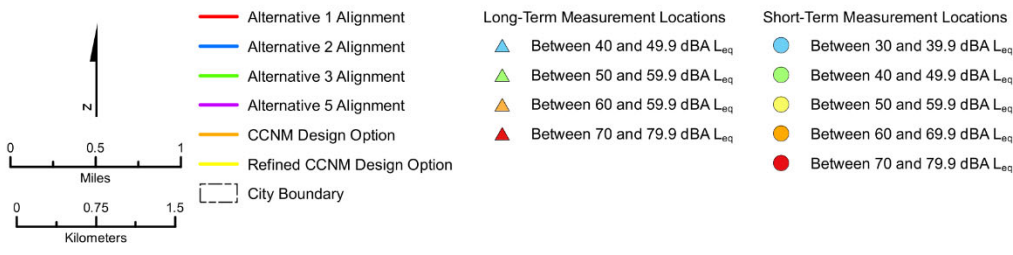
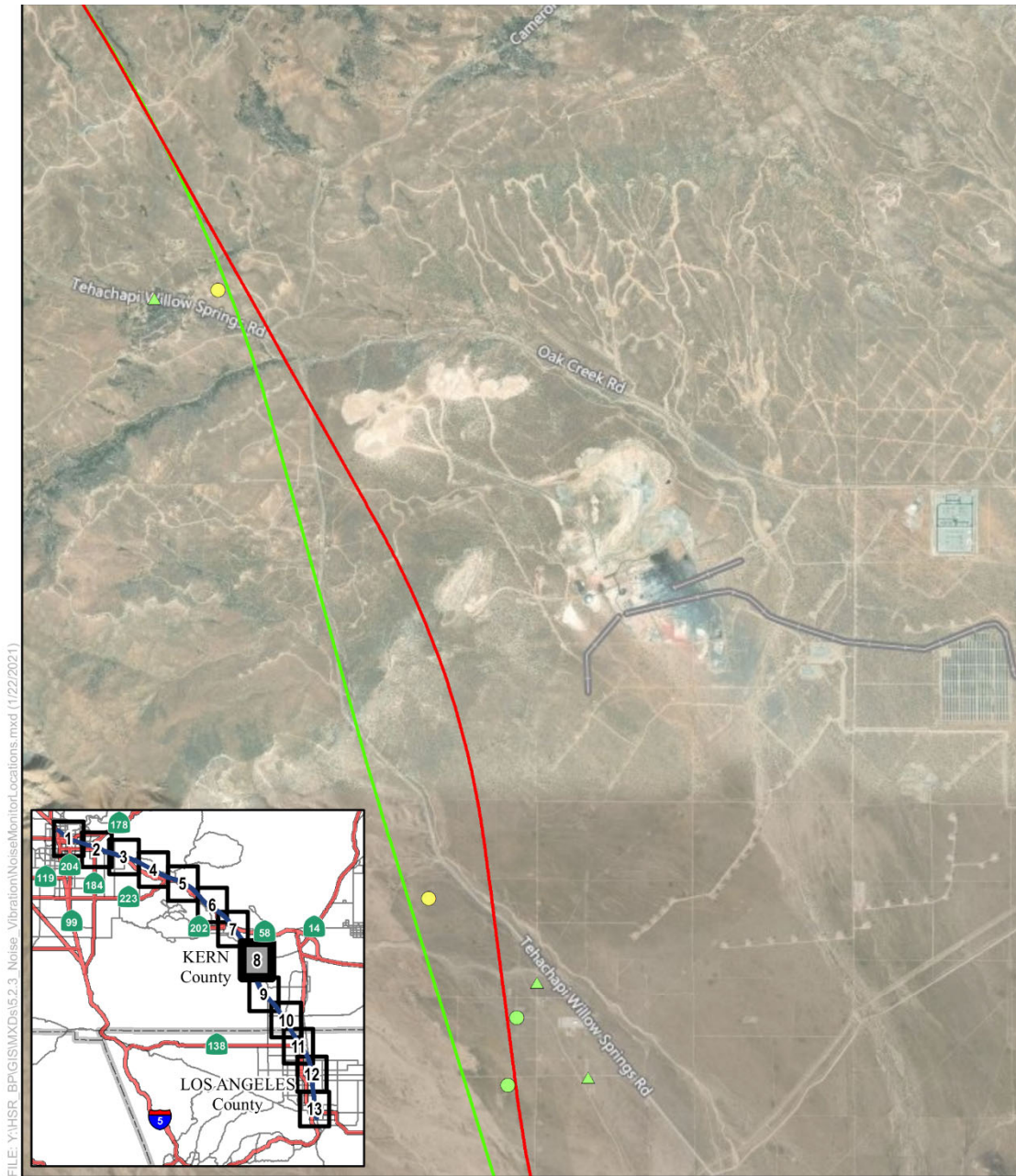


Figure 3.4-A-1 Noise Level Measurement Locations
(Sheet 7 of 13)



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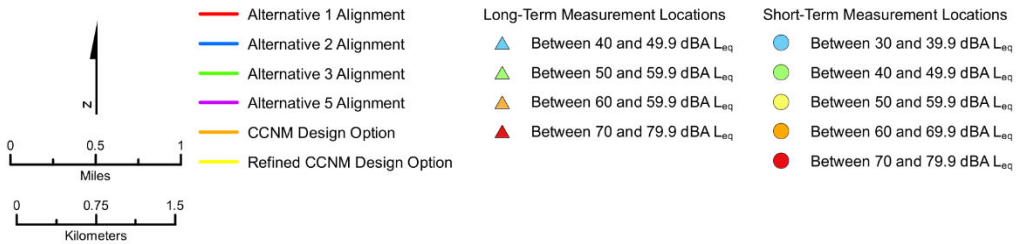
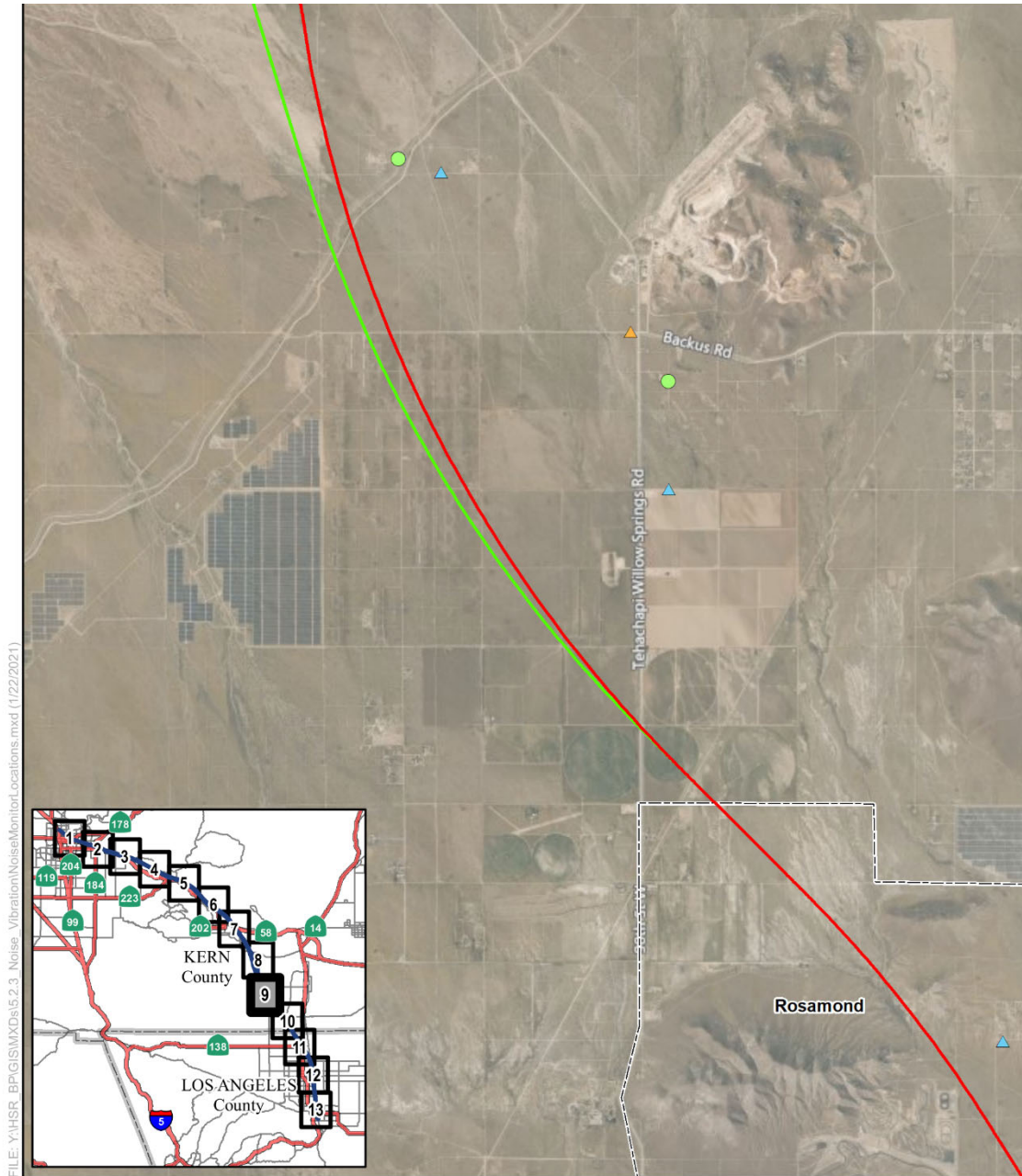


Figure 3.4-A-1 Noise Level Measurement Locations
(Sheet 8 of 13)



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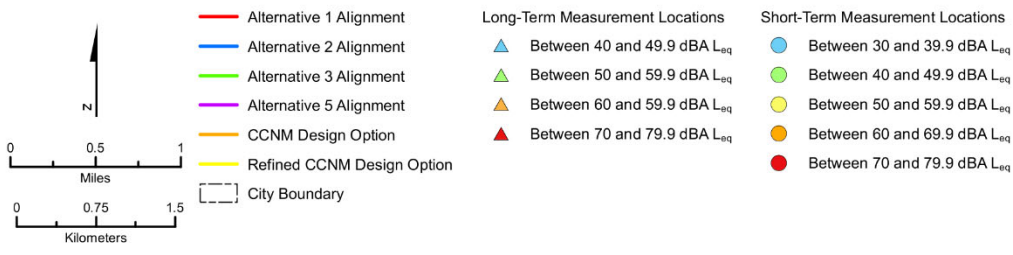
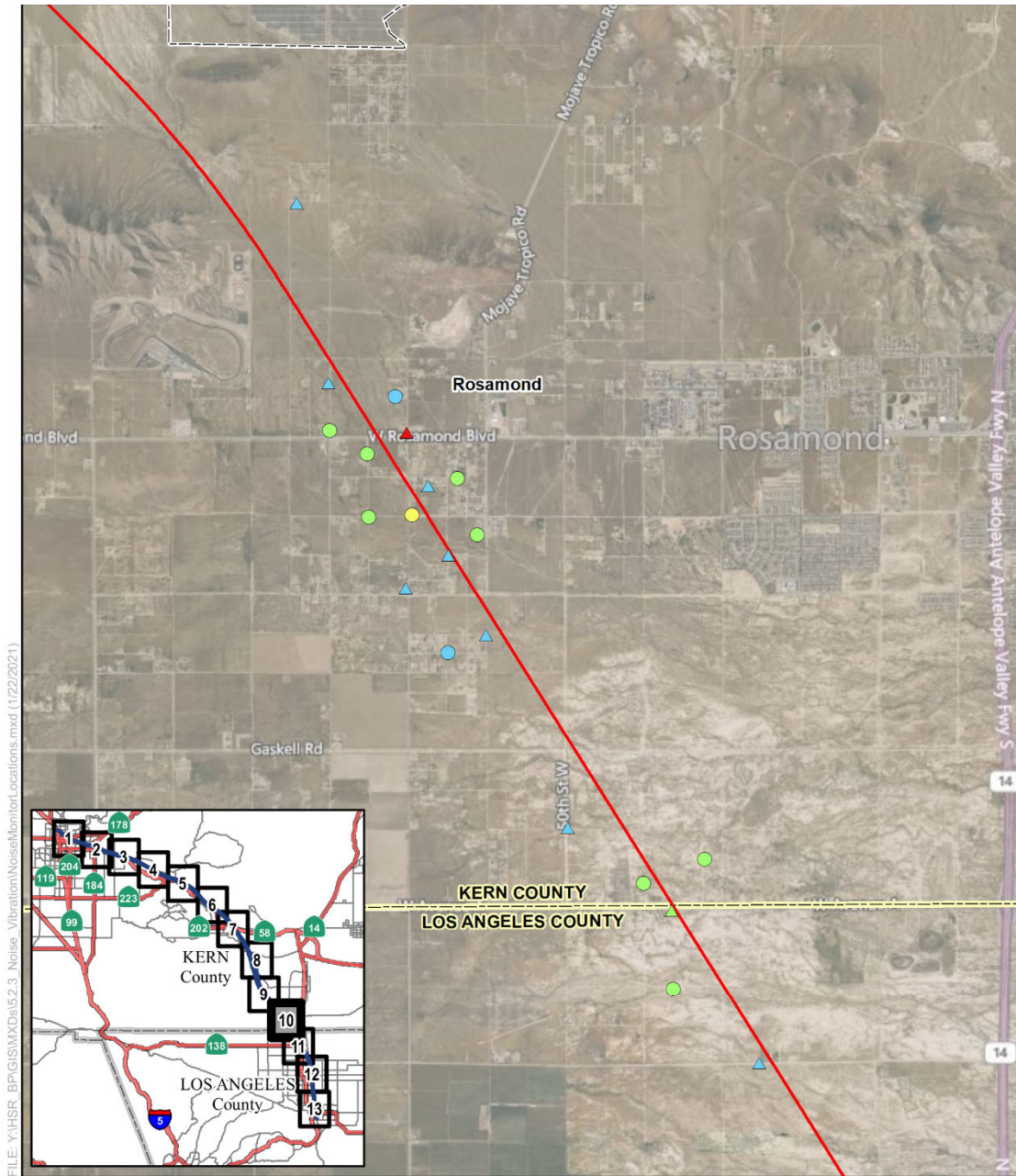


Figure 3.4-A-1 Noise Level Measurement Locations
(Sheet 9 of 13)



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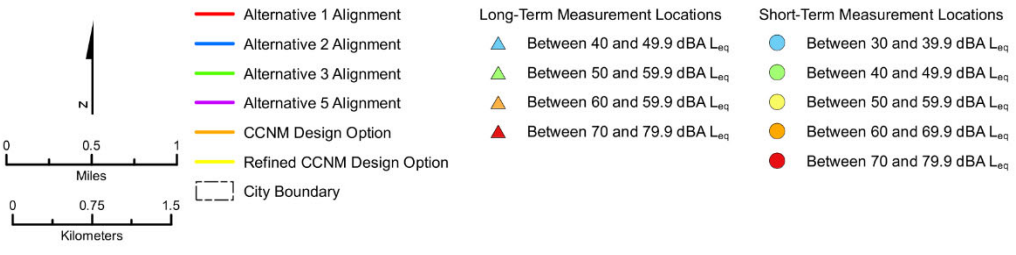


Figure 3.4-A-1 Noise Level Measurement Locations

(Sheet 10 of 13)

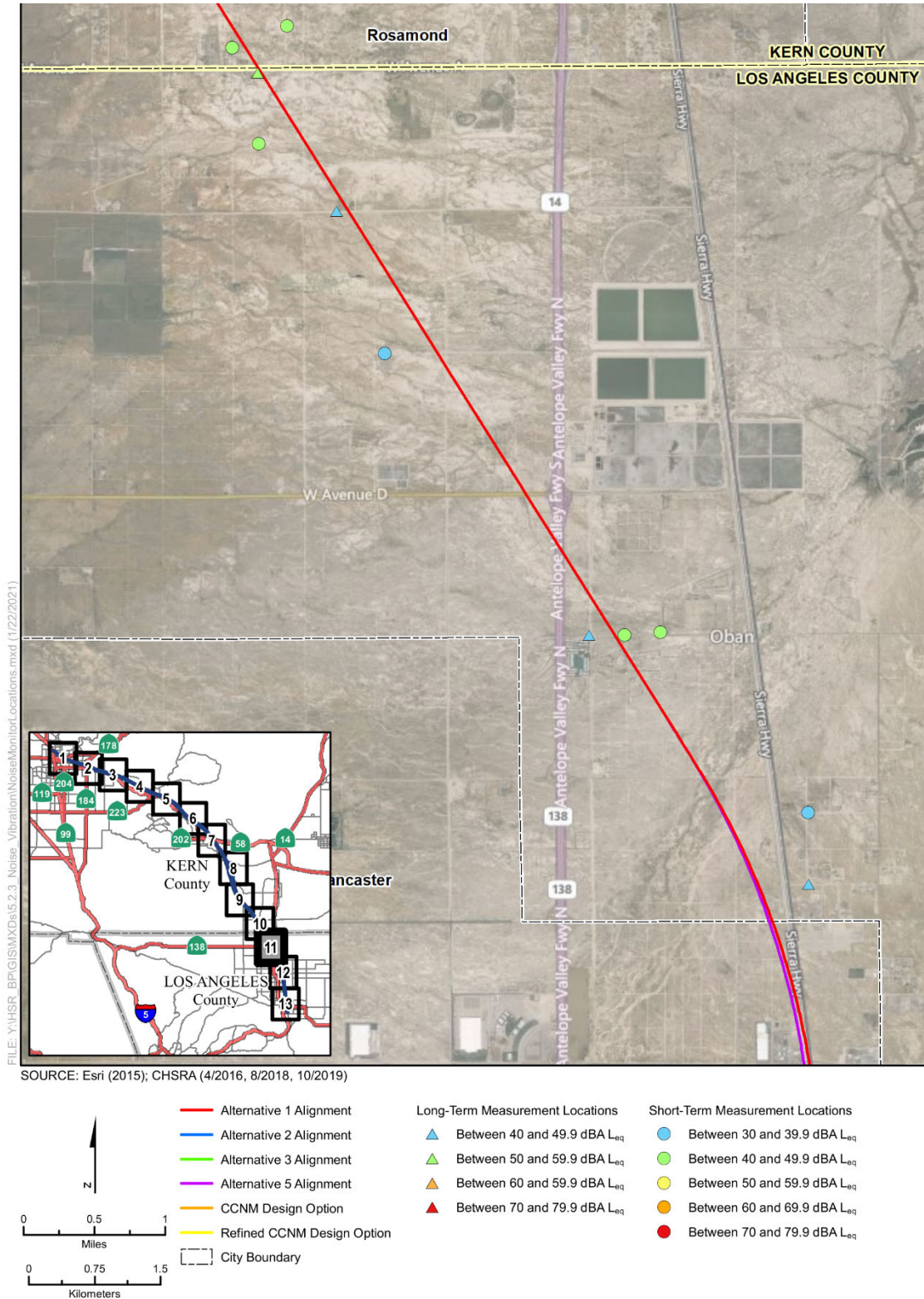
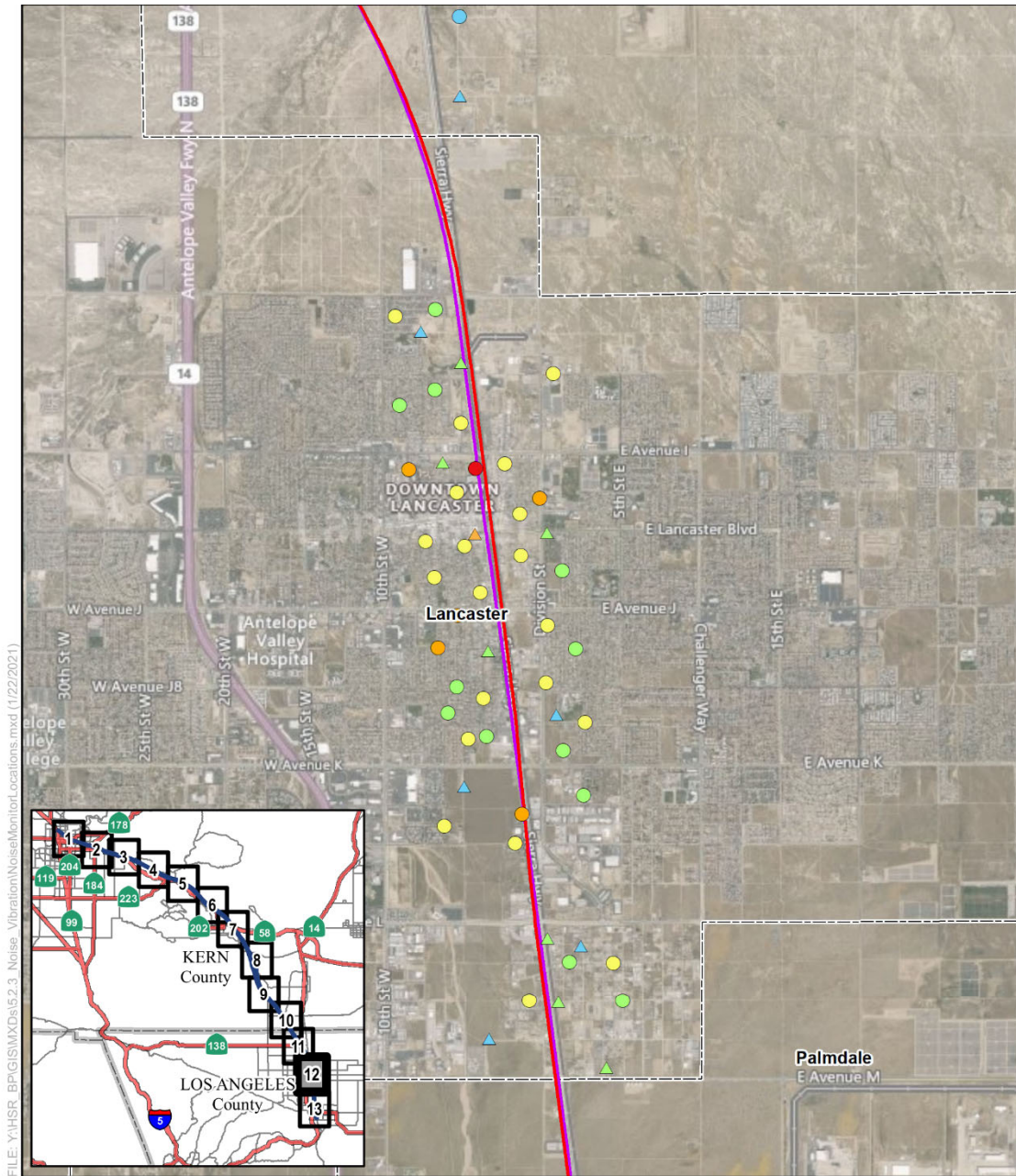


Figure 3.4-A-1 Noise Level Measurement Locations
(Sheet 11 of 13)



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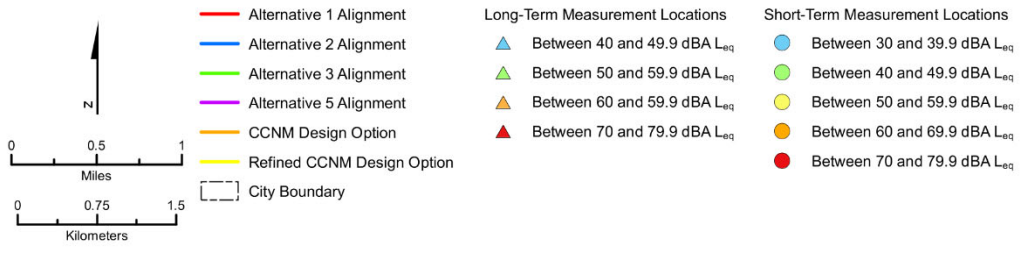
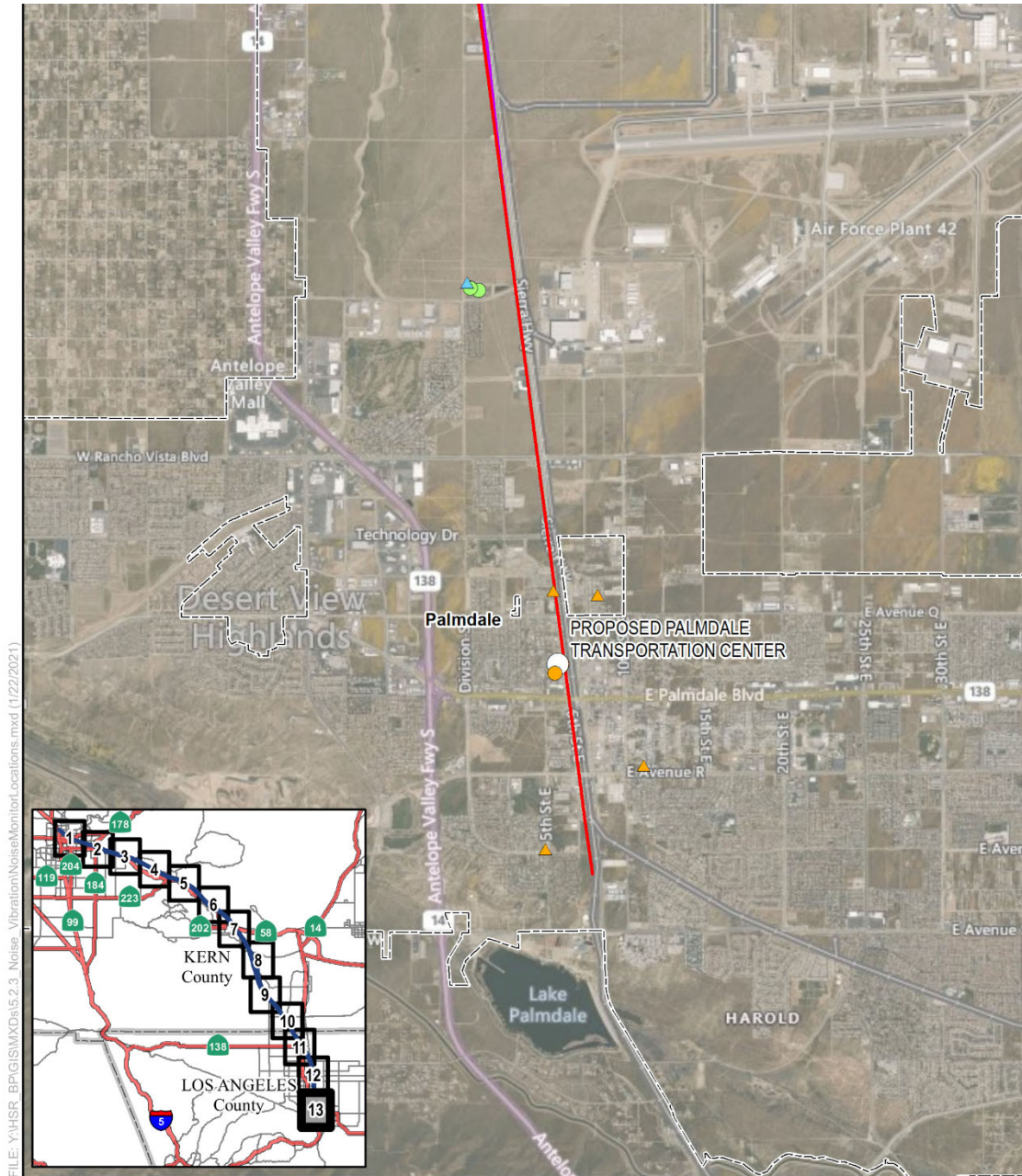


Figure 3.4-A-1 Noise Level Measurement Locations

(Sheet 12 of 13)



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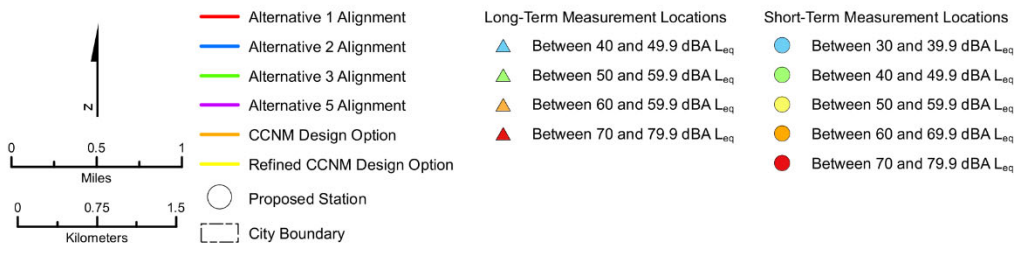
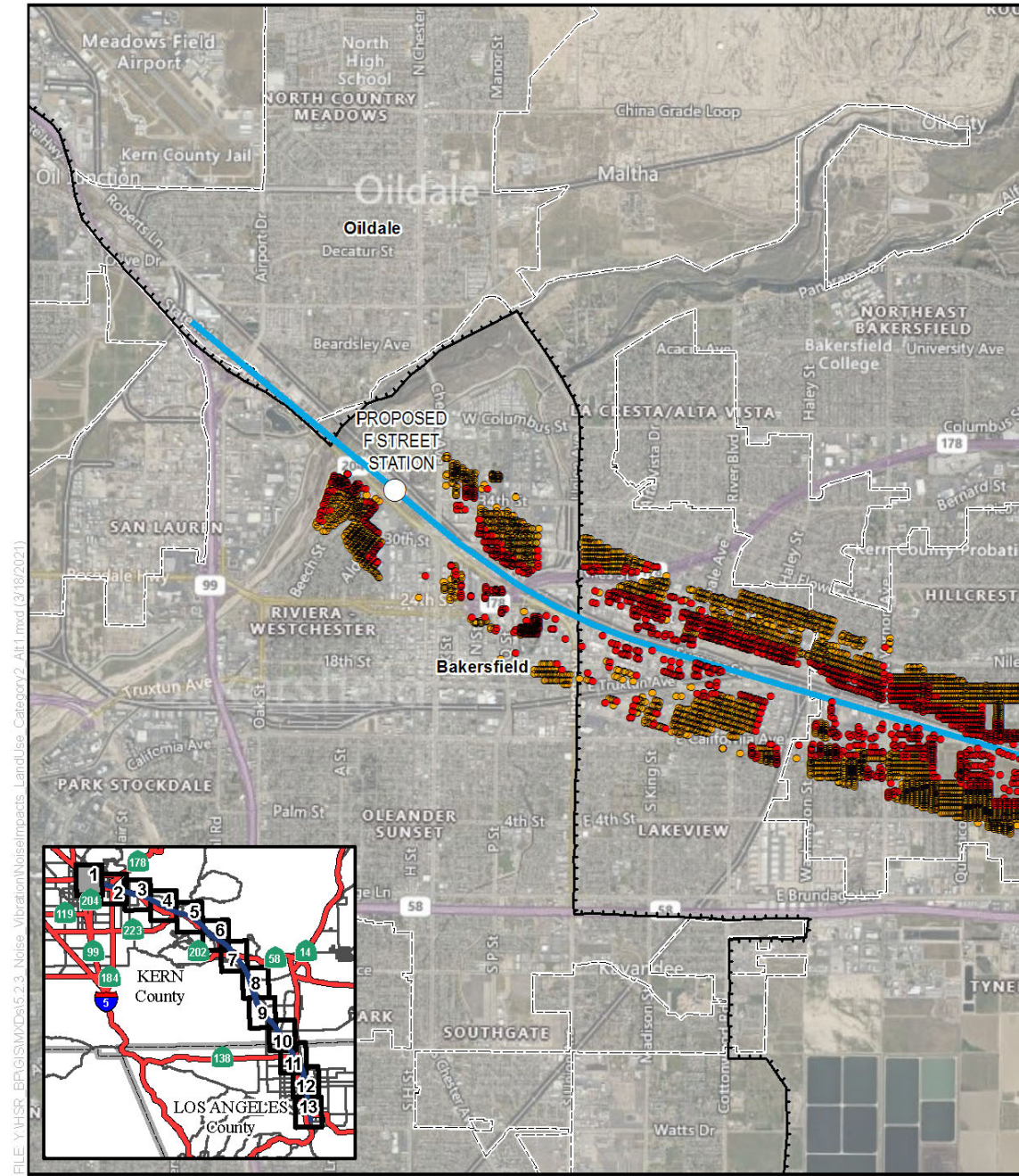
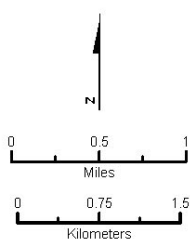


Figure 3.4-A-1 Noise Level Measurement Locations
(Sheet 13 of 13)



SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)



- | | | |
|---|---|---|
| Alternative 1 Alignment | Land Use Category 2 | City Boundary |
| — Elevated | ● Severe Impact | Northeast Bakersfield District |
| — Surface | ● Moderate Impact | |
| — Underground | | |
| Proposed Station | | |

Figure 3.4-A-2 Land Use Category 2 Noise Impacts—Alternative 1
(Sheet 1 of 13)

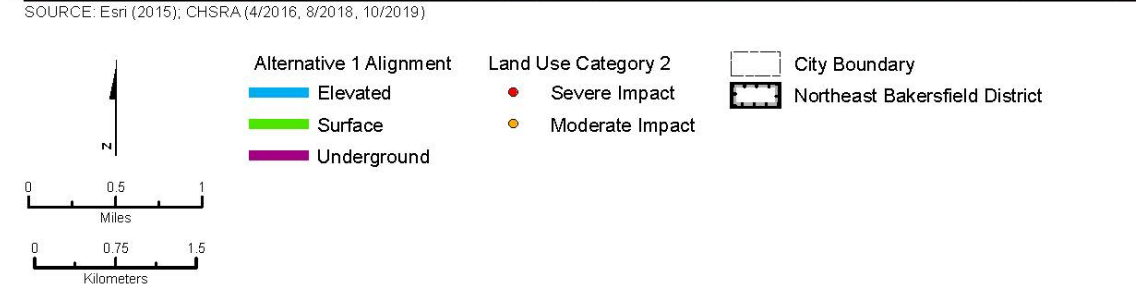
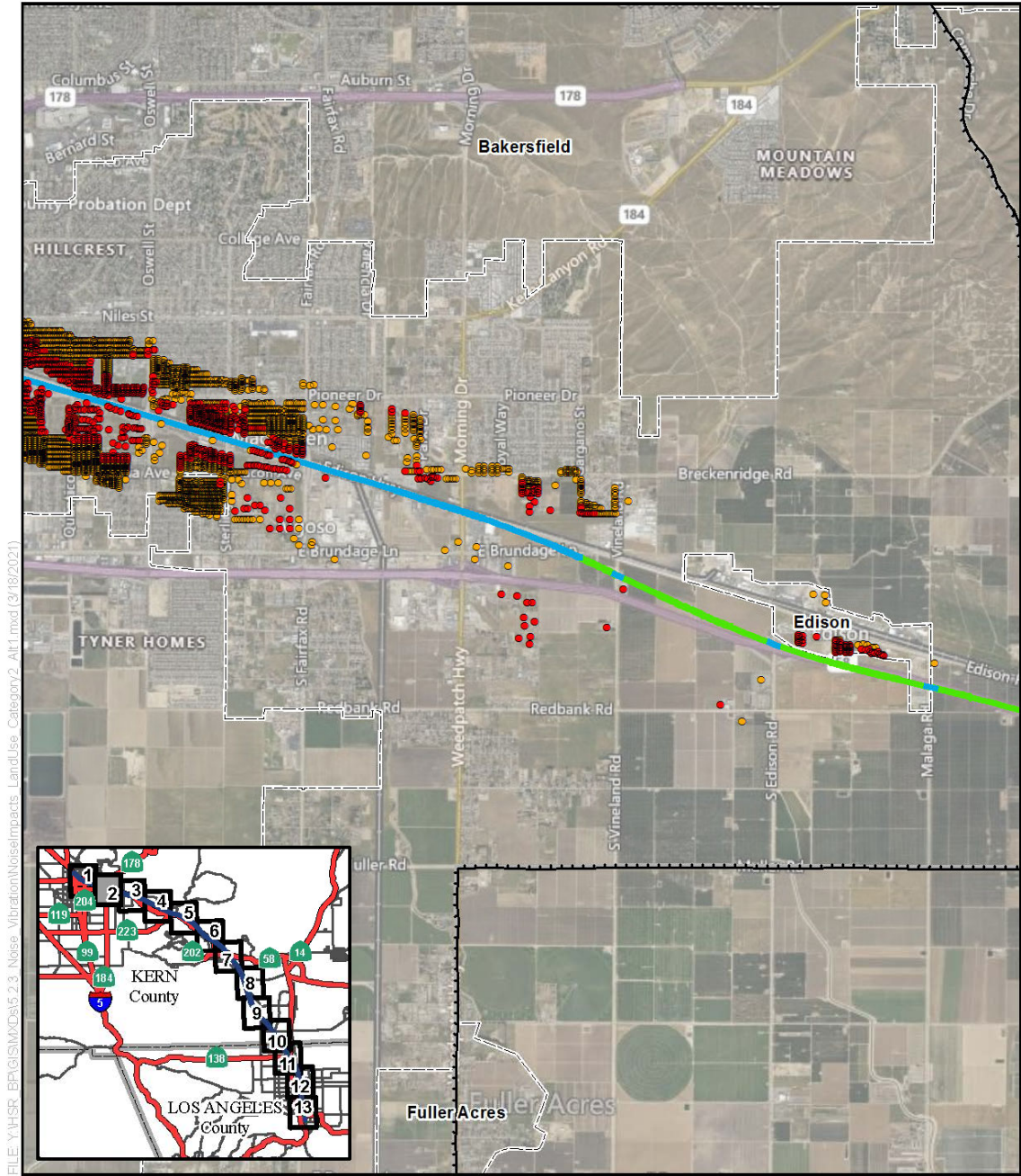
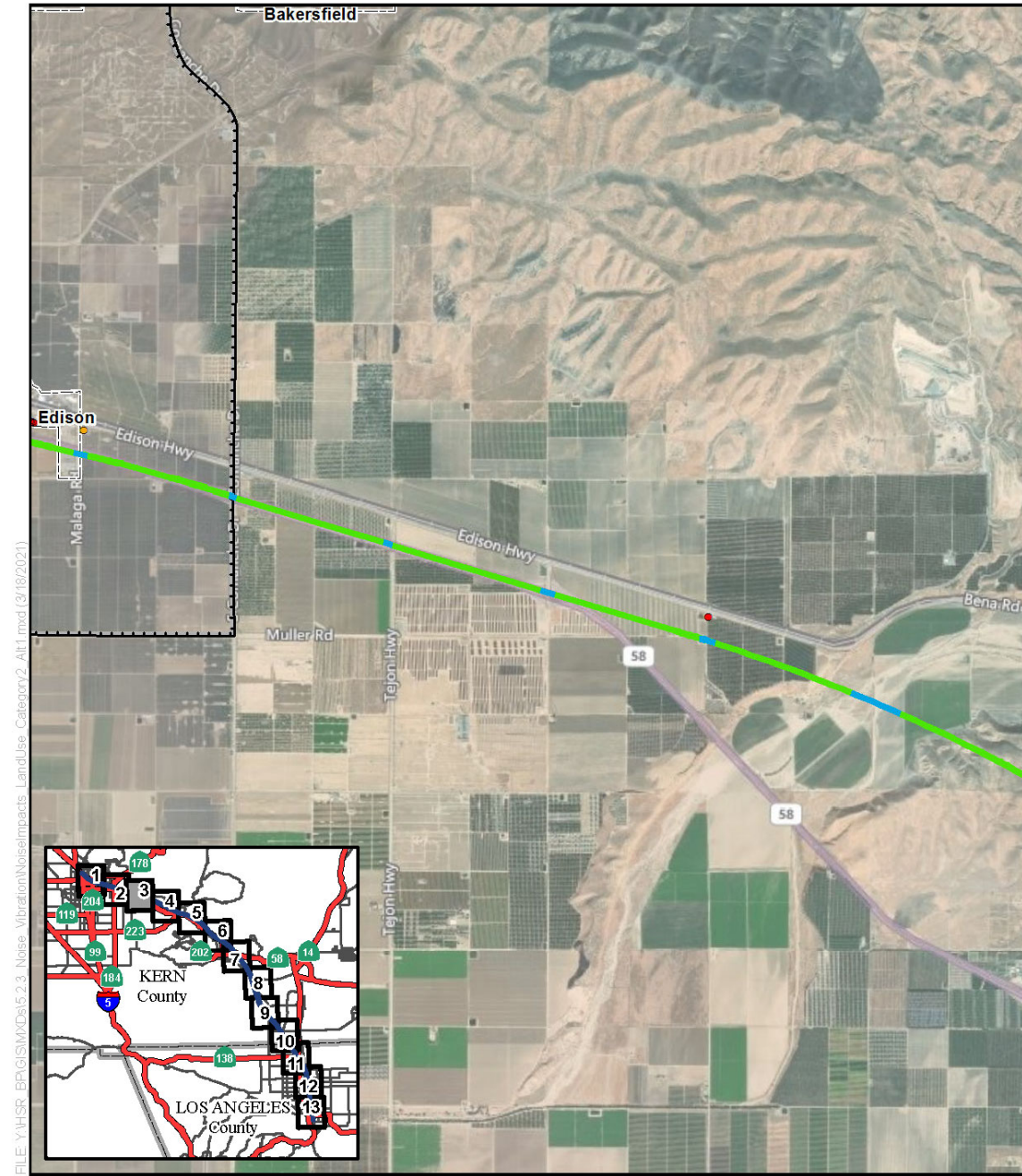


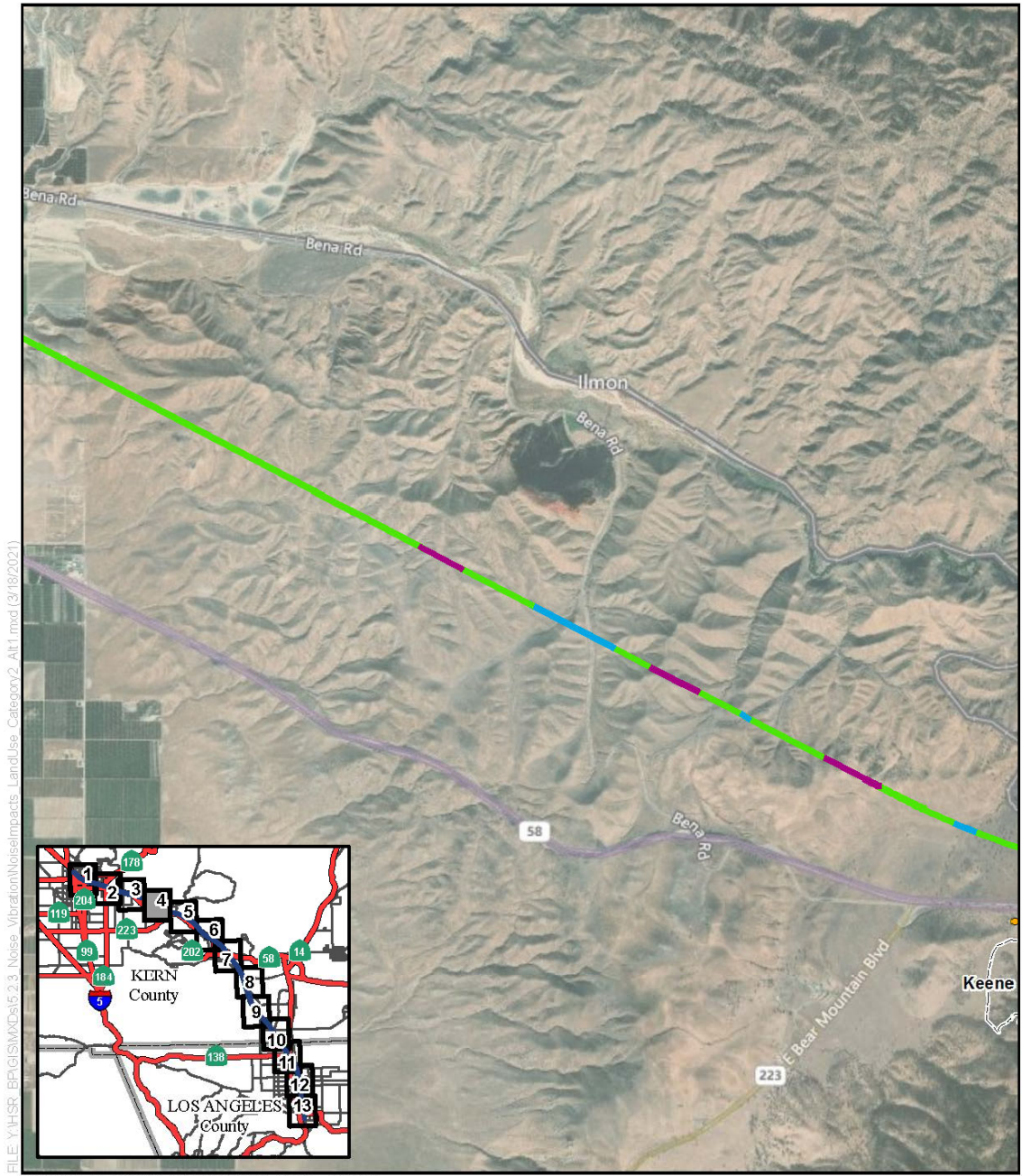
Figure 3.4-A-2 Land Use Category 2 Noise Impacts—Alternative 1
 (Sheet 2 of 13)



SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)



Figure 3.4-A-2 Land Use Category 2 Noise Impacts—Alternative 1
 (Sheet 3 of 13)



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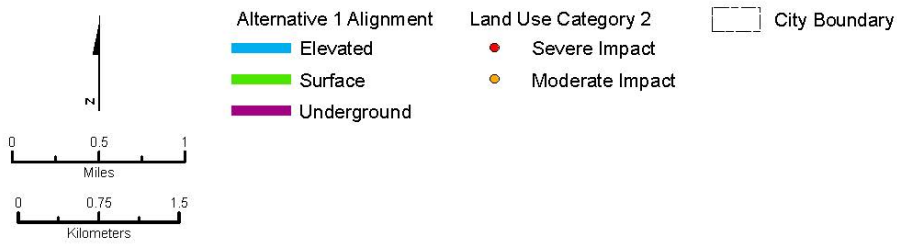
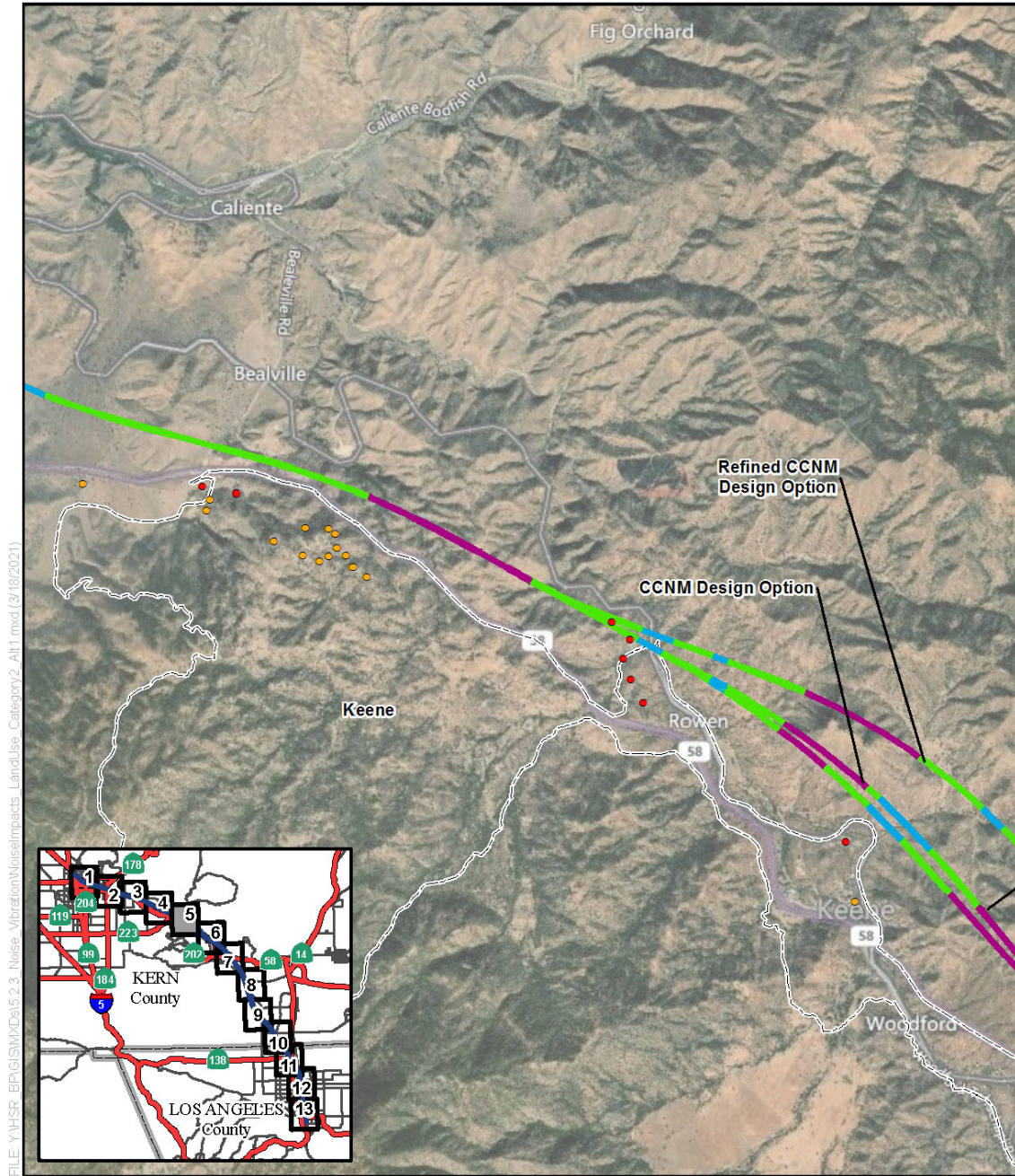


Figure 3.4-A-2 Land Use Category 2 Noise Impacts—Alternative 1
(Sheet 4 of 13)



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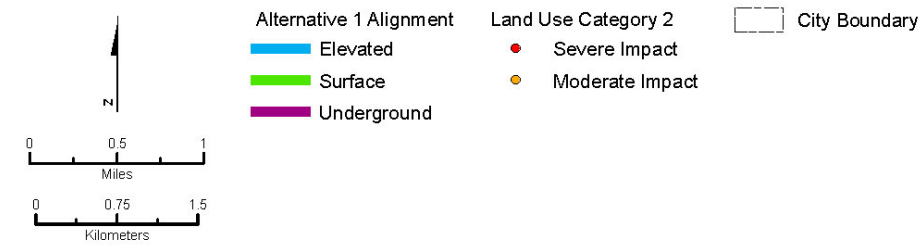
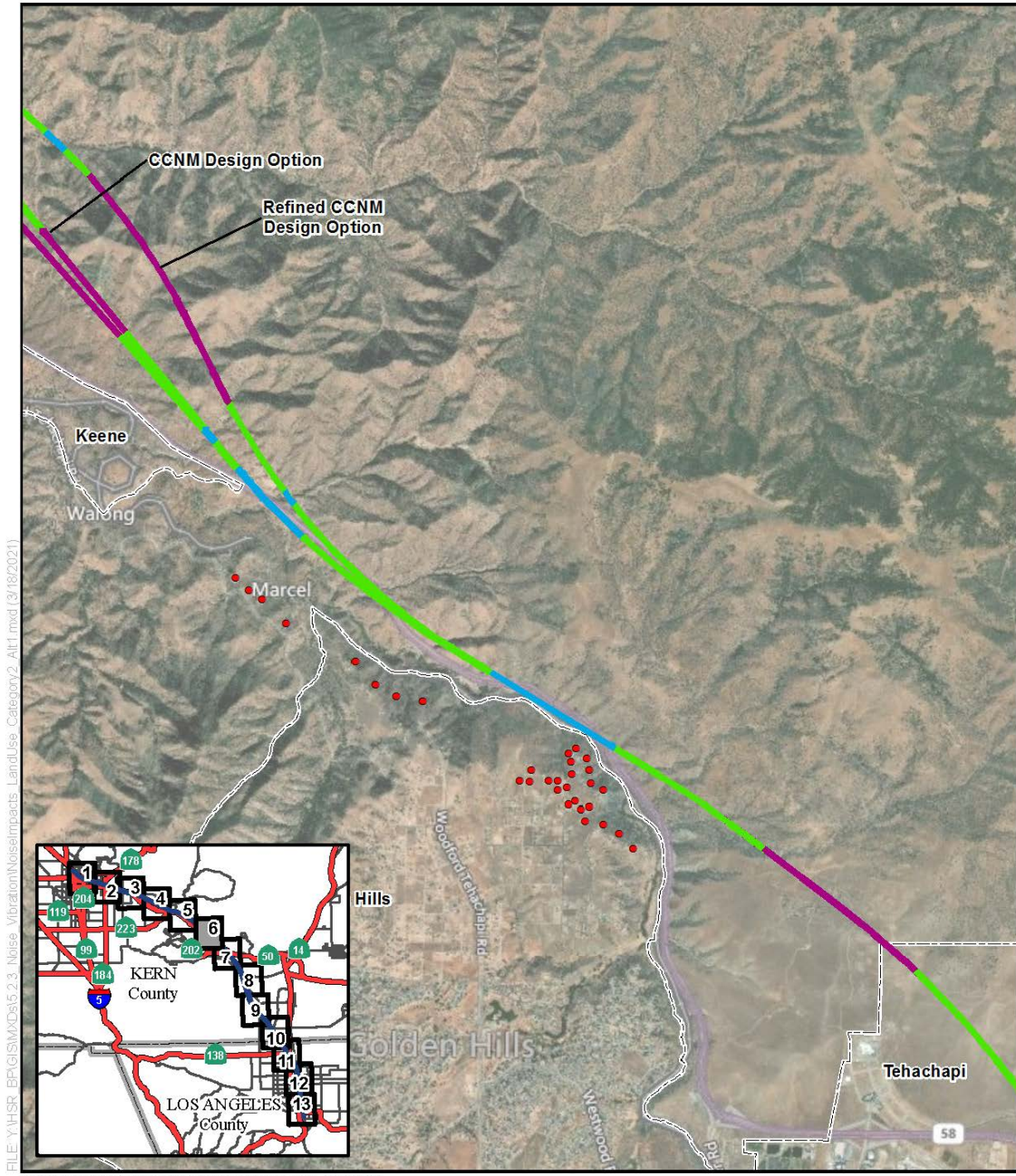


Figure 3.4-A-2 Land Use Category 2 Noise Impacts—Alternative 1
(Sheet 5 of 13)



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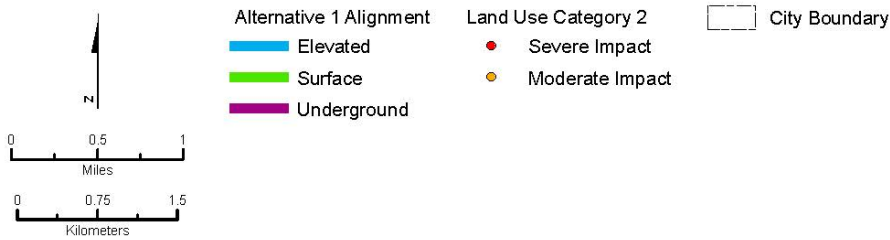
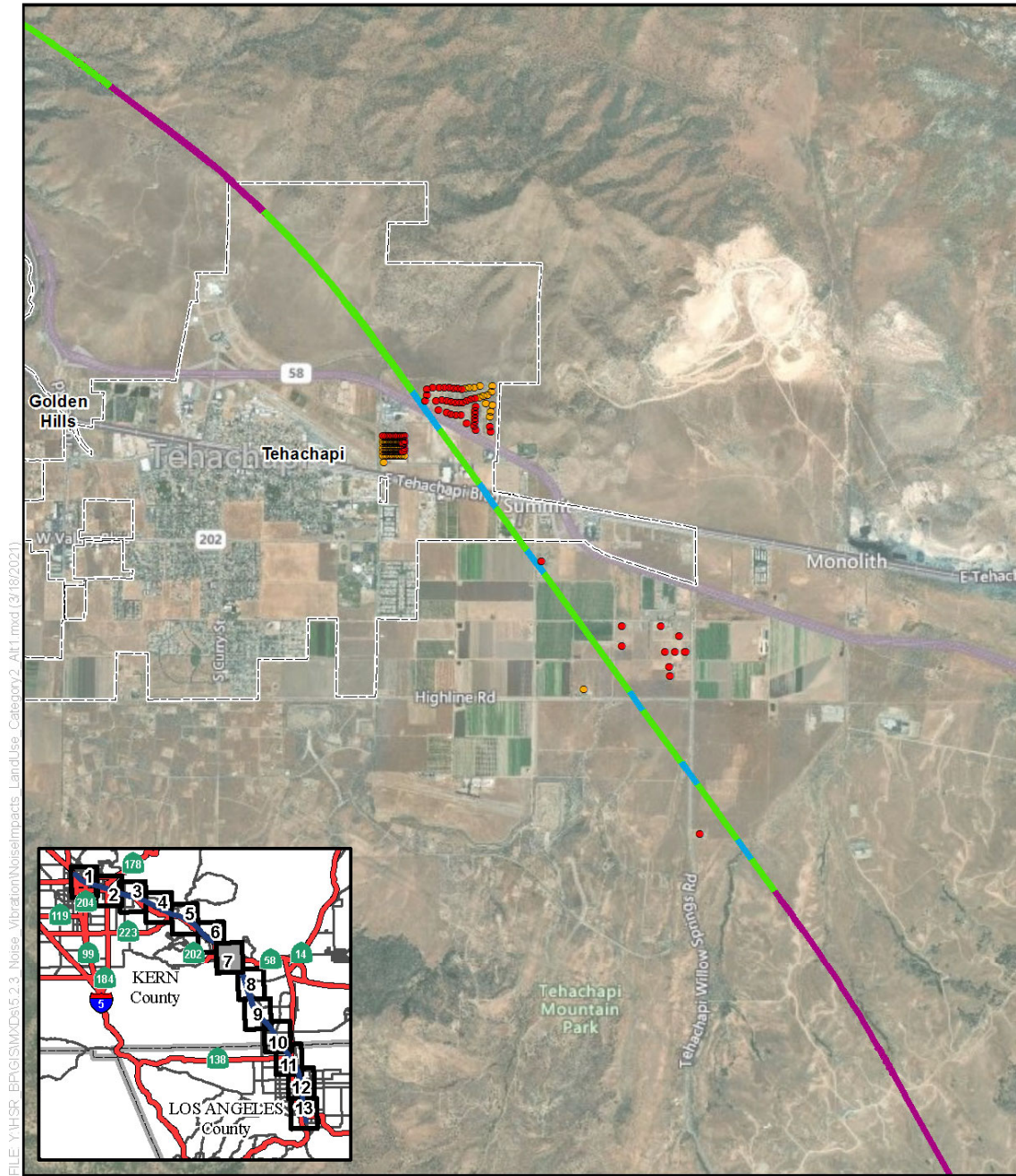


Figure 3.4-A-2 Land Use Category 2 Noise Impacts—Alternative 1
(Sheet 6 of 13)



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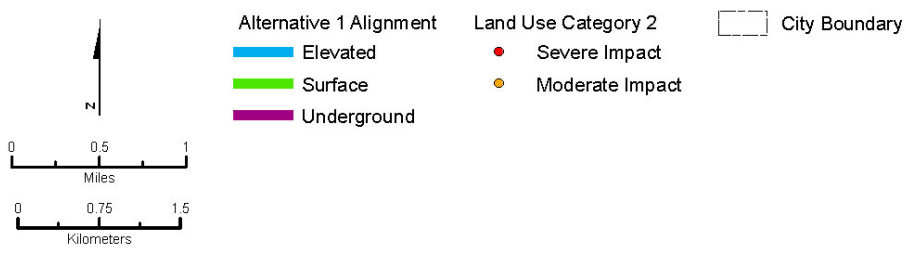
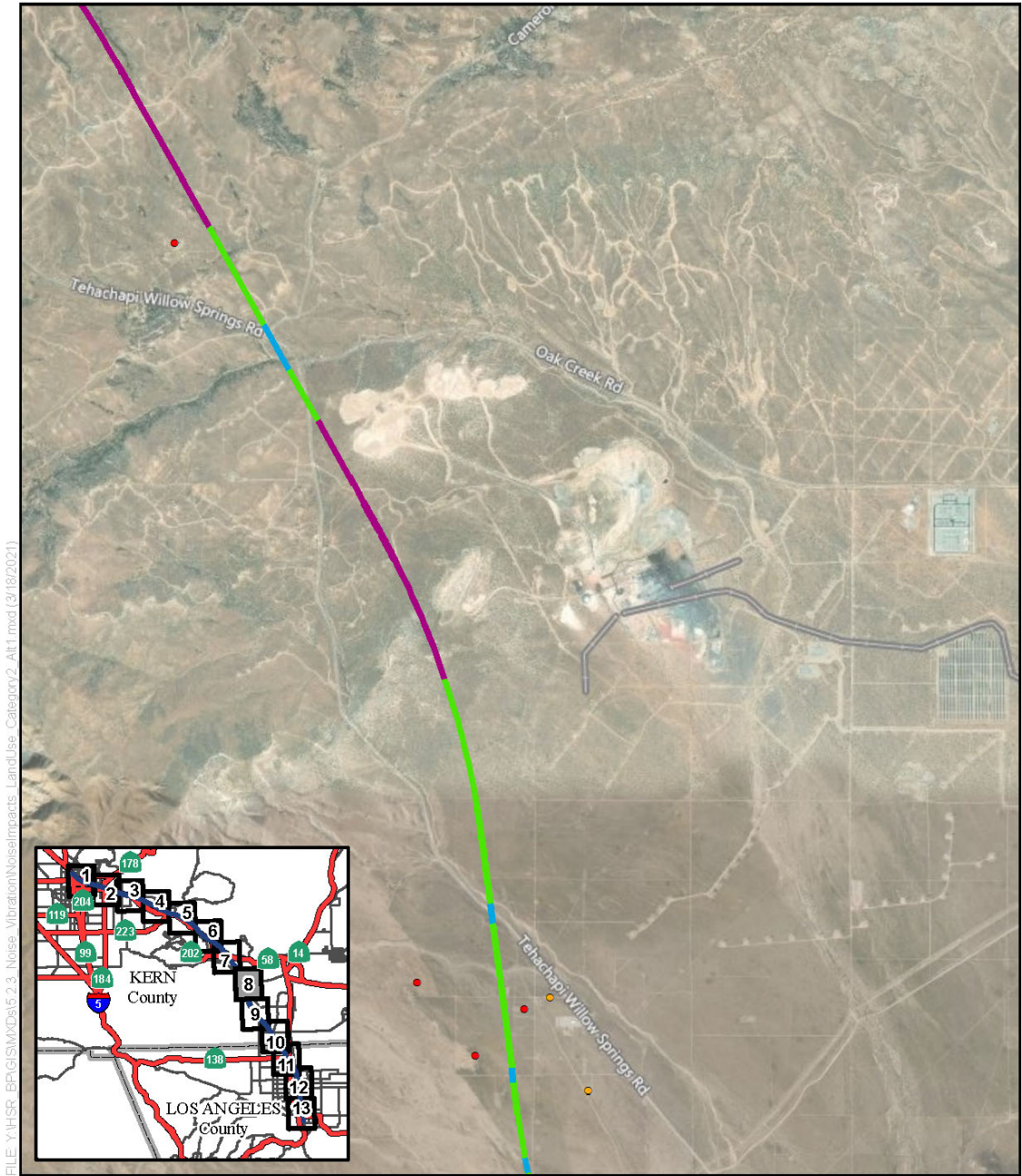


Figure 3.4-A-2 Land Use Category 2 Noise Impacts—Alternative 1
(Sheet 7 of 13)



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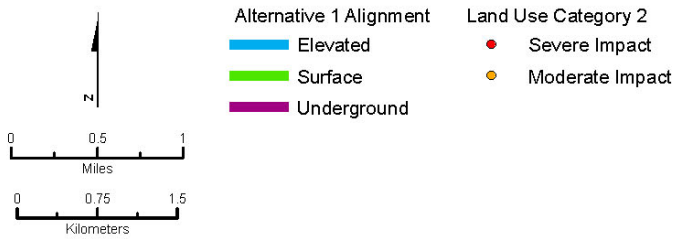
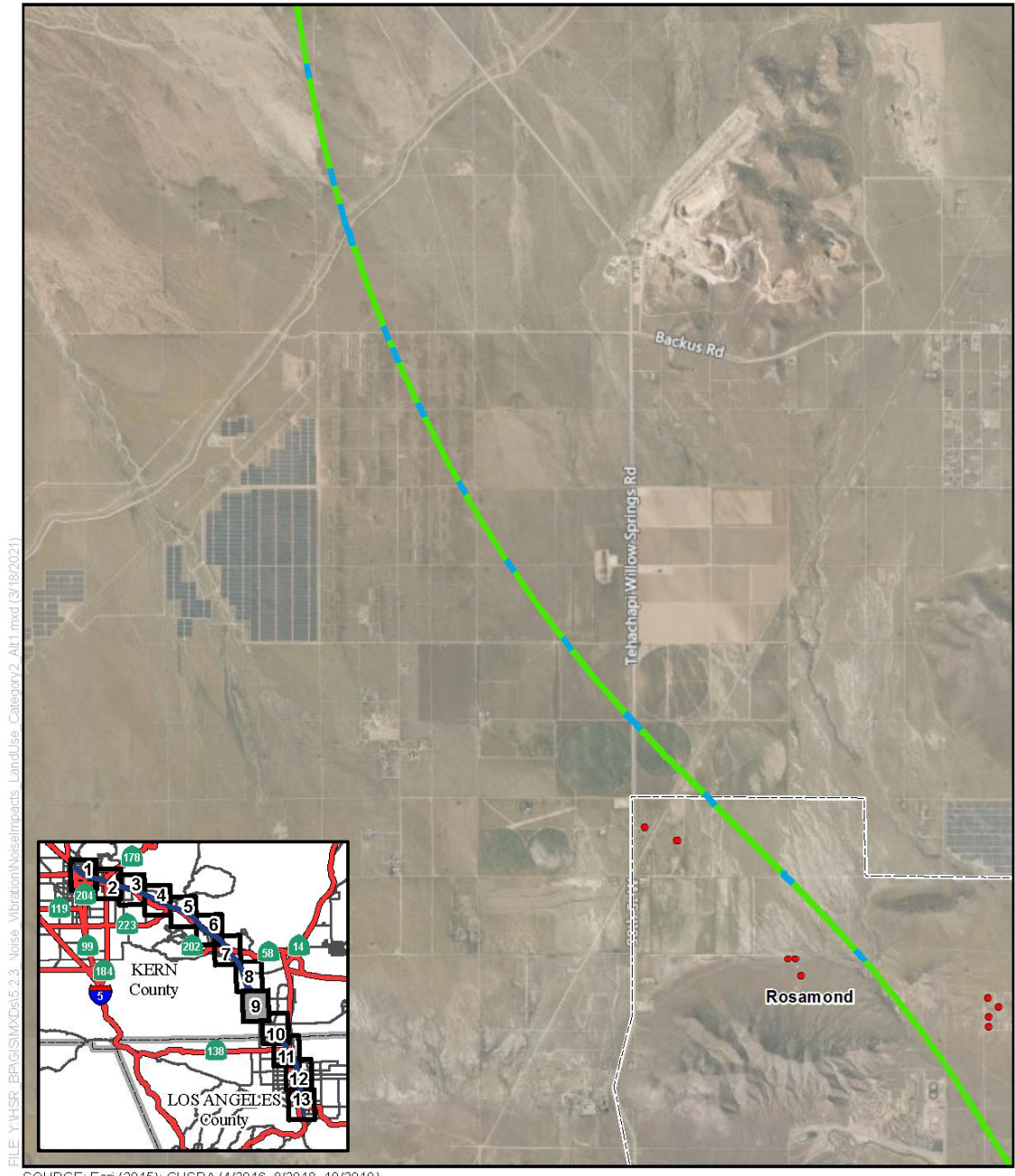


Figure 3.4-A-2 Land Use Category 2 Noise Impacts—Alternative 1
(Sheet 8 of 13)



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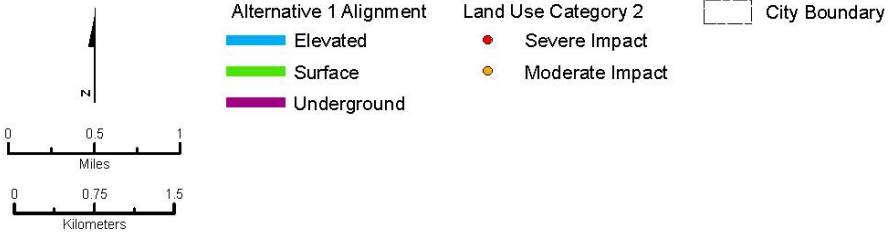
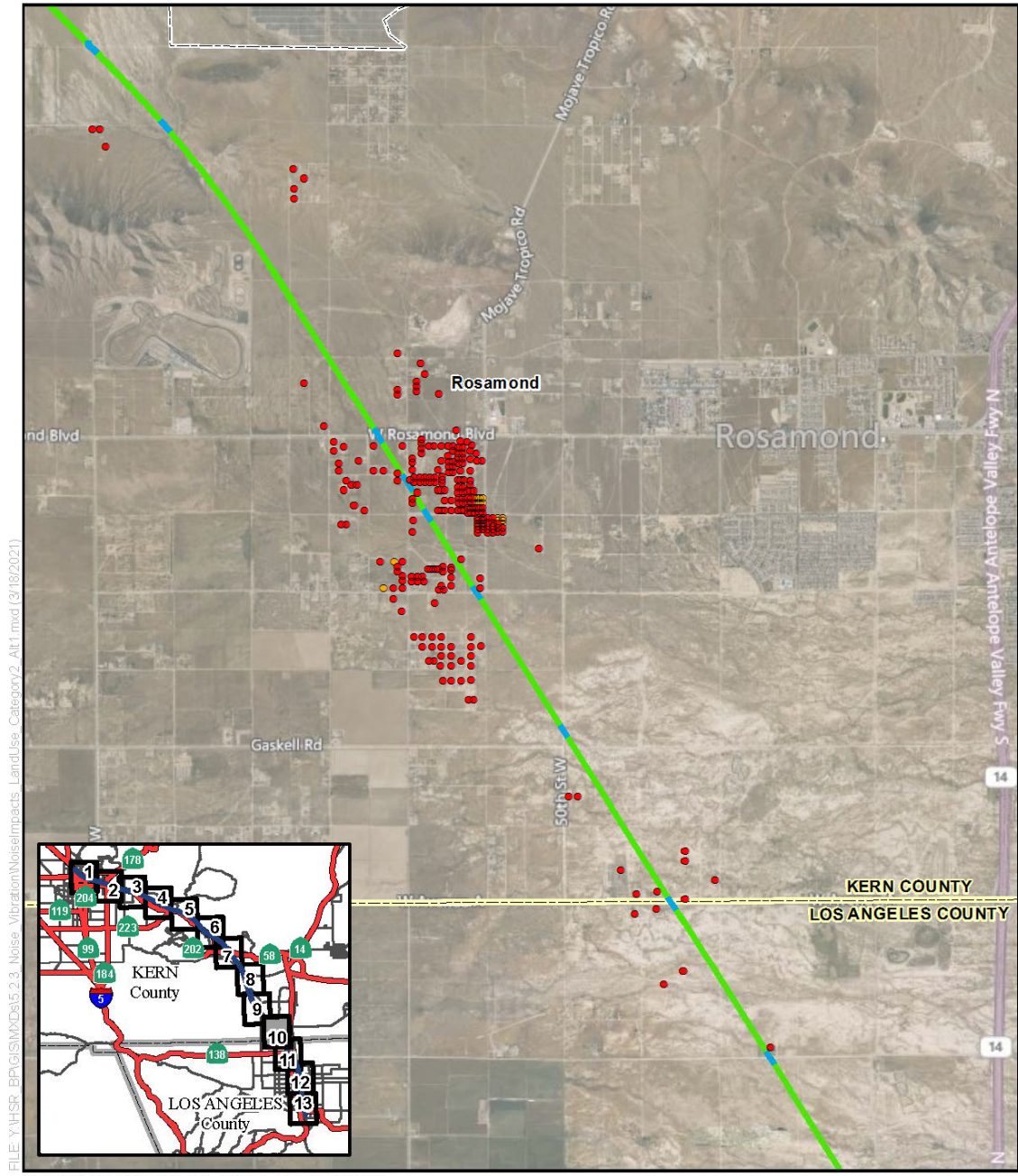


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(Sheet 9 of 13)



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SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)



Figure 3.4-A-2 Land Use Category 2 Noise Impacts—Alternative 1
(Sheet 10 of 13)

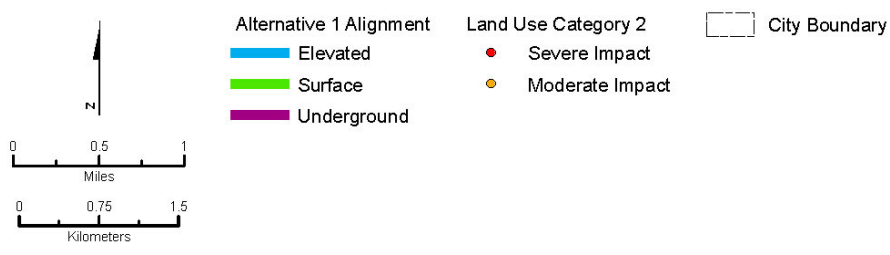
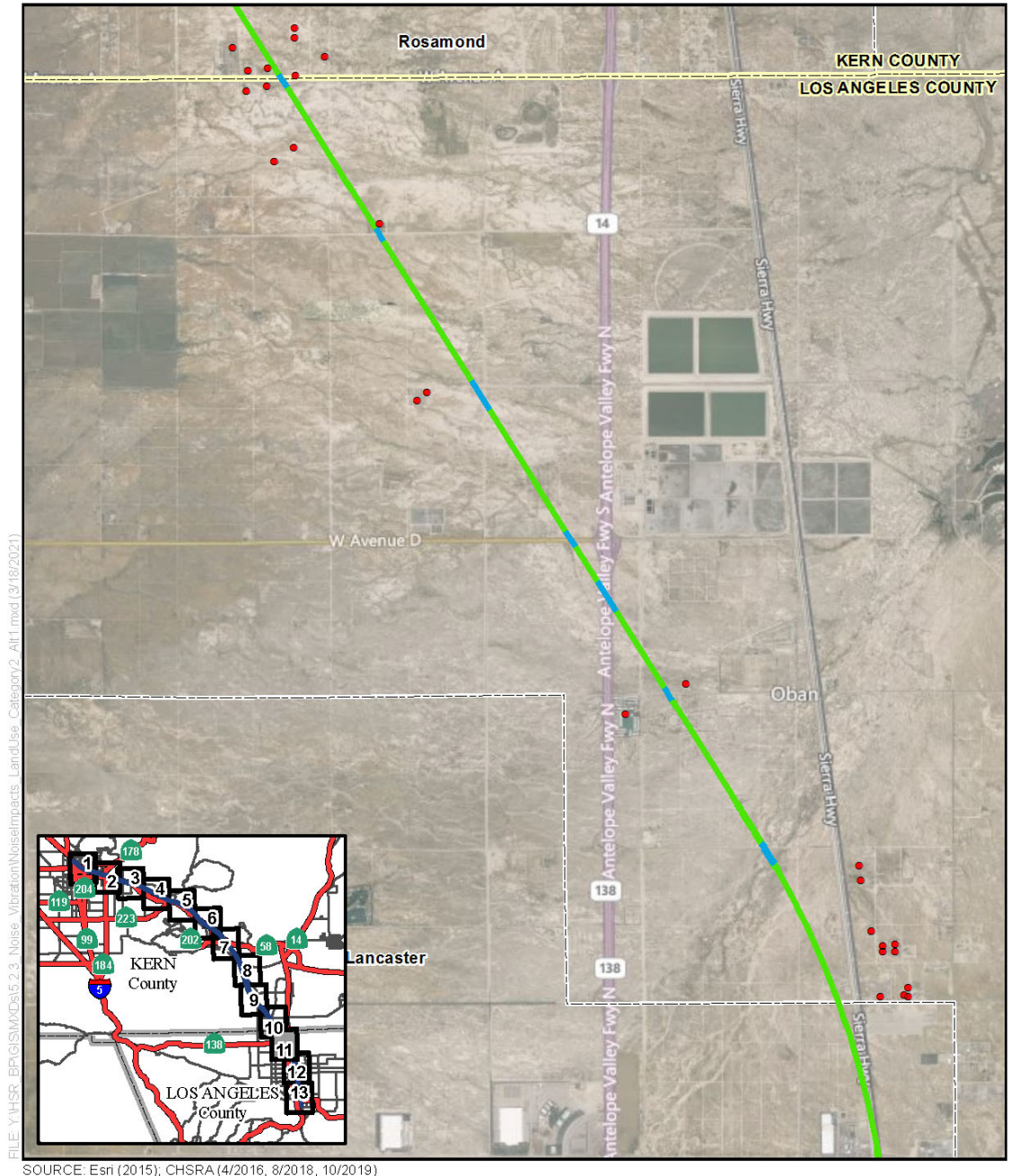


Figure 3.4-A-2 Land Use Category 2 Noise Impacts—Alternative 1
(Sheet 11 of 13)

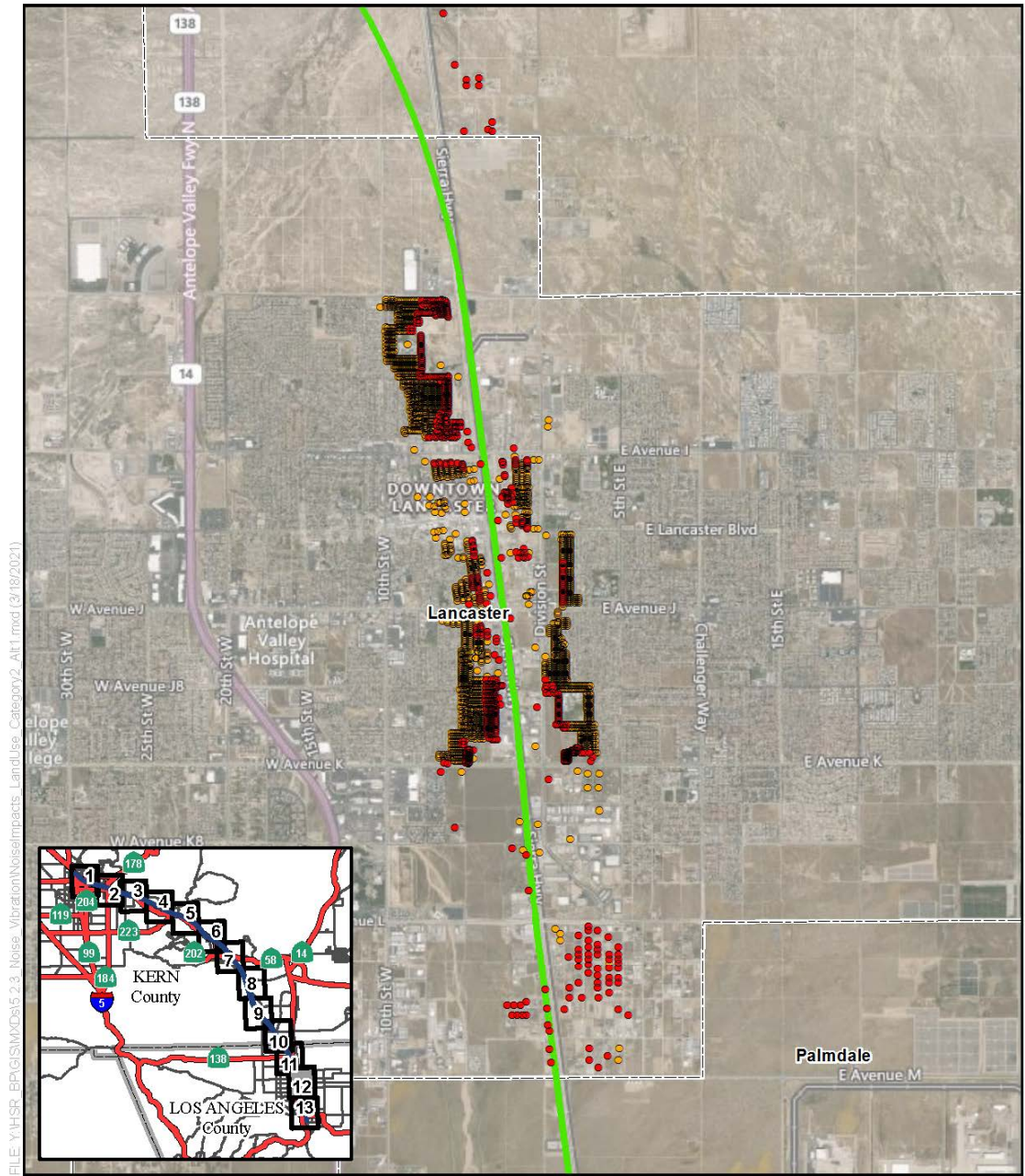
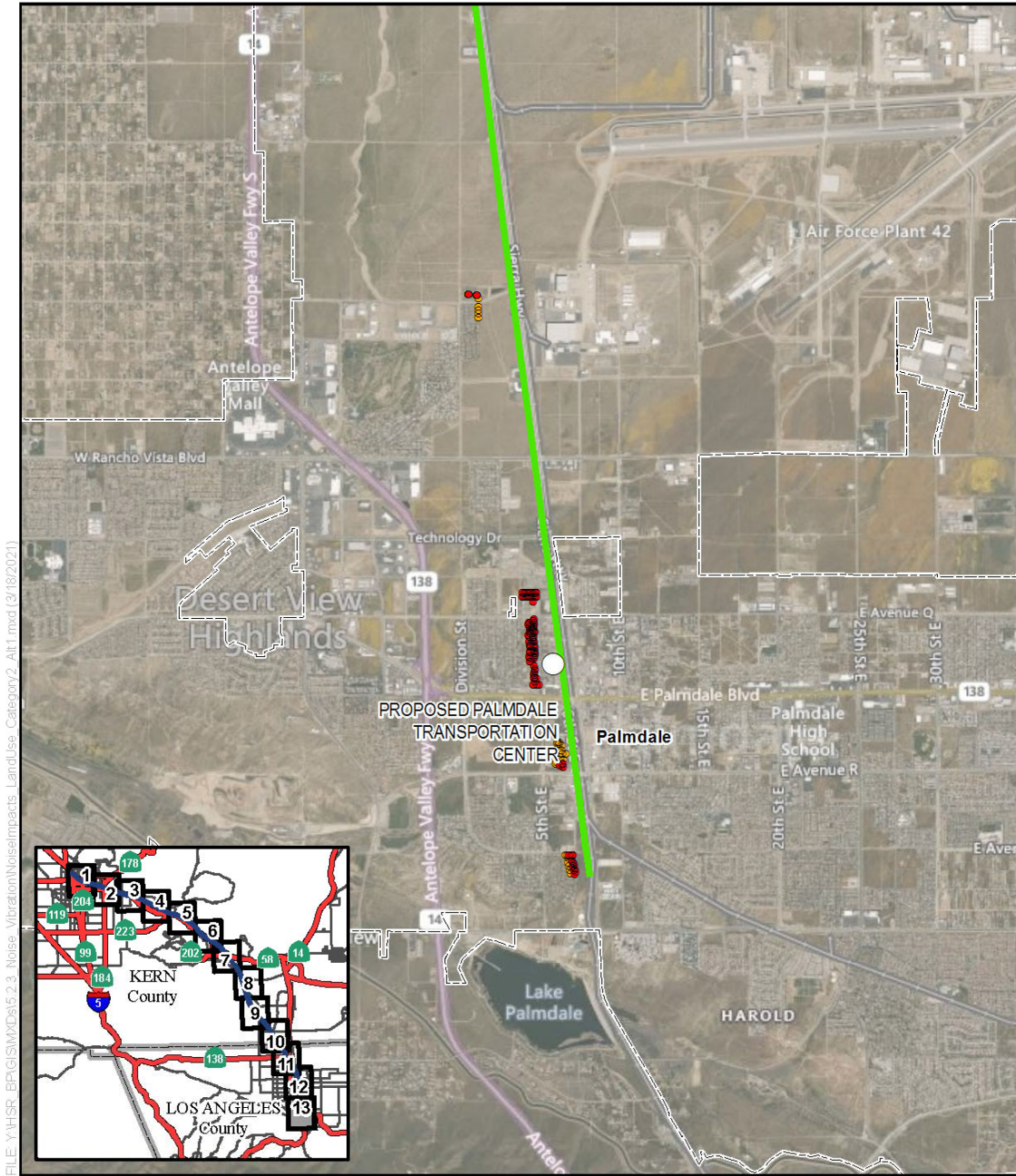


Figure 3.4-A-2 Land Use Category 2 Noise Impacts—Alternative 1
(Sheet 12 of 13)



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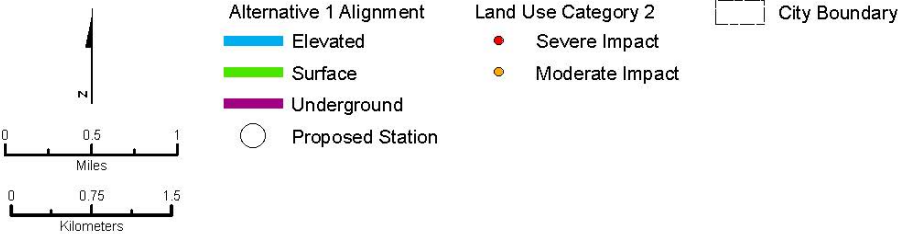
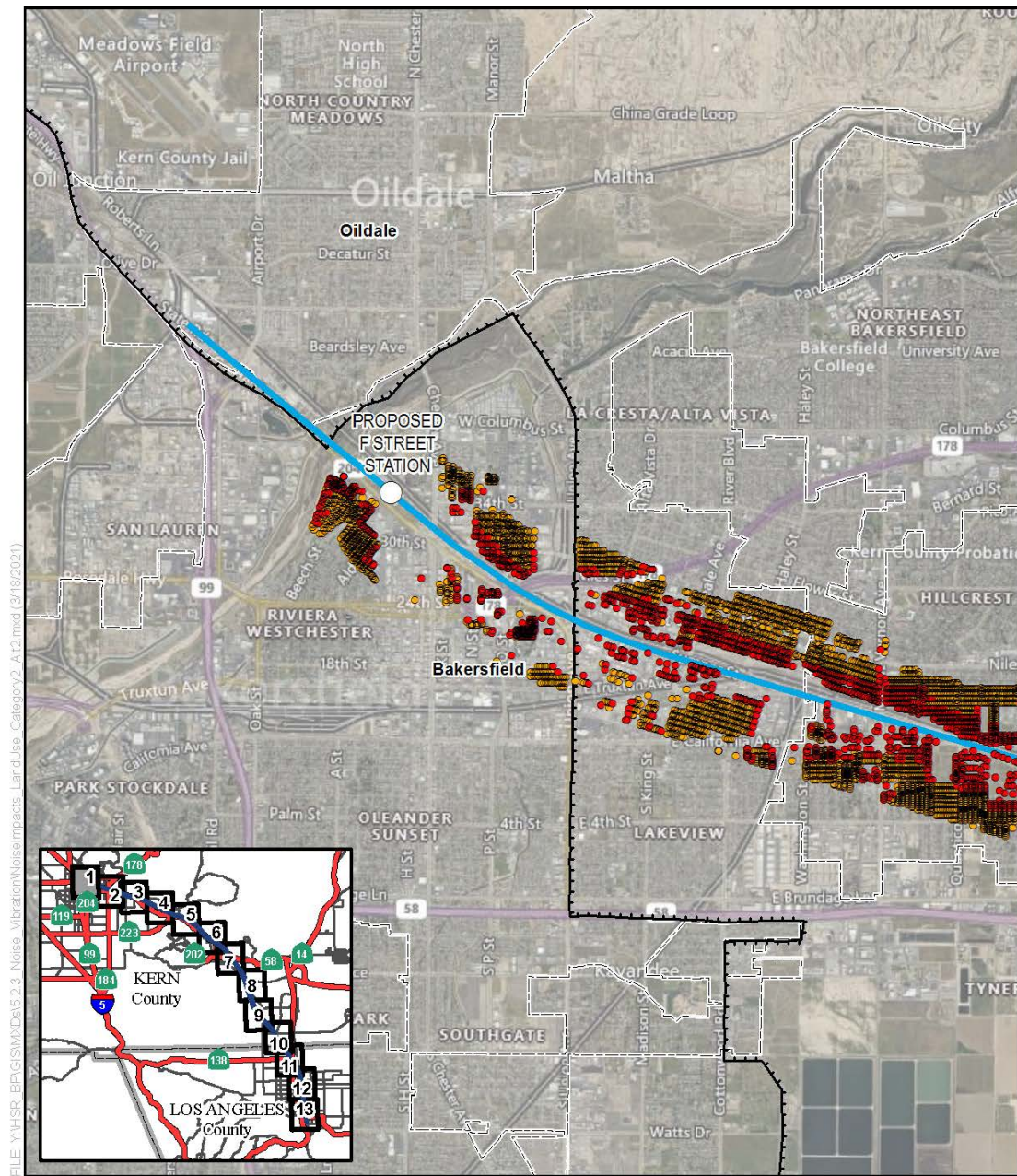


Figure 3.4-A-2 Land Use Category 2 Noise Impacts—Alternative 1
(Sheet 13 of 13)



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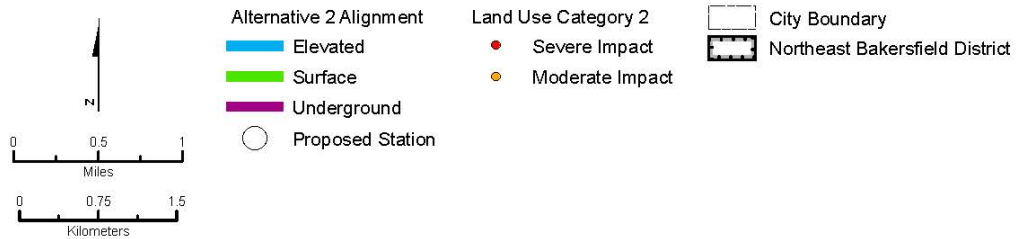
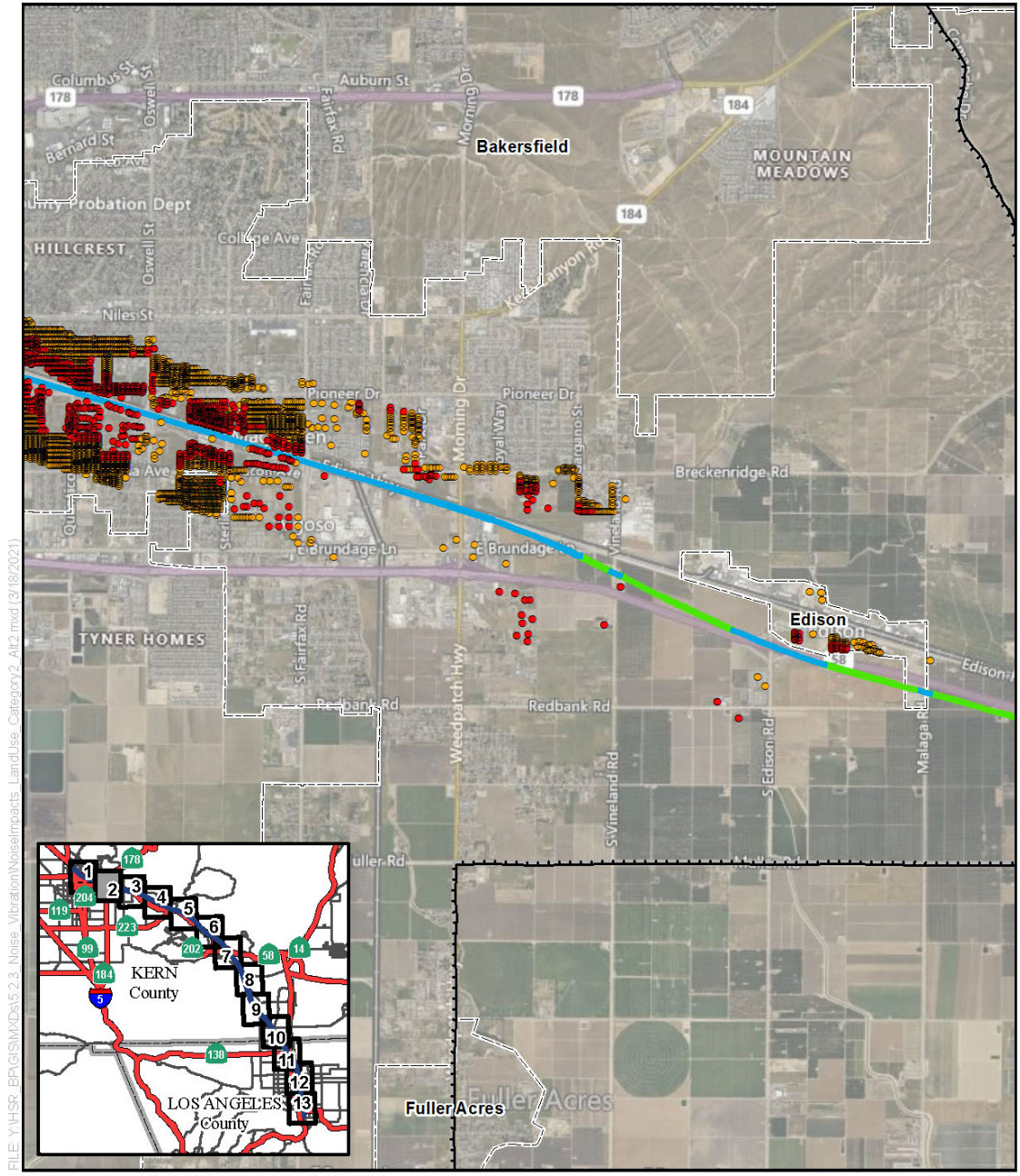
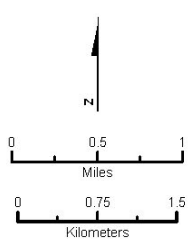


Figure 3.4-A-3 Land Use Category 2 Noise Impacts—Alternative 2
(Sheet 1 of 13)



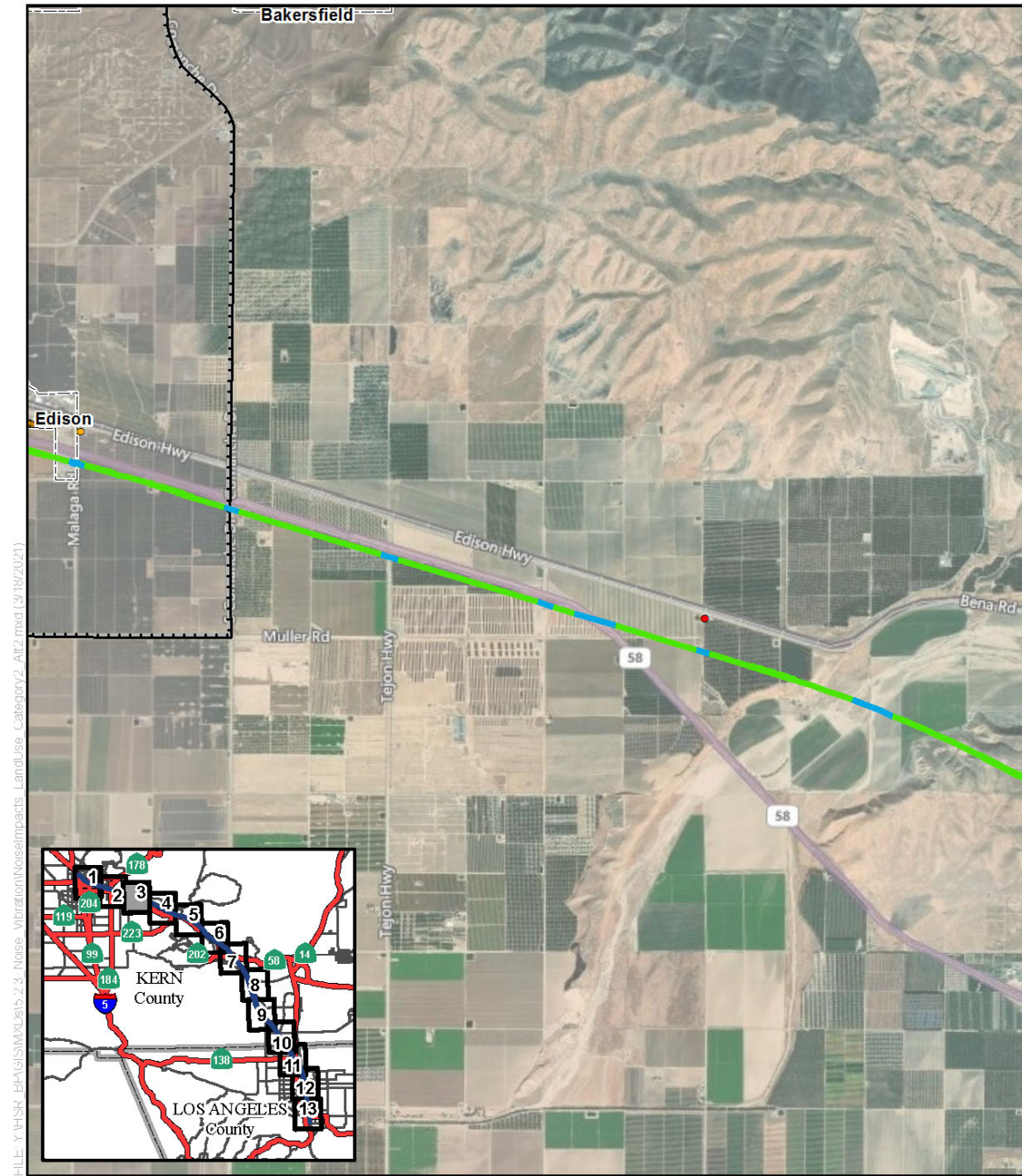
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SOURCE: Esri (2015), CHSRA (4/2016, 8/2018, 10/2019)



- | | | |
|---|---|---|
| Alternative 2 Alignment | Land Use Category 2 | City Boundary |
| — Elevated | ● Severe Impact | Northeast Bakersfield District |
| — Surface | ● Moderate Impact | |
| — Underground | | |

Figure 3.4-A-3 Land Use Category 2 Noise Impacts—Alternative 2
(Sheet 2 of 13)

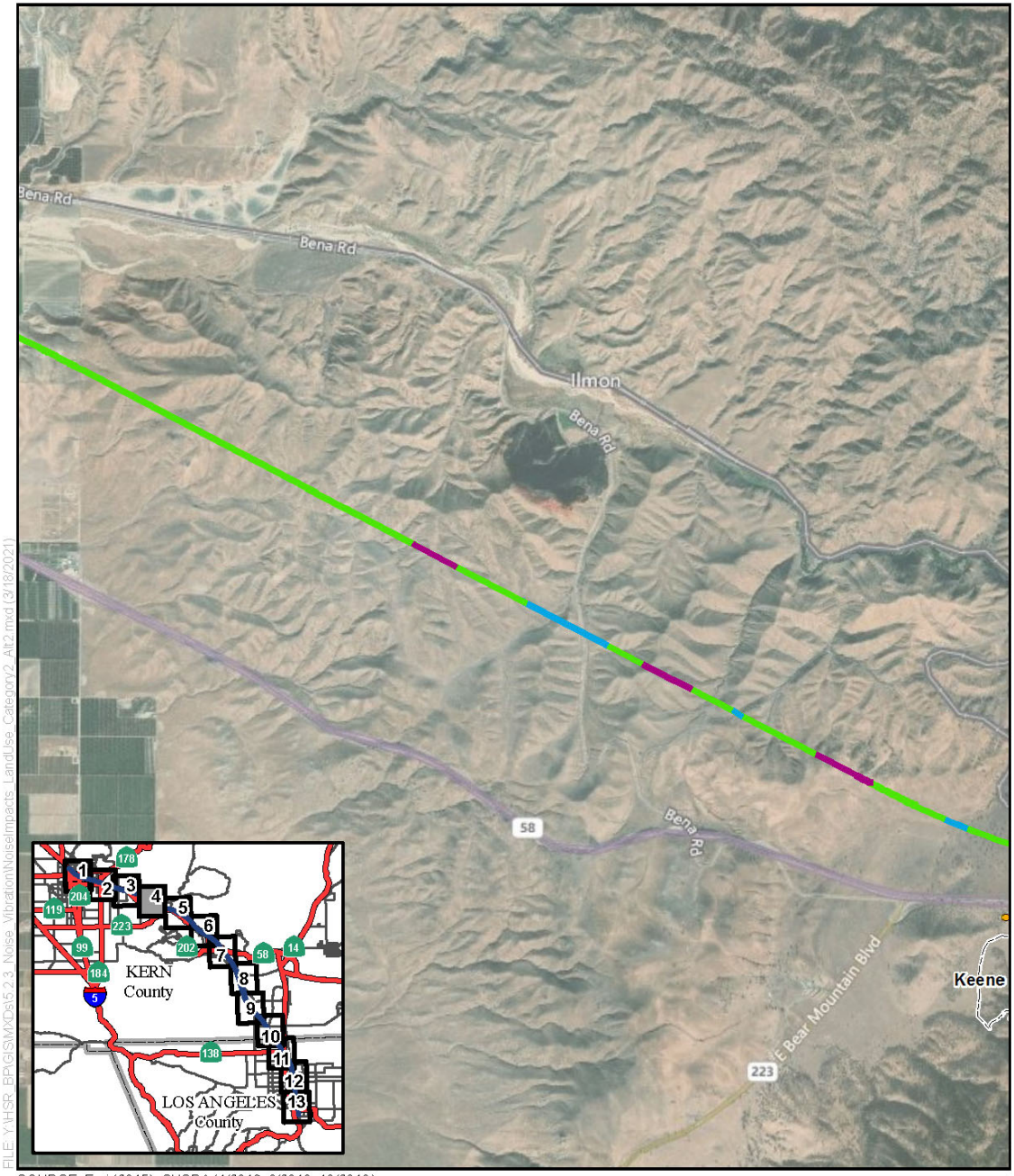


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SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)



Figure 3.4-A-3 Land Use Category 2 Noise Impacts—Alternative 2
(Sheet 3 of 13)

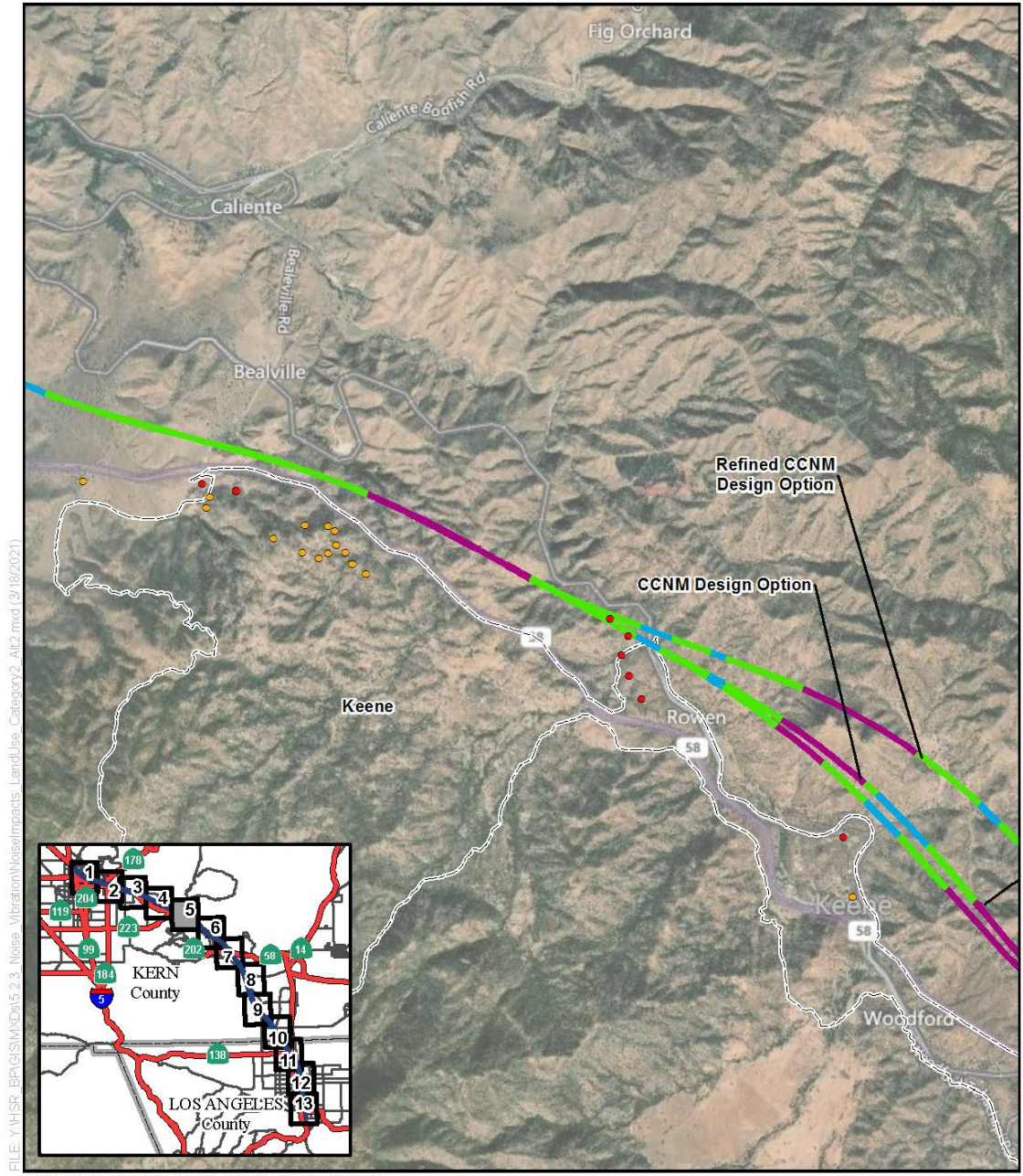


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SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

 	Alternative 2 Alignment Elevated Surface Underground	Land Use Category 2 Severe Impact Moderate Impact	City Boundary
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Figure 3.4-A-3 Land Use Category 2 Noise Impacts—Alternative 2
(Sheet 4 of 13)

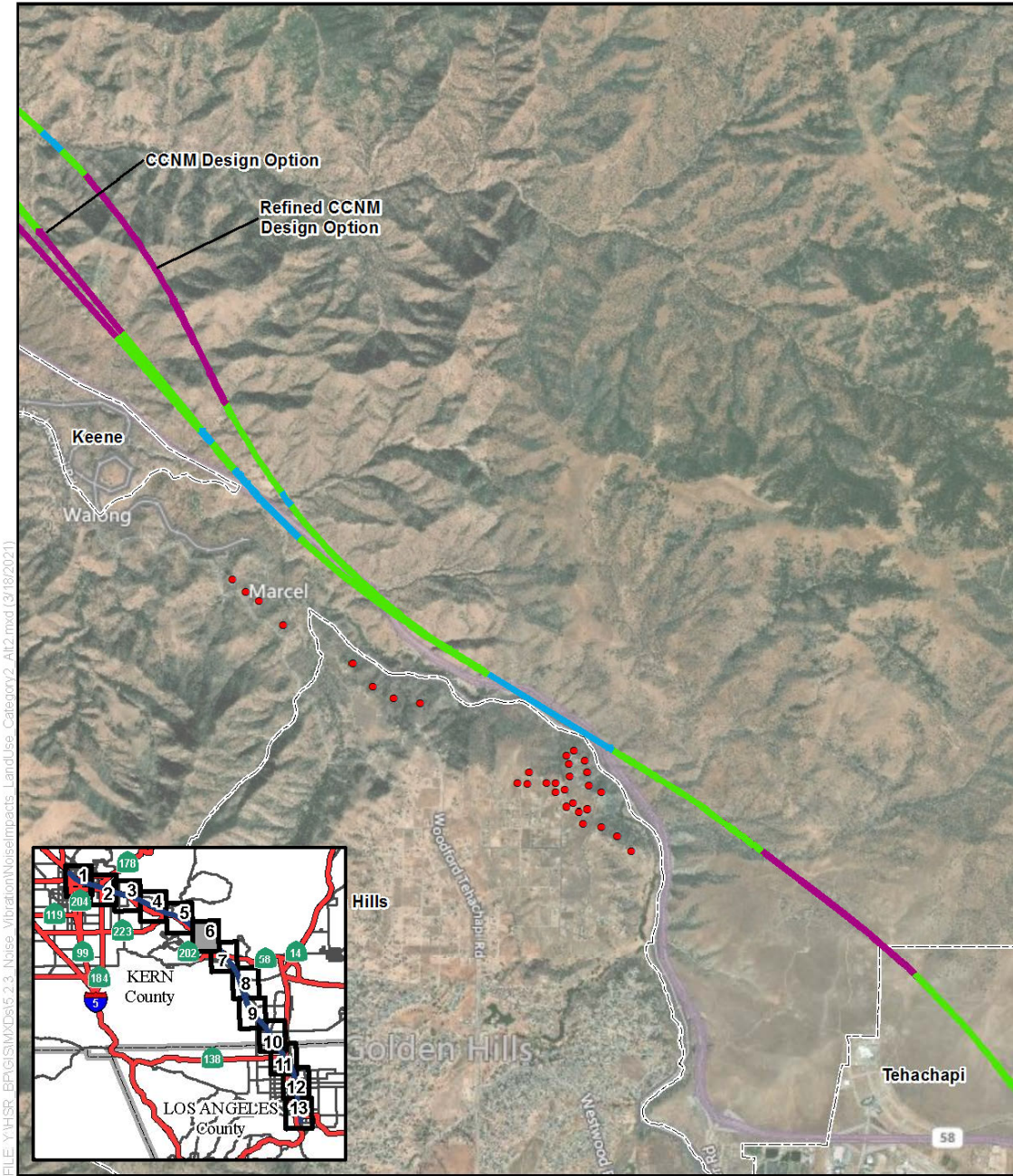


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SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

 	Alternative 2 Alignment Elevated Surface Underground	Land Use Category 2 Severe Impact Moderate Impact	City Boundary
------	--	--	---------------

Figure 3.4-A-3 Land Use Category 2 Noise Impacts—Alternative 2
(Sheet 5 of 13)



SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)



Figure 3.4-A-3 Land Use Category 2 Noise Impacts—Alternative 2
(Sheet 6 of 13)

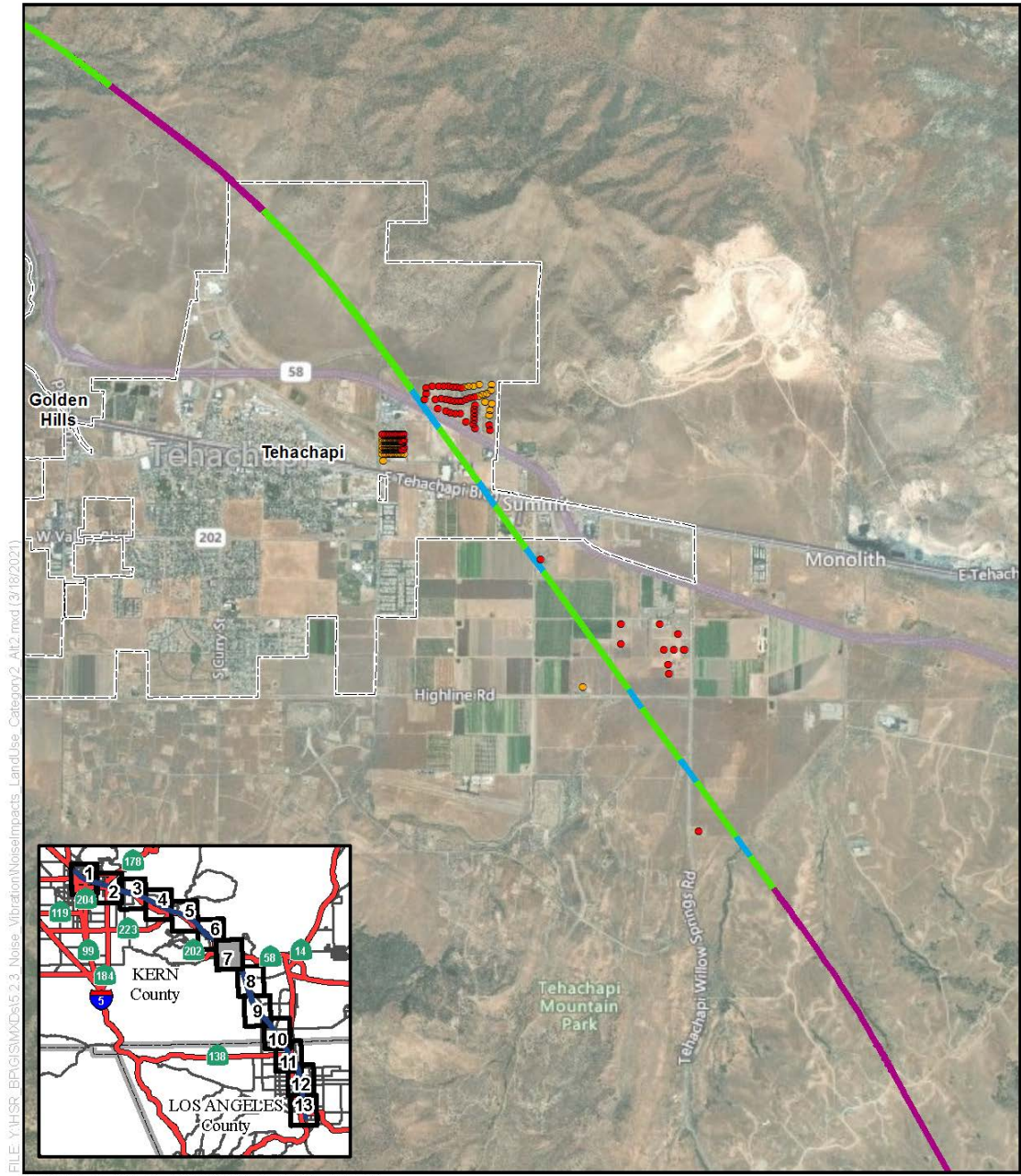


Figure 3.4-A-3 Land Use Category 2 Noise Impacts—Alternative 2
(Sheet 7 of 13)

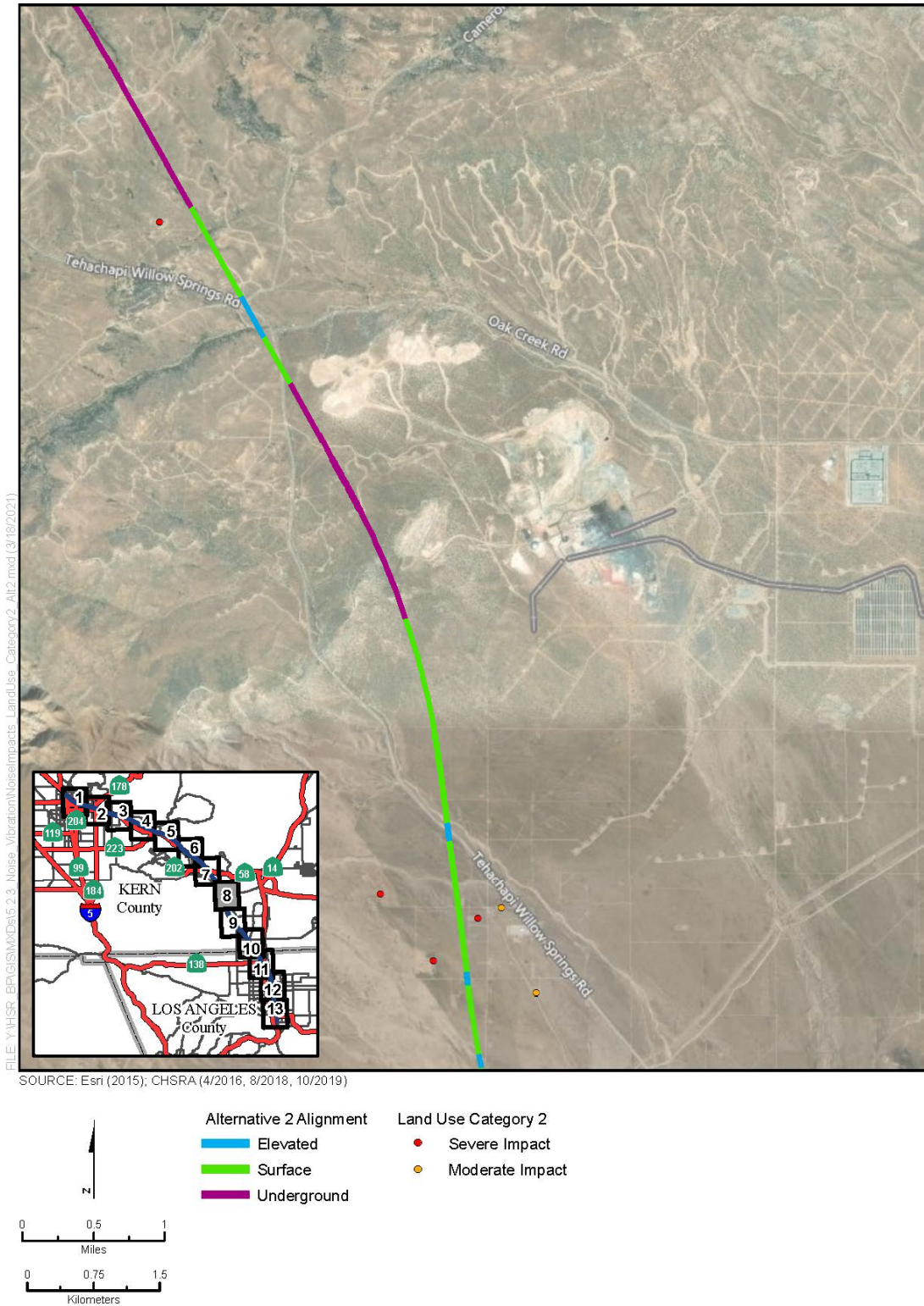


Figure 3.4-A-3 Land Use Category 2 Noise Impacts—Alternative 2
(Sheet 8 of 13)

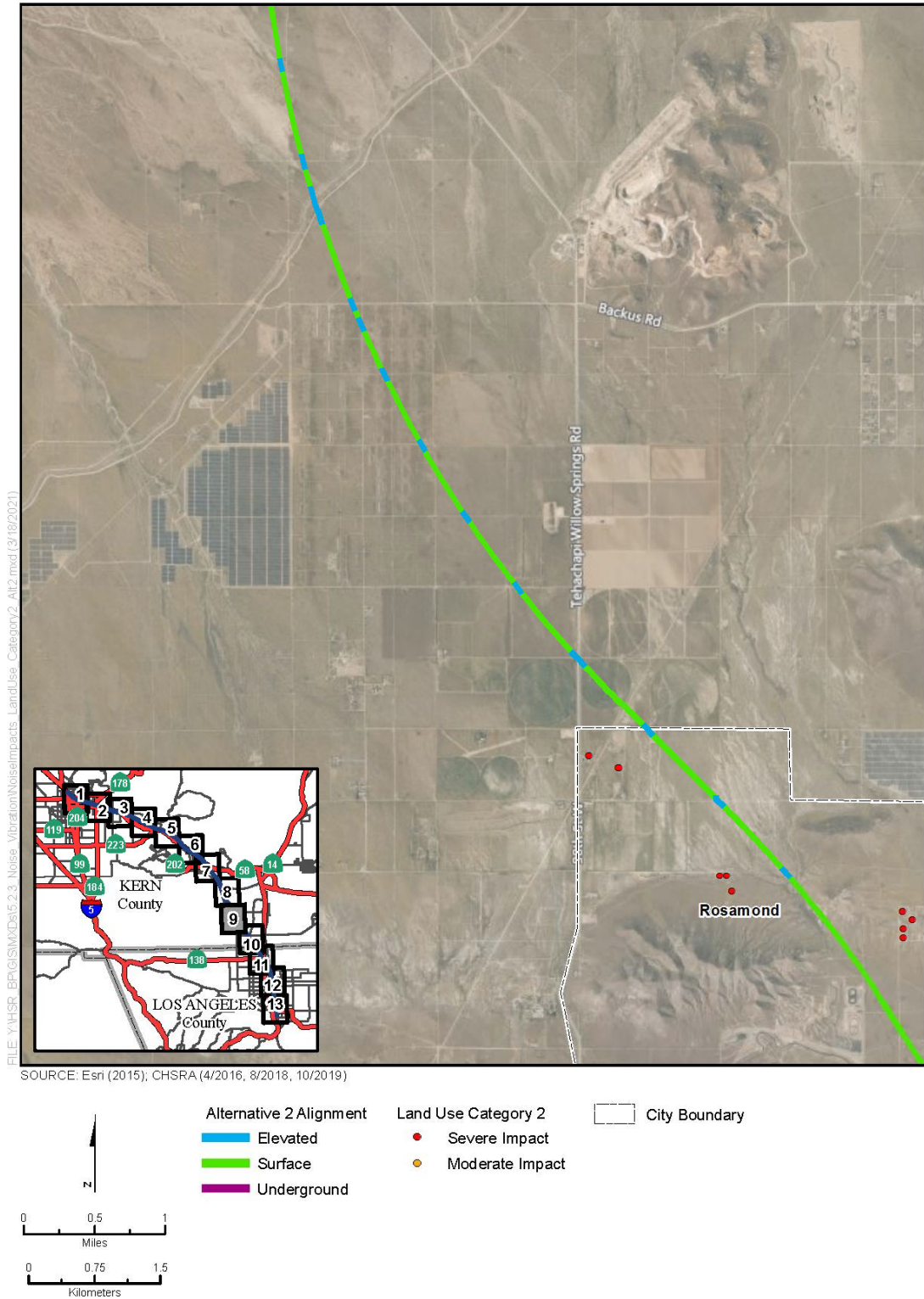
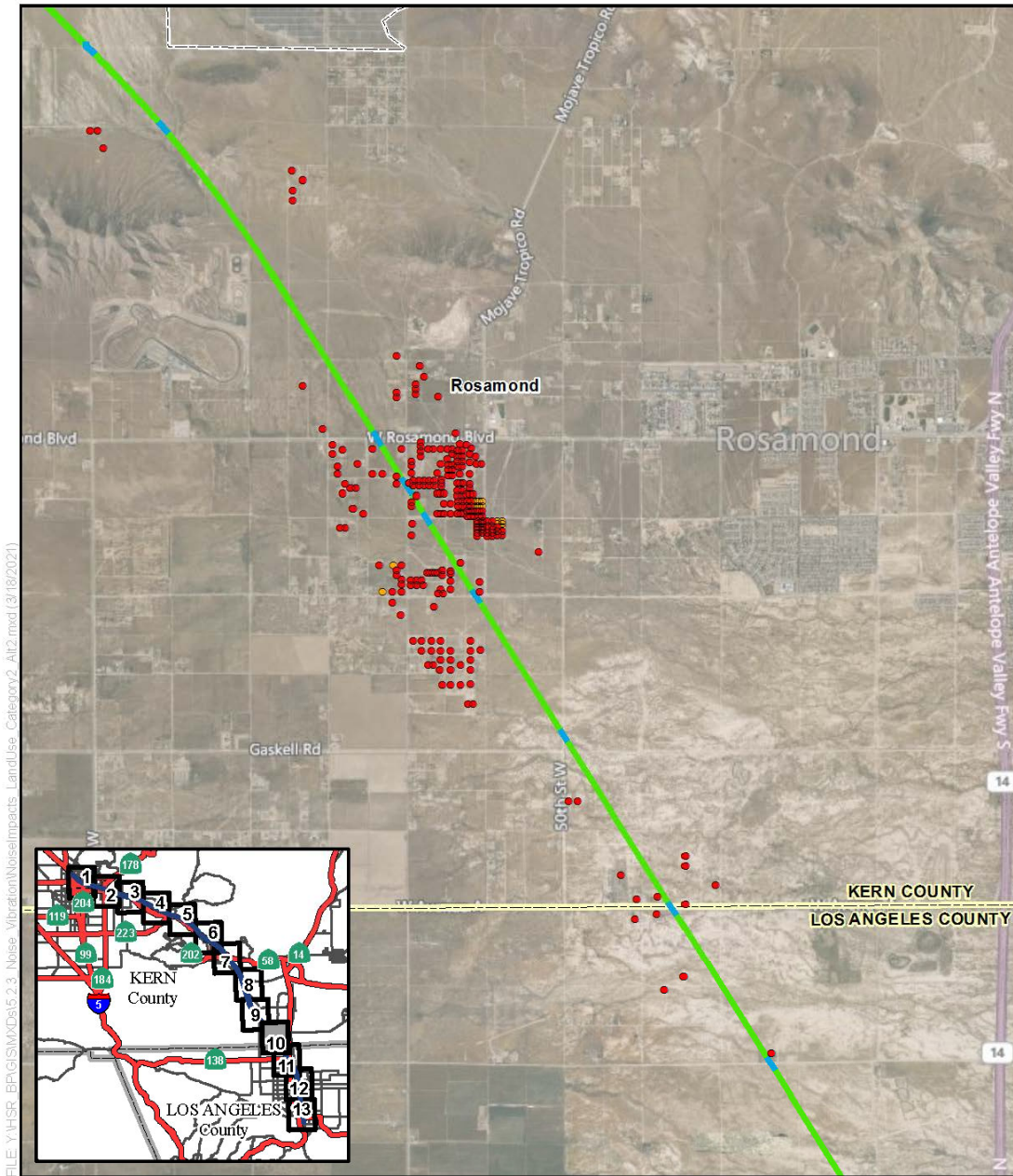


Figure 3.4-A-3 Land Use Category 2 Noise Impacts—Alternative 2
 (Sheet 9 of 13)

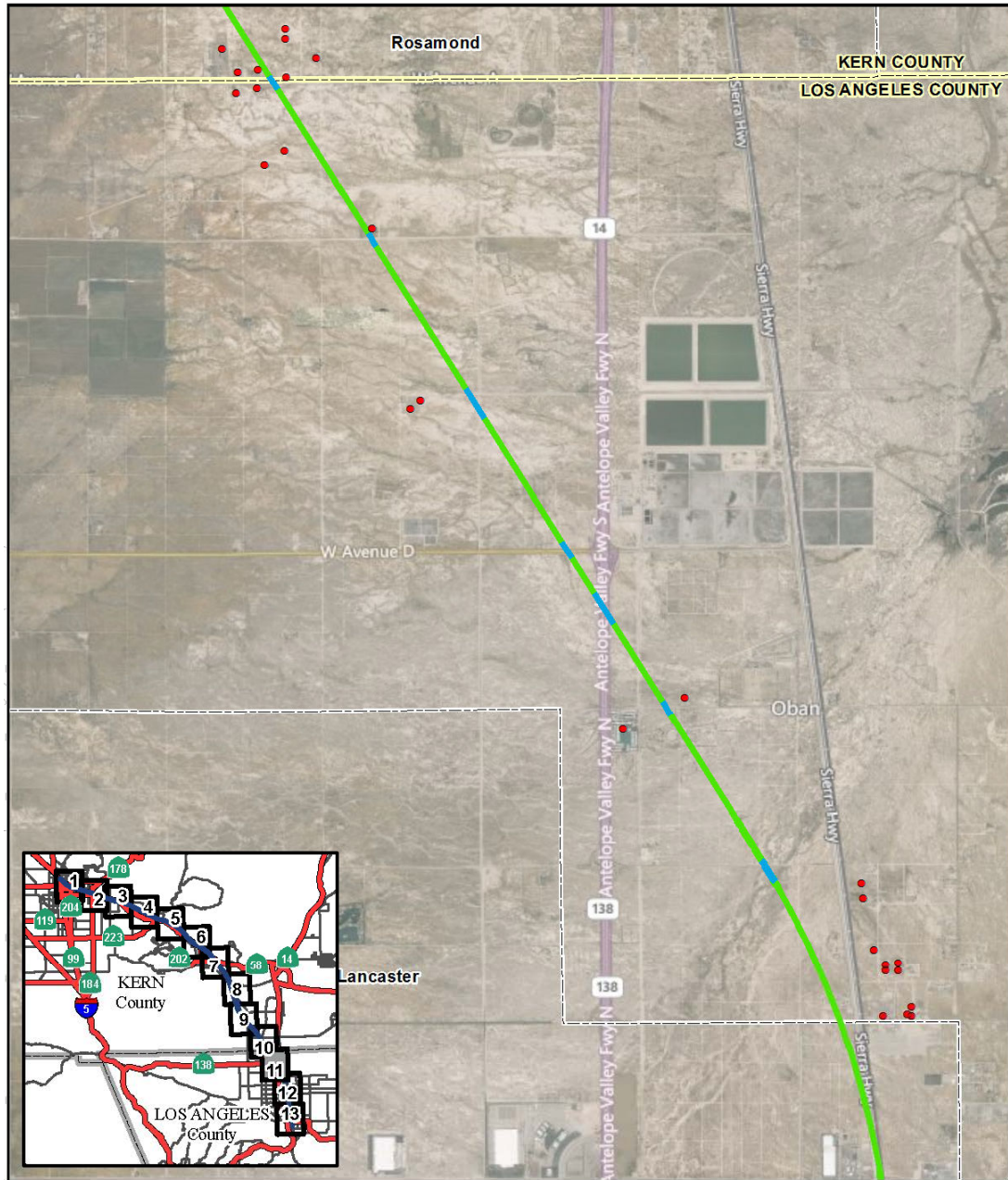


FILE: Y:\HSR_BPG\GIS\MXDs\6.2.3_Noise_Vibration\NoiseImpacts_LandUse_Category2_Alt2.mxd (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

 	Alternative 2 Alignment Elevated Surface Underground	Land Use Category 2 Severe Impact Moderate Impact	City Boundary
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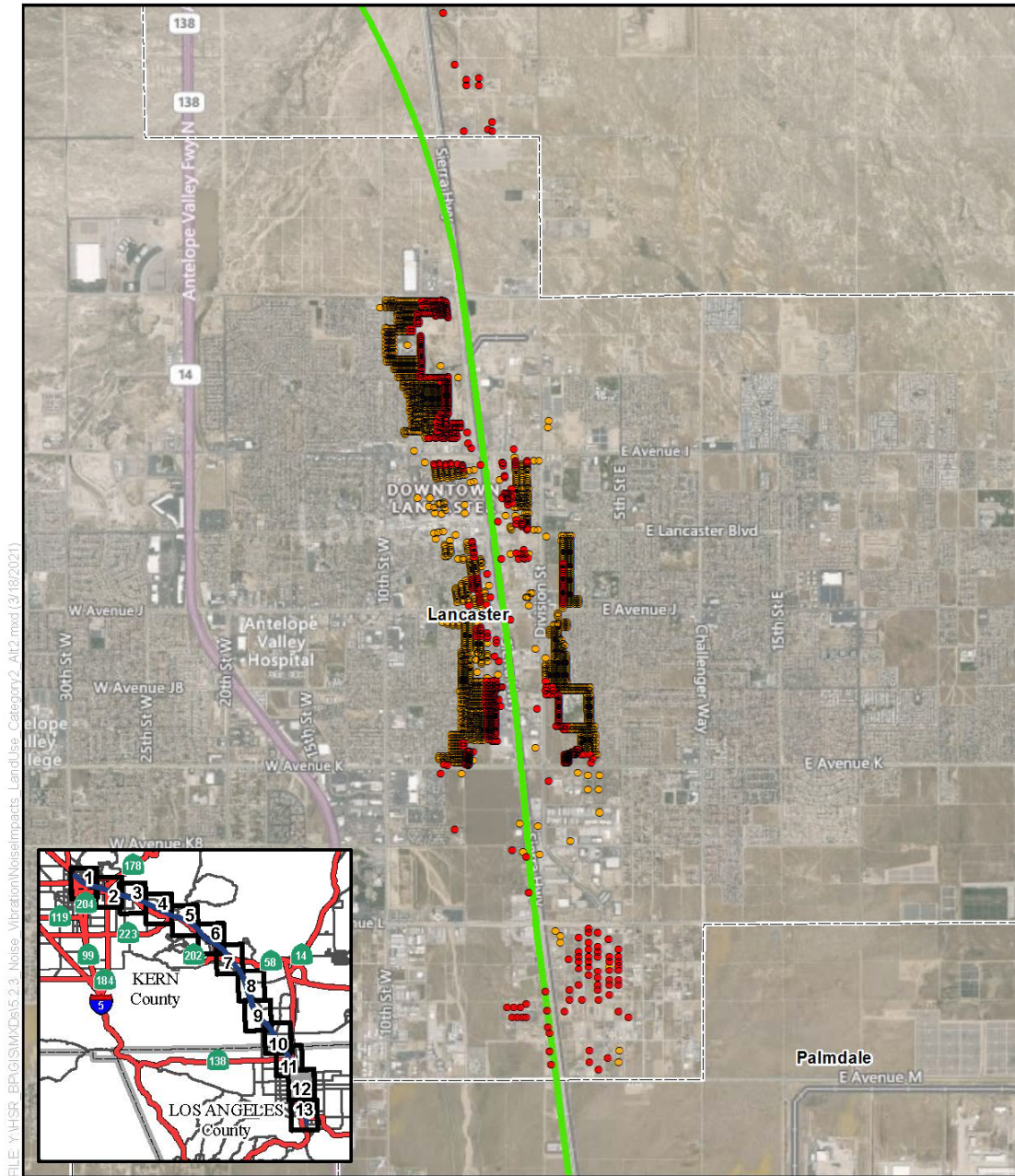
Figure 3.4-A-3 Land Use Category 2 Noise Impacts—Alternative 2
(Sheet 10 of 13)



SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)



Figure 3.4-A-3 Land Use Category 2 Noise Impacts—Alternative 2
(Sheet 11 of 13)



SOURCE: Esri (2015), CHSRA (4/2016, 8/2018, 10/2019)

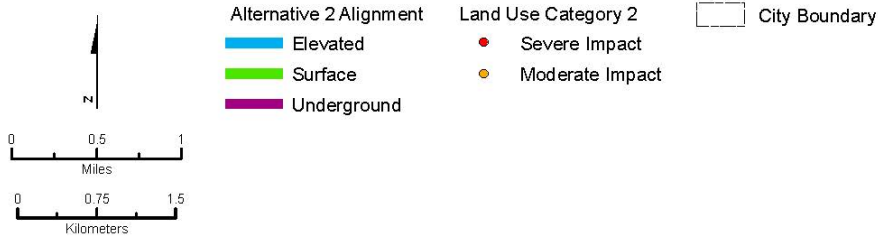
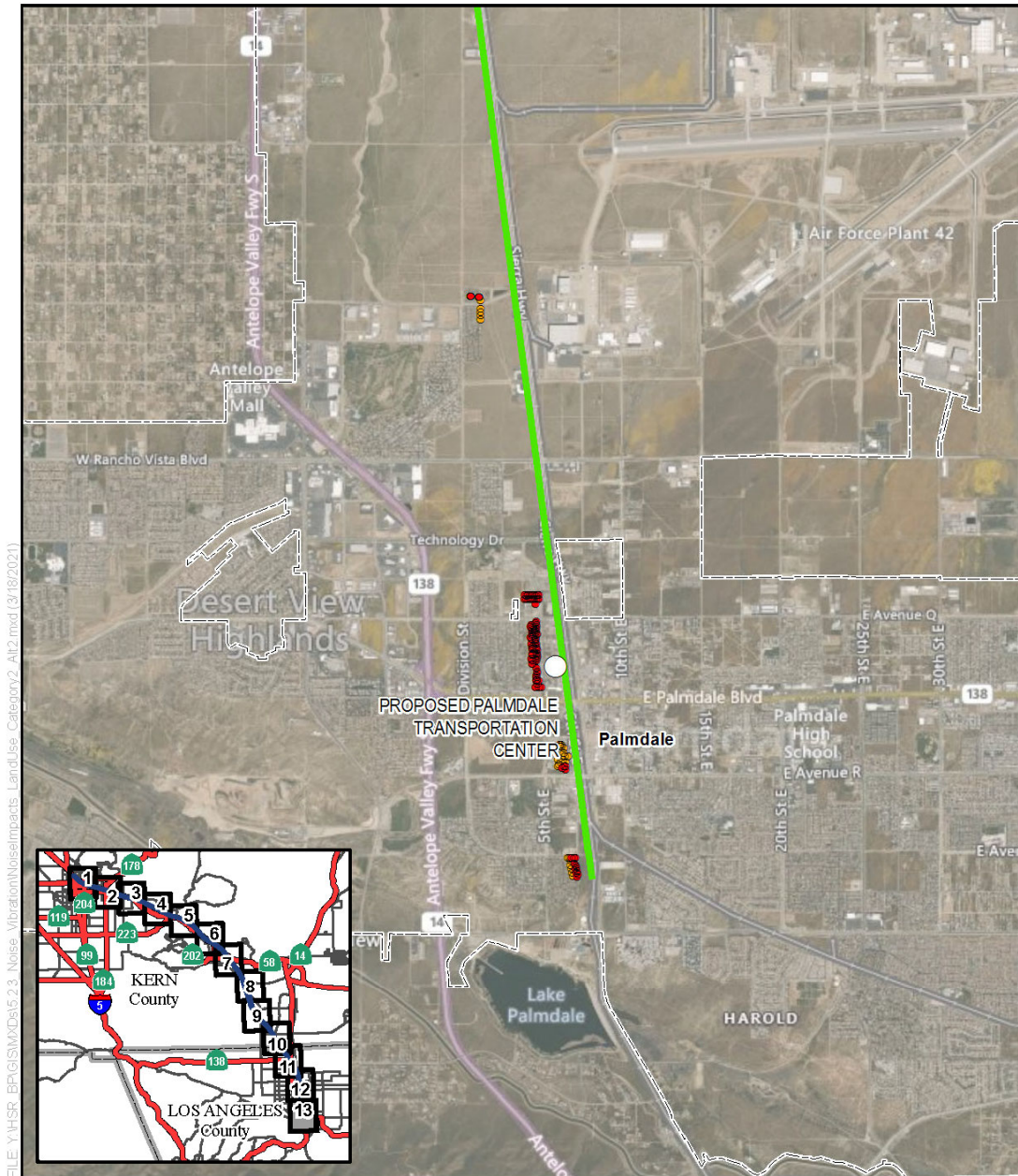


Figure 3.4-A-3 Land Use Category 2 Noise Impacts—Alternative 2
(Sheet 12 of 13)



SOURCE: Esri (2015), CHSRA (4/2016, 8/2018, 10/2019)

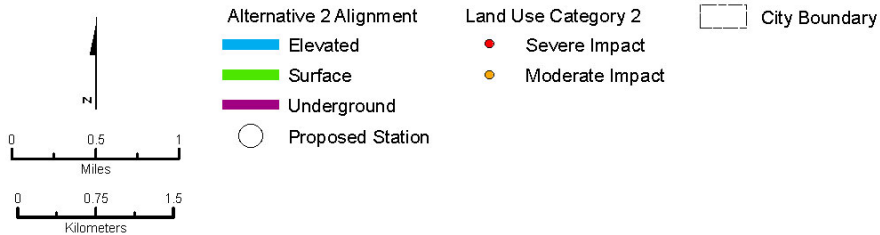


Figure 3.4-A-3 Land Use Category 2 Noise Impacts—Alternative 2
(Sheet 13 of 13)

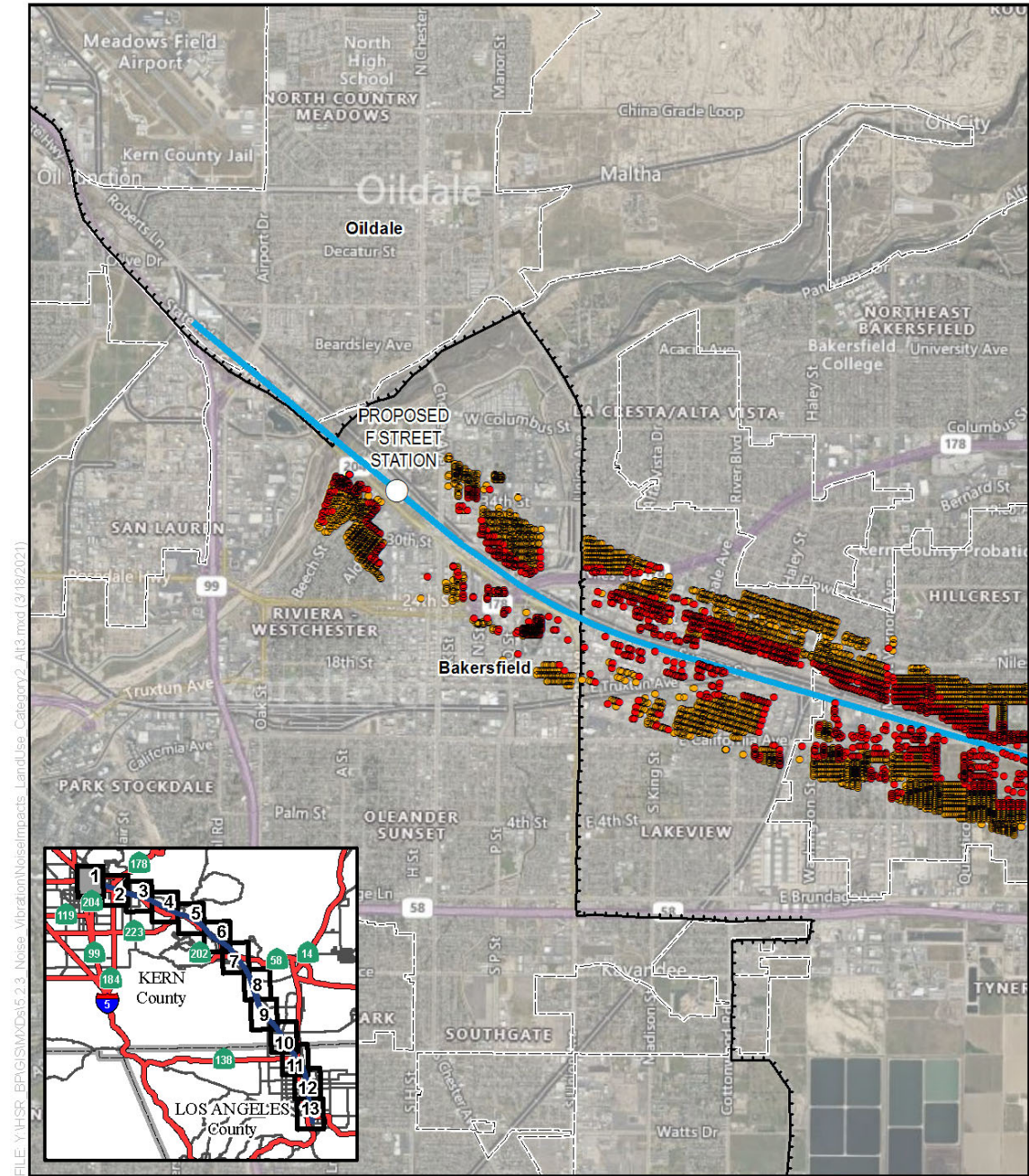


Figure 3.4-A-4 Land Use Category 2 Noise Impacts—Alternative 3
(Sheet 1 of 13)

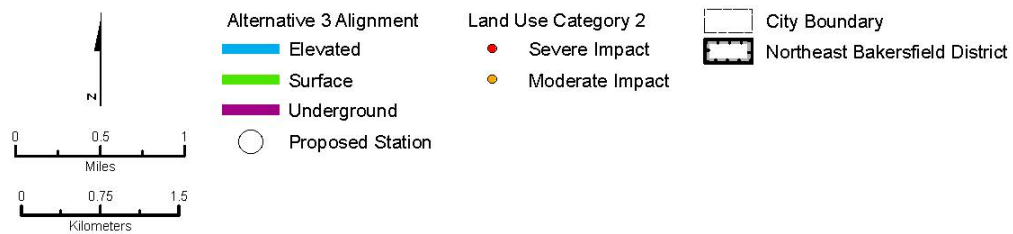
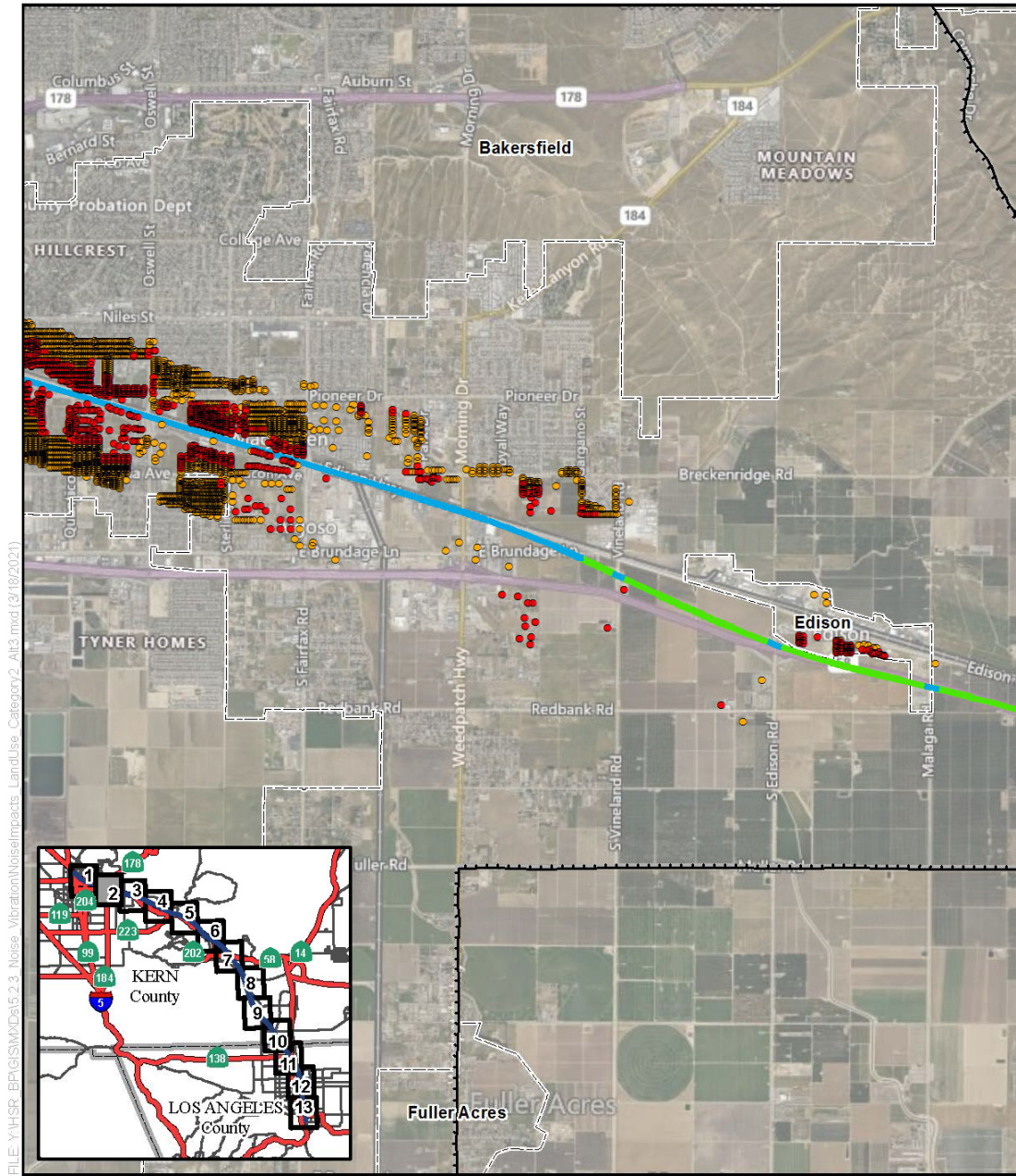
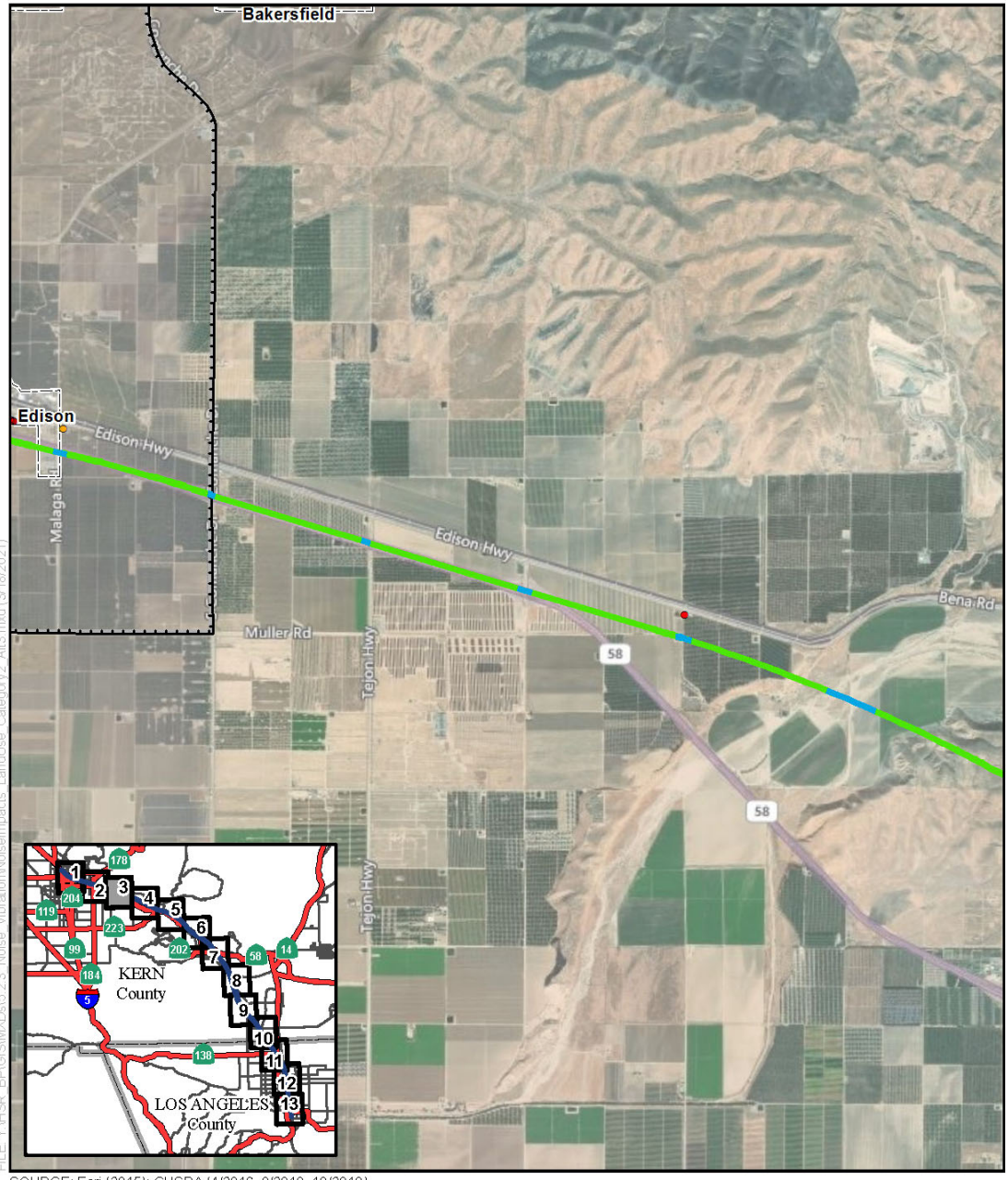


Figure 3.4-A-4 Land Use Category 2 Noise Impacts—Alternative 3
(Sheet 2 of 13)



SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

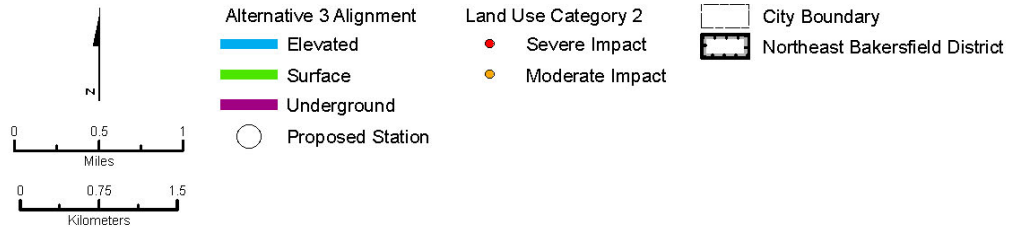


Figure 3.4-A-4 Land Use Category 2 Noise Impacts—Alternative 3
(Sheet 3 of 13)



FILE: Y:\HSR_BP\GIS\MXD\615_2.3_Noise_Vibration\NoiseImpacts_LandUse_Category2_Alt3.mxd (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

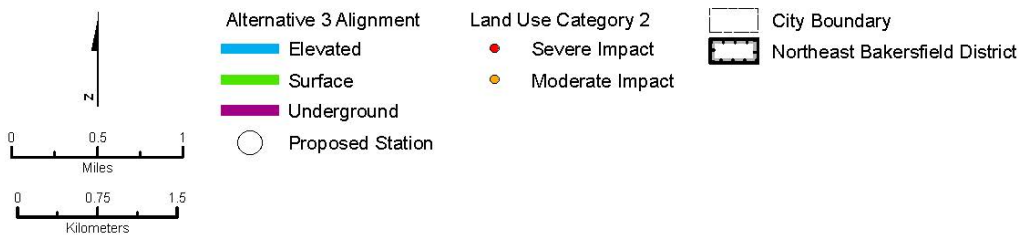


Figure 3.4-A-4 Land Use Category 2 Noise Impacts—Alternative 3
(Sheet 4 of 13)

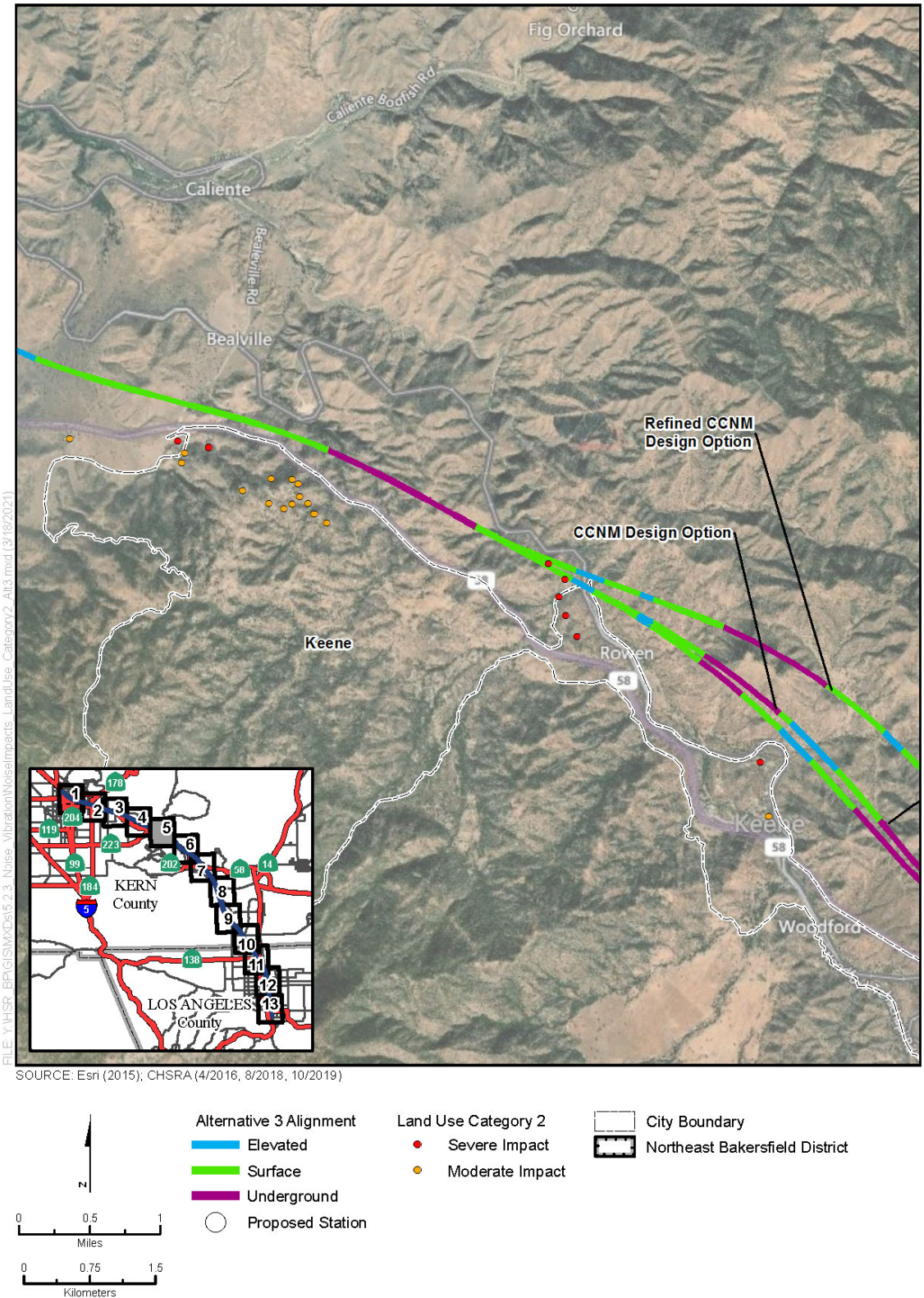
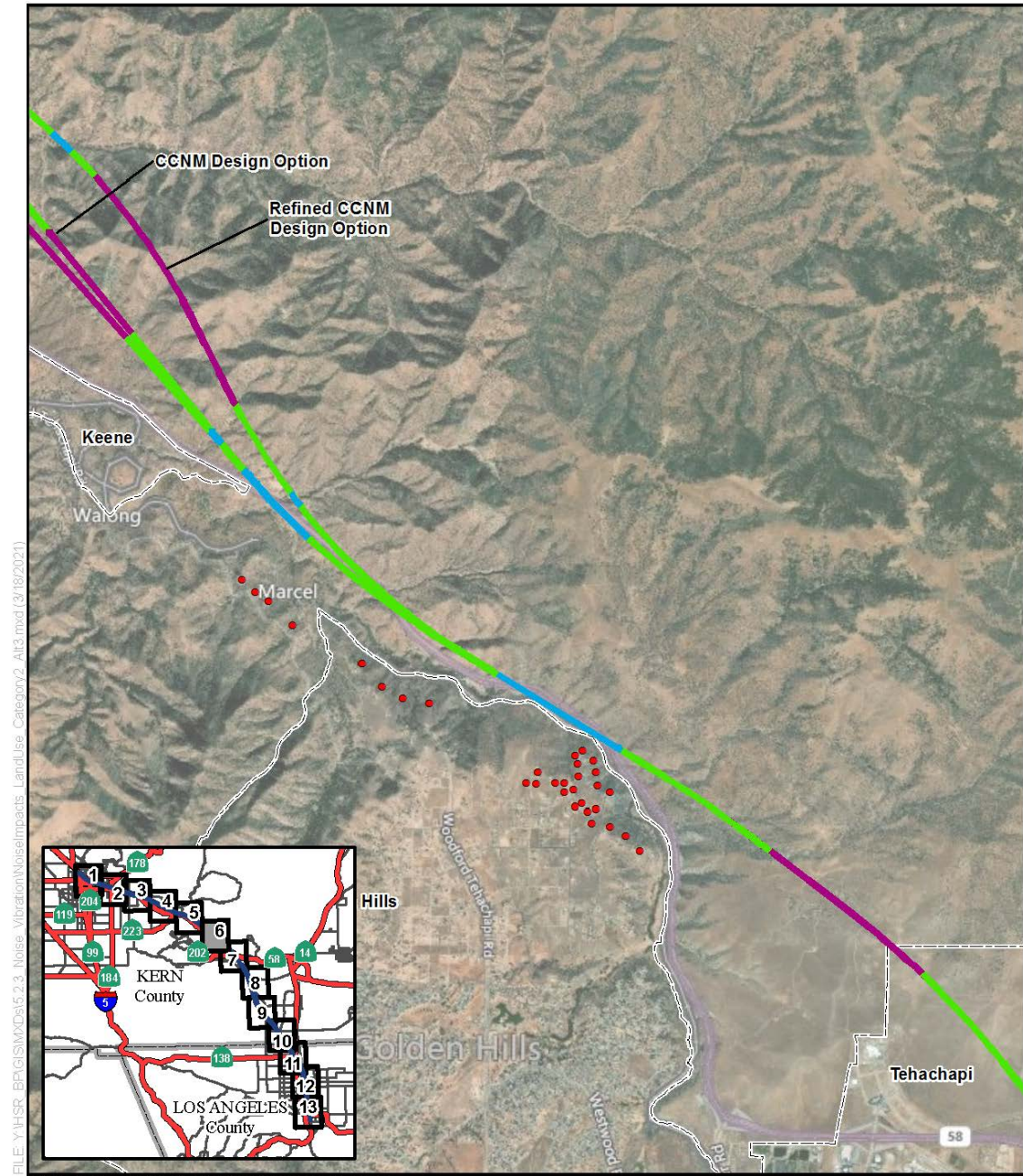


Figure 3.4-A-4 Land Use Category 2 Noise Impacts—Alternative 3
(Sheet 5 of 13)



FILE: Y:\HSR_EIR\GIS\MapDocs\2.3_Noise_Vibration\NoiseImpacts_LandUse_Category2_Alt3.mxd (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

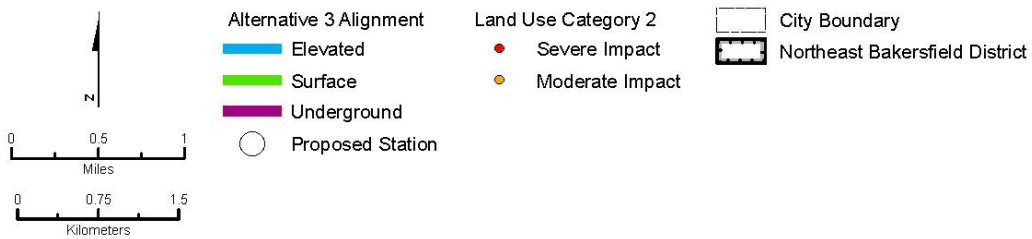
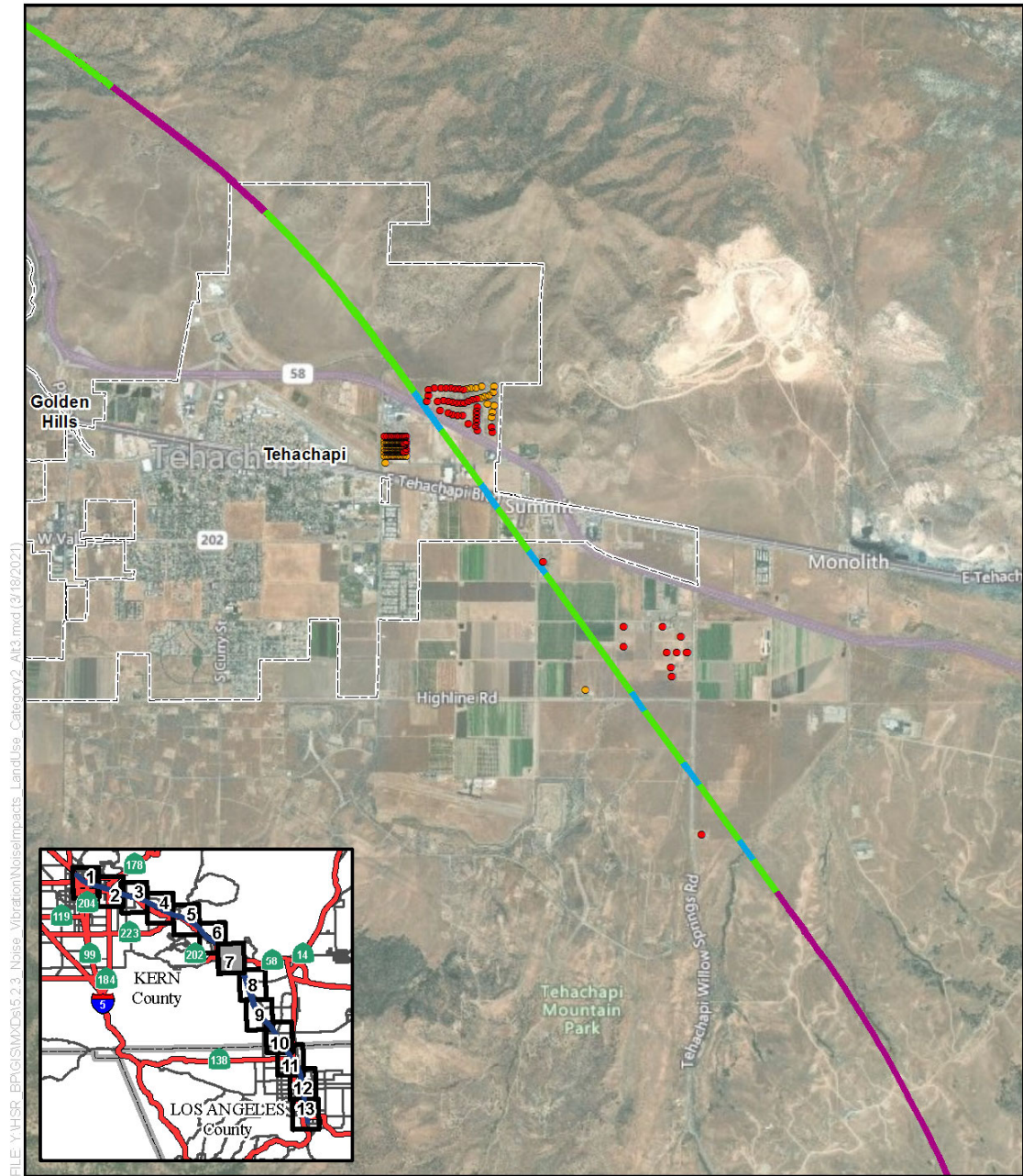


Figure 3.4-A-4 Land Use Category 2 Noise Impacts—Alternative 3
(Sheet 6 of 13)



SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

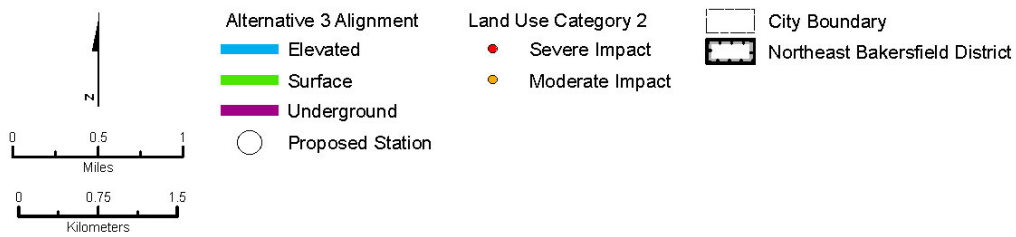
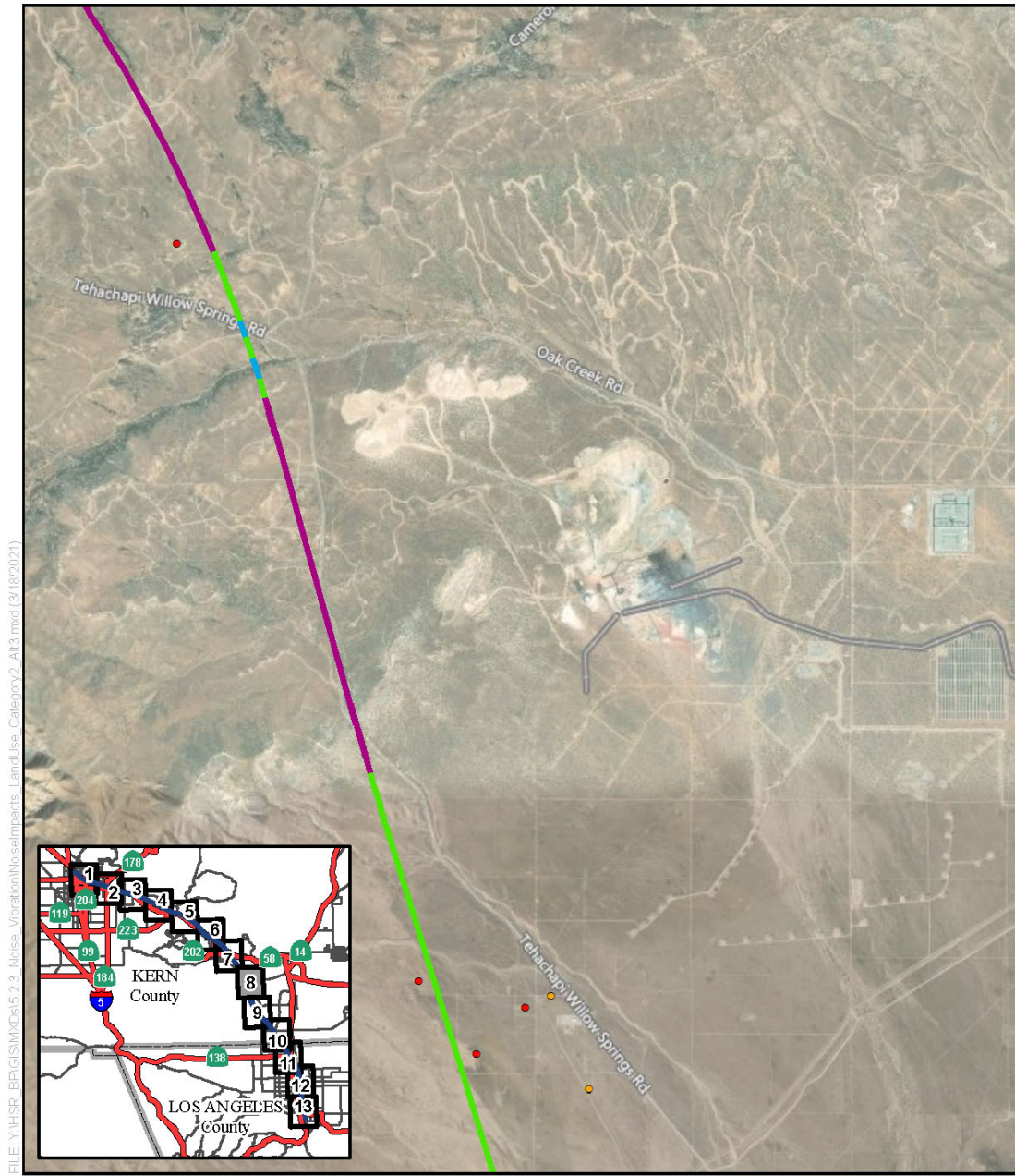


Figure 3.4-A-4 Land Use Category 2 Noise Impacts—Alternative 3
(Sheet 7 of 13)



FILE: Y:\HSR_BP\GIS\IMXD\5.2.3_Noise_Vibration\NoiseImpacts_LandUse_Category2_Alt3.mxd (3/18/2021)

SOURCE: Esri (2015), CHSRA (4/2016, 8/2018, 10/2019)

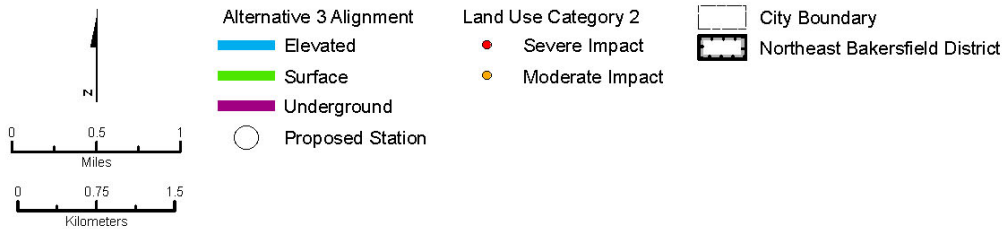
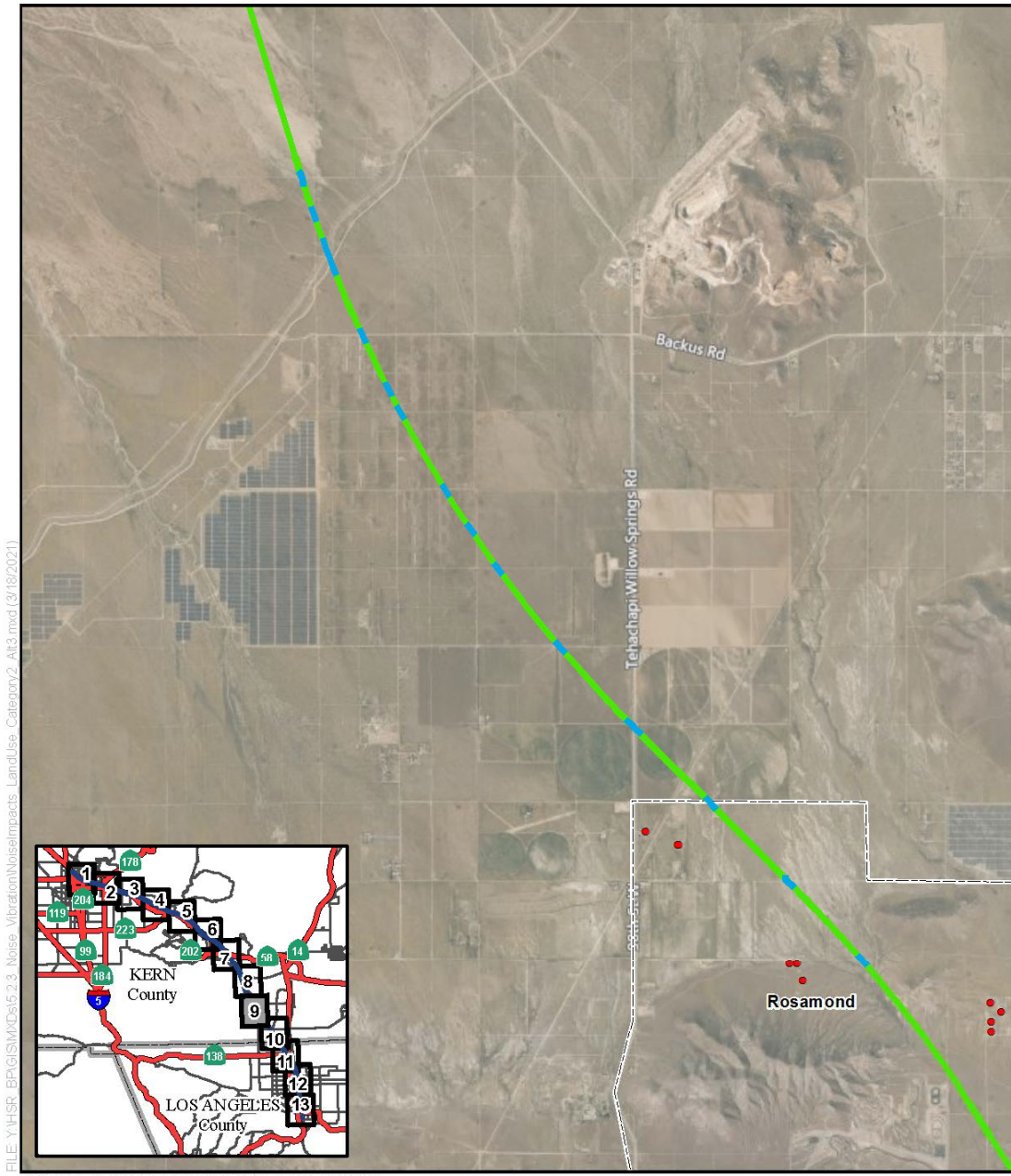


Figure 3.4-A-4 Land Use Category 2 Noise Impacts—Alternative 3
(Sheet 8 of 13)



FILE: Y:\HSR_BPG\GIS\MapDocs\5.2.3_Noise_Vibration\NoiseImpacts_LandUse_Category2_Alt3.mod (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

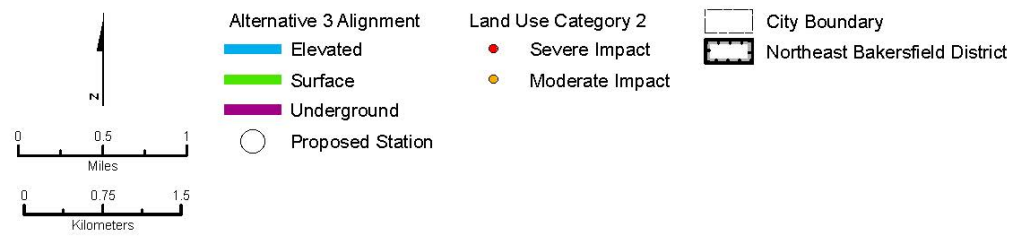


Figure 3.4-A-4 Land Use Category 2 Noise Impacts—Alternative 3
(Sheet 9 of 13)

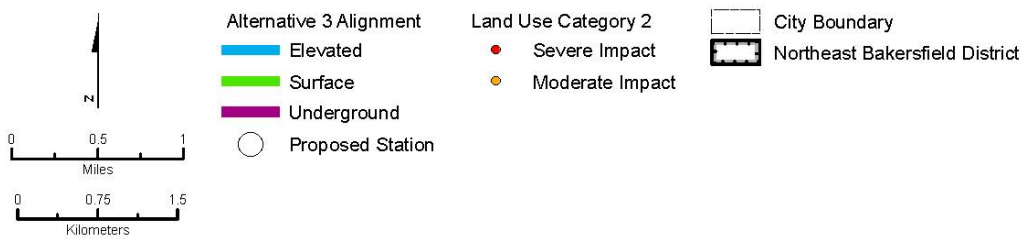
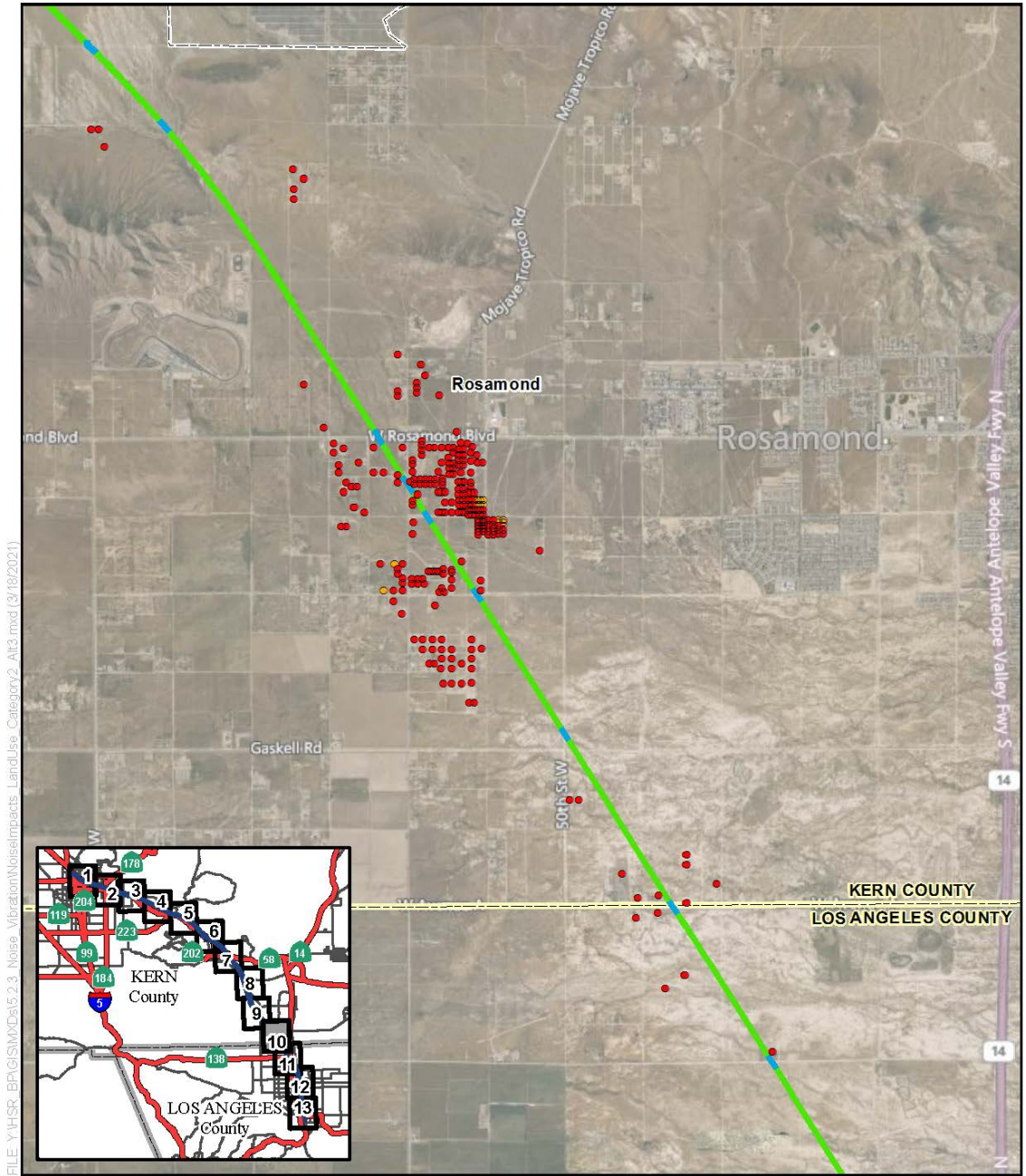
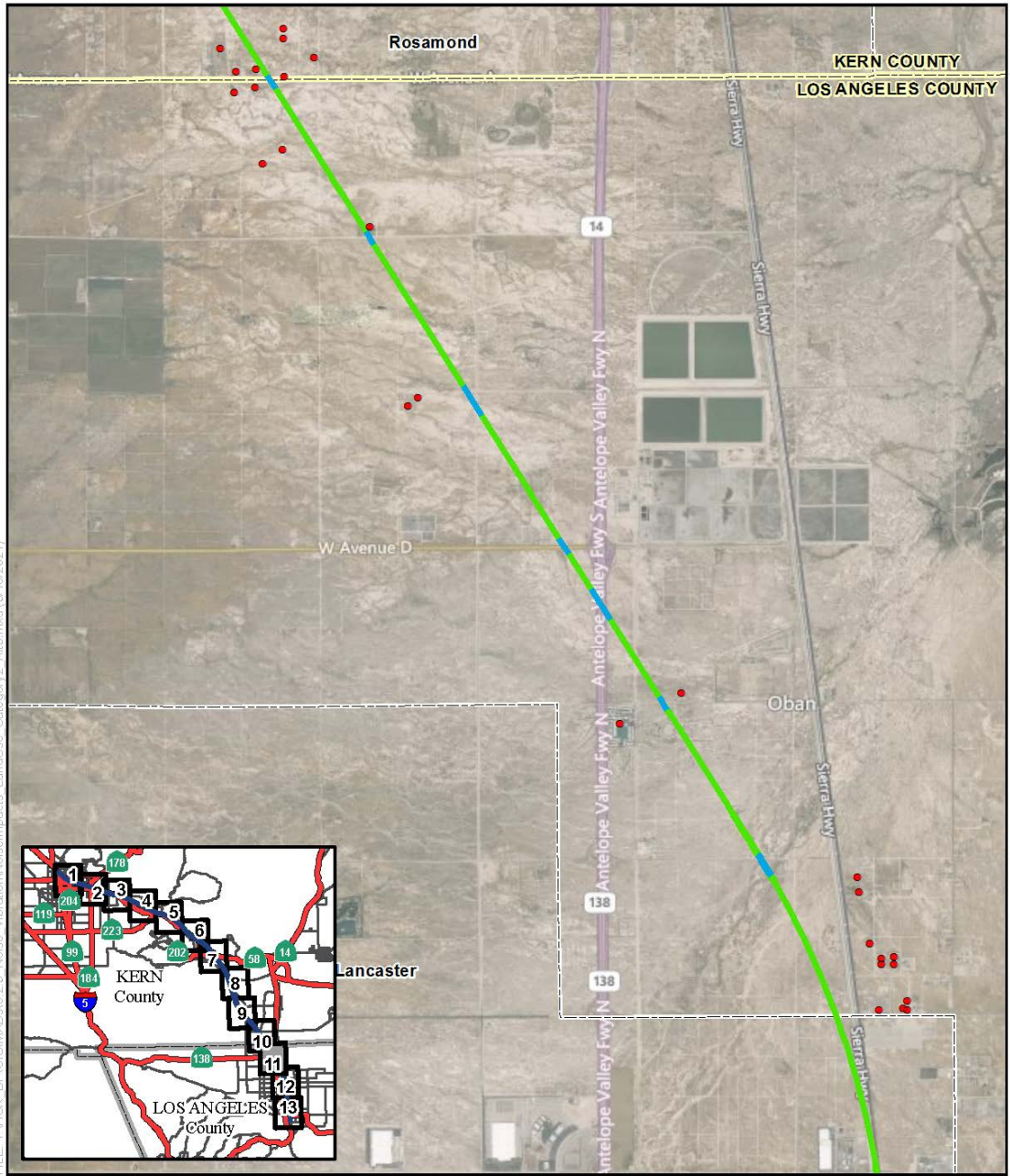


Figure 3.4-A-4 Land Use Category 2 Noise Impacts—Alternative 3
 (Sheet 10 of 13)



SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

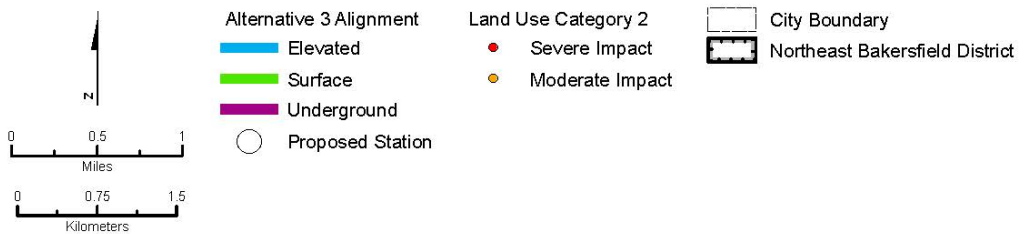
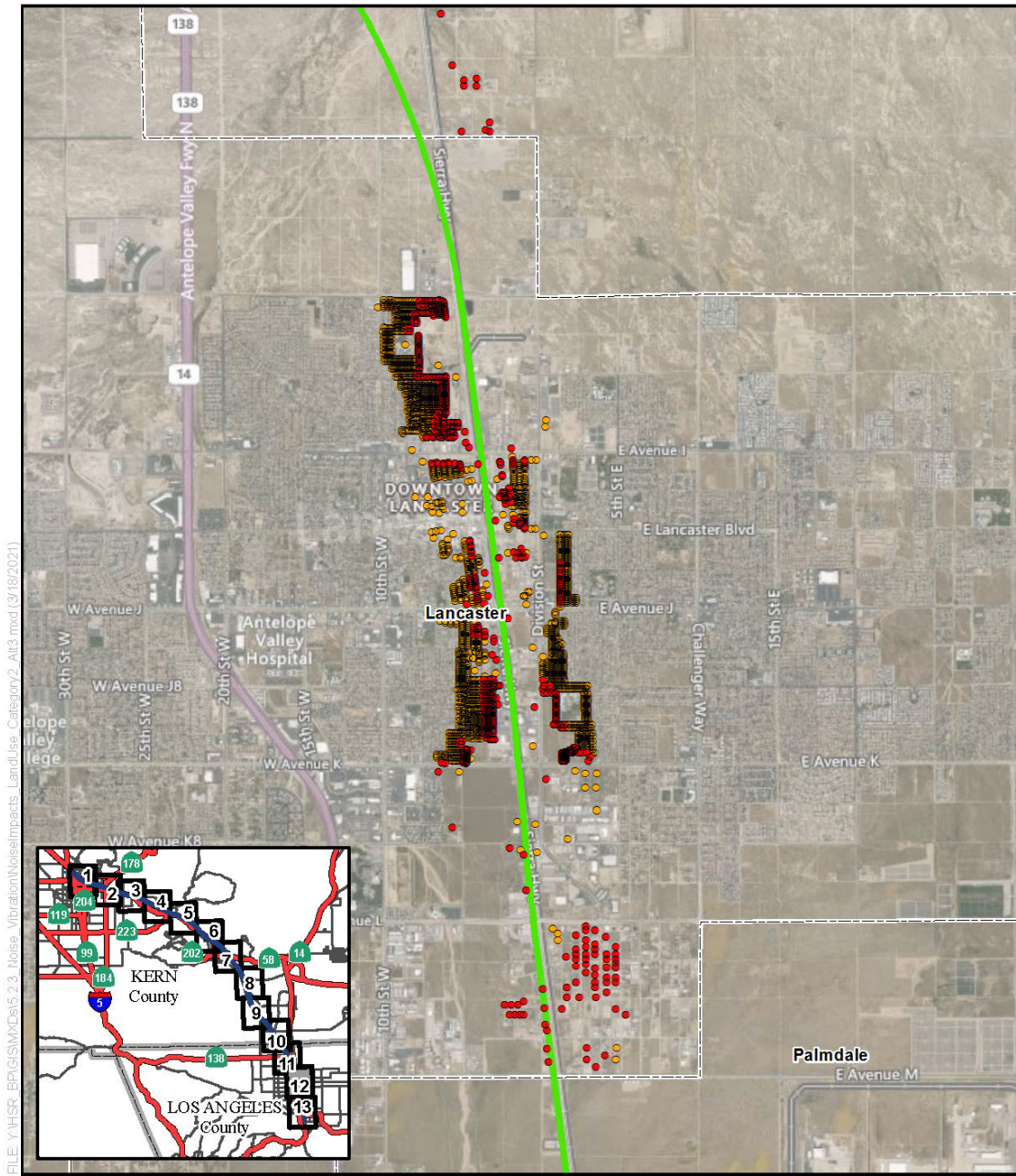


Figure 3.4-A-4 Land Use Category 2 Noise Impacts—Alternative 3
(Sheet 11 of 13)



FILE: V:\HSR_BPG\GIS\MapDocs\5.03_Noise_Vibration\NoiseImpacts_Lancaster_Cat2.mxd (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

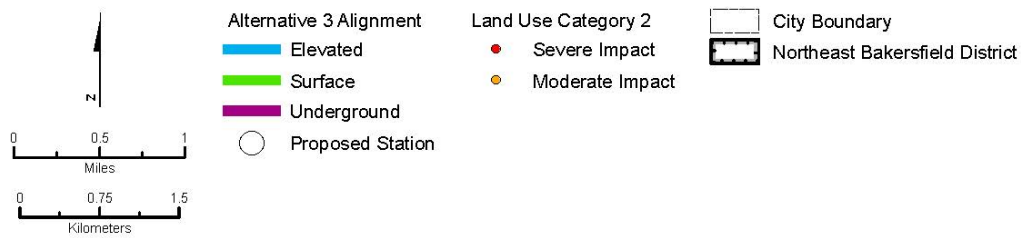
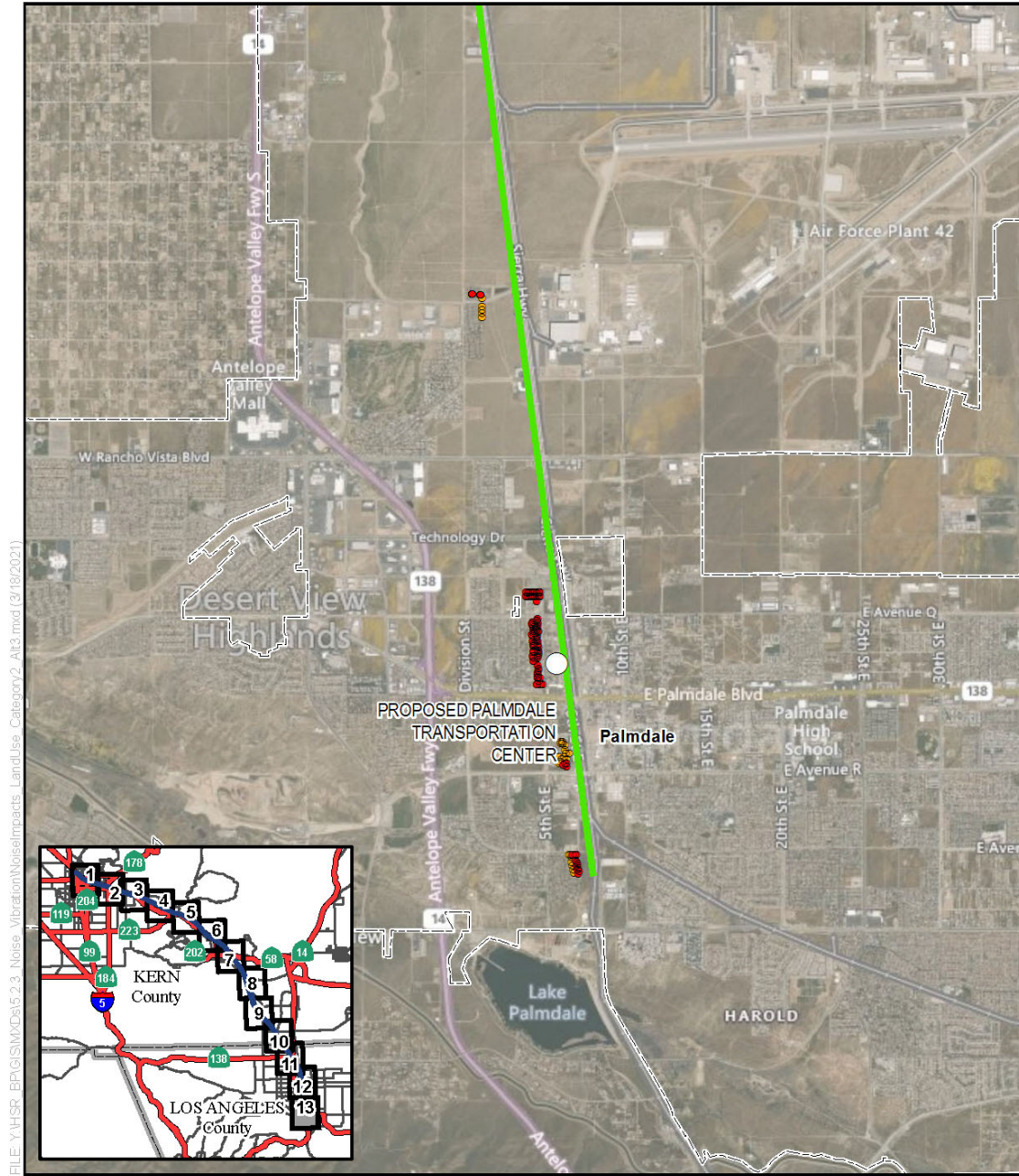


Figure 3.4-A-4 Land Use Category 2 Noise Impacts—Alternative 3
 (Sheet 12 of 13)



FILE: Y:\HSR_BIP\CIS\Map\3.2.3_Noise_Vibration\NoiseImpacts_LandUse_Cat2.mxd (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

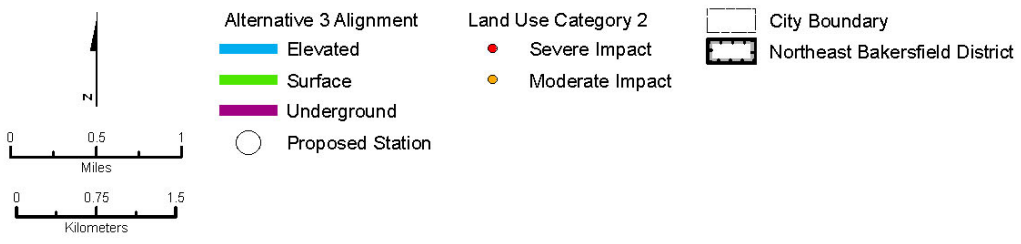


Figure 3.4-A-4 Land Use Category 2 Noise Impacts—Alternative 3
 (Sheet 13 of 13)

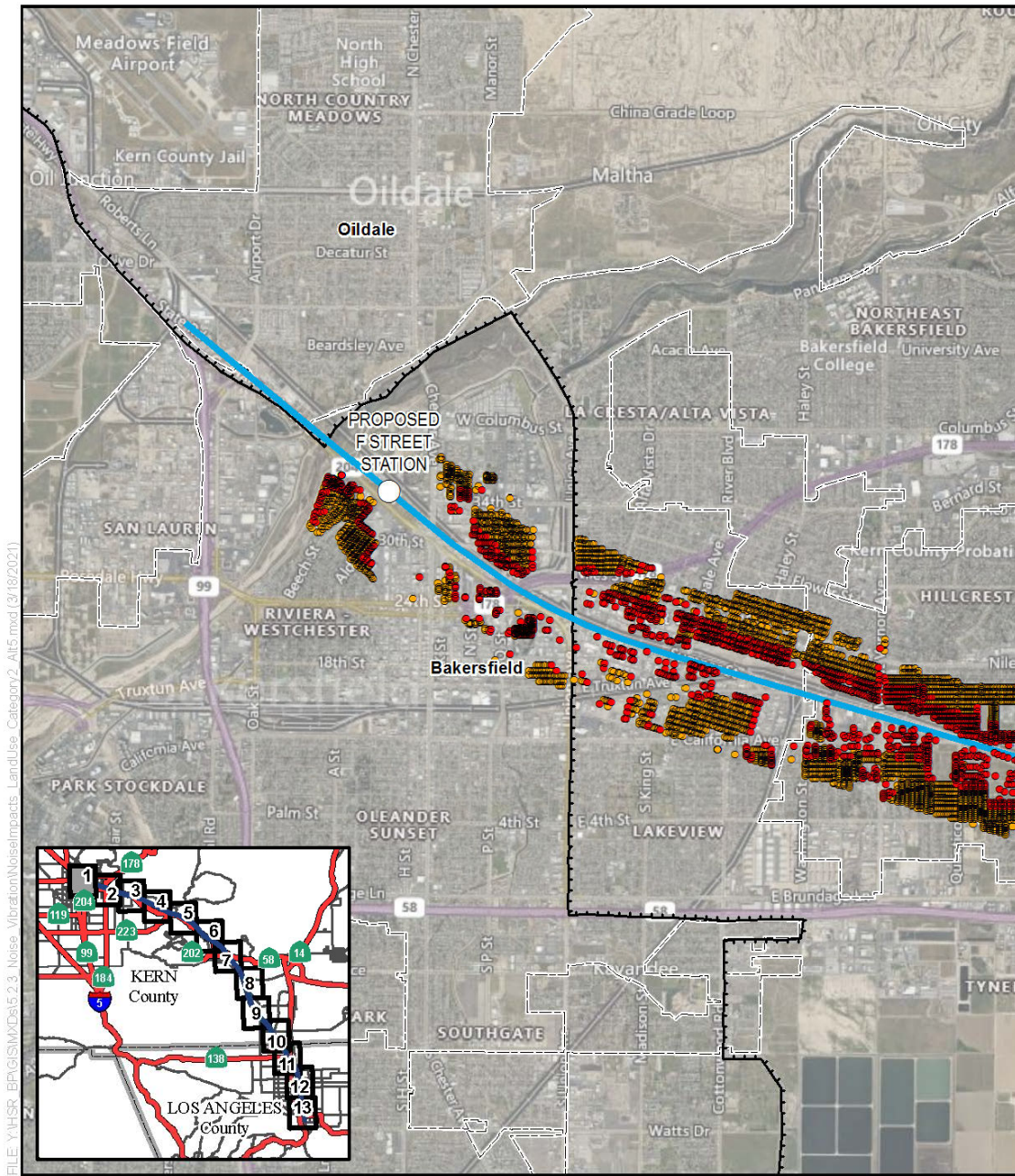
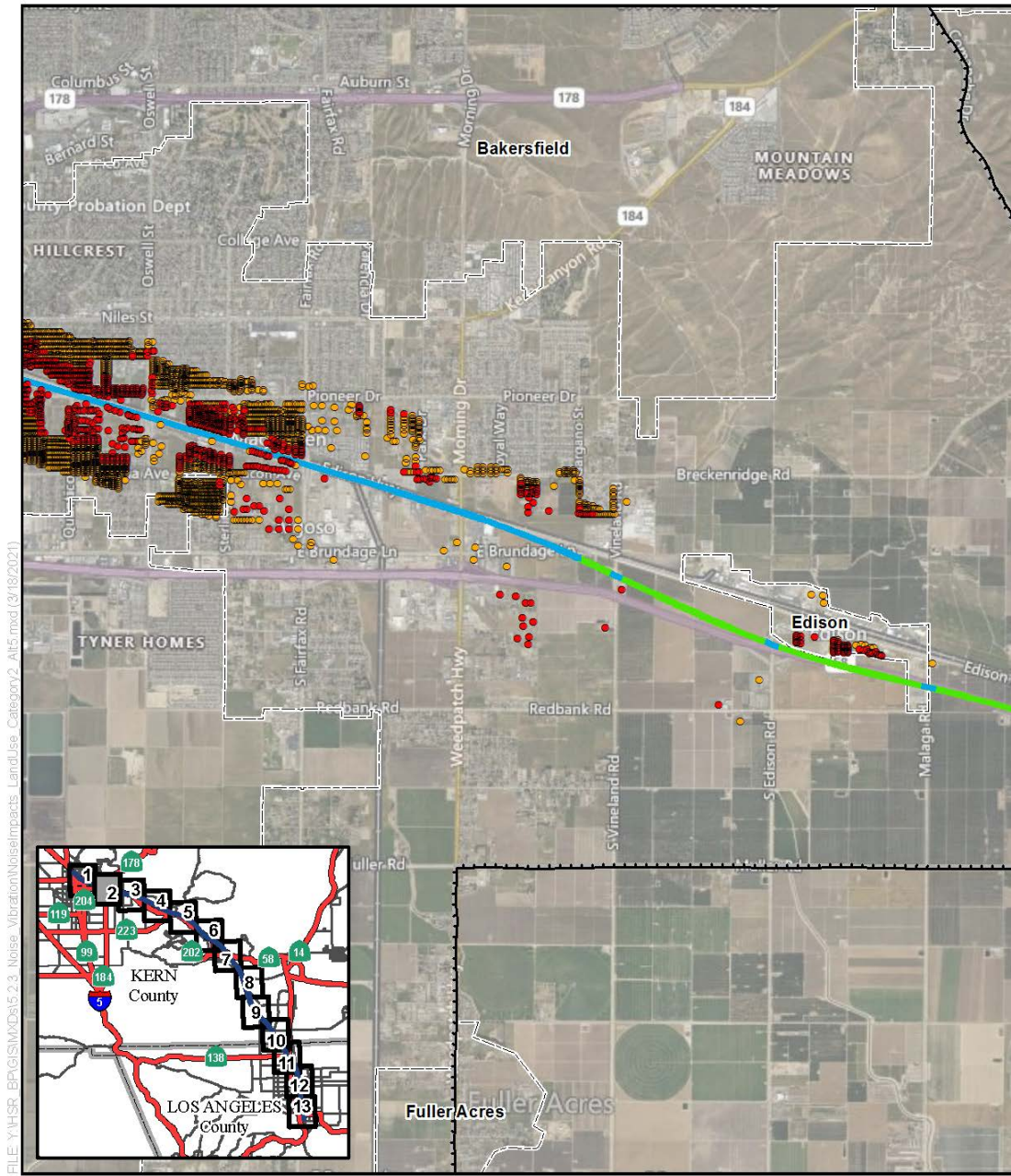


Figure 3.4-A-5 Land Use Category 2 Noise Impacts—Alternative 5
(Sheet 1 of 13)

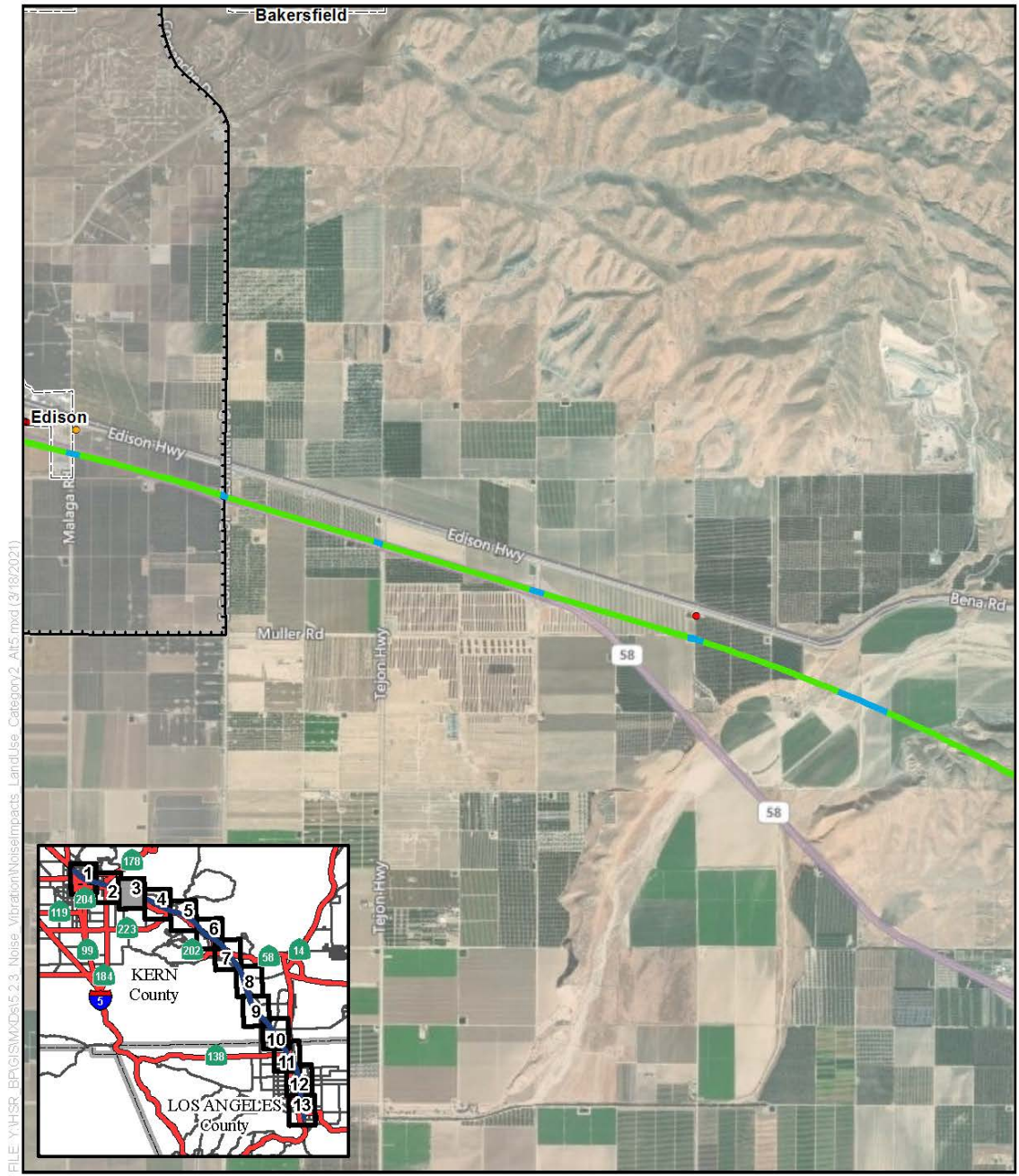


FILE: Y:\HSR_BPG\GIS\MXD\5.2.3_Noise_Vibration\NoiseImpacts_LandUse_Category2_Alt5.mxd (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

 	Alternative 5 Alignment Elevated Surface Underground	Land Use Category 2 Severe Impact Moderate Impact	City Boundary Northeast Bakersfield District
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Figure 3.4-A-5 Land Use Category 2 Noise Impacts—Alternative 5
(Sheet 2 of 13)



FILE: Y:\HSR_EPR\GIS\MapSet\2.3_Noise_Vibration\NoiseImpacts_LandUse_Category2_Anc.mxd (3/13/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

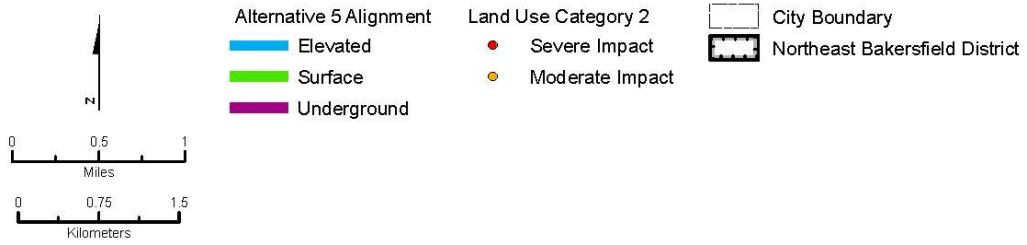
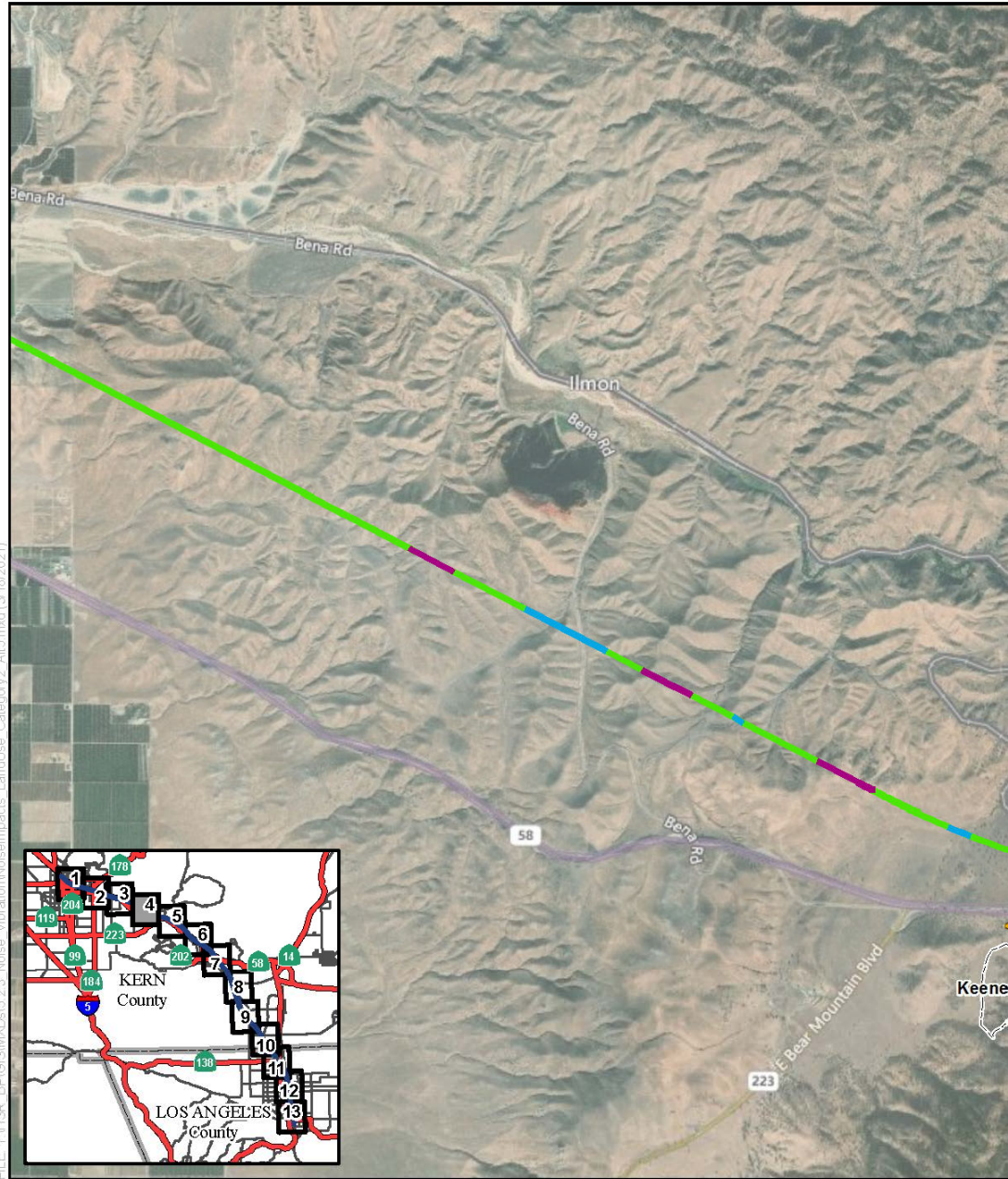


Figure 3.4-A-5 Land Use Category 2 Noise Impacts—Alternative 5
(Sheet 3 of 13)

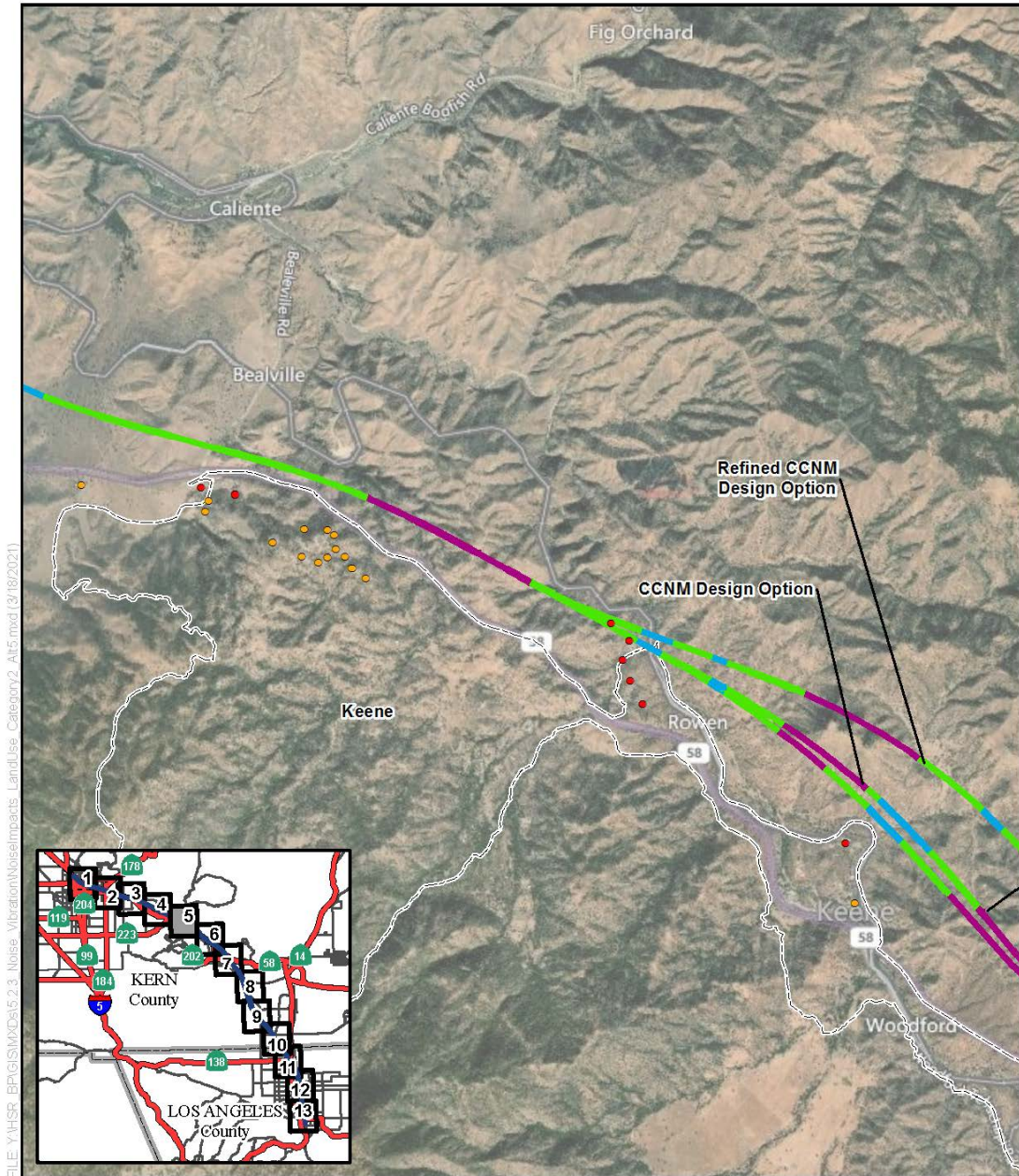


FILE: Y:\HSR_BPG\GIS\MapDocs\5.2.3_Noise_Vibration\NoiseImpacts_LandUse_Category2_Alt5.mxd (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)



Figure 3.4-A-5 Land Use Category 2 Noise Impacts—Alternative 5
(Sheet 4 of 13)



FILE: Y:\HSR_BPR\GIS\MapDocs\15.2.3_Noise_Vibration\NoiseImpacts_LandUse_Category2_Alt5.mxd (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

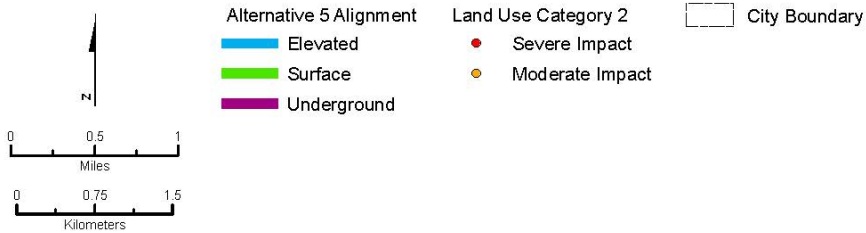
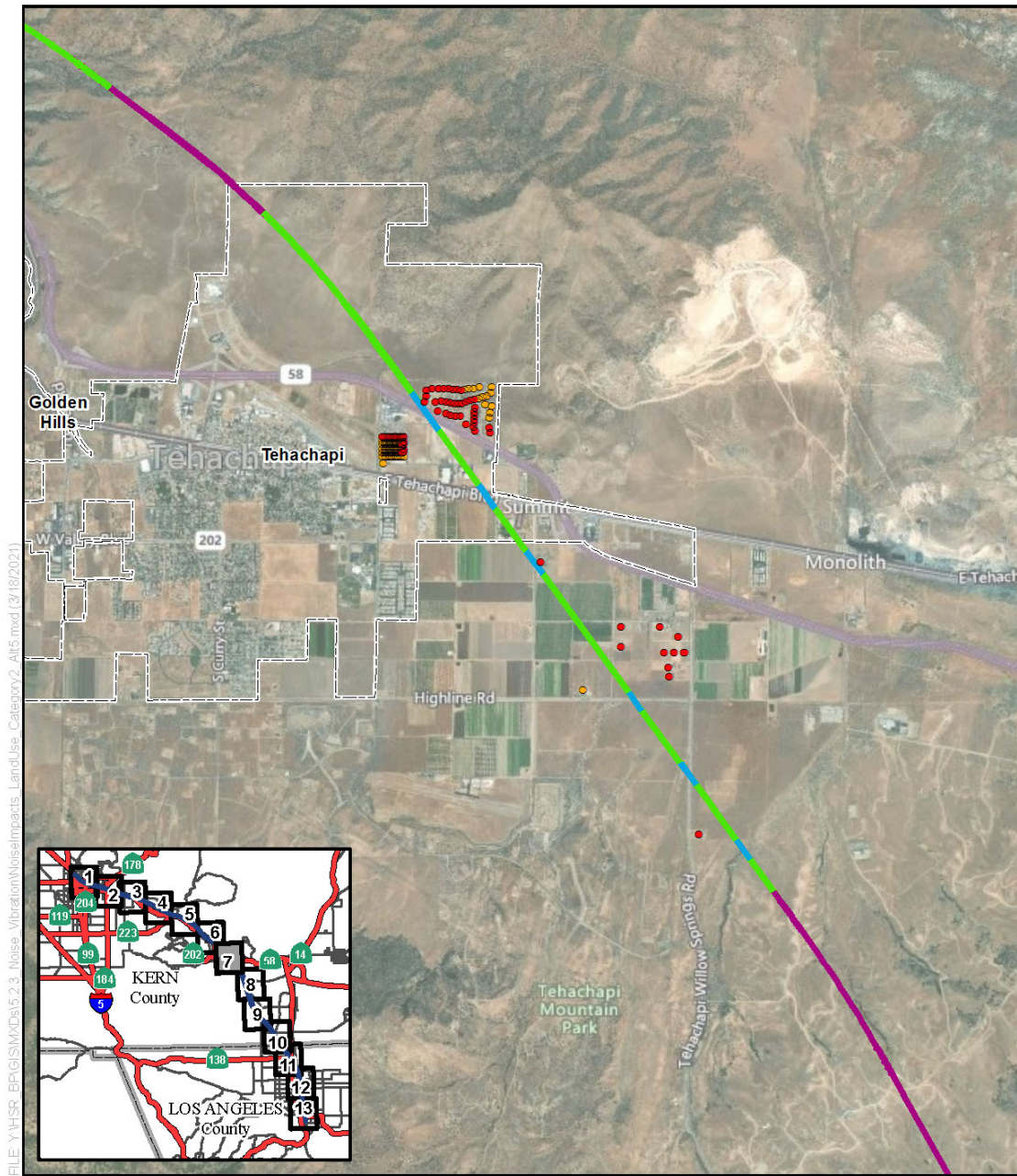


Figure 3.4-A-5 Land Use Category 2 Noise Impacts—Alternative 5
(Sheet 5 of 13)

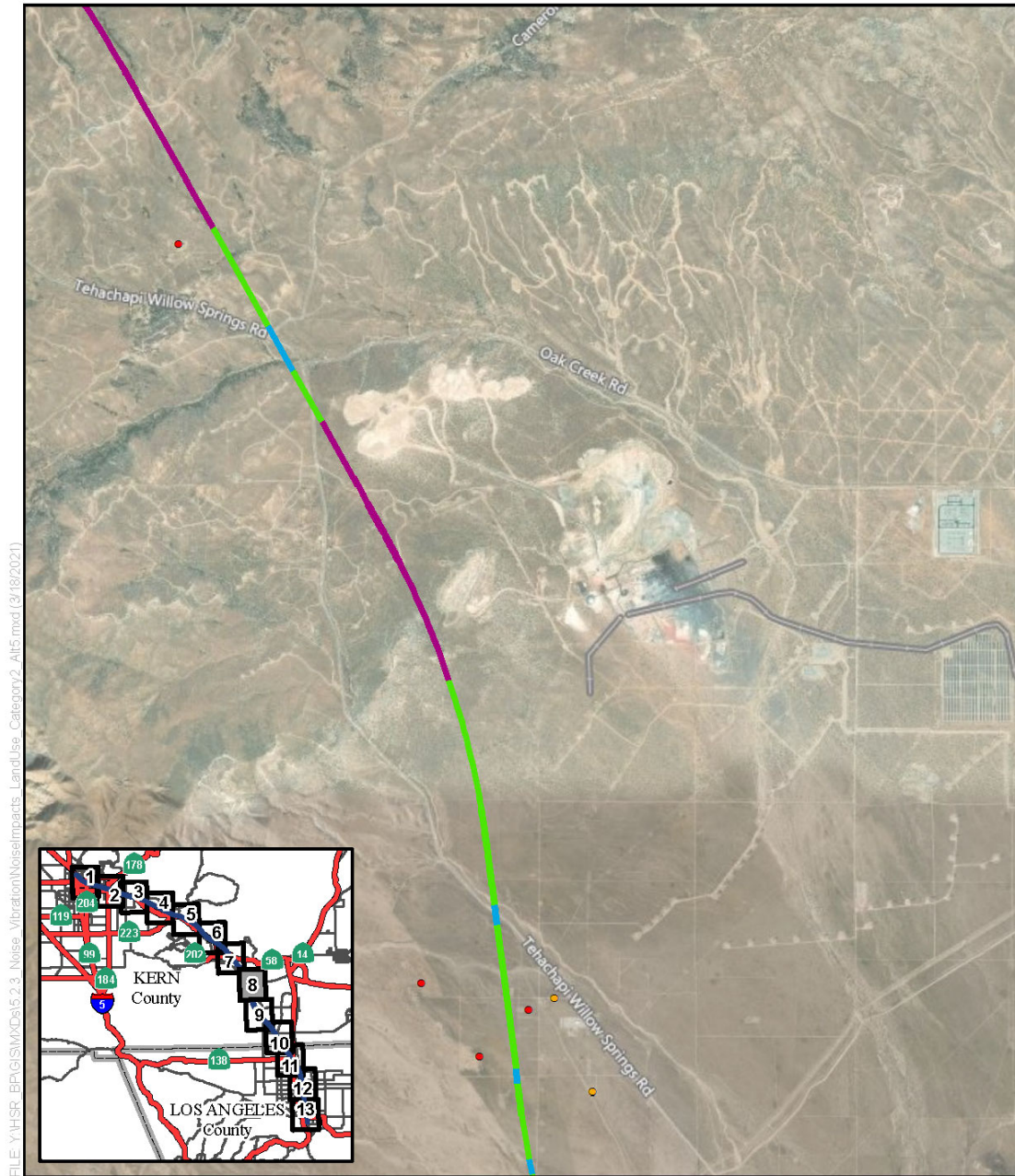


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SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)



Figure 3.4-A-5 Land Use Category 2 Noise Impacts—Alternative 5
(Sheet 7 of 13)



FILE: Y:\HSR_BPG\GIS\MXD\5.2.3_Noise_Vibration\NoiseImpacts_LandUse_Catgory2_Alt5.mxd (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

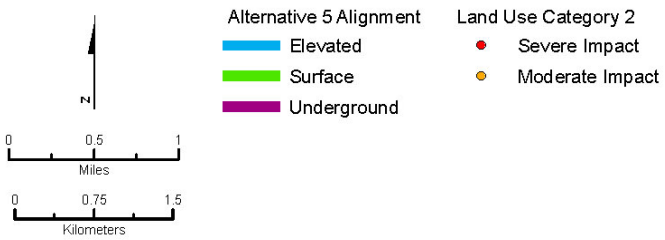
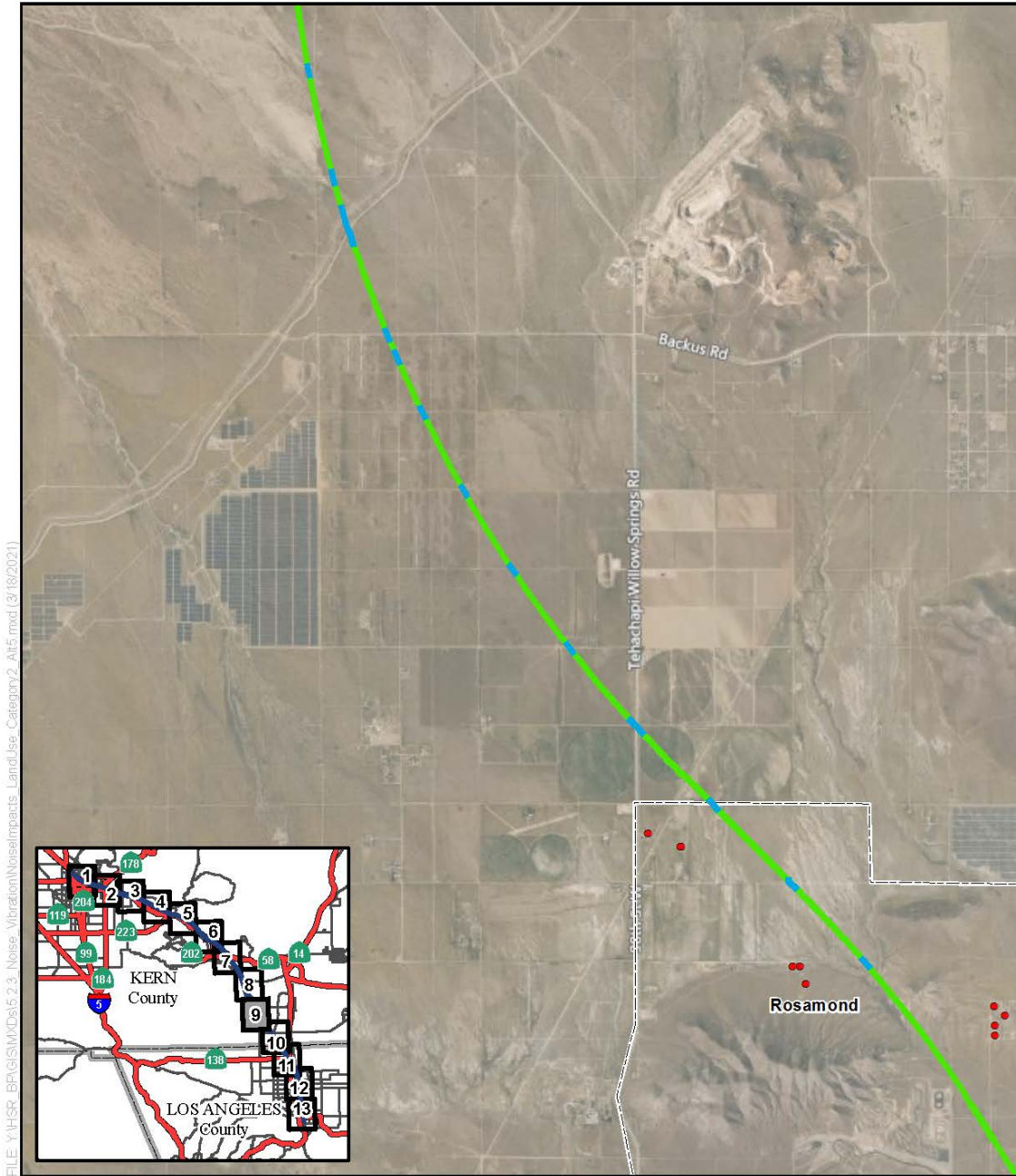


Figure 3.4-A-5 Land Use Category 2 Noise Impacts—Alternative 5
(Sheet 8 of 13)



FILE: Y:\HSR_BEG\GIS\Map\5.2.3_Noise_Vibration\NoiseImpacts_LandUse_Category2_Alt5.mxd (3/18/2021)

SOURCE: Esri (2015), CHSRA (4/2016, 8/2018, 10/2019)

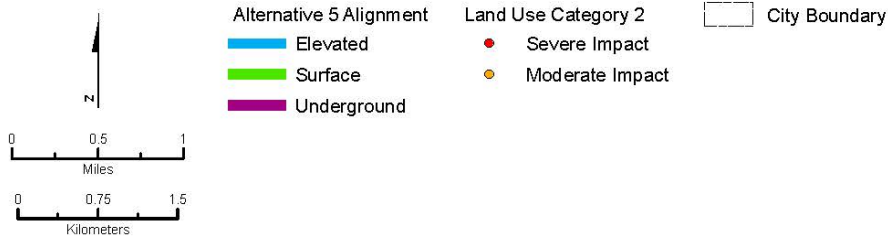
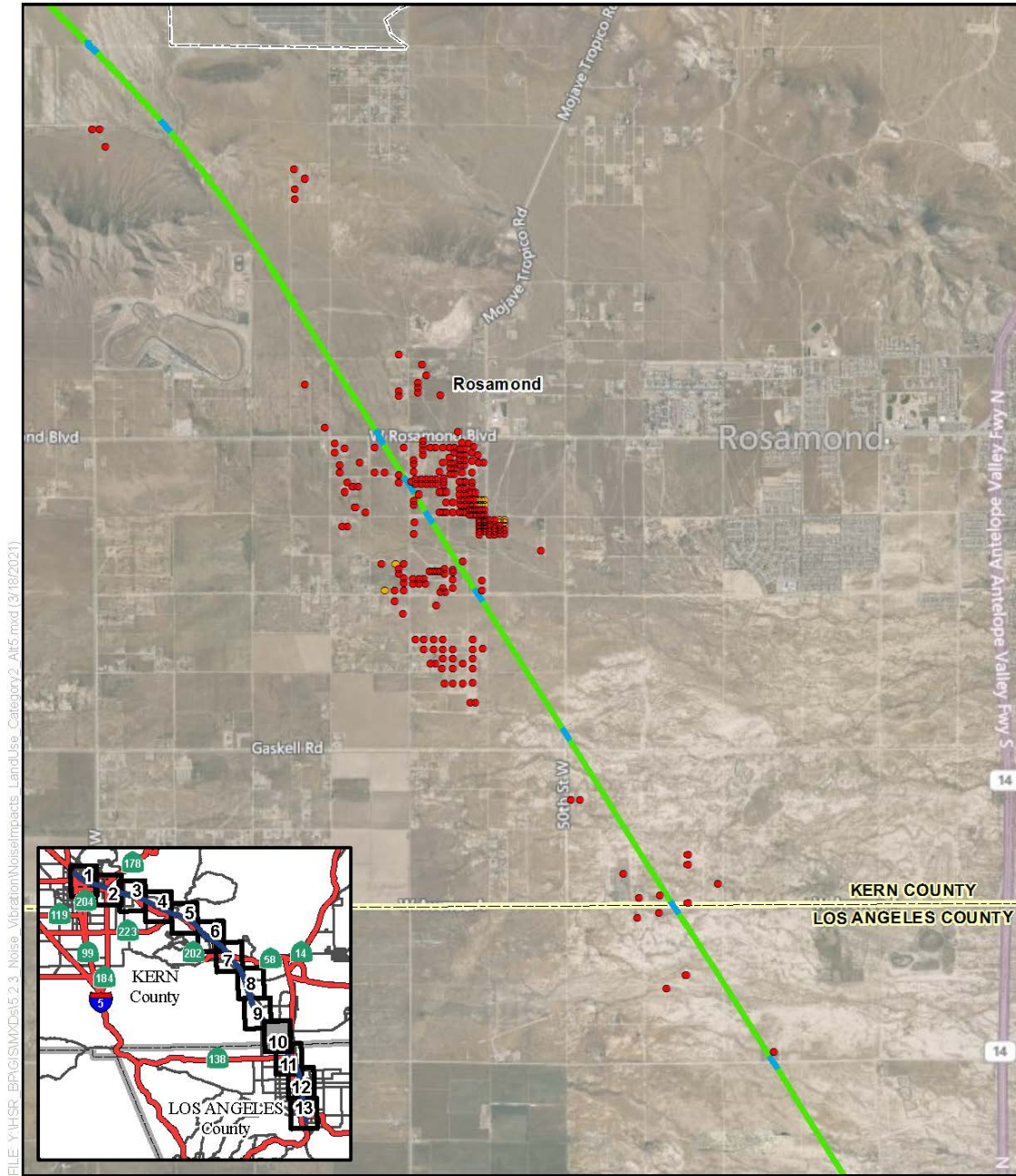


Figure 3.4-A-5 Land Use Category 2 Noise Impacts—Alternative 5
(Sheet 9 of 13)



FILE: Y:\HSR_BP\GIS\MXD\15.2.3_Noise_Vibration\NoiseImpacts_LandUse_Category2_Alt5.mxd (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

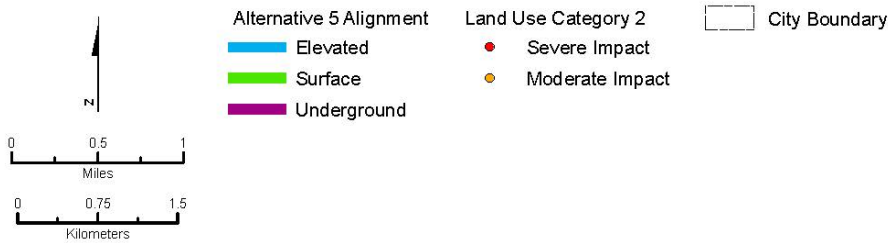
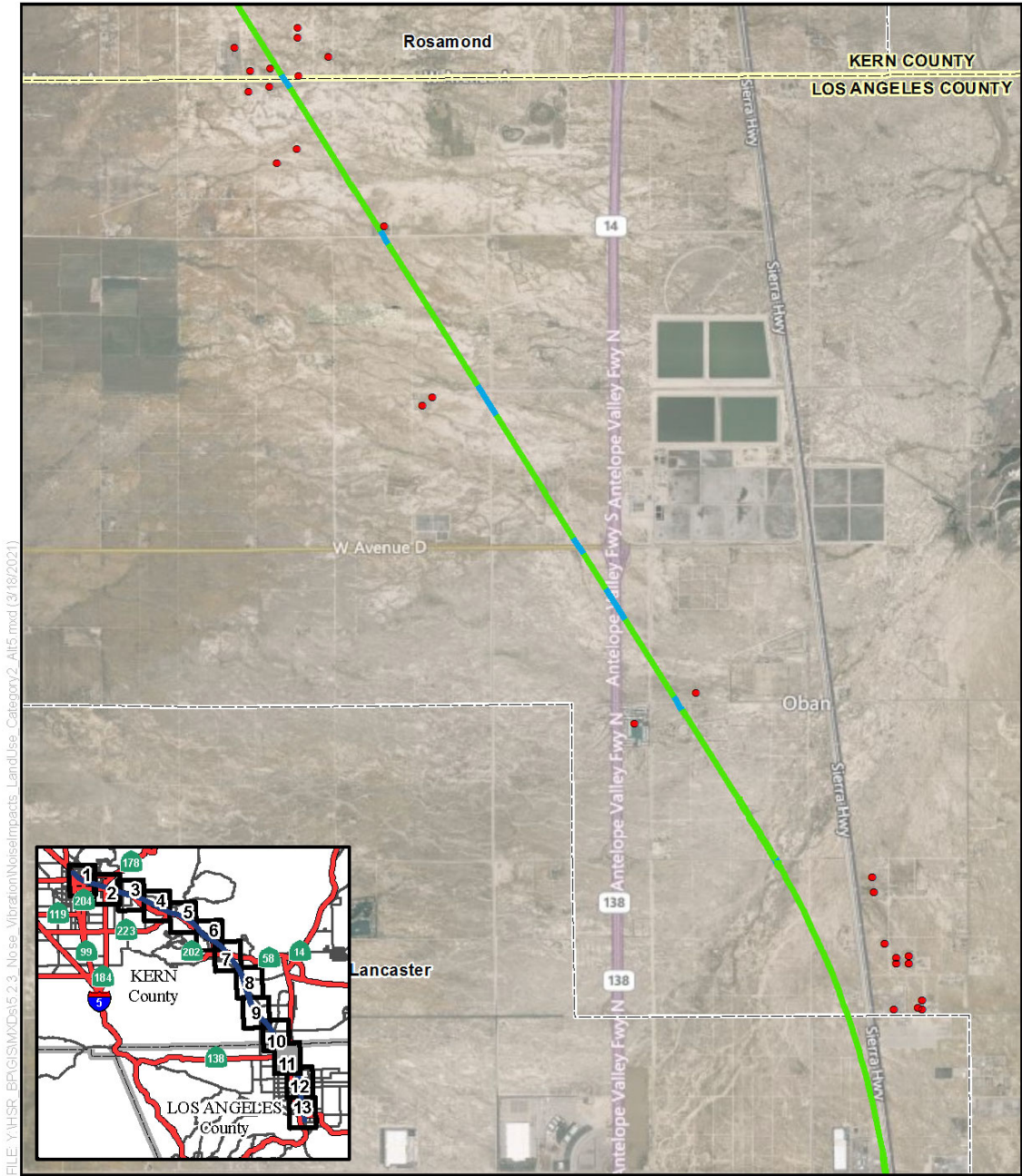


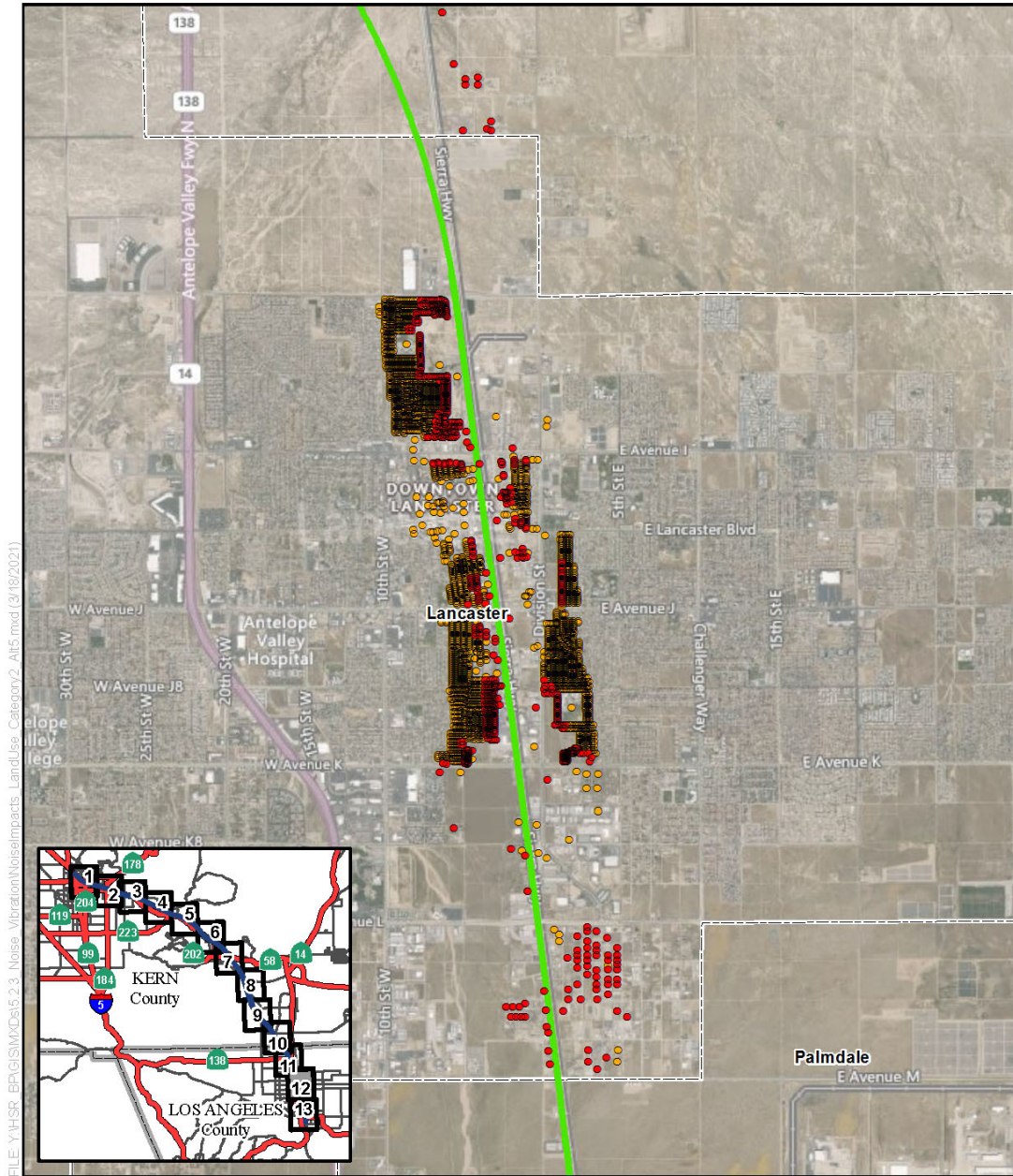
Figure 3.4-A-5 Land Use Category 2 Noise Impacts—Alternative 5
(Sheet 10 of 13)



SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)



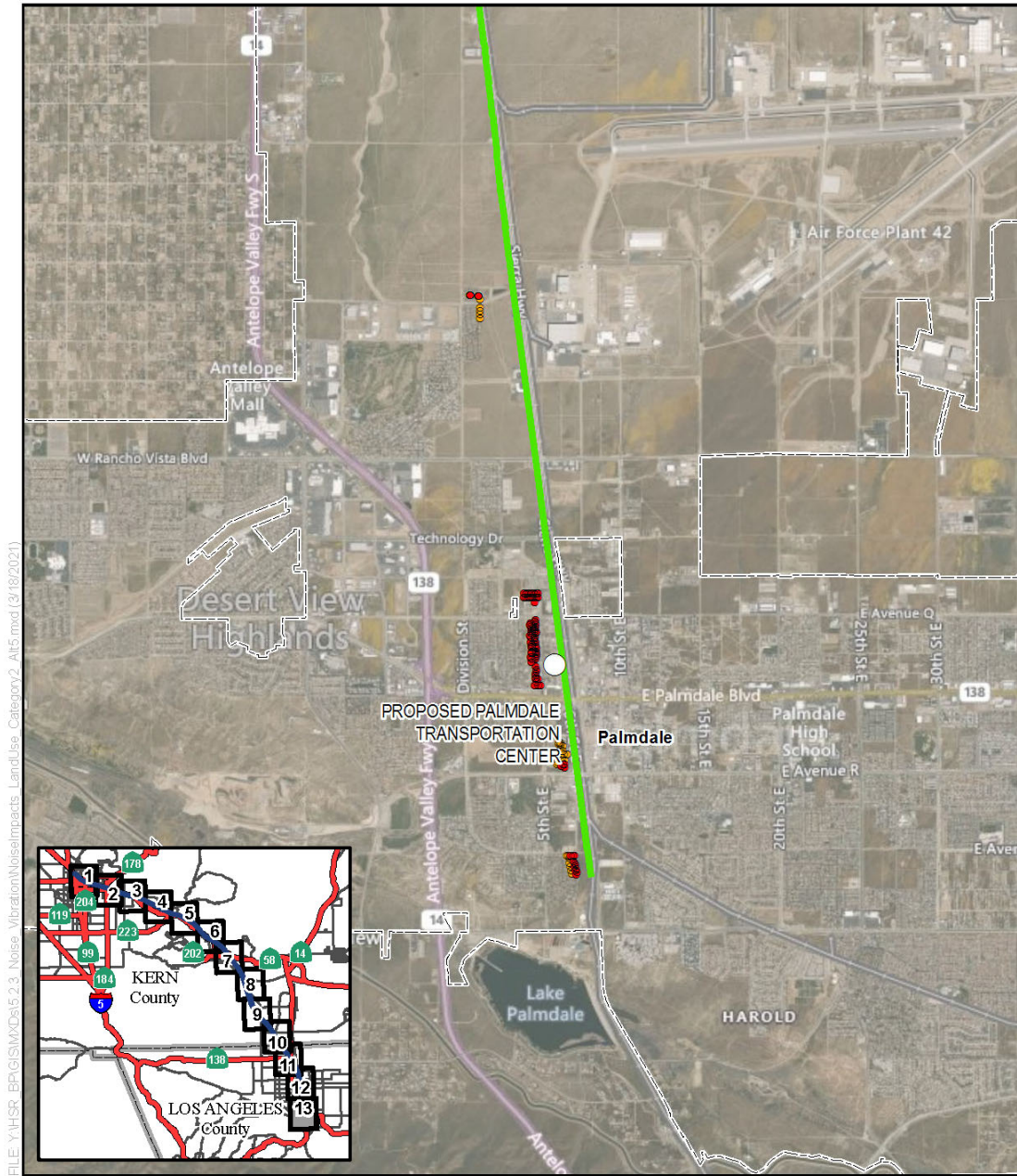
Figure 3.4-A-5 Land Use Category 2 Noise Impacts—Alternative 5
(Sheet 11 of 13)



SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)



Figure 3.4-A-5 Land Use Category 2 Noise Impacts—Alternative 5
(Sheet 12 of 13)



SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

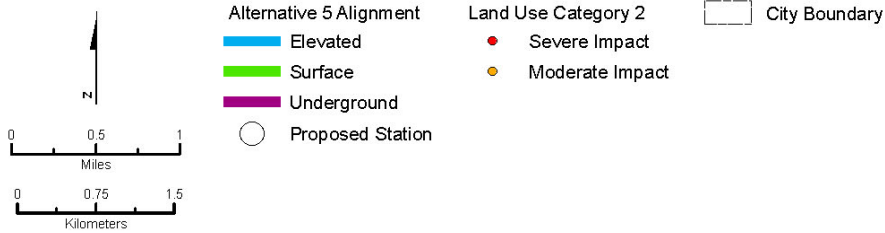


Figure 3.4-A-5 Land Use Category 2 Noise Impacts—Alternative 5
(Sheet 13 of 13)

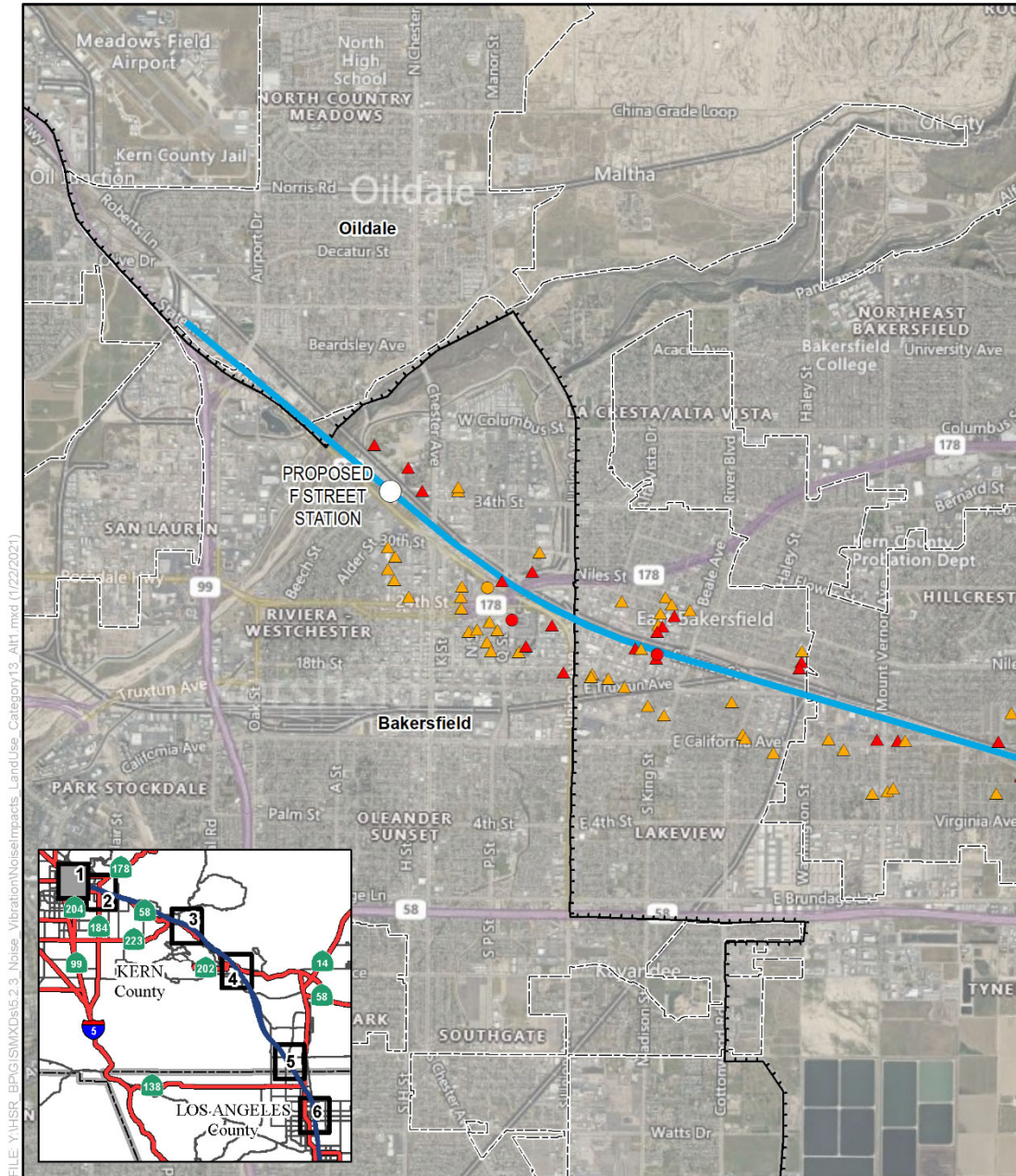
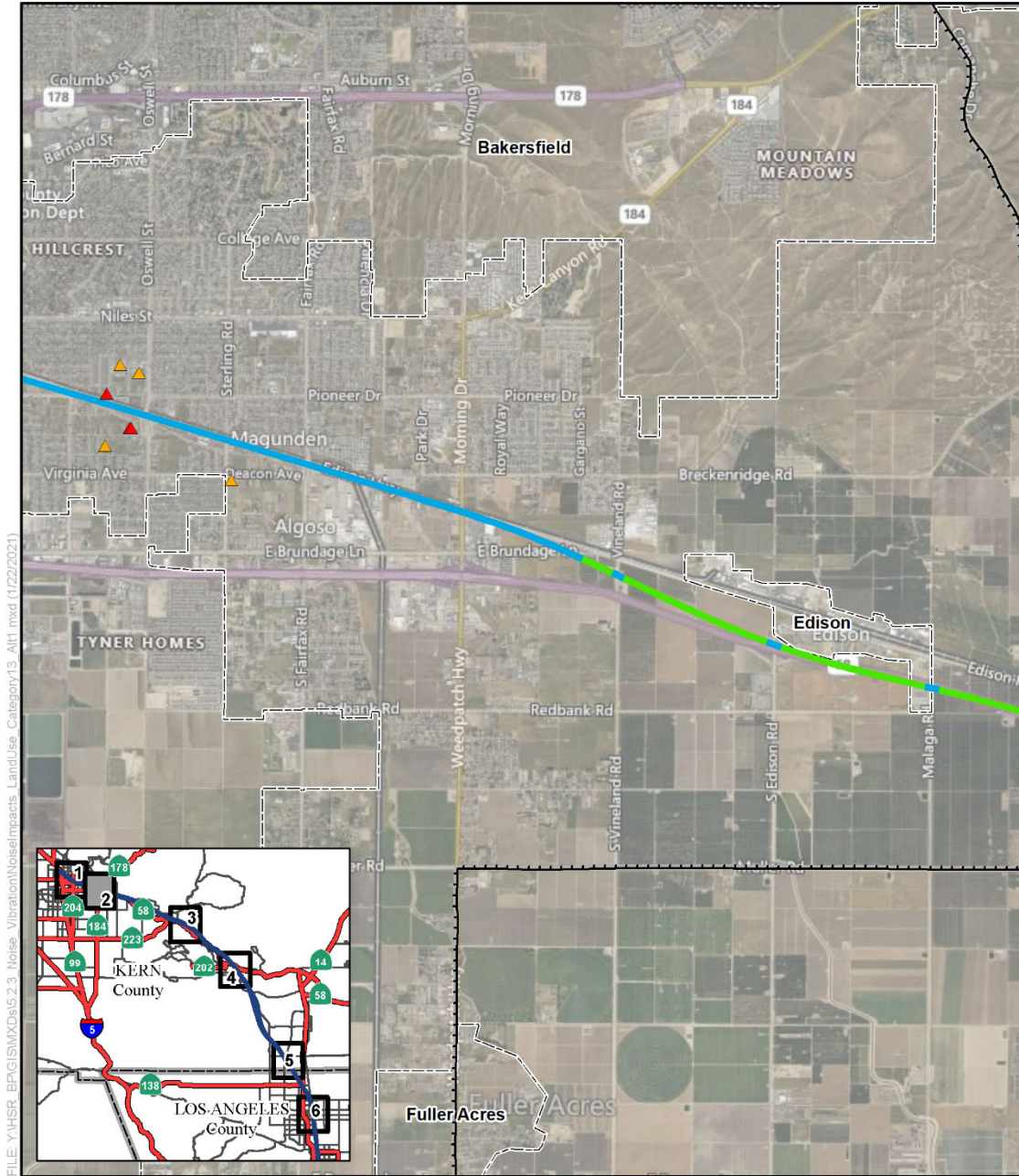


Figure 3.4-A-6 Land Use Categories 1 and 3 Noise Impacts—Alternative 1
(Sheet 1 of 6)



FILE: Y:\HSR_BP\GIS\MXDs\5.2.3_Noise_Vibration\NoiseImpacts_LandUse_Category13_Alt1.mxd (1/22/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

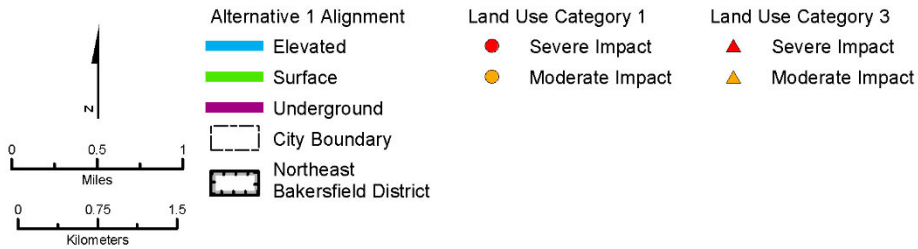
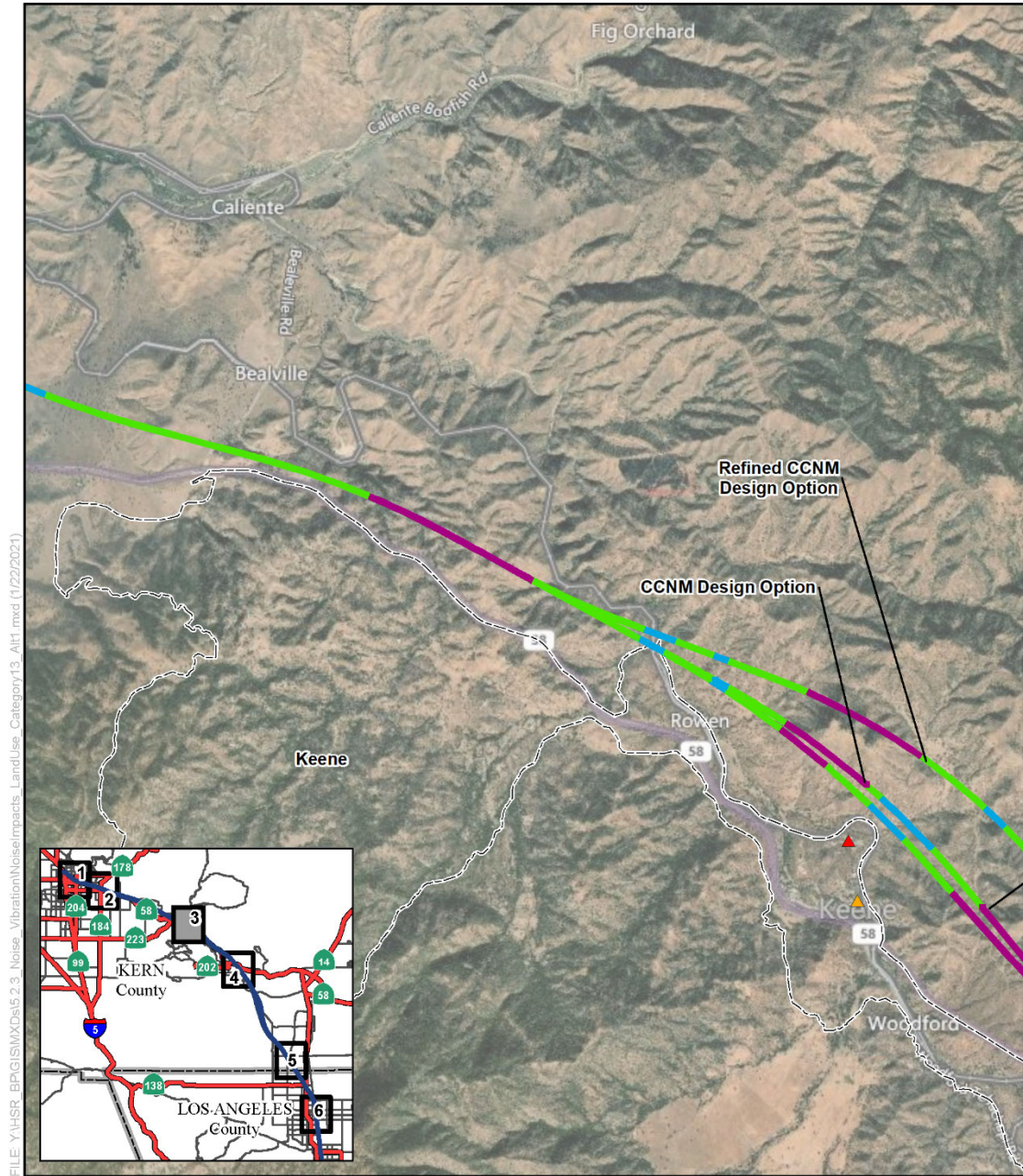


Figure 3.4-A-6 Land Use Categories 1 and 3 Noise Impacts—Alternative 1
(Sheet 2 of 6)

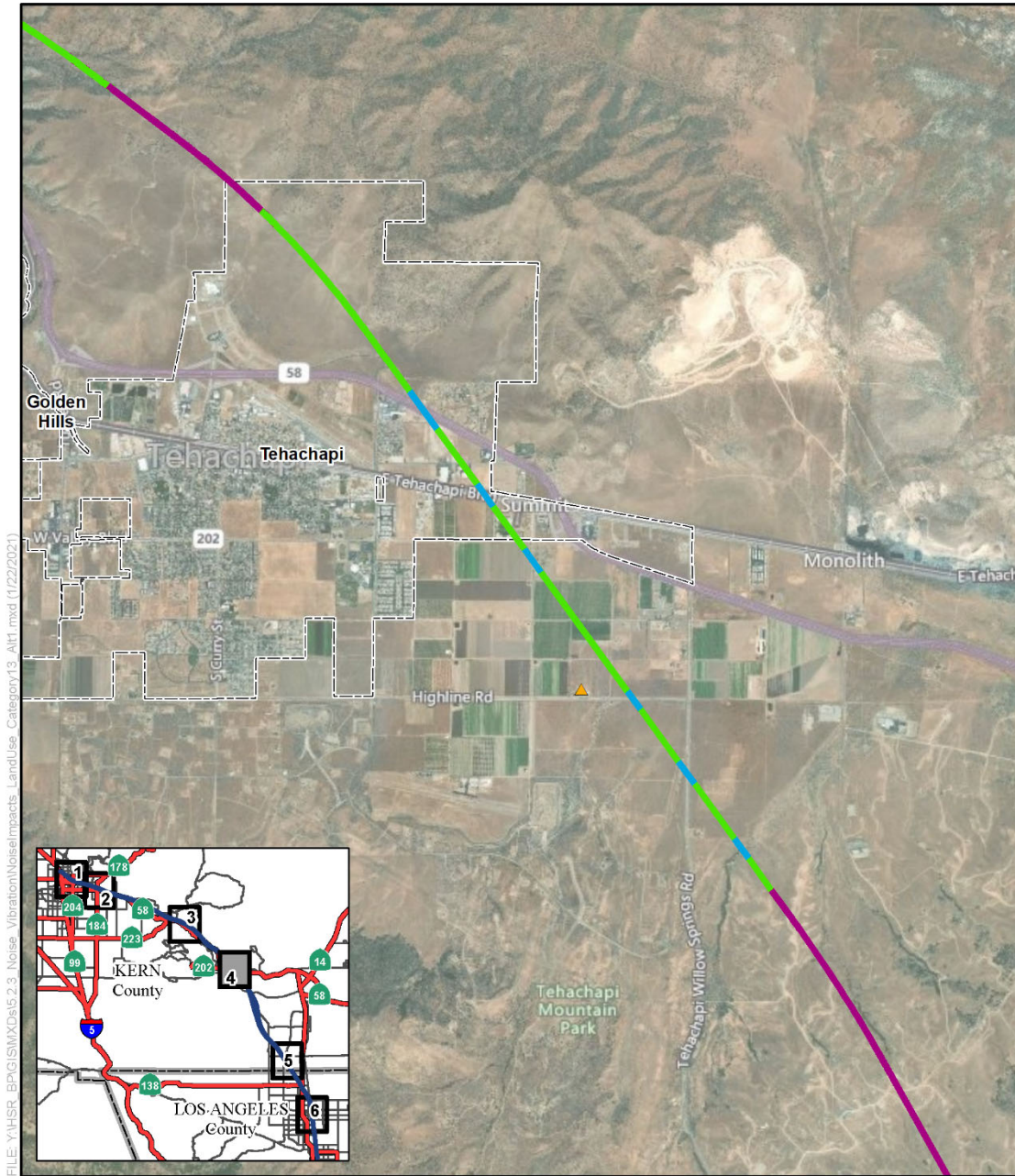


FILE: Y:\HSR_BP\GIS\MXDs\5.2.3_Noise_Vibration\NoiseImpacts_LandUse_Category13_Alt1.mxd (1/22/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)



Figure 3.4-A-6 Land Use Categories 1 and 3 Noise Impacts—Alternative 1
(Sheet 3 of 6)

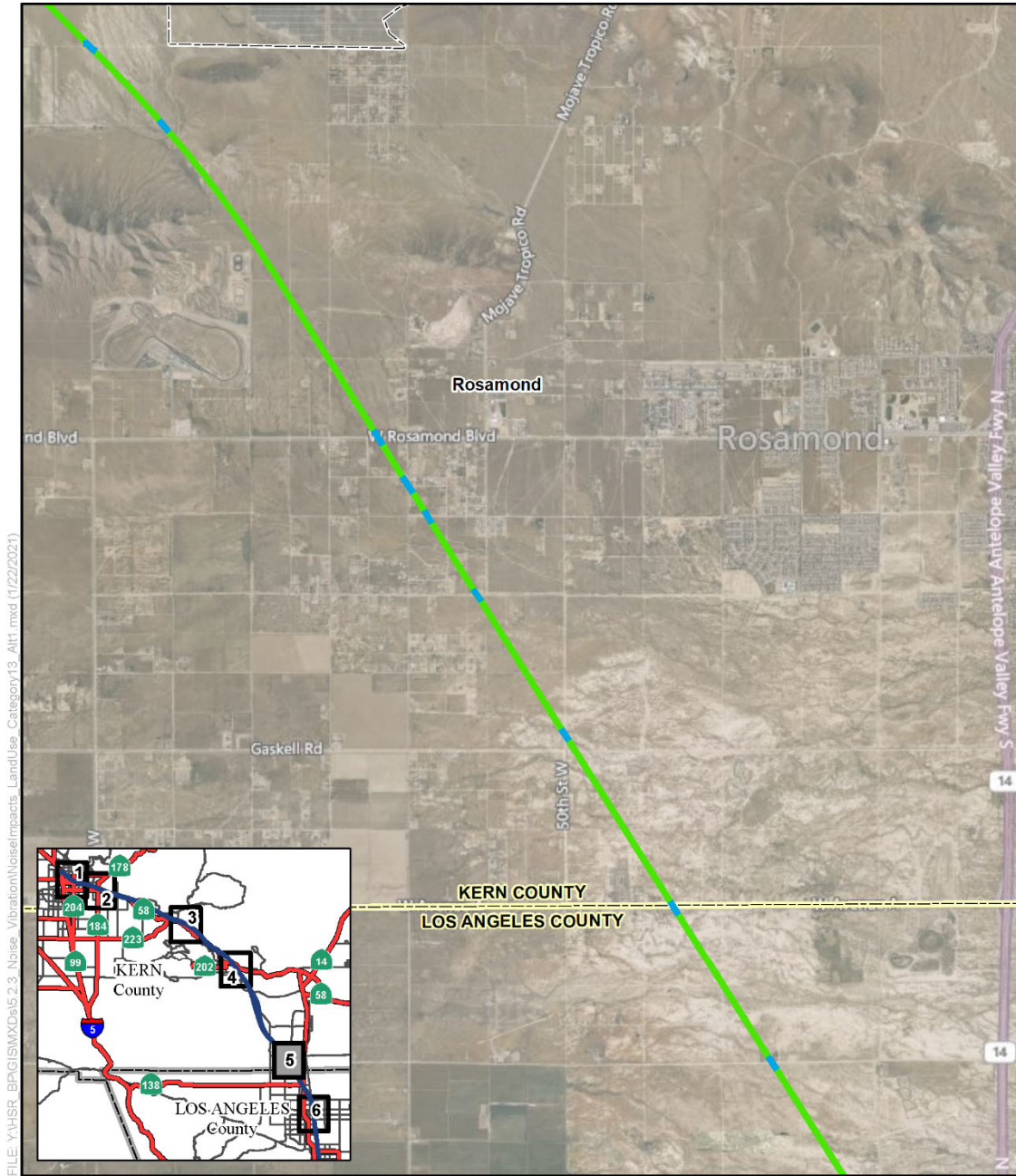


FILE: Y:\HSR_BPG\GIS\MXDs\5.2.3_Noise_Vibration\NoiseImpacts_LandUse_Category13_Alt1.mxd (1/22/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)



Figure 3.4-A-6 Land Use Categories 1 and 3 Noise Impacts—Alternative 1
(Sheet 4 of 6)

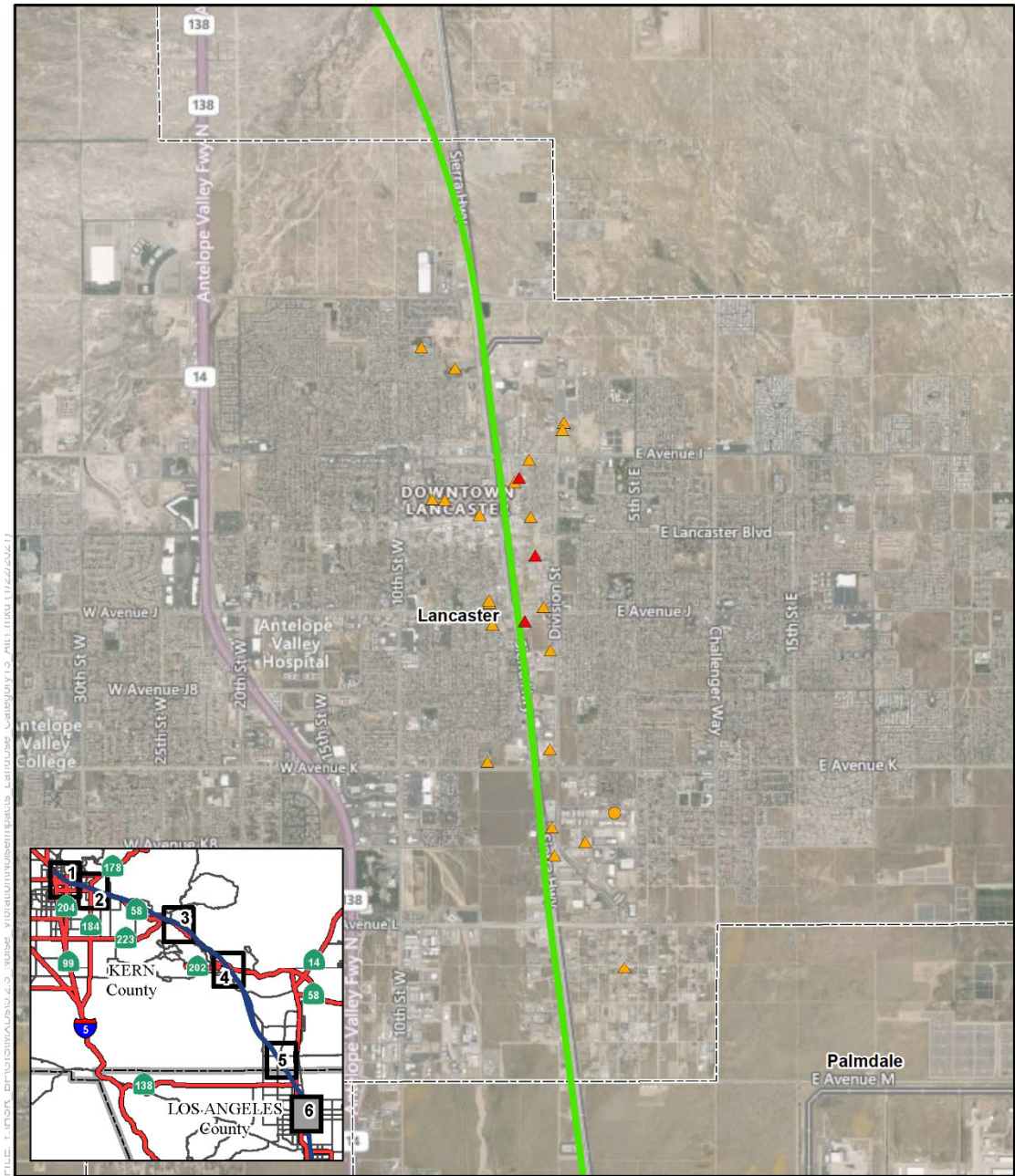


FILE: Y:\HSR_BP\GIS\MXDs\5.2.3_Noise_Vibration\NoiseImpacts_LandUse_Category13_Alt1.mxd (1/22/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)



Figure 3.4-A-6 Land Use Categories 1 and 3 Noise Impacts—Alternative 1
(Sheet 5 of 6)



SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

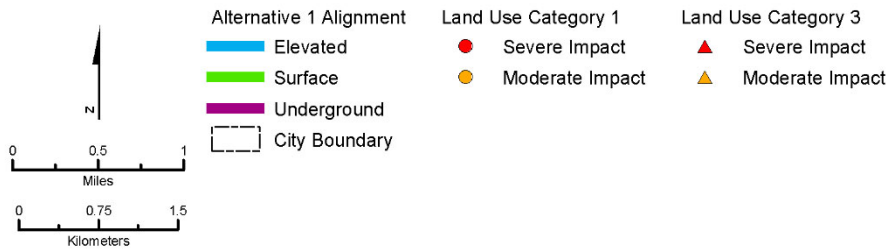


Figure 3.4-A-6 Land Use Categories 1 and 3 Noise Impacts—Alternative 1
(Sheet 6 of 6)

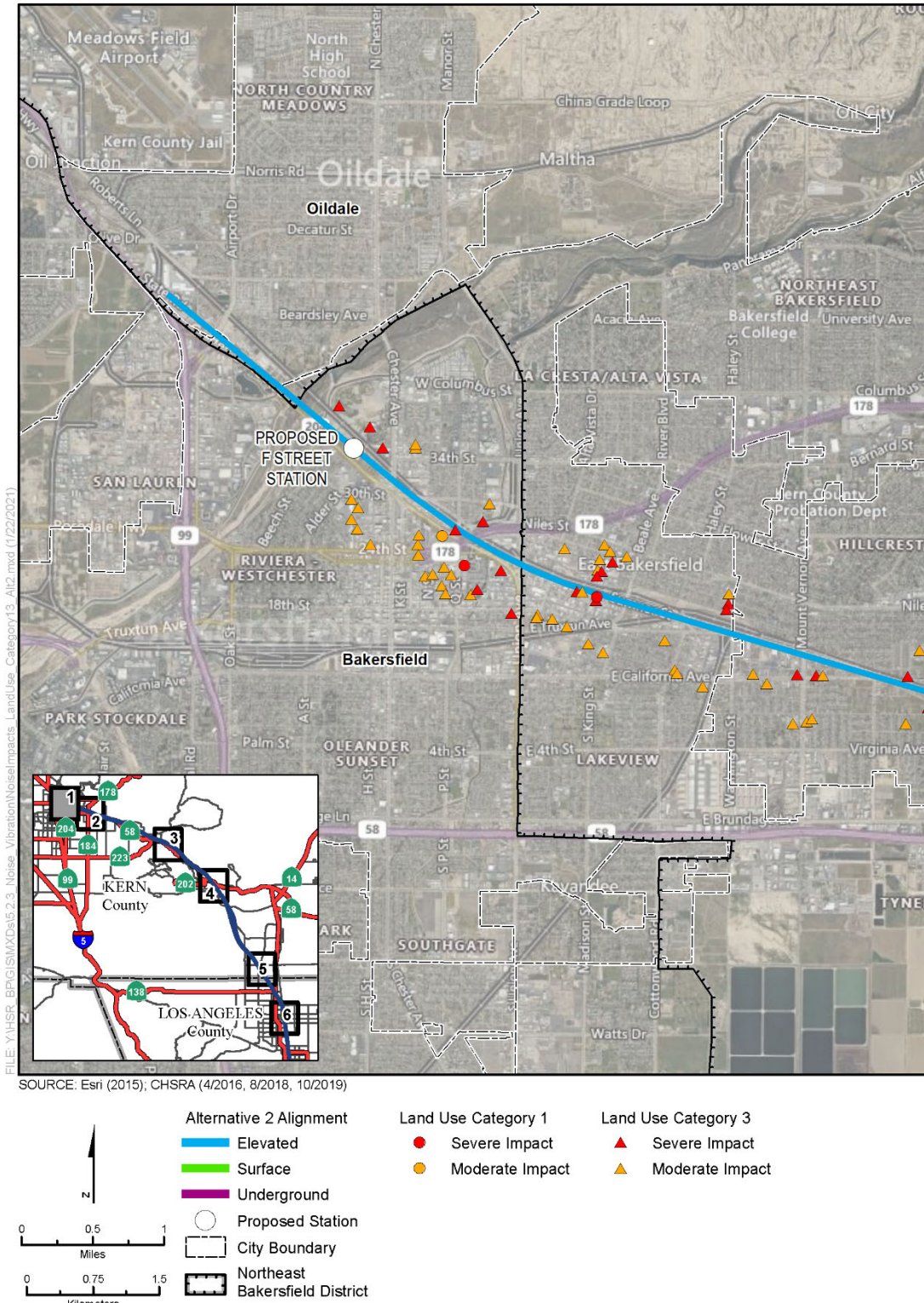


Figure 3.4-A-7 Land Use Categories 1 and 3 Noise Impacts—Alternative 2
(Sheet 1 of 6)

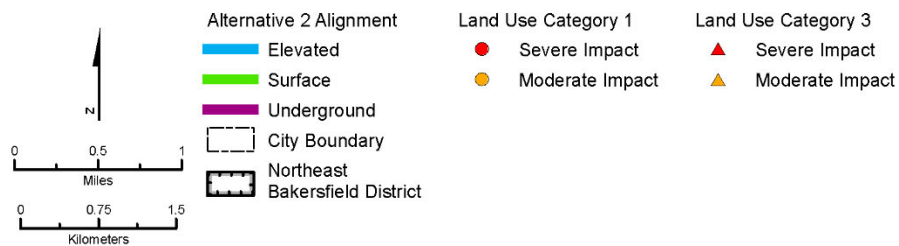
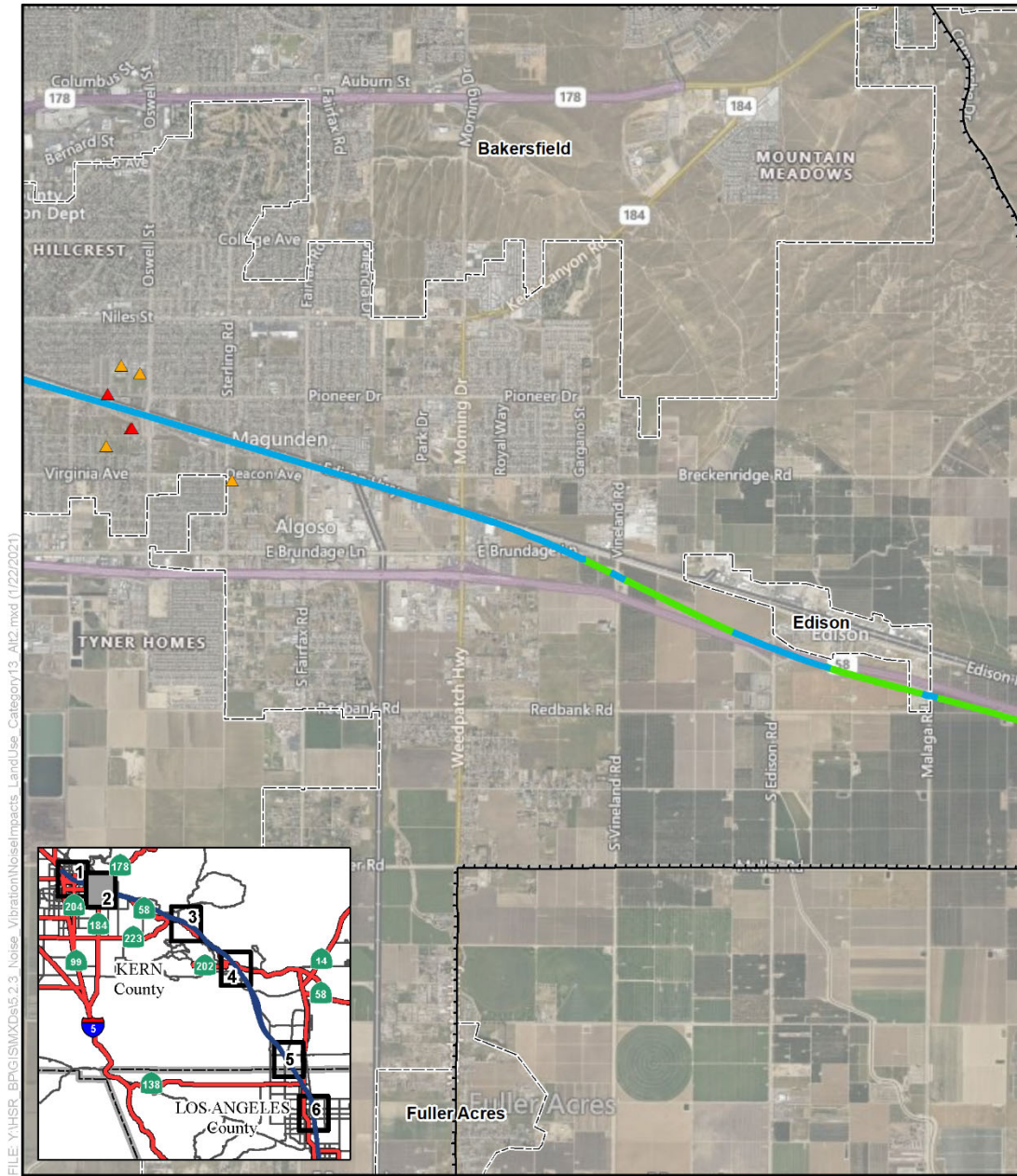
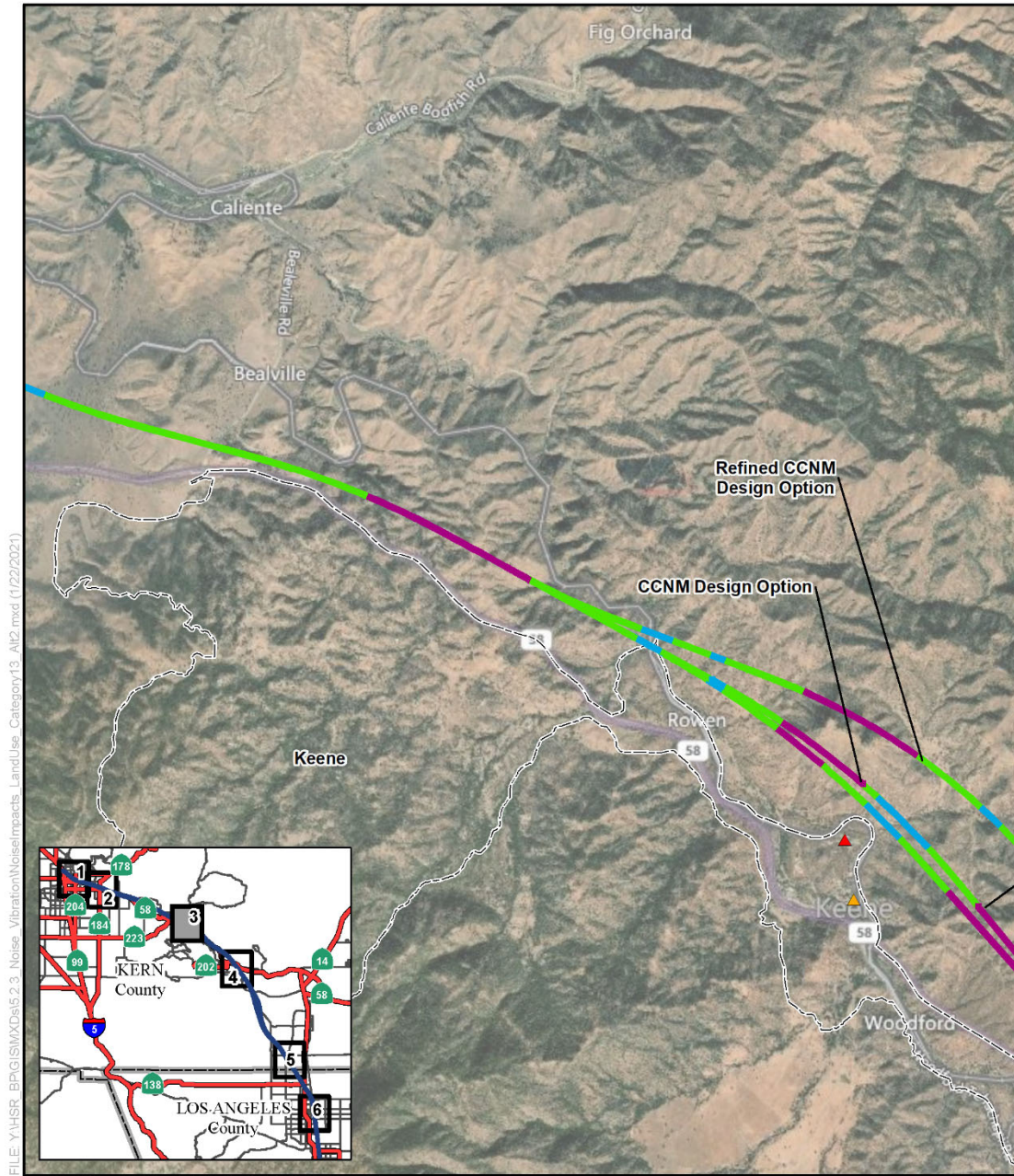


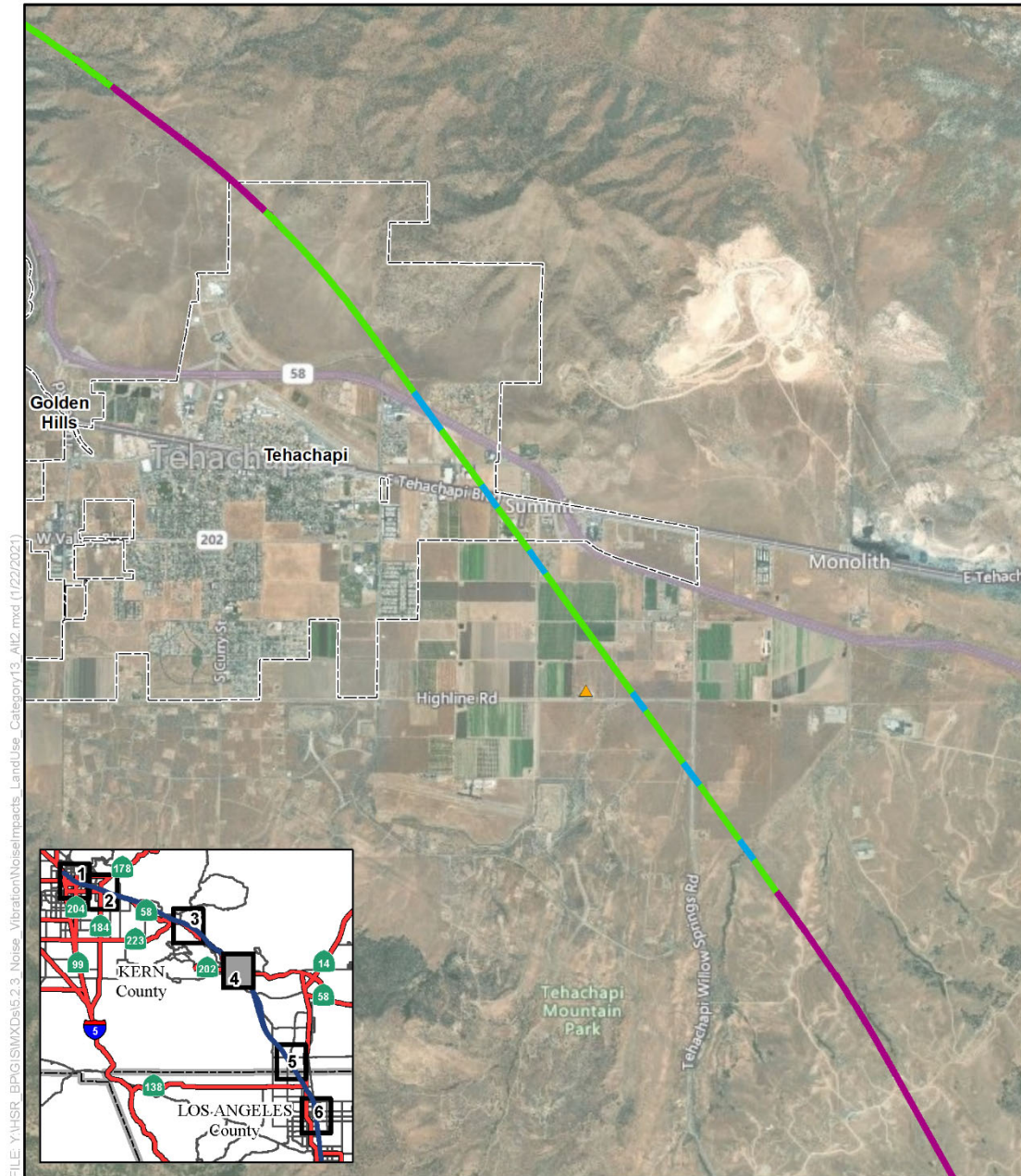
Figure 3.4-A-7 Land Use Categories 1 and 3 Noise Impacts—Alternative 2
(Sheet 2 of 6)



SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)



Figure 3.4-A-7 Land Use Categories 1 and 3 Noise Impacts—Alternative 2
(Sheet 3 of 6)



FILE: Y:\HSR_BPG\SIMXD\B2.3_Noise_Vibration\NoiseImpacts_LandUse_Category13_AIP2.mxd (1/22/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

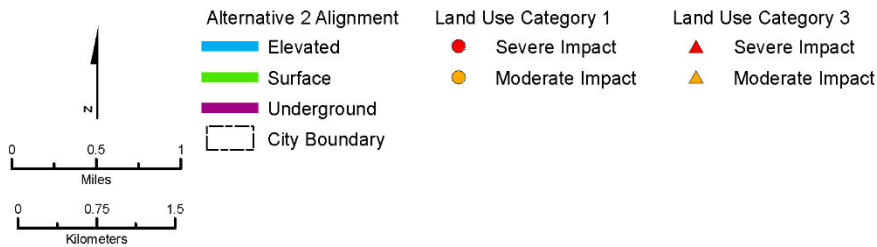
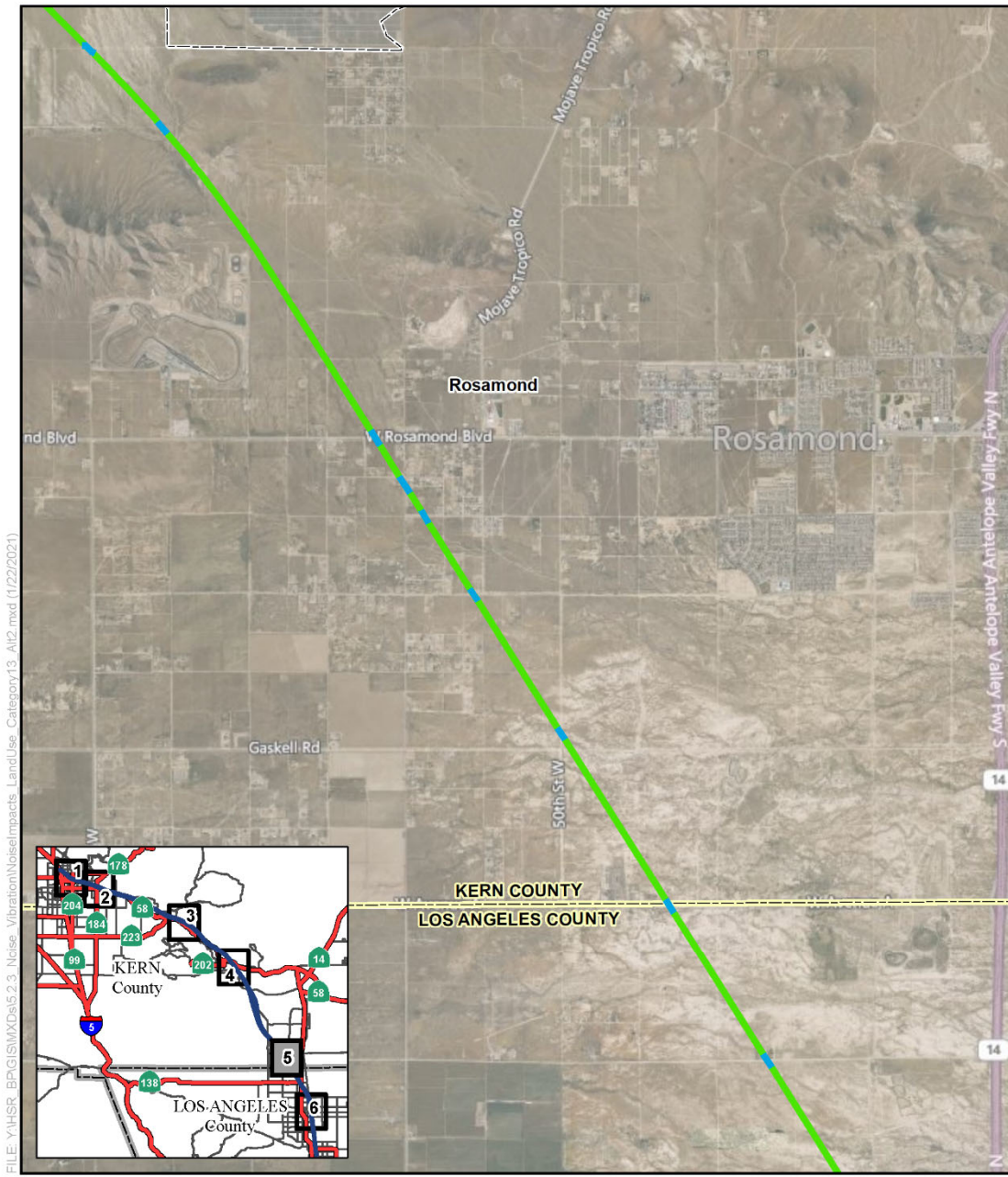


Figure 3.4-A-7 Land Use Categories 1 and 3 Noise Impacts—Alternative 2
(Sheet 4 of 6)



FILE: Y:\HSR_BPG\GIS\MapDocs\2.3_Noise_Vibrations\NoiseImpacts_LandUse_Category13_Alt2.mxd (1/22/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

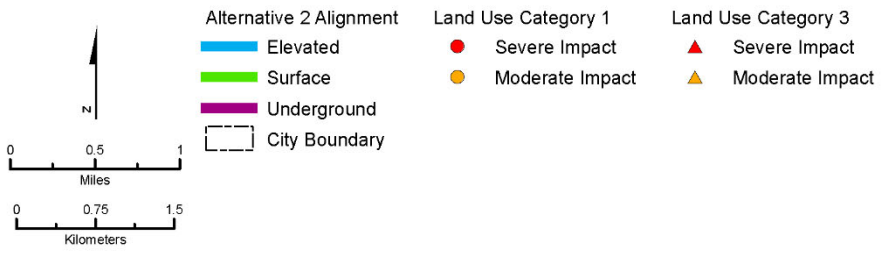
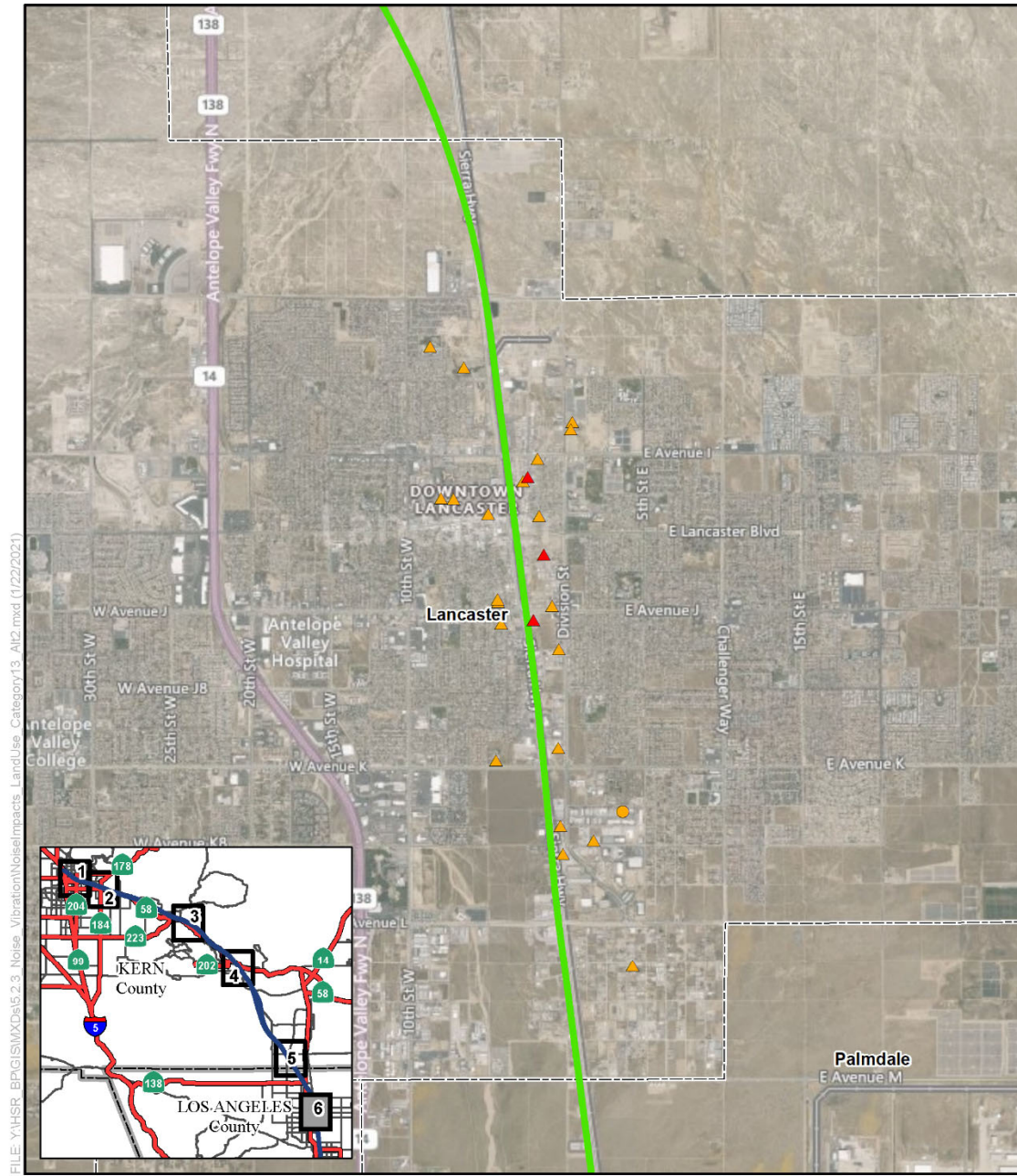


Figure 3.4-A-7 Land Use Categories 1 and 3 Noise Impacts—Alternative 2
(Sheet 5 of 6)



FILE: Y:\HSR_BPG\GIS\MapDocs\2.3_Noise_Vibrations\NoiseImpacts_LandUse_Category13_Alt2.mxd (1/22/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

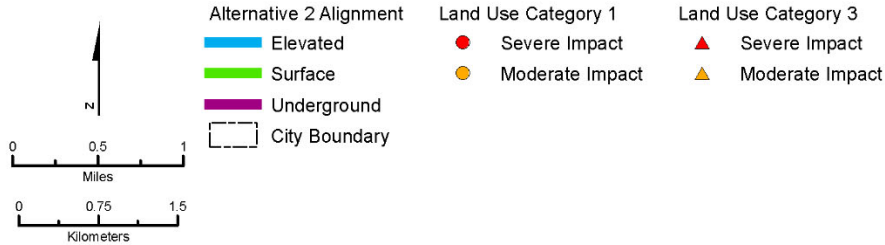


Figure 3.4-A-7 Land Use Categories 1 and 3 Noise Impacts—Alternative 2
(Sheet 6 of 6)

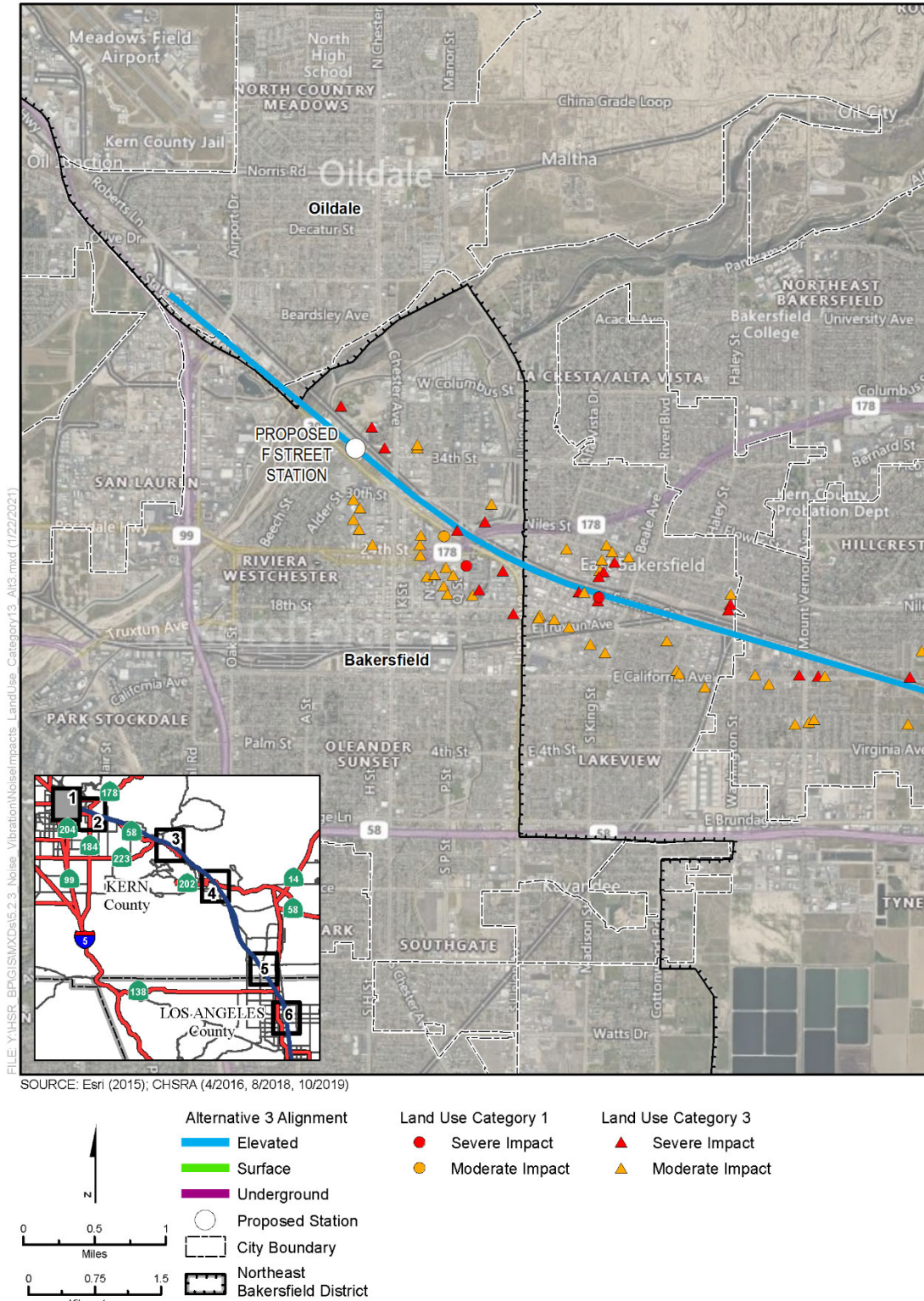
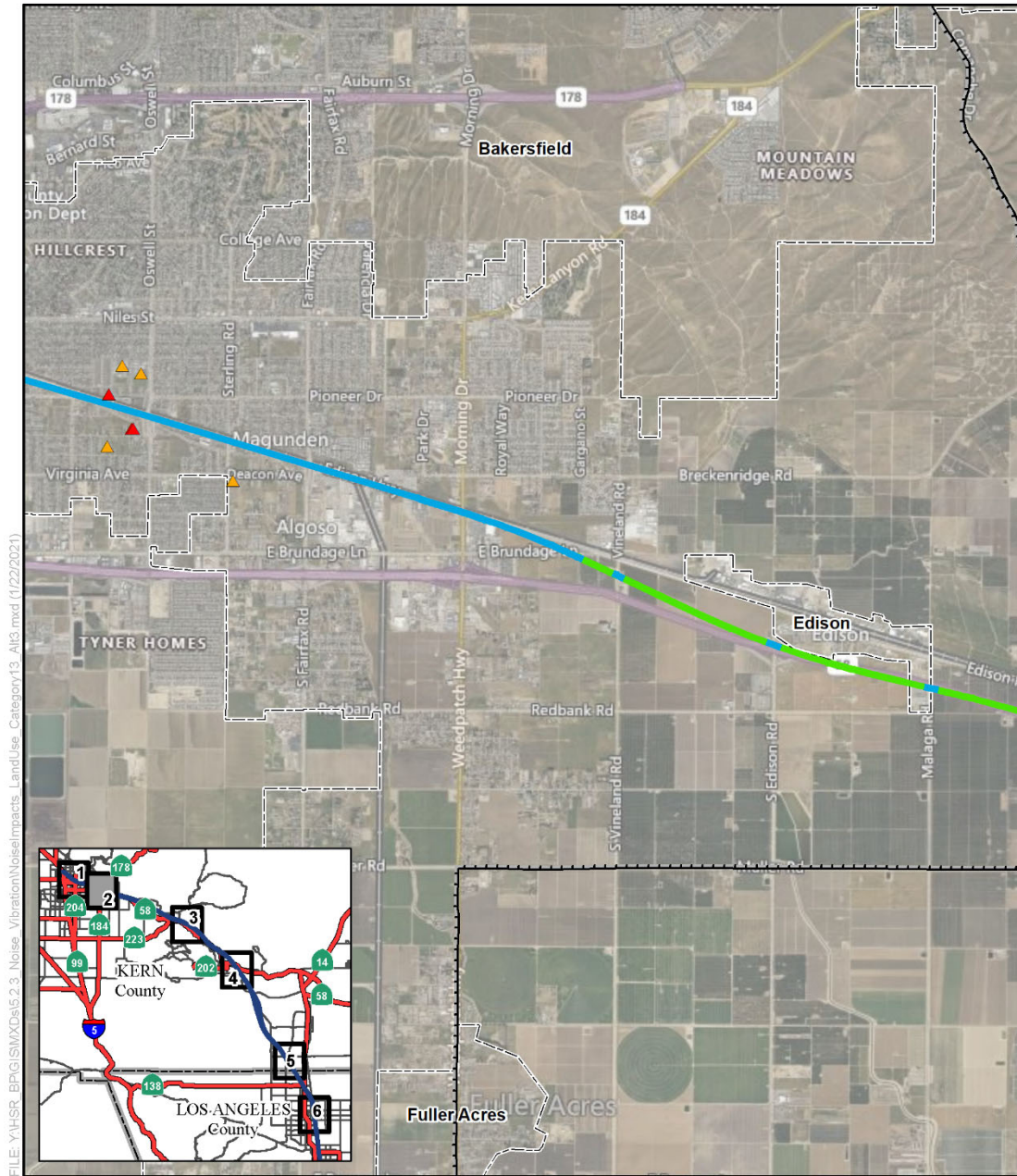


Figure 3.4-A-8 Land Use Categories 1 and 3 Noise Impacts—Alternative 3
(Sheet 1 of 6)



FILE: Y:\HSR_BPG\ISM\XDS\5.2.3 Noise_Vibration\NoiseImpacts_LandUse_Category13_Alt3.mxd (1/22/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

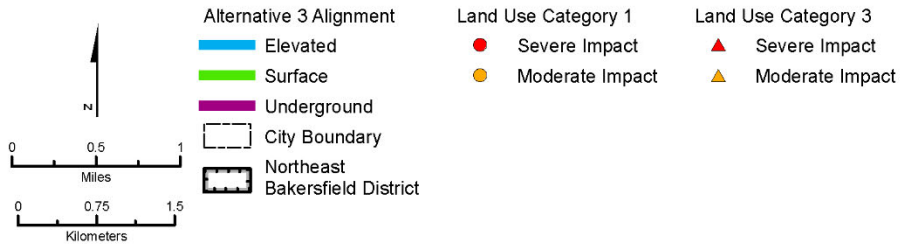
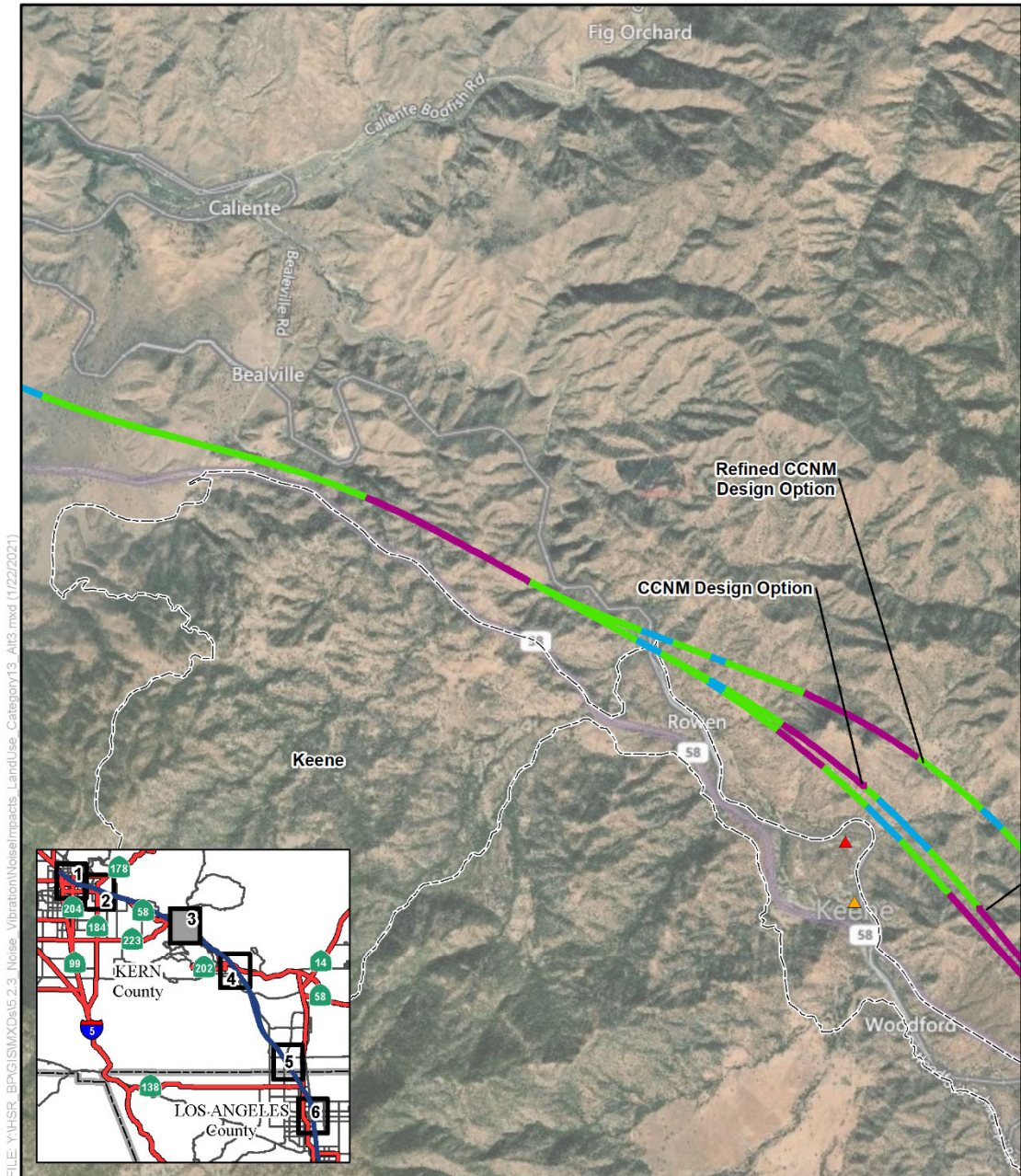


Figure 3.4-A-8 Land Use Categories 1 and 3 Noise Impacts—Alternative 3
(Sheet 2 of 6)

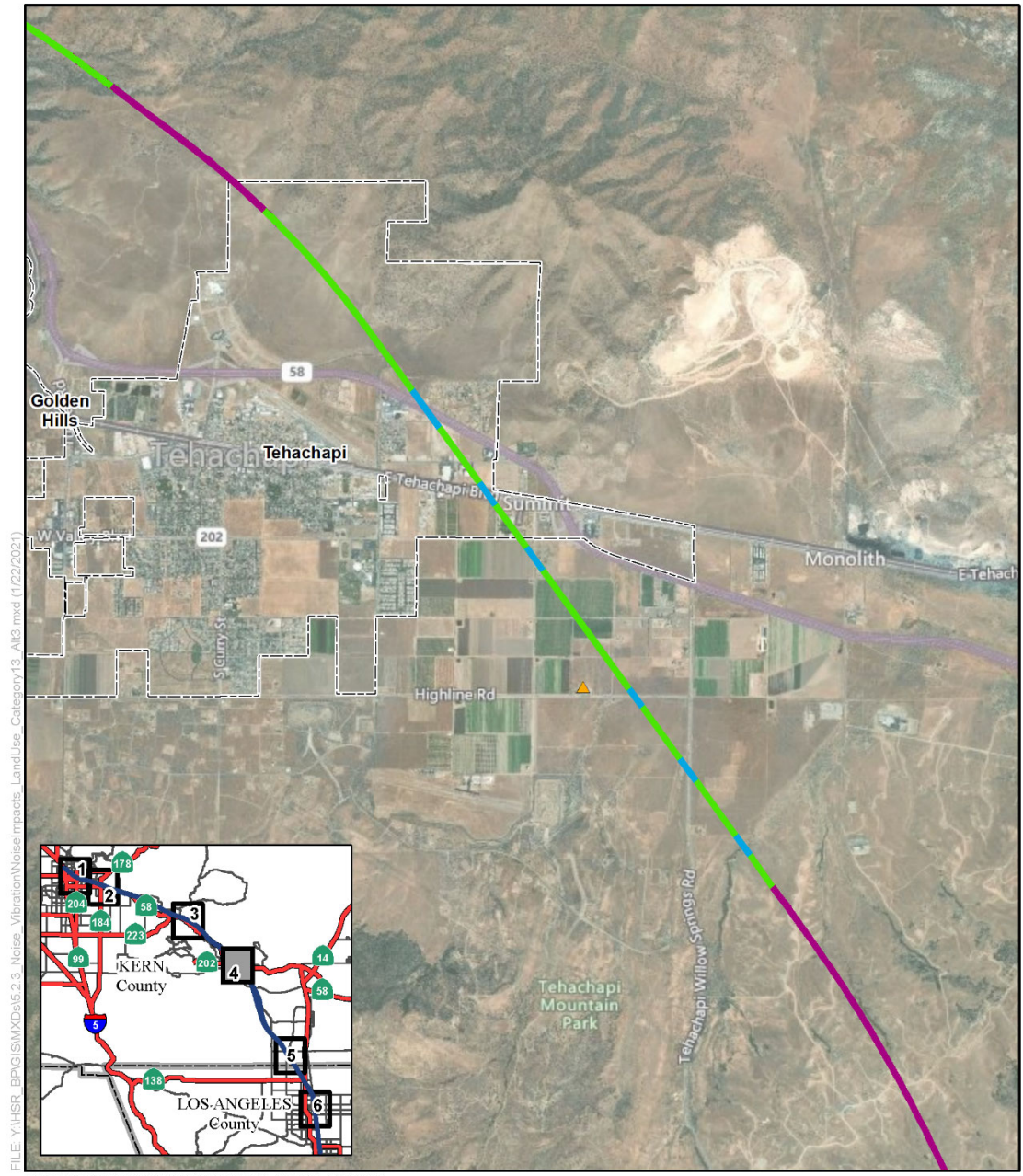


FILE: Y:\HSR_BPG\GIS\XDS\5.2.3_Noise_Vibration\NoiseImpacts_LandUse_Category13_Alt3.mxd (1/22/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)



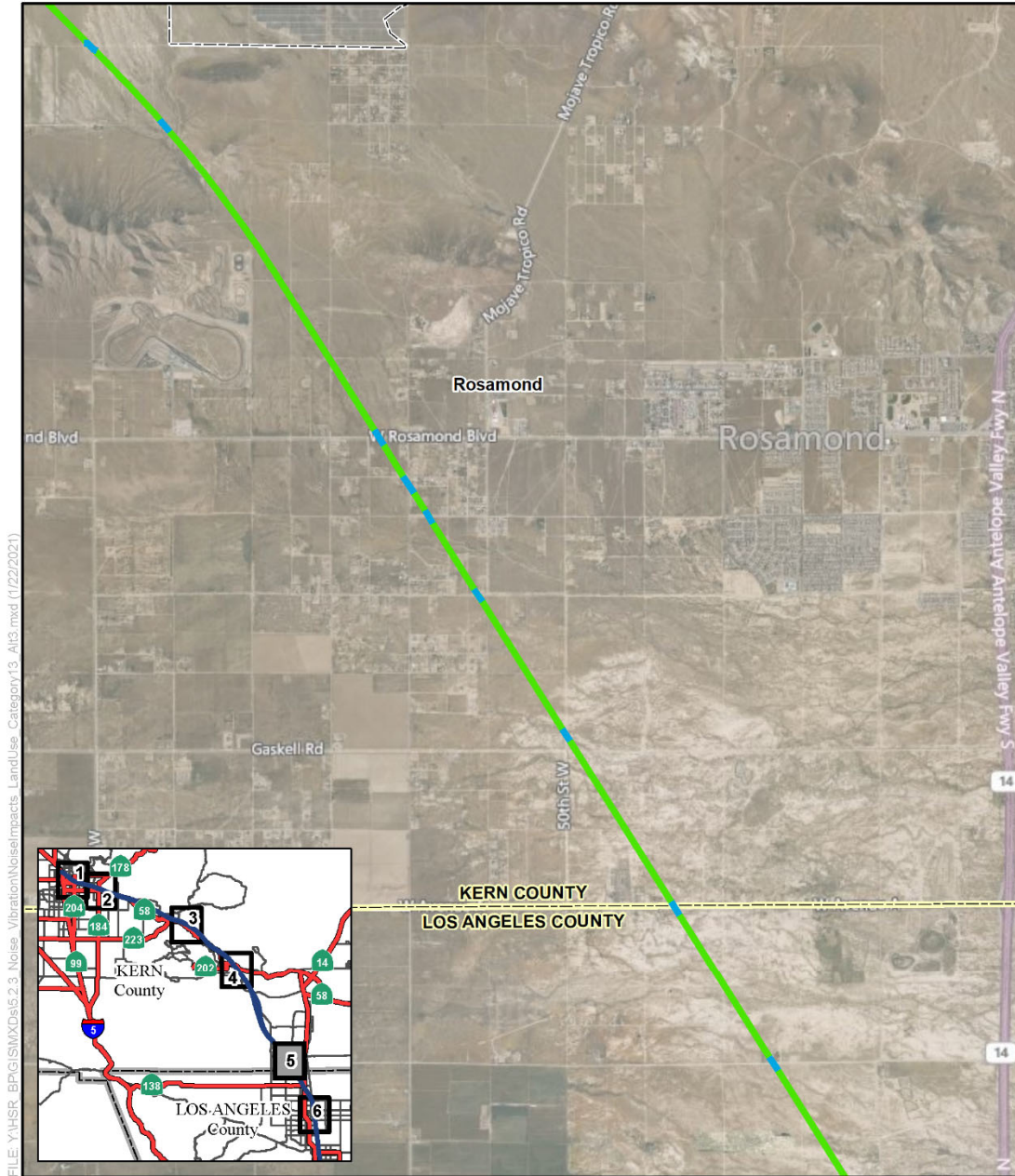
Figure 3.4-A-8 Land Use Categories 1 and 3 Noise Impacts—Alternative 3
(Sheet 3 of 6)



SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)



Figure 3.4-A-8 Land Use Categories 1 and 3 Noise Impacts—Alternative 3
(Sheet 4 of 6)



FILE: Y:\HSR_BPG\GISMX\Dist_2.3_Noise_Vibration\NoiseImpacts_LandUse_Category\3_Alt3.mxd (1/22/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

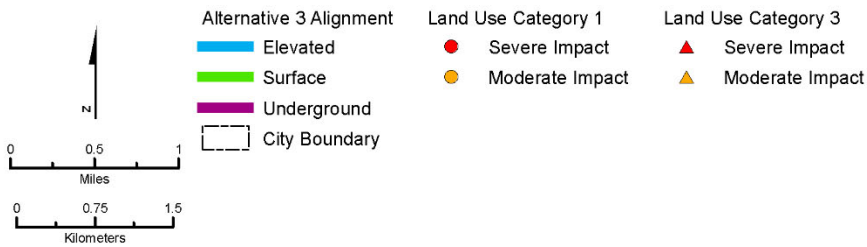
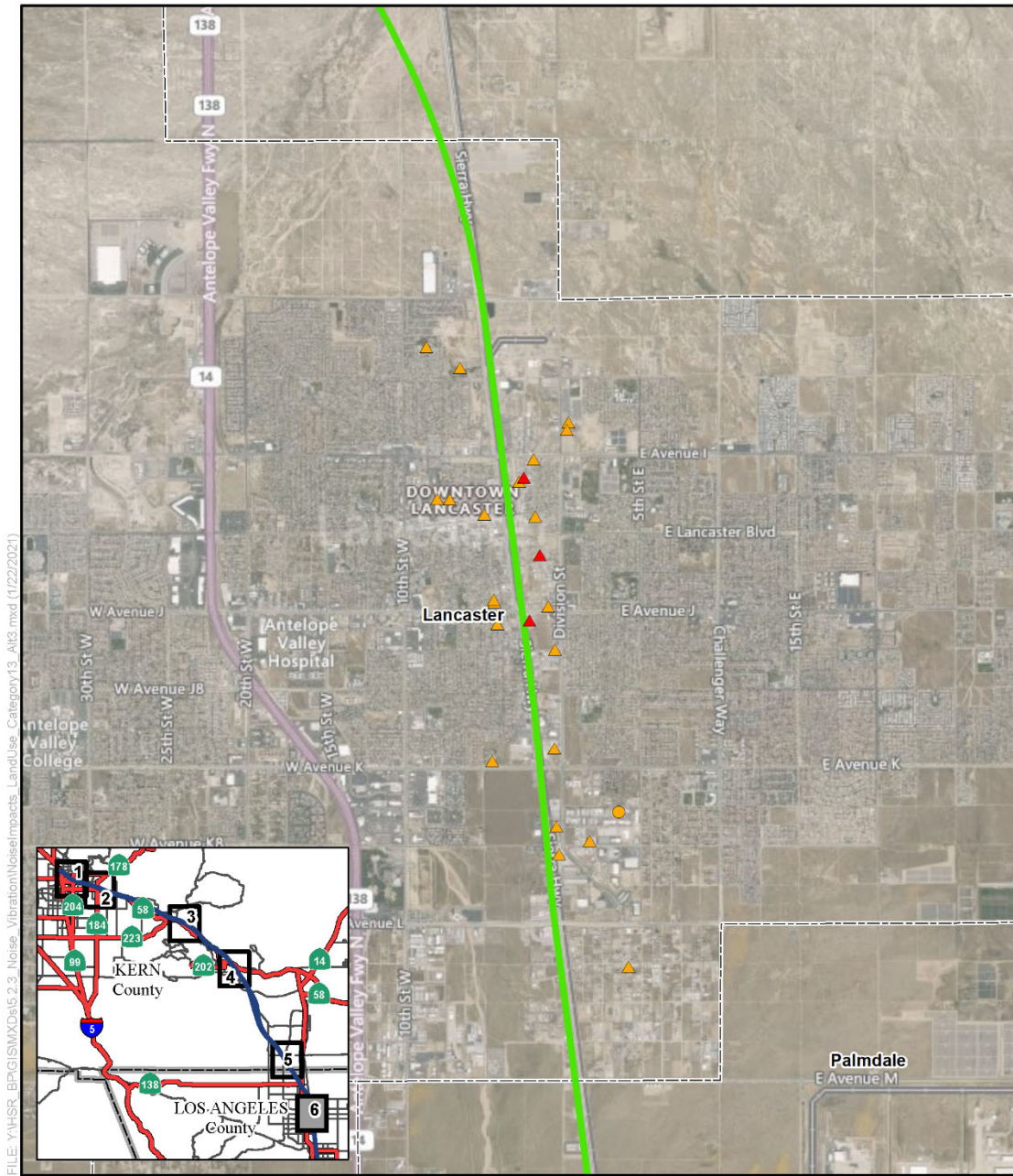


Figure 3.4-A-8 Land Use Categories 1 and 3 Noise Impacts—Alternative 3
(Sheet 5 of 6)

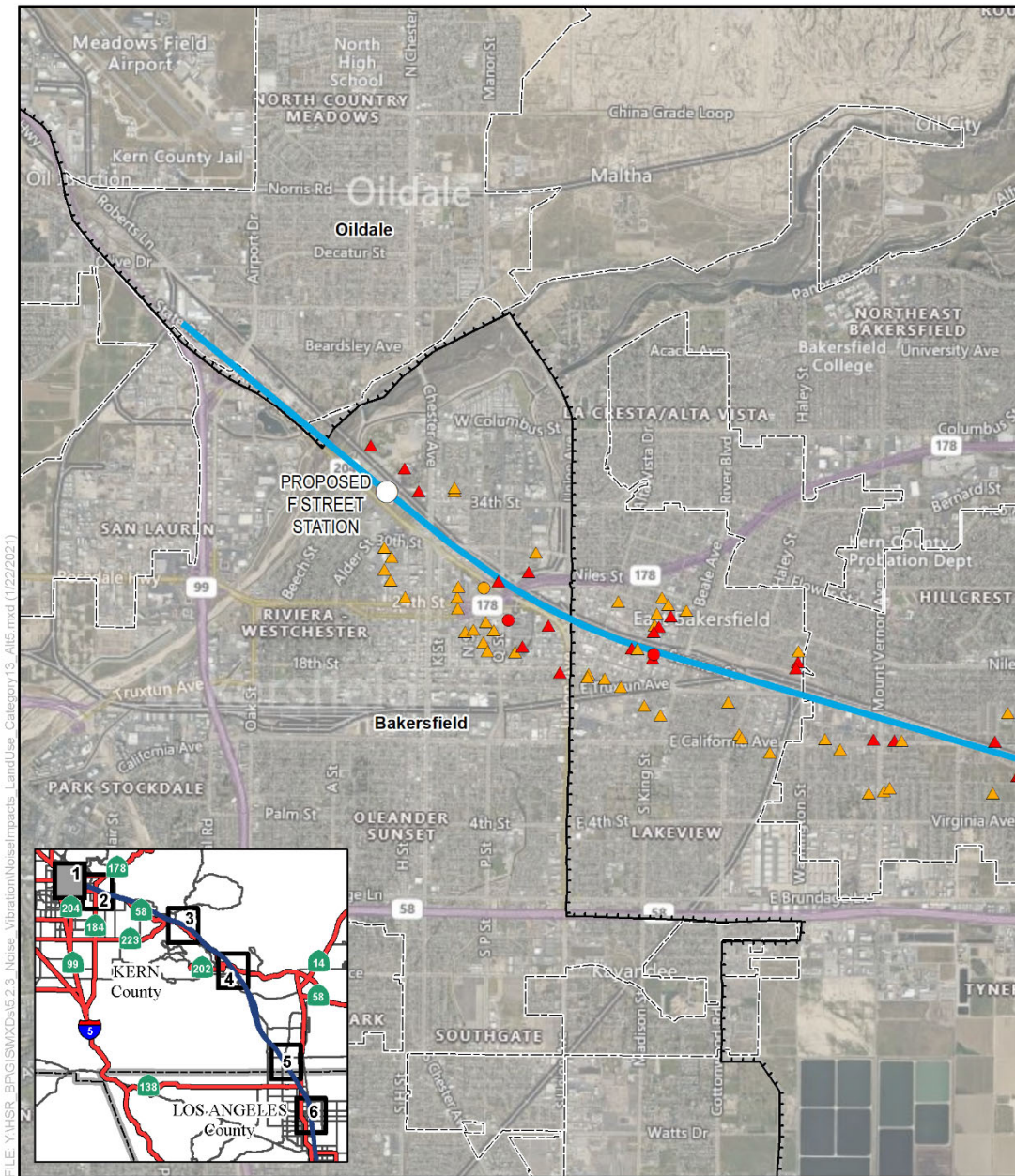


FILE: Y:\HSR_BPG\GIS\MapData\5.2.3_Noise_Vibration\NoiseImpacts_LandUse_Category13_Alt3.mxd (1/22/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)



Figure 3.4-A-8 Land Use Categories 1 and 3 Noise Impacts—Alternative 3
(Sheet 6 of 6)



SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

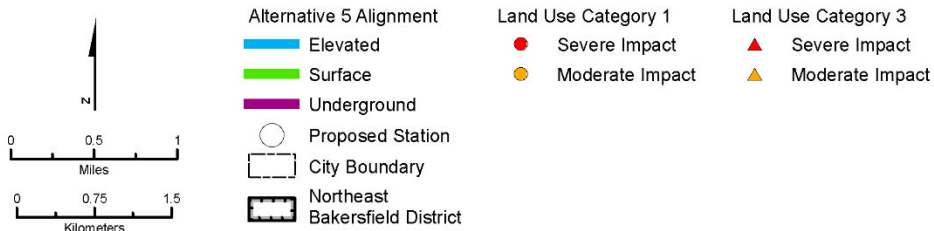
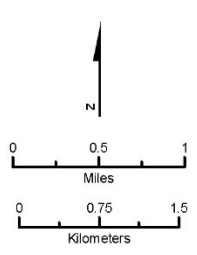
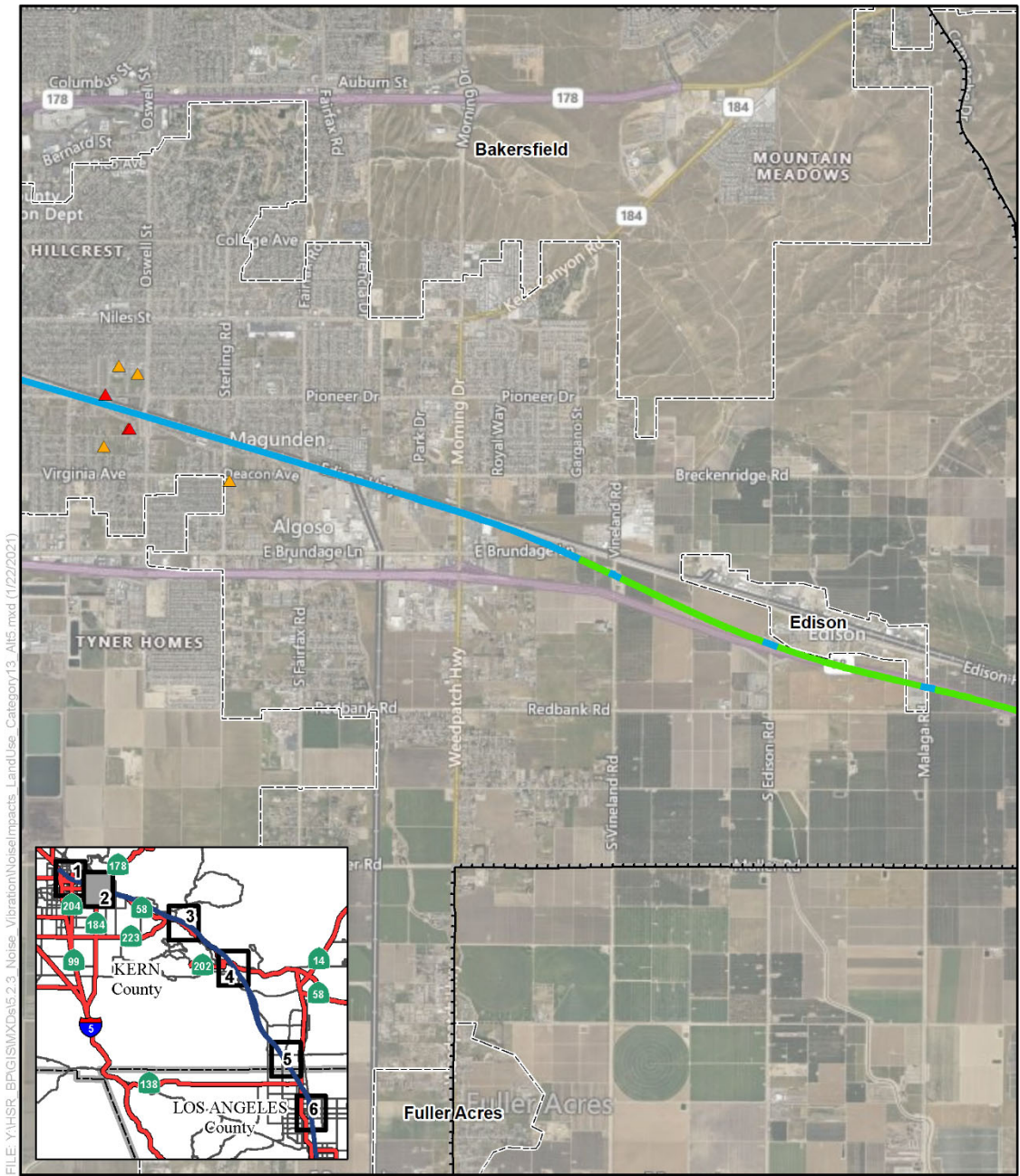


Figure 3.4-A-9 Land Use Categories 1 and 3 Noise Impacts—Alternative 5
(Sheet 1 of 6)



- | | | |
|---|---|---|
| Alternative 5 Alignment | Land Use Category 1 | Land Use Category 3 |
| — Elevated | ● Severe Impact | ▲ Severe Impact |
| — Surface | ● Moderate Impact | ▲ Moderate Impact |
| — Underground | | |
| City Boundary | | |
| Northeast Bakersfield District | | |

Figure 3.4-A-9 Land Use Categories 1 and 3 Noise Impacts—Alternative 5
(Sheet 2 of 6)

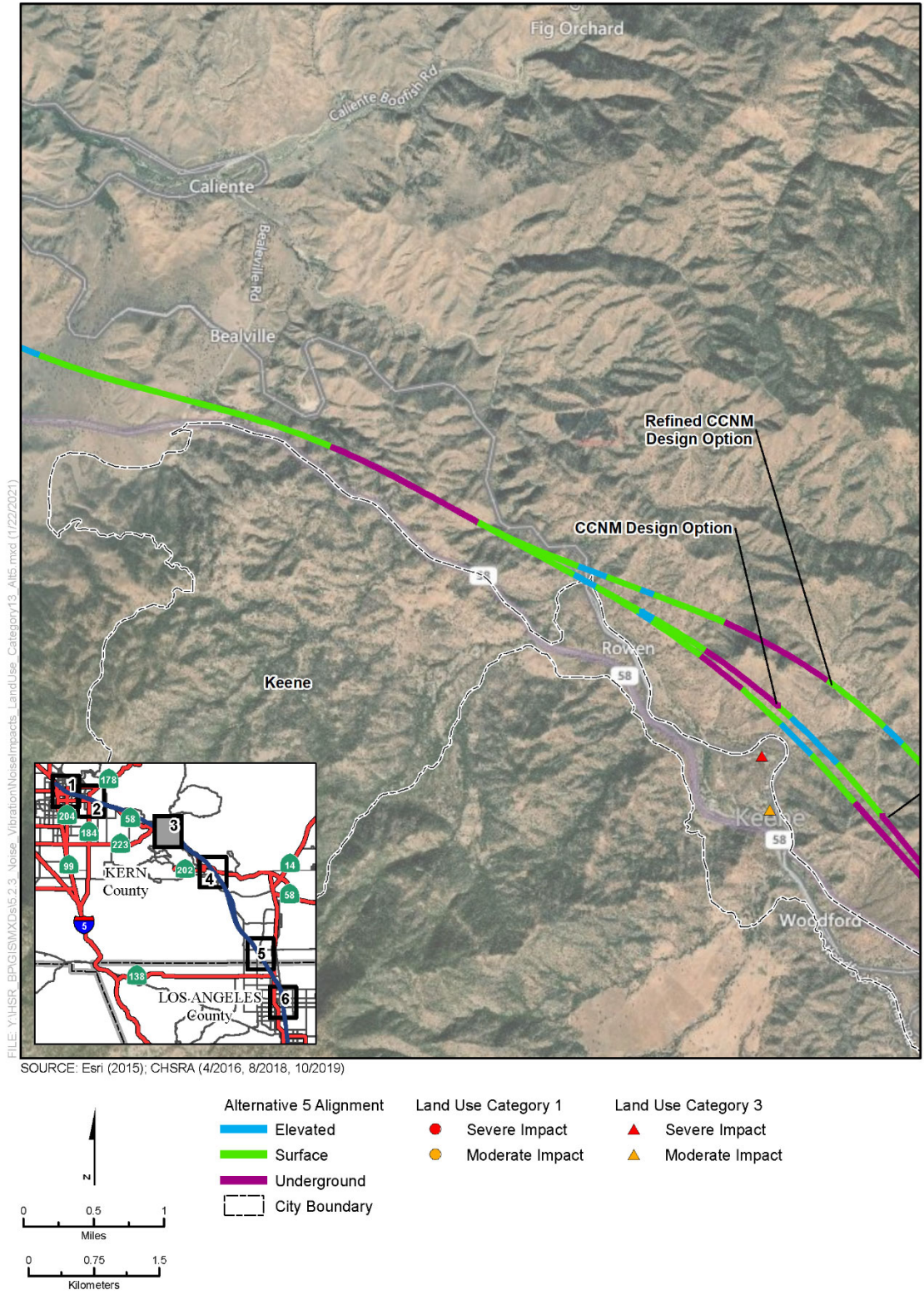
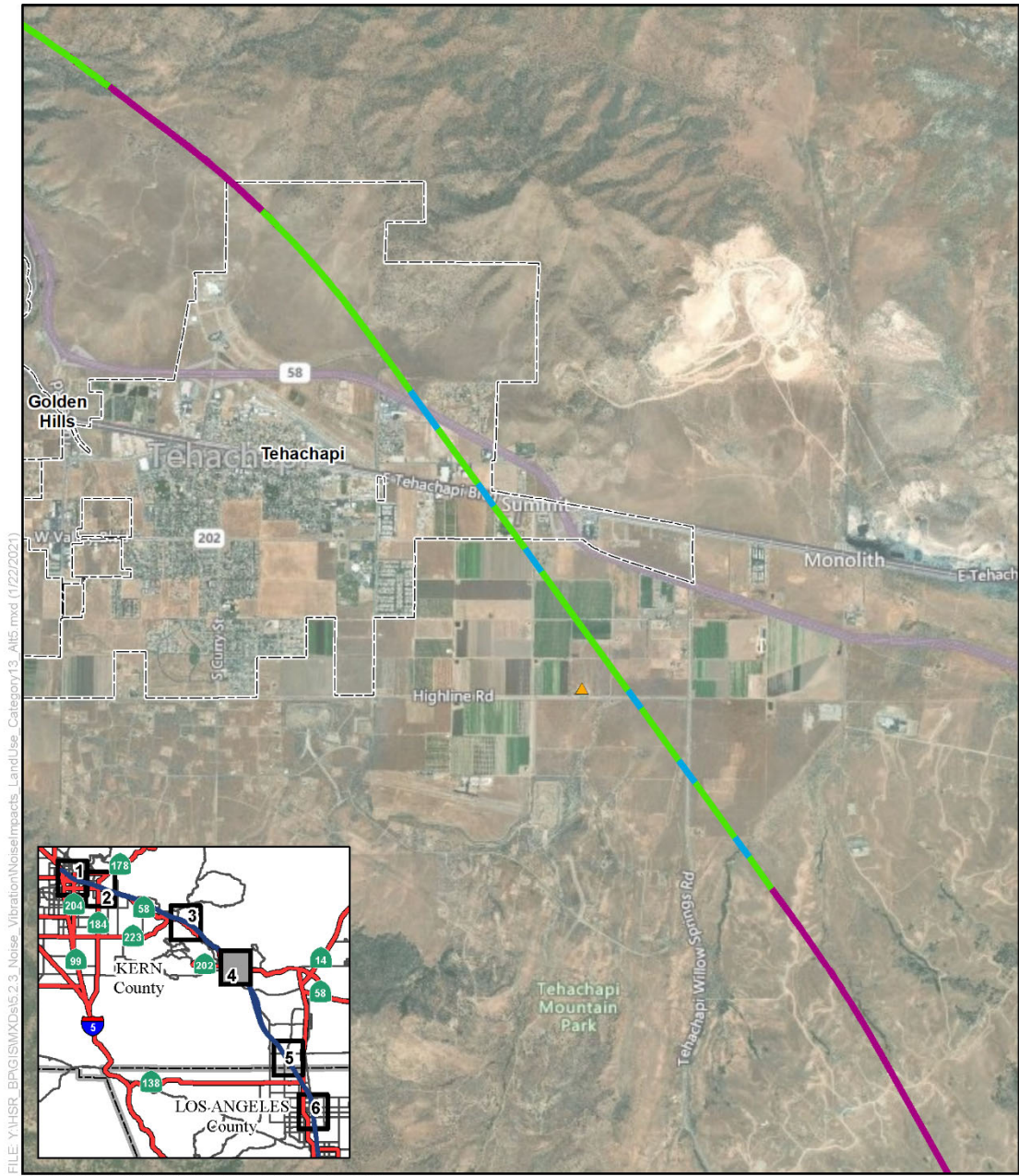
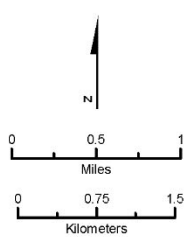


Figure 3.4-A-9 Land Use Categories 1 and 3 Noise Impacts—Alternative 5
(Sheet 3 of 6)



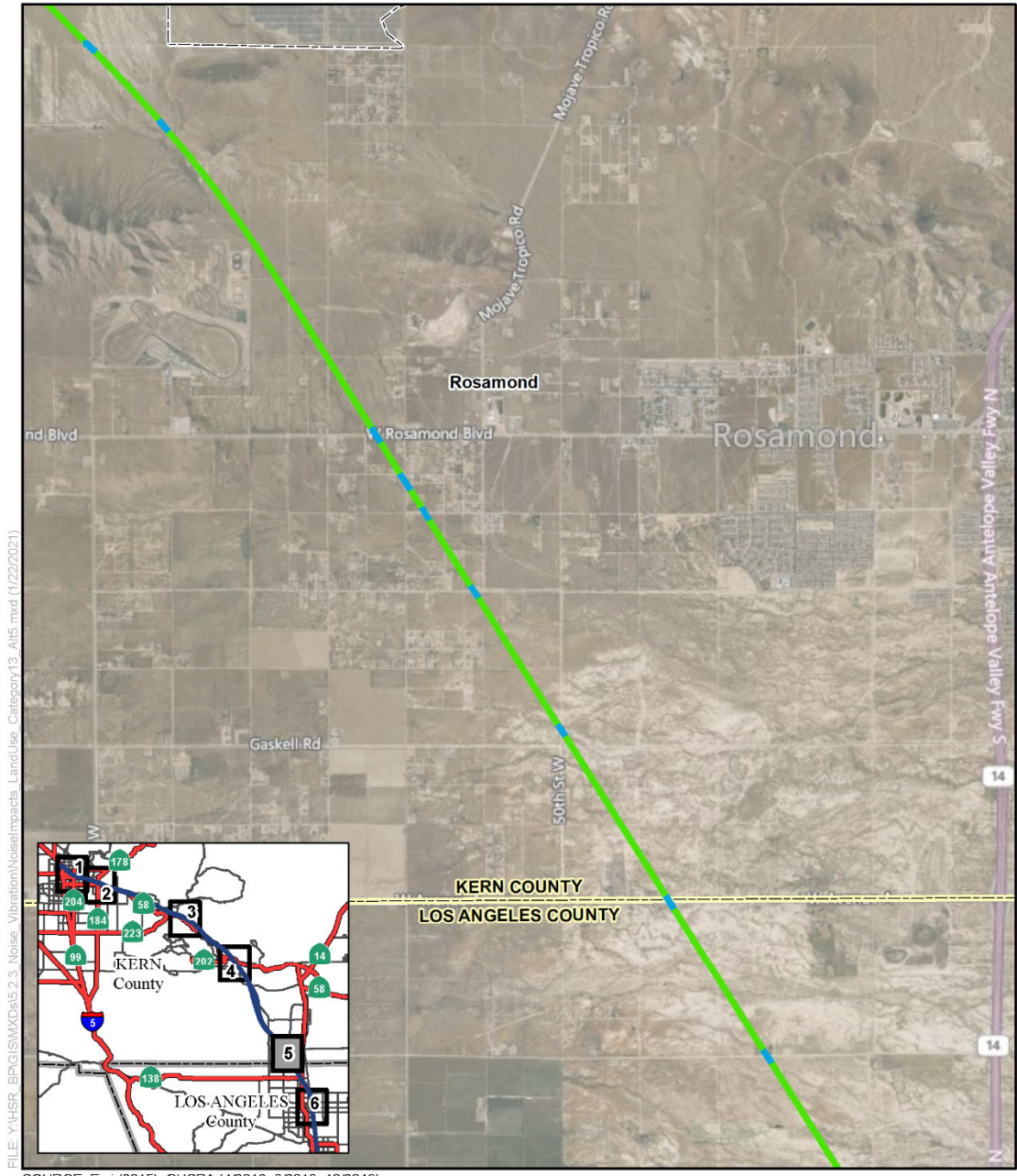
FILE: Y:\HSR_BP\GIS\MXDs\5.2.3_Noise_Vibration\NoiseImpacts_LandUse_Category13_Alt5.mxd (1/22/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)



- | | | |
|--|---|---|
| <p>Alternative 5 Alignment</p> <ul style="list-style-type: none"> — Elevated — Surface — Underground City Boundary | <p>Land Use Category 1</p> <ul style="list-style-type: none"> ● Severe Impact ● Moderate Impact | <p>Land Use Category 3</p> <ul style="list-style-type: none"> ▲ Severe Impact ▲ Moderate Impact |
|--|---|---|

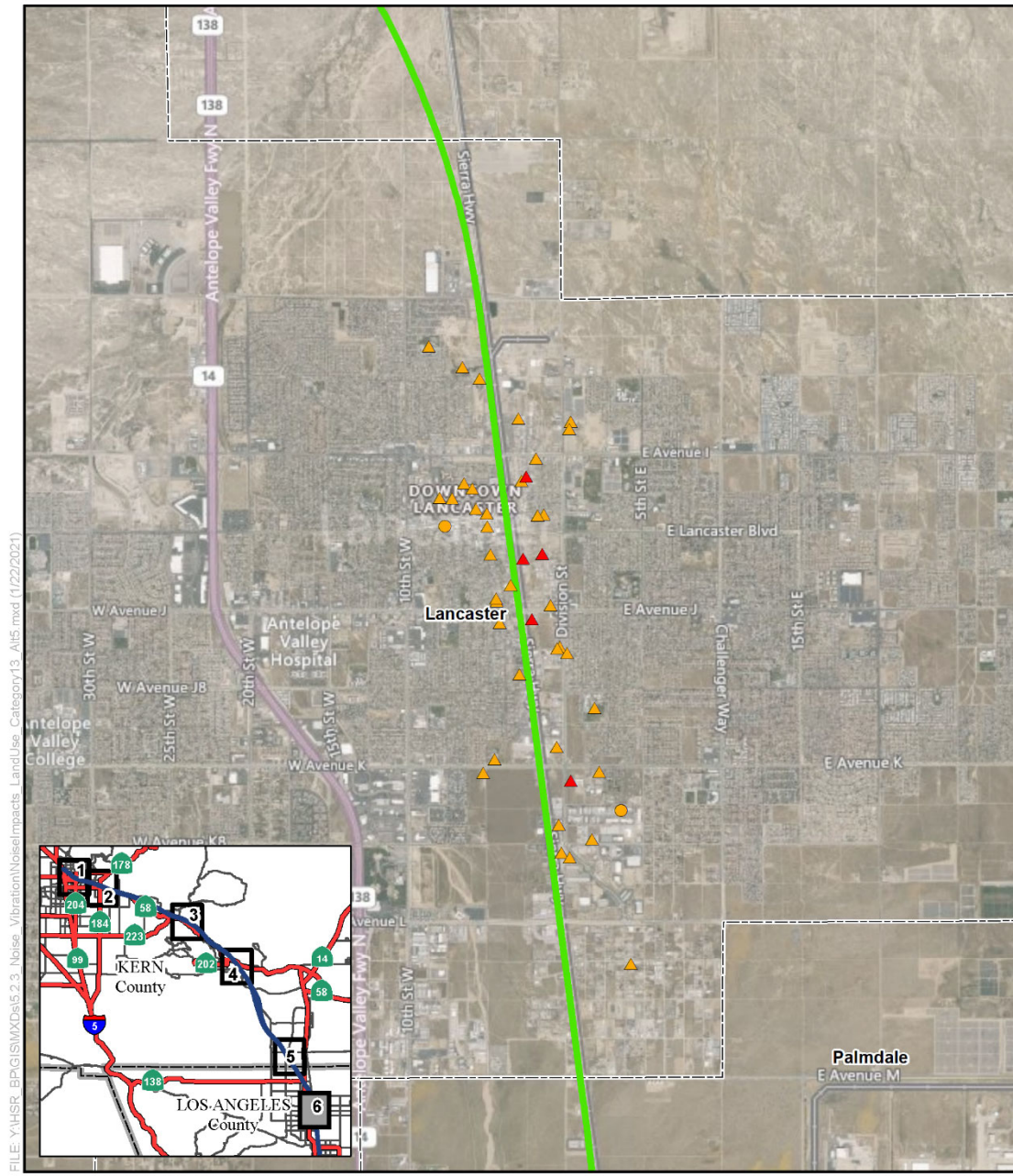
Figure 3.4-A-9 Land Use Categories 1 and 3 Noise Impacts—Alternative 5
(Sheet 4 of 6)



SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)



Figure 3.4-A-9 Land Use Categories 1 and 3 Noise Impacts—Alternative 5
(Sheet 5 of 6)



FILE: Y:\HSR_BDC\GIS\MapDocs\2.0_Noise_Vibration\NoiseImpacts_LandUse_Category13_Alt5.mxd (1/22/2021)

SOURCE: Esri (2015), CHSRA (4/2016, 8/2018, 10/2019)

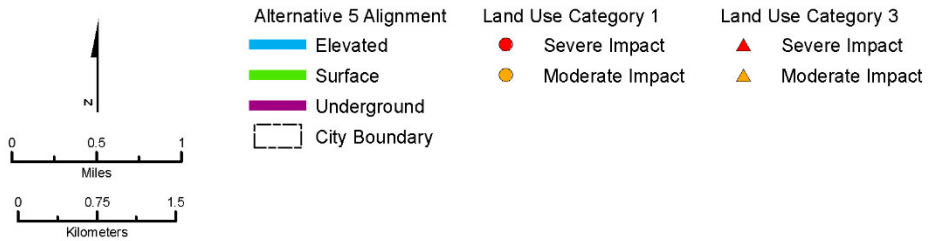
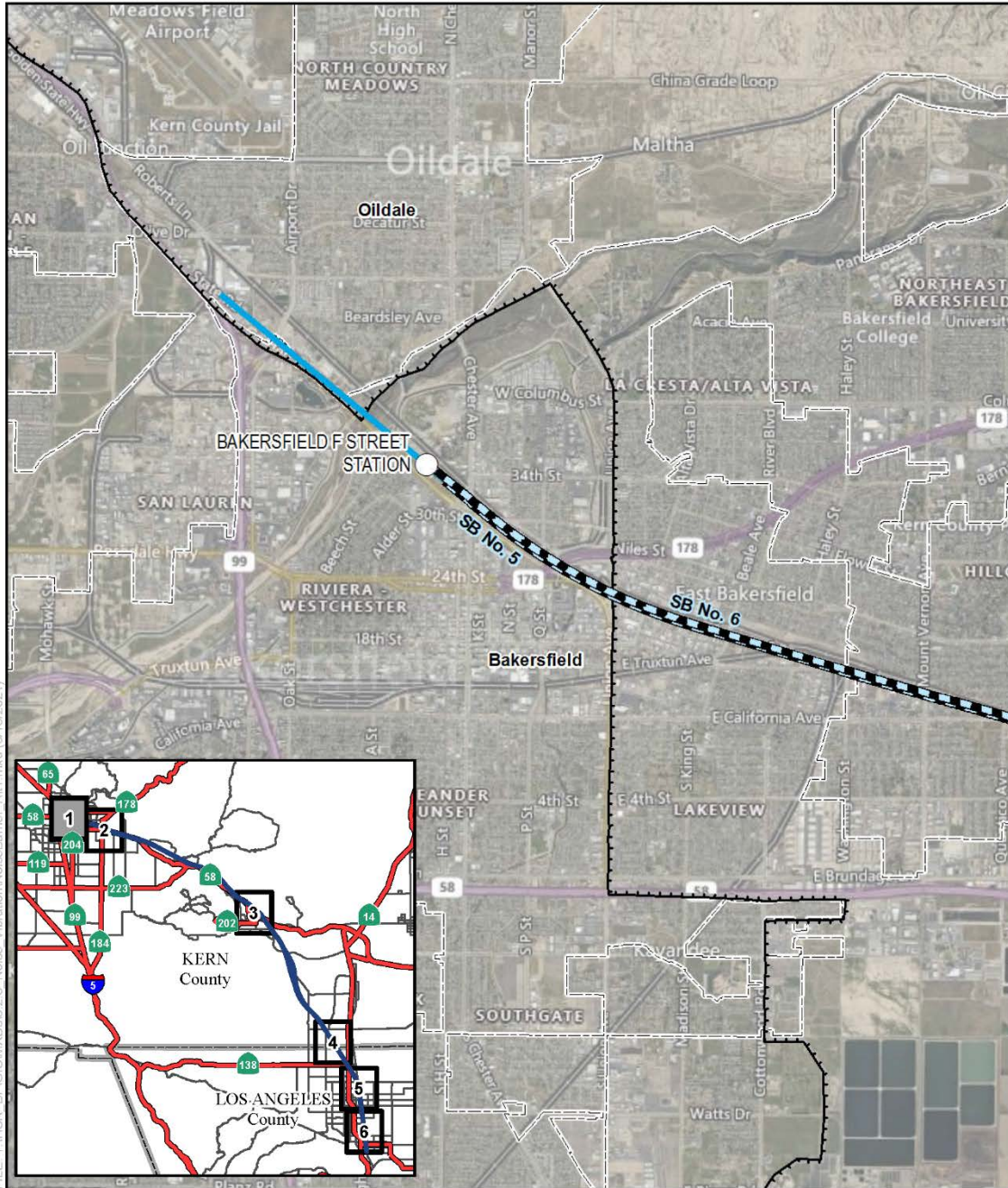
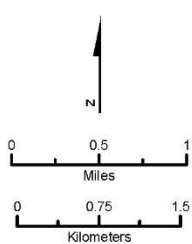


Figure 3.4-A-9 Land Use Categories 1 and 3 Noise Impacts—Alternative 5
(Sheet 6 of 6)



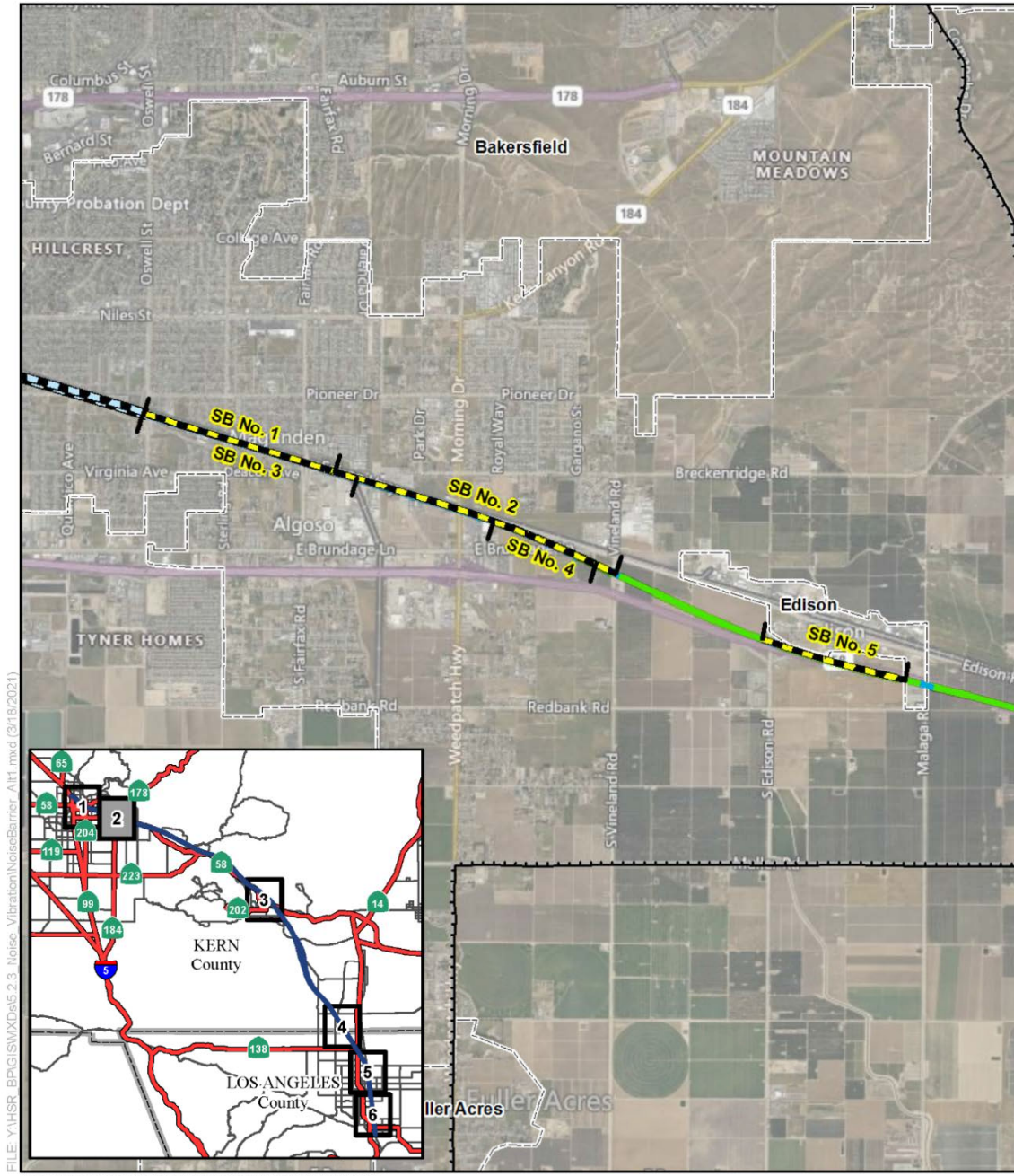
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SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)



- | | |
|---|--|
| Alternative 1 Alignment | City Boundary |
| — Elevated | Northeast Bakersfield District |
| — Surface | Sound Barrier for Bakersfield to Palmdale (Alignment Between Station Areas) Alignment |
| — Underground | Sound Barrier for Bakersfield Station F Street (Locally Generated Alternative) Alignment |
| Proposed Station | |

Figure 3.4-A-10 Noise Barrier—Alternative 1
(Sheet 1 of 6)



FILE: Y:\HSR_BPG\ISMXDs\S.2.3_Noise_Vibration\NoiseBarrier_Alt1.mxd (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

Figure 3.4-A-10 Noise Barrier—Alternative 1
(Sheet 2 of 6)



FILE: Y:\HSR_BPG\GIS\MapXDs\5.2.3_Noise_Vibration\NoiseBarrier_Alt1.mxd (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

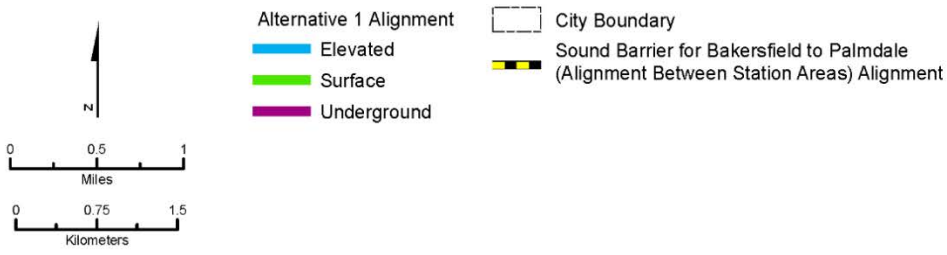
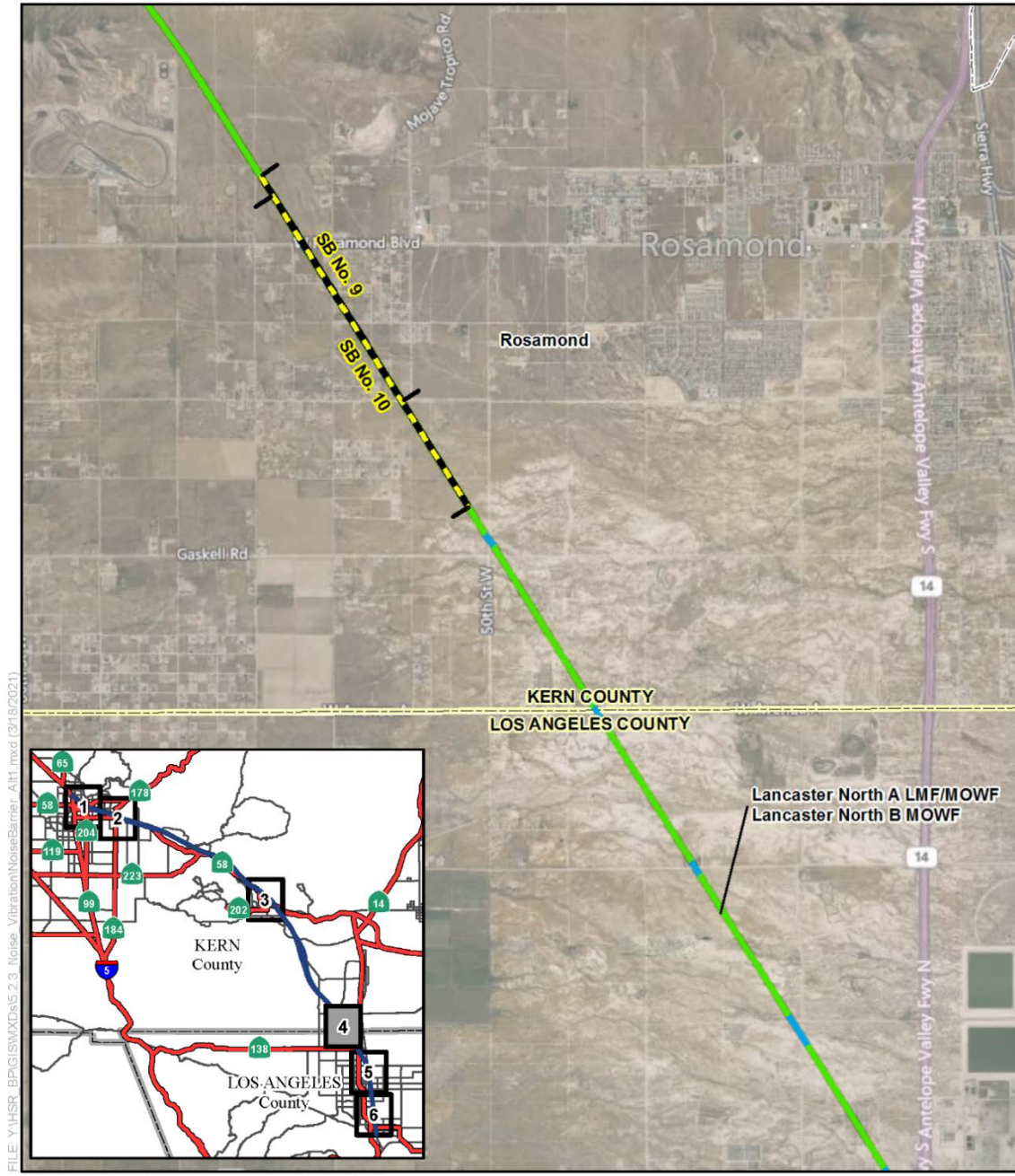
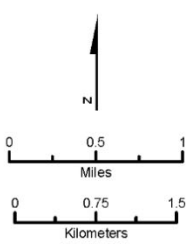


Figure 3.4-A-10 Noise Barrier—Alternative 1
(Sheet 3 of 6)



FILE: Y:\HSR_BPG\GIS\MapDocs\5.2.3_Noise_Vibration\NoiseBarrier_Alt1.mxd (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)



- Alternative 1 Alignment
 - Elevated
 - Surface
 - Underground
- City Boundary
- Sound Barrier for Bakersfield to Palmdale (Alignment Between Station Areas) Alignment

Figure 3.4-A-10 Noise Barrier—Alternative 1
(Sheet 4 of 6)

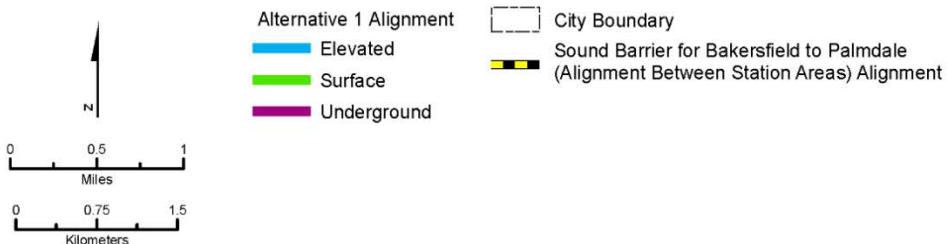
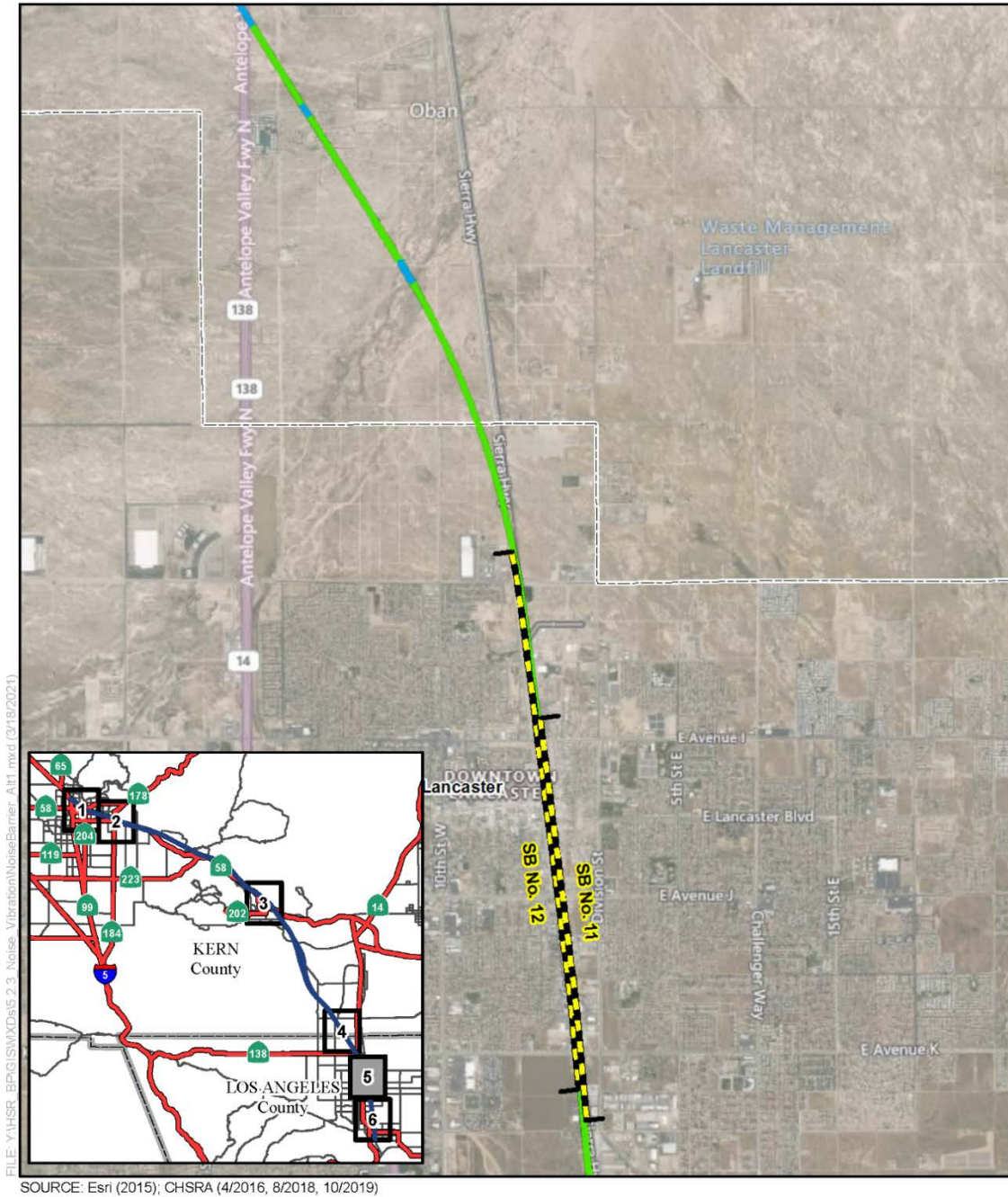
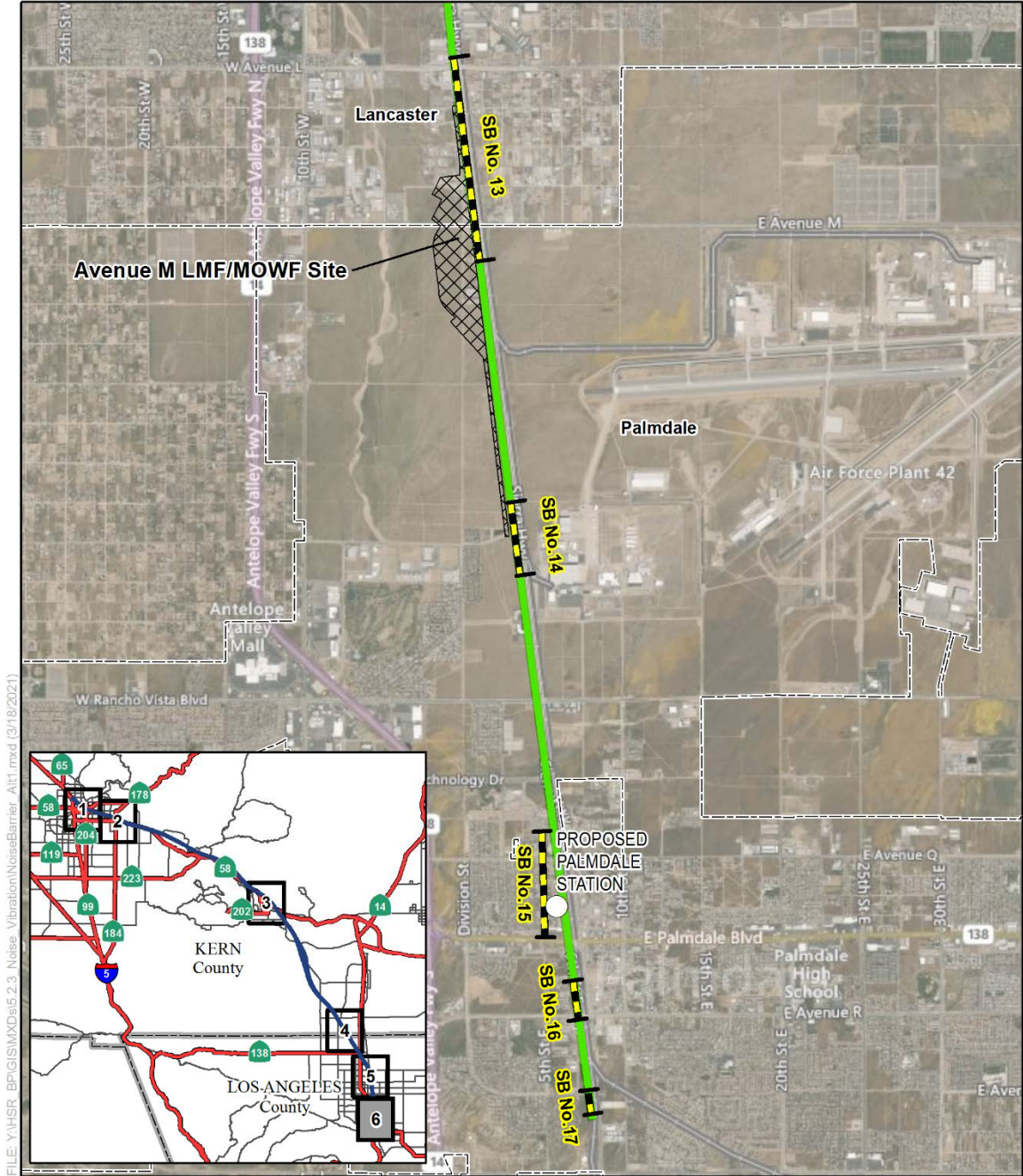


Figure 3.4-A-10 Noise Barrier—Alternative 1
(Sheet 5 of 6)



FILE: Y:\HSR_BPG\GIS\MapDocs\5.2.3_Noise_Vibration\NoiseBarrier_Alt1.mxd (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

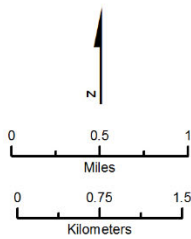
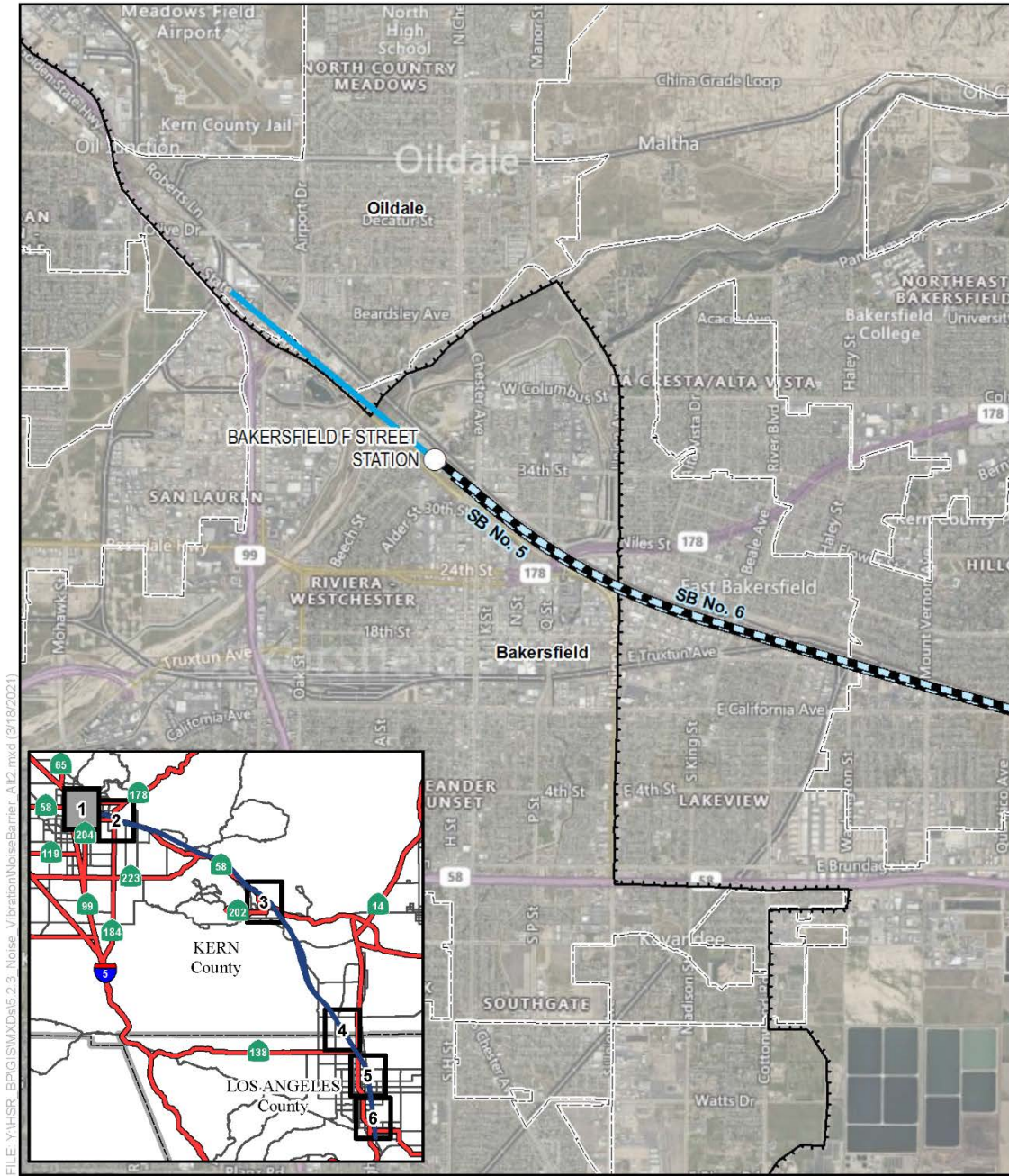


Figure 3.4-A-10 Noise Barrier—Alternative 1
(Sheet 6 of 6)



FILE: Y:\HSR_BP\GIS\MapDocs\5.2.3 Noise Vibration\NoiseBarrier_A12.mxd (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

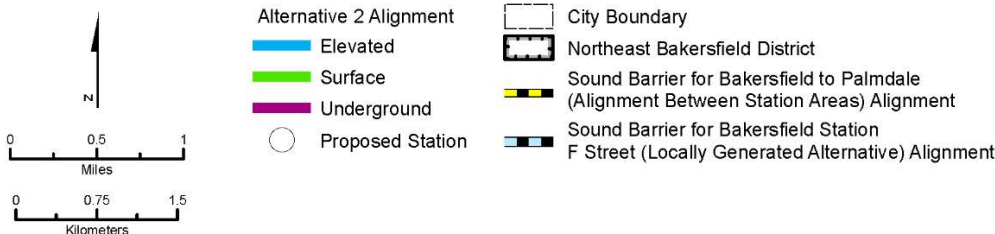
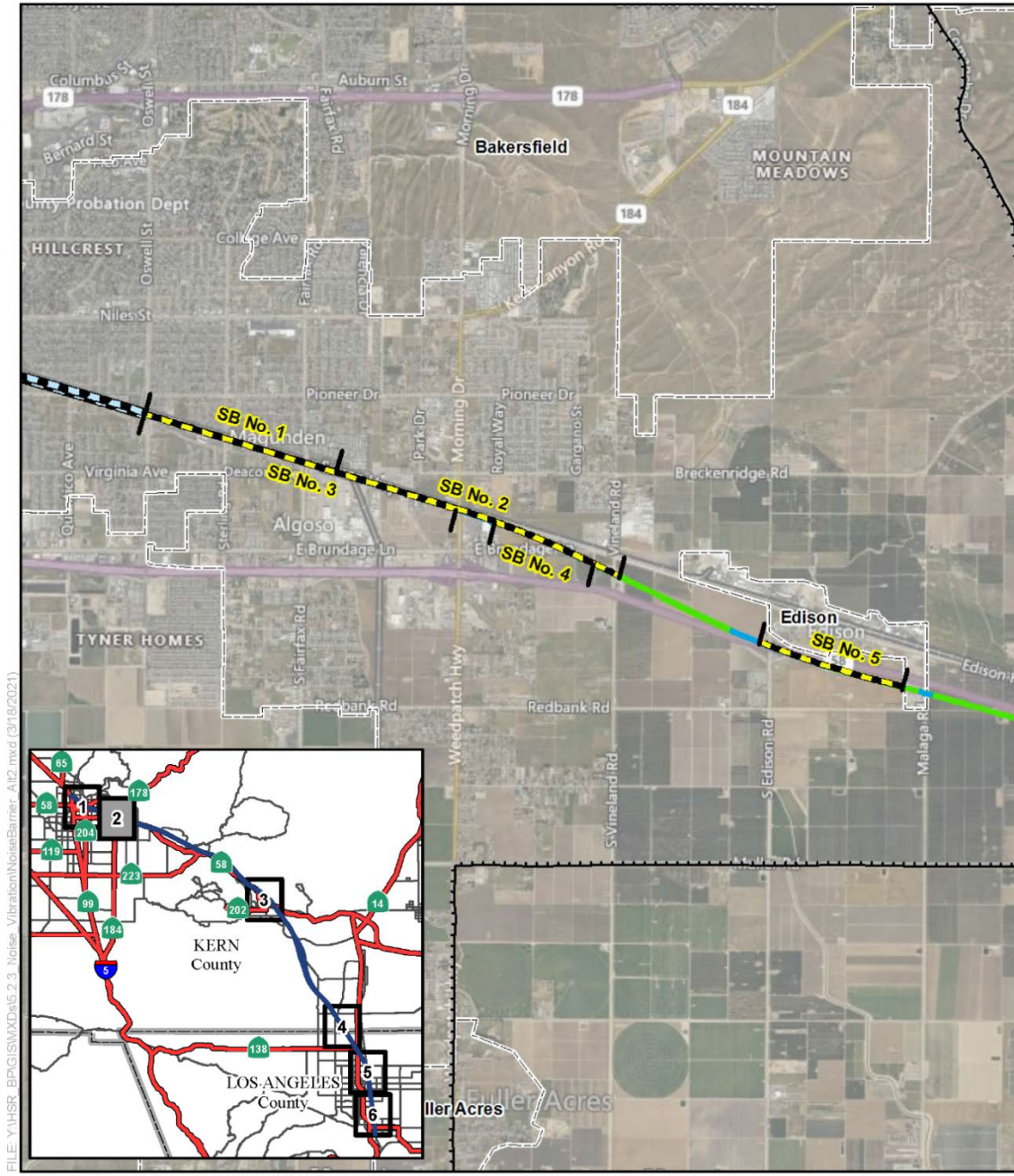


Figure 3.4.A-11 Noise Barrier—Alternative 2
(Sheet 1 of 6)



FILE: Y:\HSR_BPG\GIS\MapDocs\5.2.3_Noise_Vibration\NoiseBarrier_A12.mxd (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

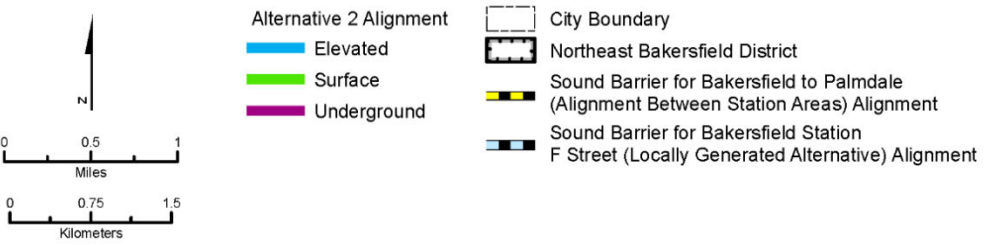
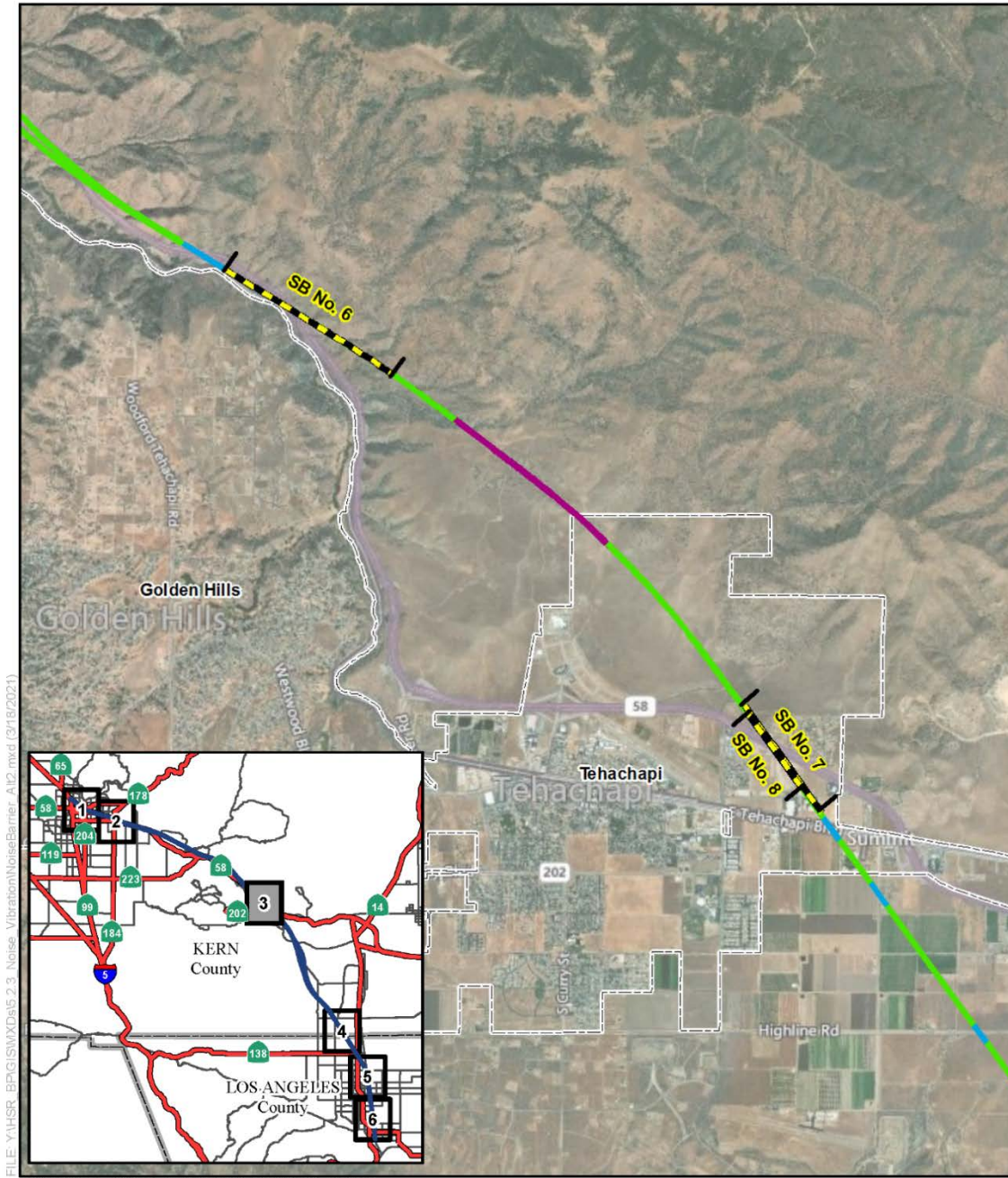


Figure 3.4-A-11 Noise Barrier—Alternative 2
(Sheet 2 of 6)



FILE: Y:\HSR_BPG\GISMXD\5.2.3_Noise_Vibration\NoiseBarrier_A12.mxd (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

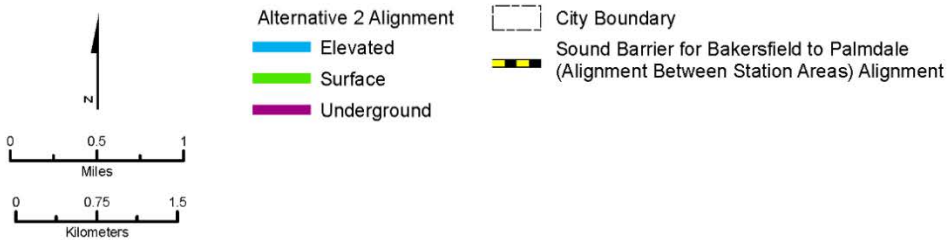
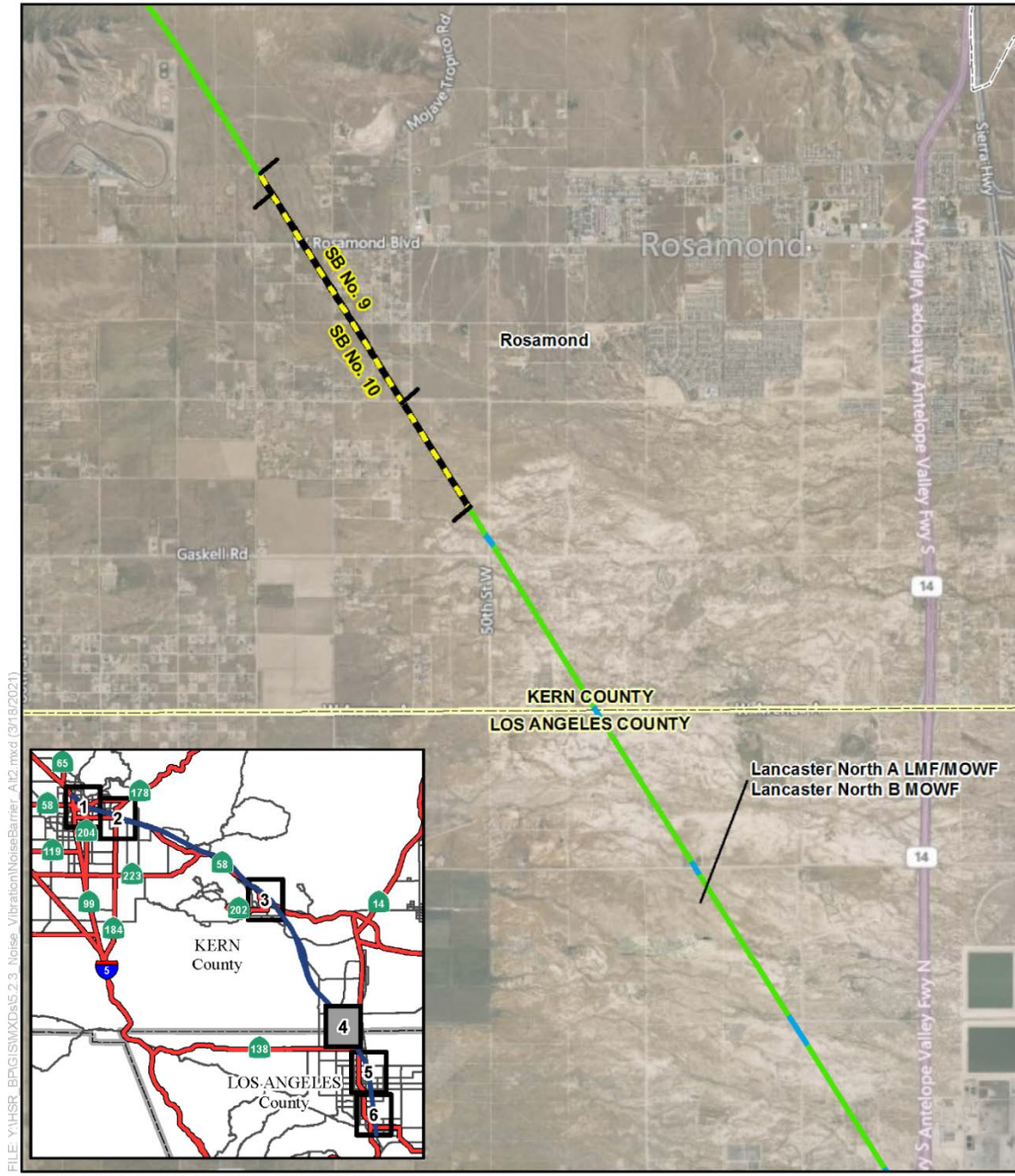


Figure 3.4-A-11 Noise Barrier—Alternative 2
 (Sheet 3 of 6)



FILE: Y:\HSR_BPG\GIS\MapDocs\5.2.3_Noise_Vibration\NoiseBarrier_A12.mxd (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

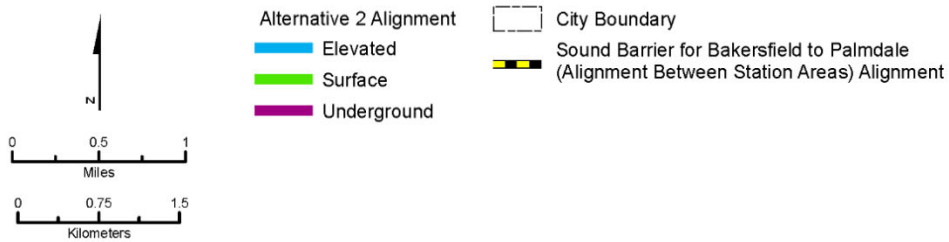
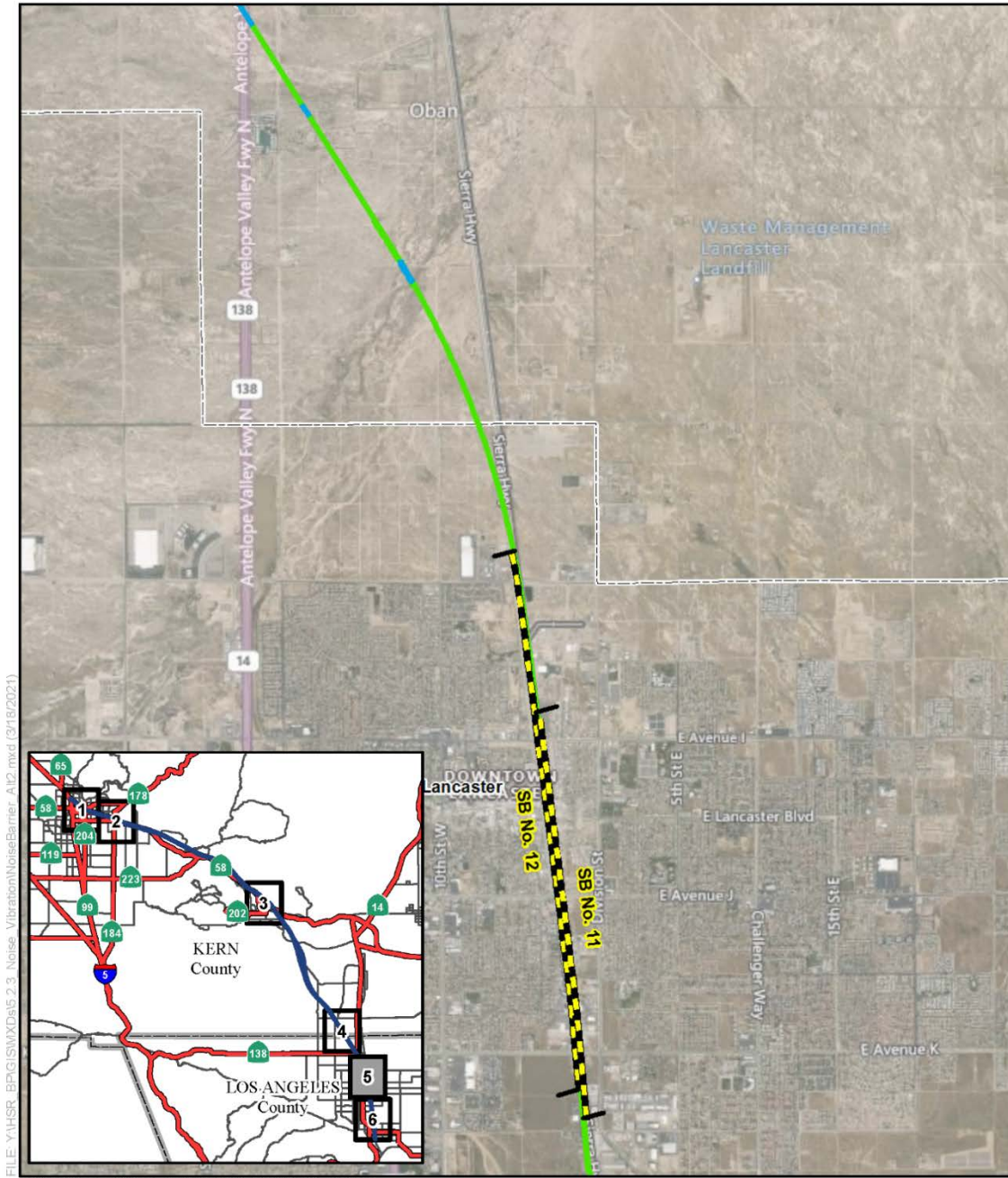


Figure 3.4-A-11 Noise Barrier—Alternative 2
(Sheet 4 of 6)



FILE: Y:\HSR_BPG\ISMX\Ds15.2.3_Noise_Vibration\NoiseBarrier_A12.mxd (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

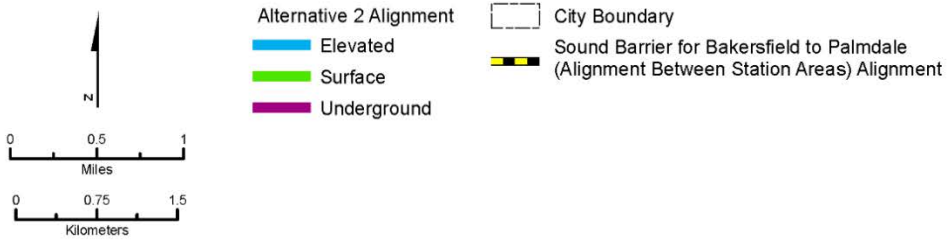
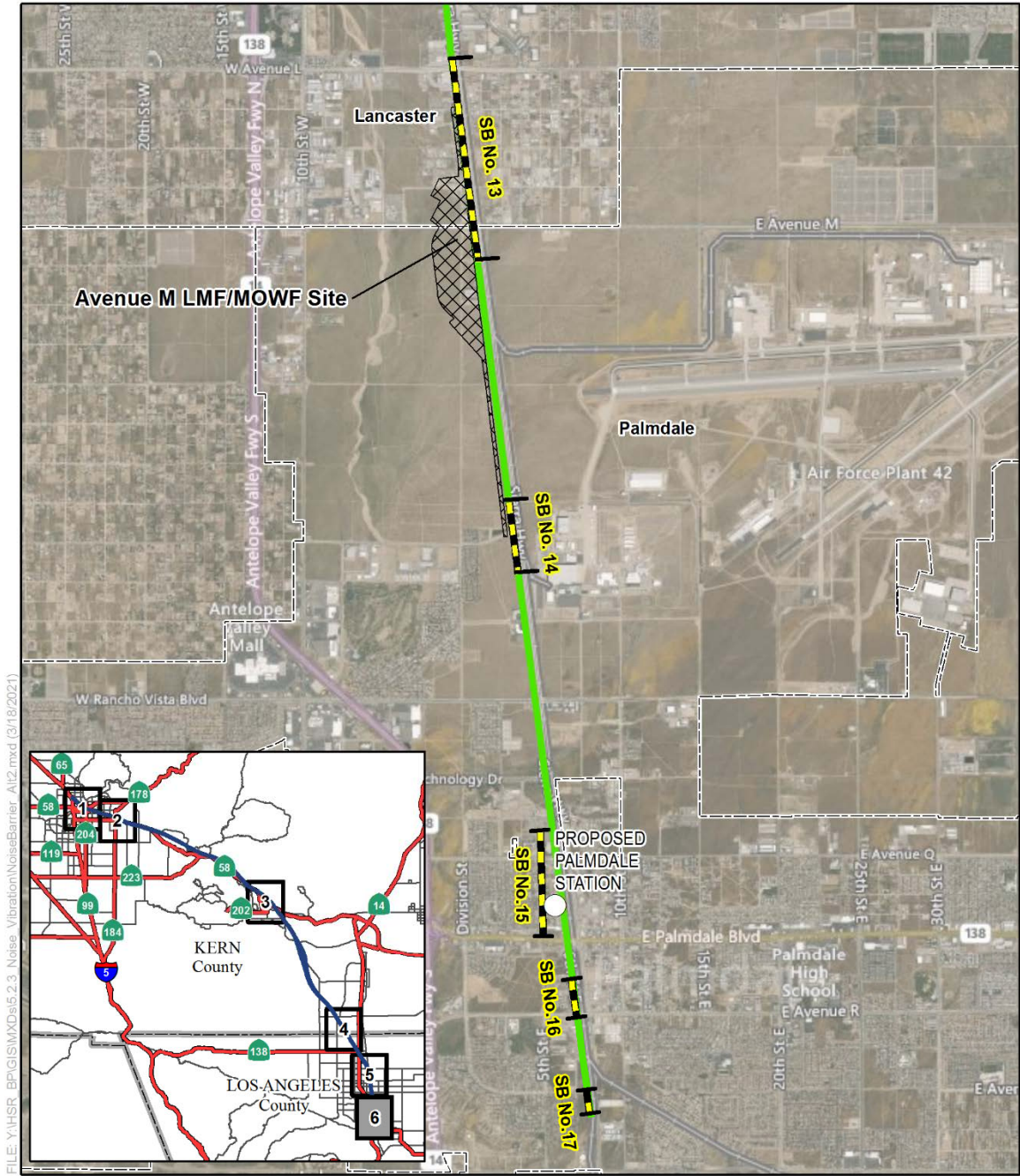


Figure 3.4-A-11 Noise Barrier—Alternative 2
(Sheet 5 of 6)

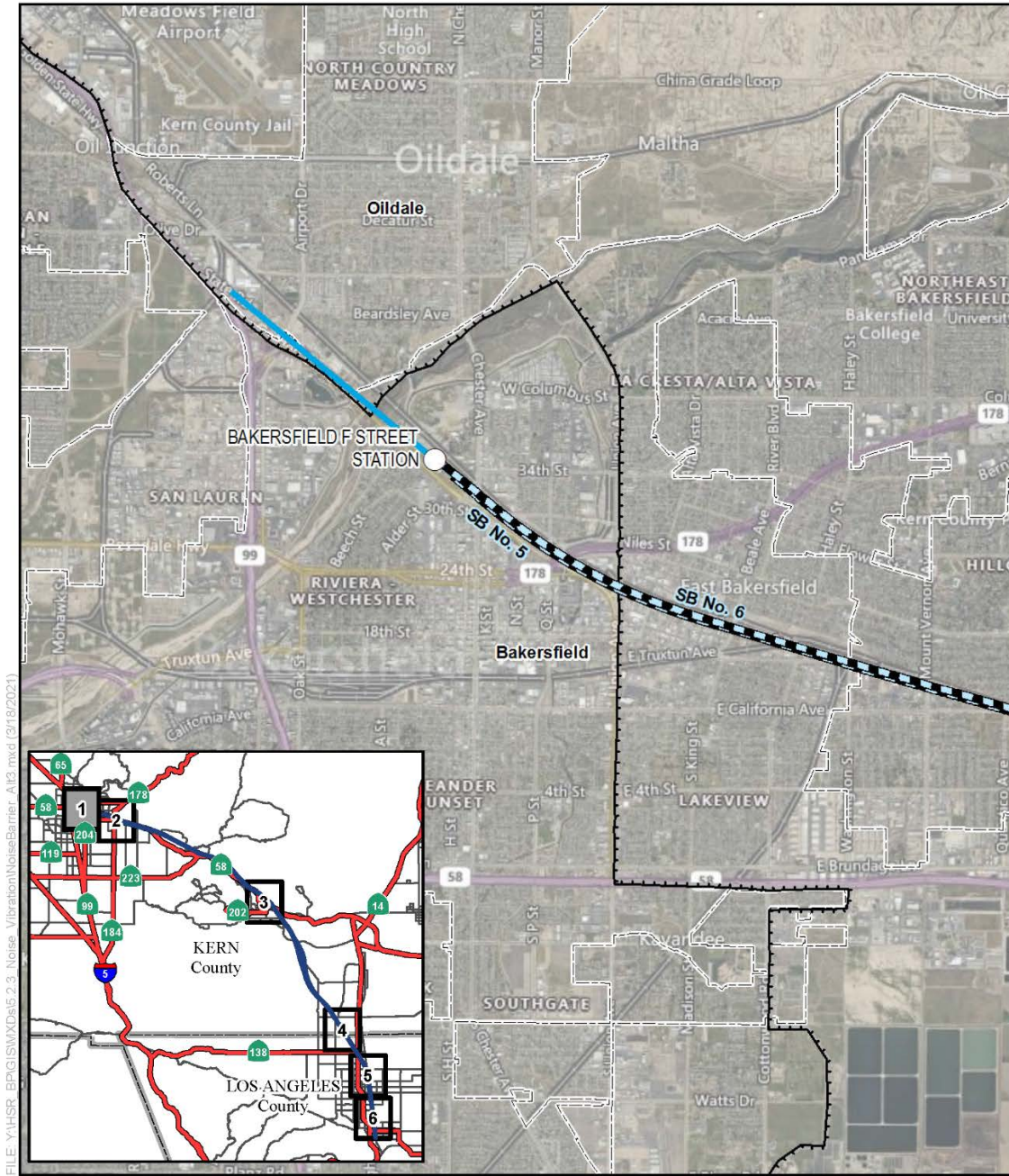


FILE: Y:\HSR_BPG\GIS\MapDocs\5.2.3_Noise_Vibration\NoiseBarrier_Alt2.mxd (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)



Figure 3.4-A-11 Noise Barrier—Alternative 2
(Sheet 6 of 6)



FILE: Y:\HSR_BP\GIS\MapDocs\Noise Vibration\NoiseBarrier_Alt3.mxd (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

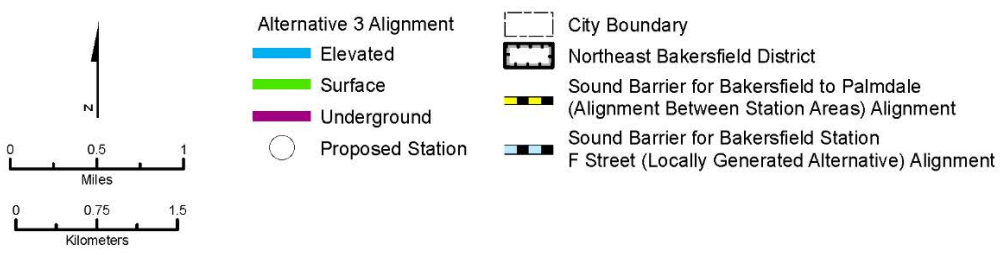
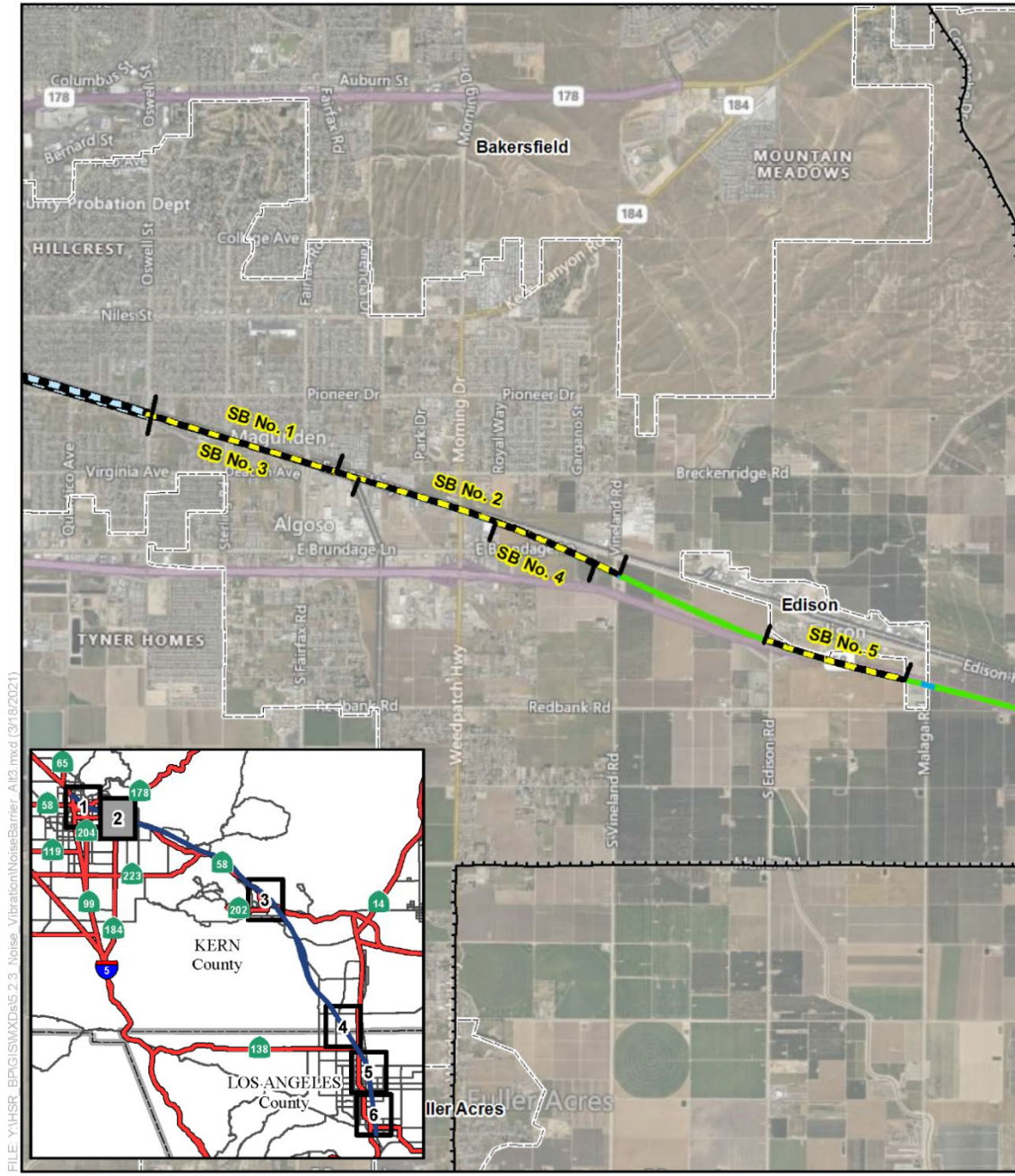


Figure 3.4-A-12 Noise Barrier—Alternative 3
(Sheet 1 of 6)



FILE: Y:\HSR_BPG\GIS\MapDocs\5.2.3_Noise_Vibration\NoiseBarrier_A113.mxd (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

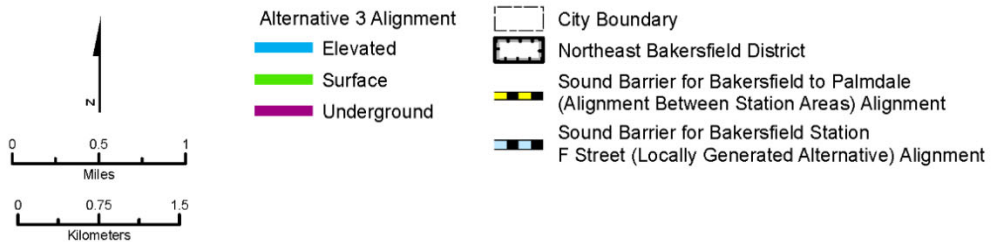
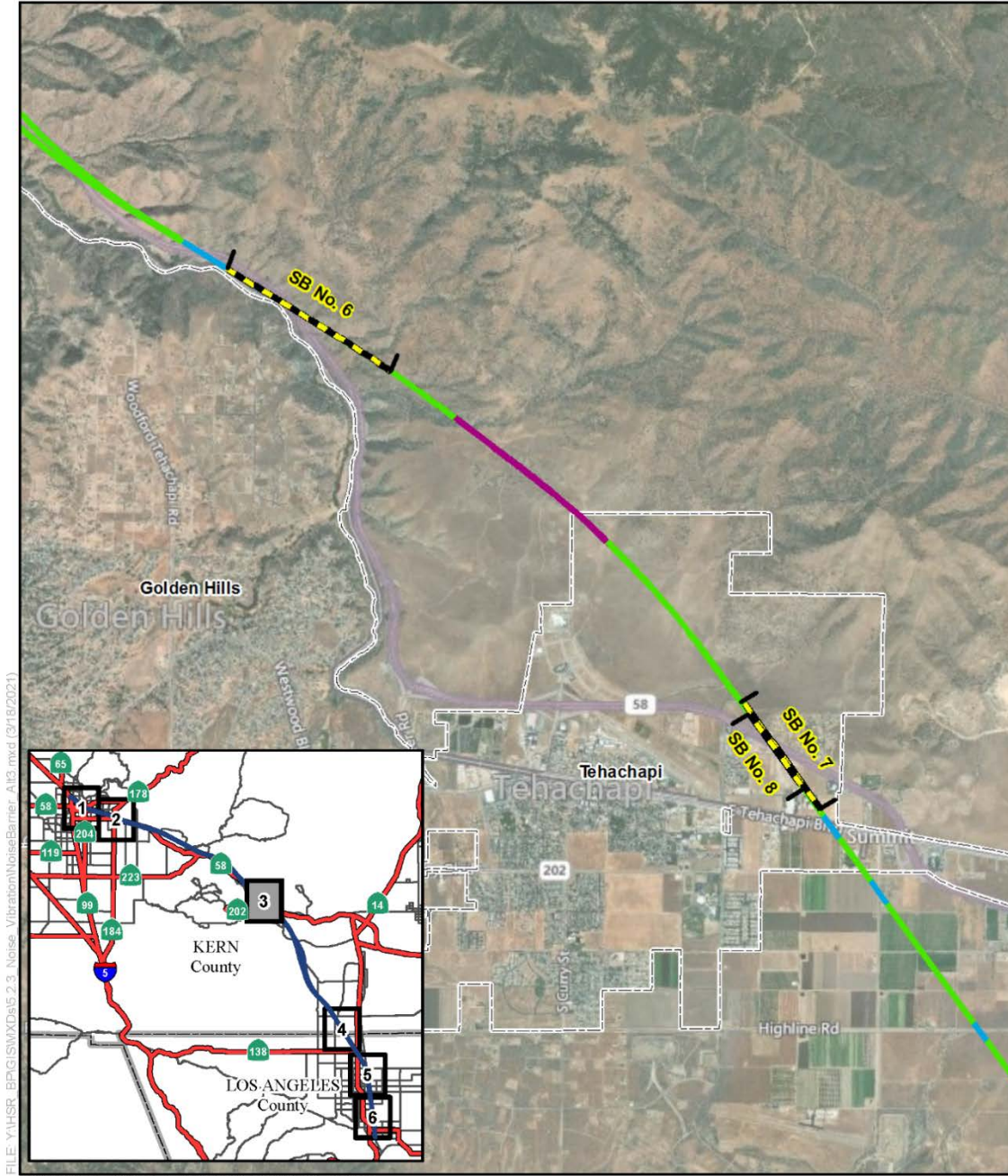


Figure 3.4-A-12 Noise Barrier—Alternative 3
(Sheet 2 of 6)



FILE: Y:\HSR_BPG\GIS\MapDocs\5.2.3_Noise_Vibration\NoiseBarrier_A13.mxd (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

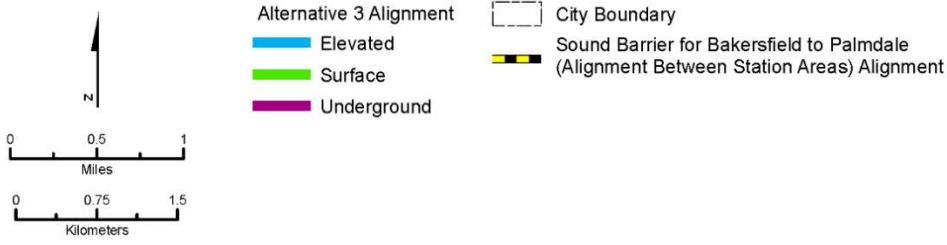
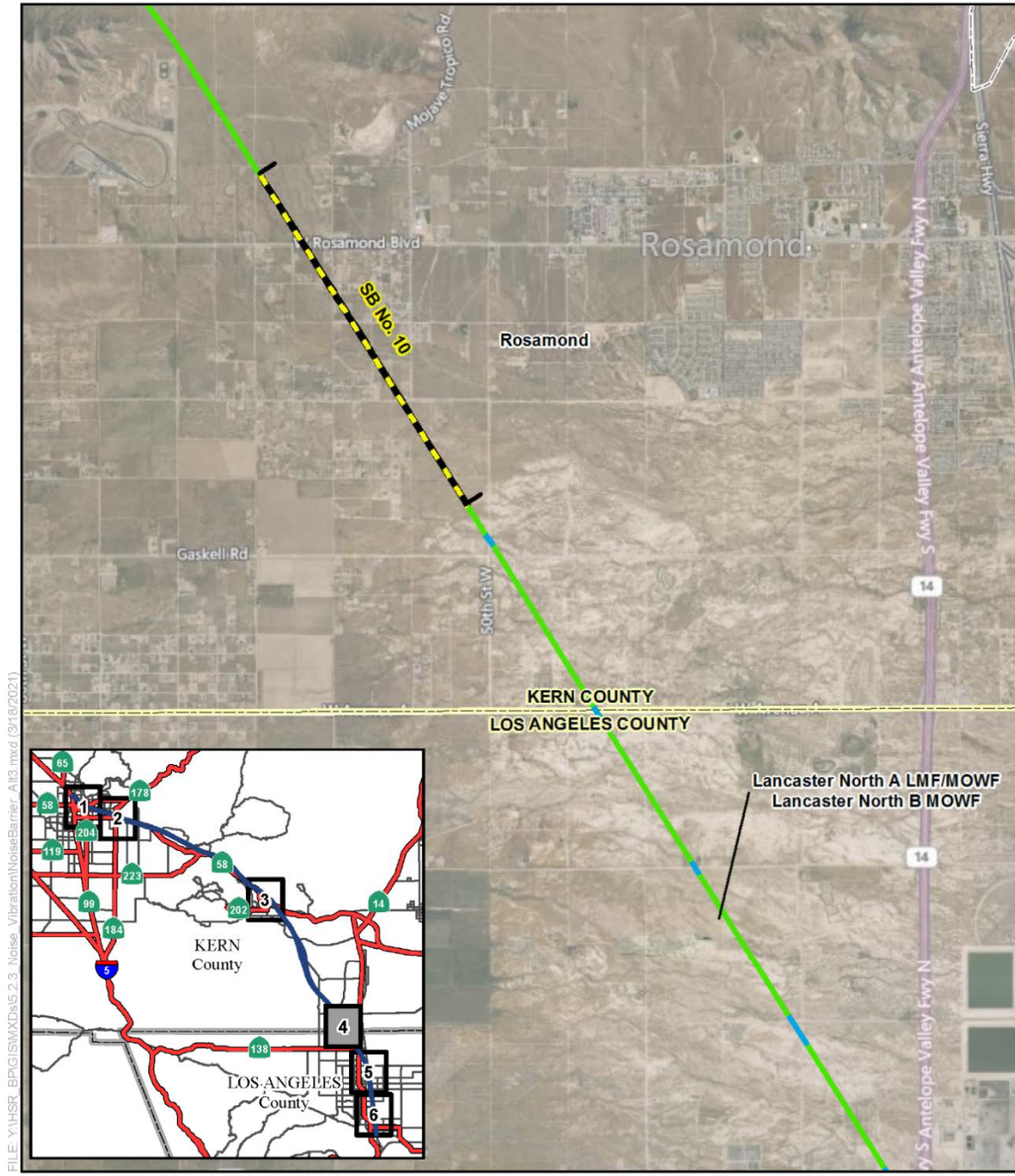


Figure 3.4-A-12 Noise Barrier—Alternative 3
(Sheet 3 of 6)

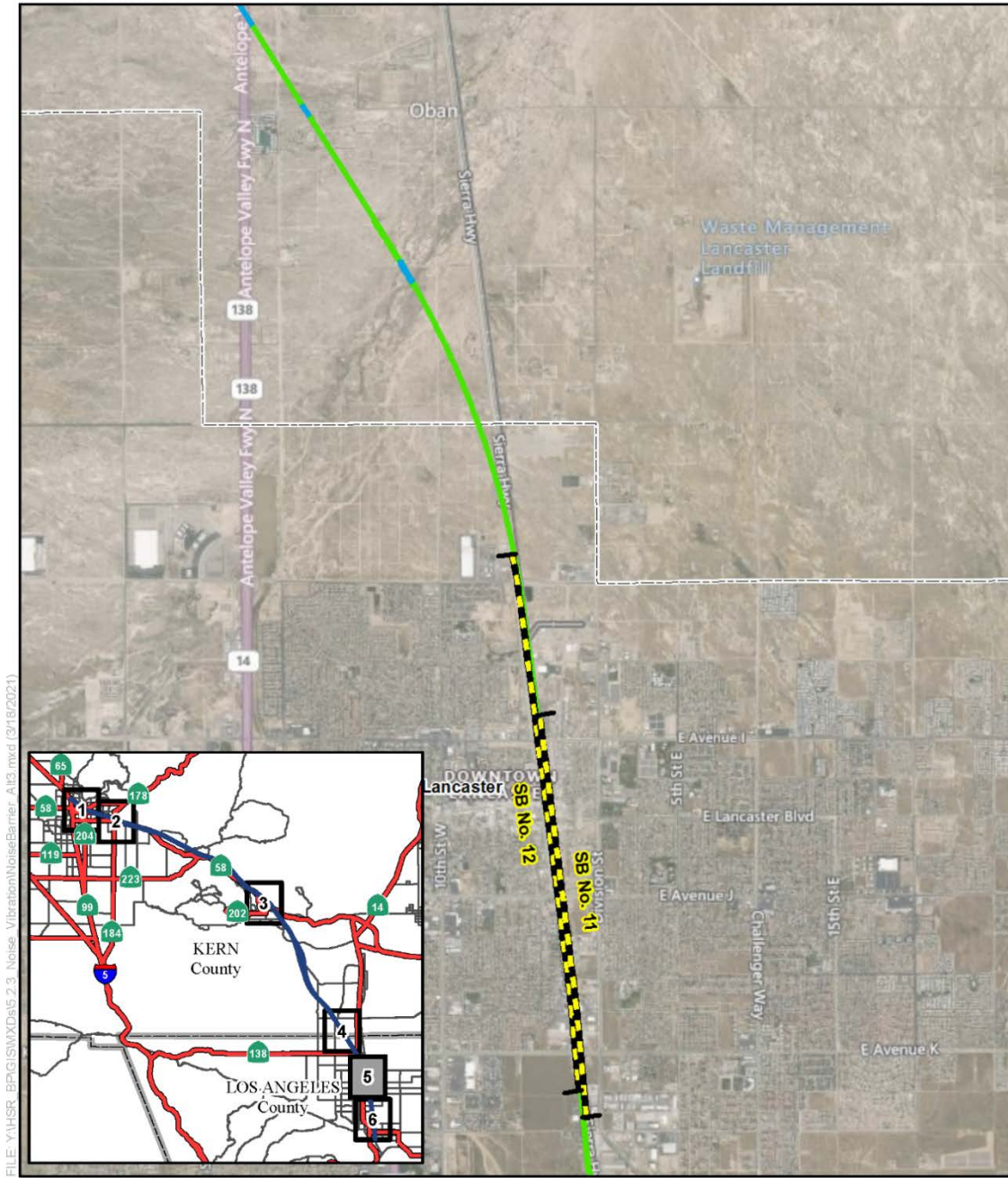


FILE: Y:\HSR_BPG\GIS\MapDocs\5.2.3_Noise_Vibration\NoiseBarrier_A113.mxd (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

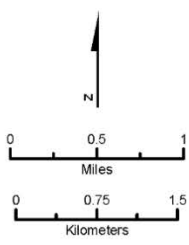


Figure 3.4-A-12 Noise Barrier—Alternative 3
(Sheet 4 of 6)



FILE: Y:\HSR_BPG\ISMXD\5.2.3_Noise_Vibration\NoiseBarrier_A13.mxd (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)



- Alternative 3 Alignment
 - Elevated
 - Surface
 - Underground
- City Boundary
- Sound Barrier for Bakersfield to Palmdale (Alignment Between Station Areas) Alignment

Figure 3.4-A-12 Noise Barrier—Alternative 3
(Sheet 5 of 6)

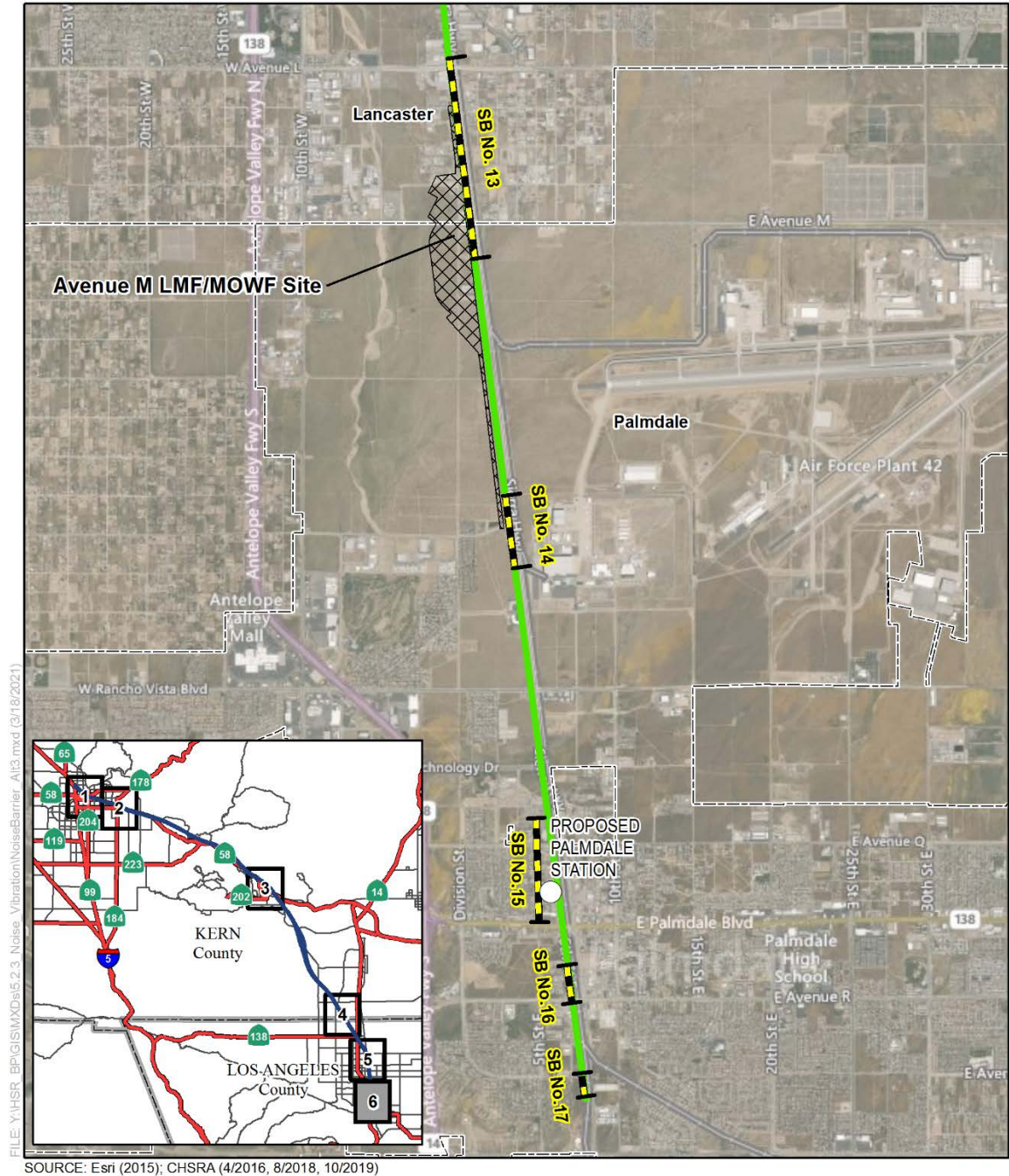
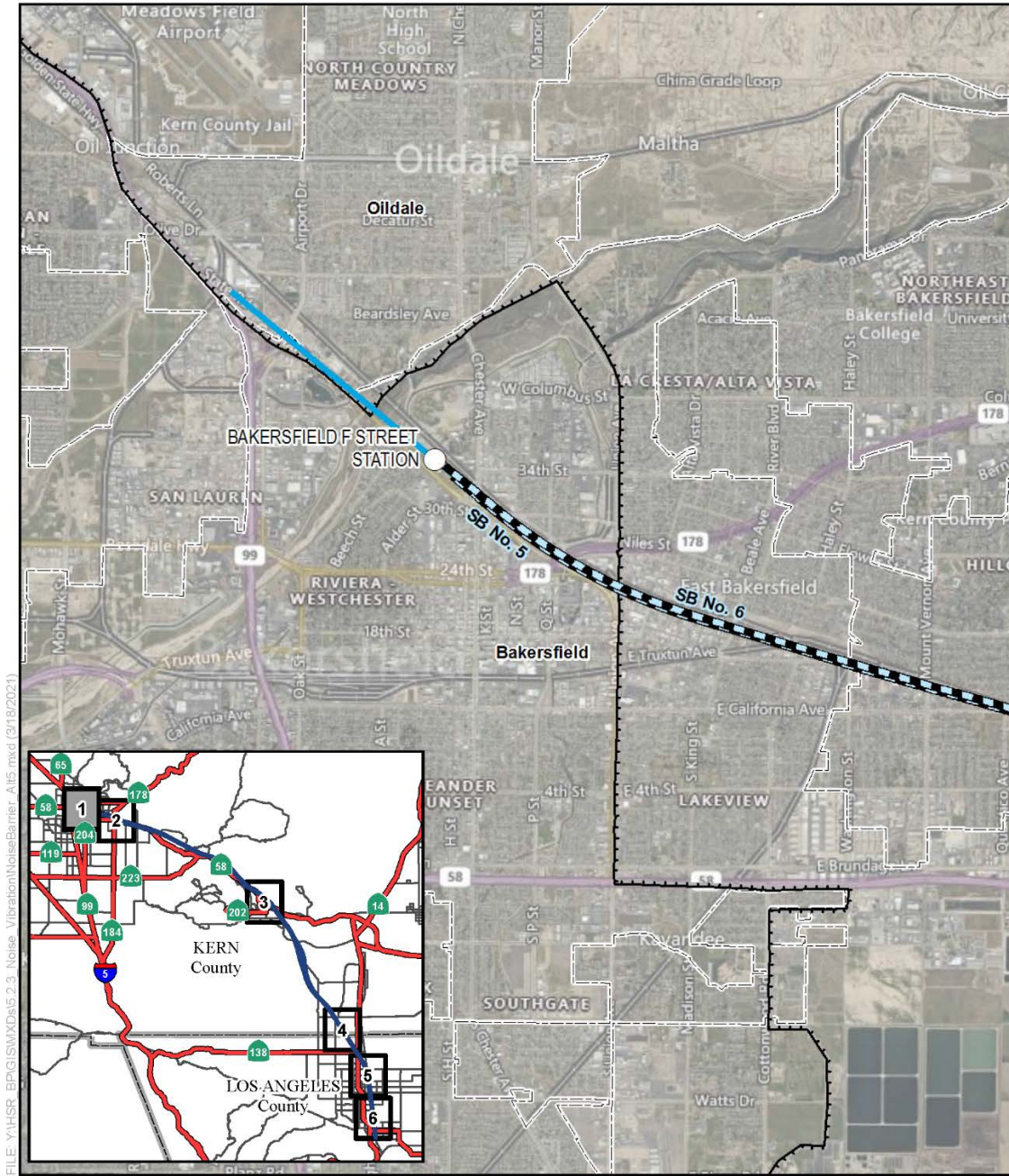


Figure 3.4-A-12 Noise Barrier—Alternative 3
(Sheet 6 of 6)



FILE: Y:\HSR_BP\GIS\MapDocs\5.2.3 Noise Vibration\NoiseBarrier_A115.mxd (3/19/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

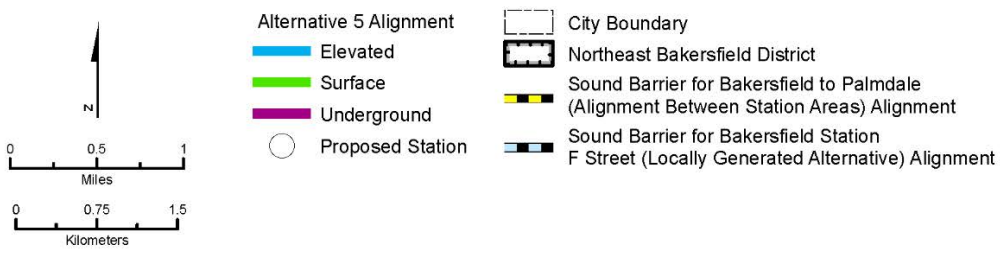
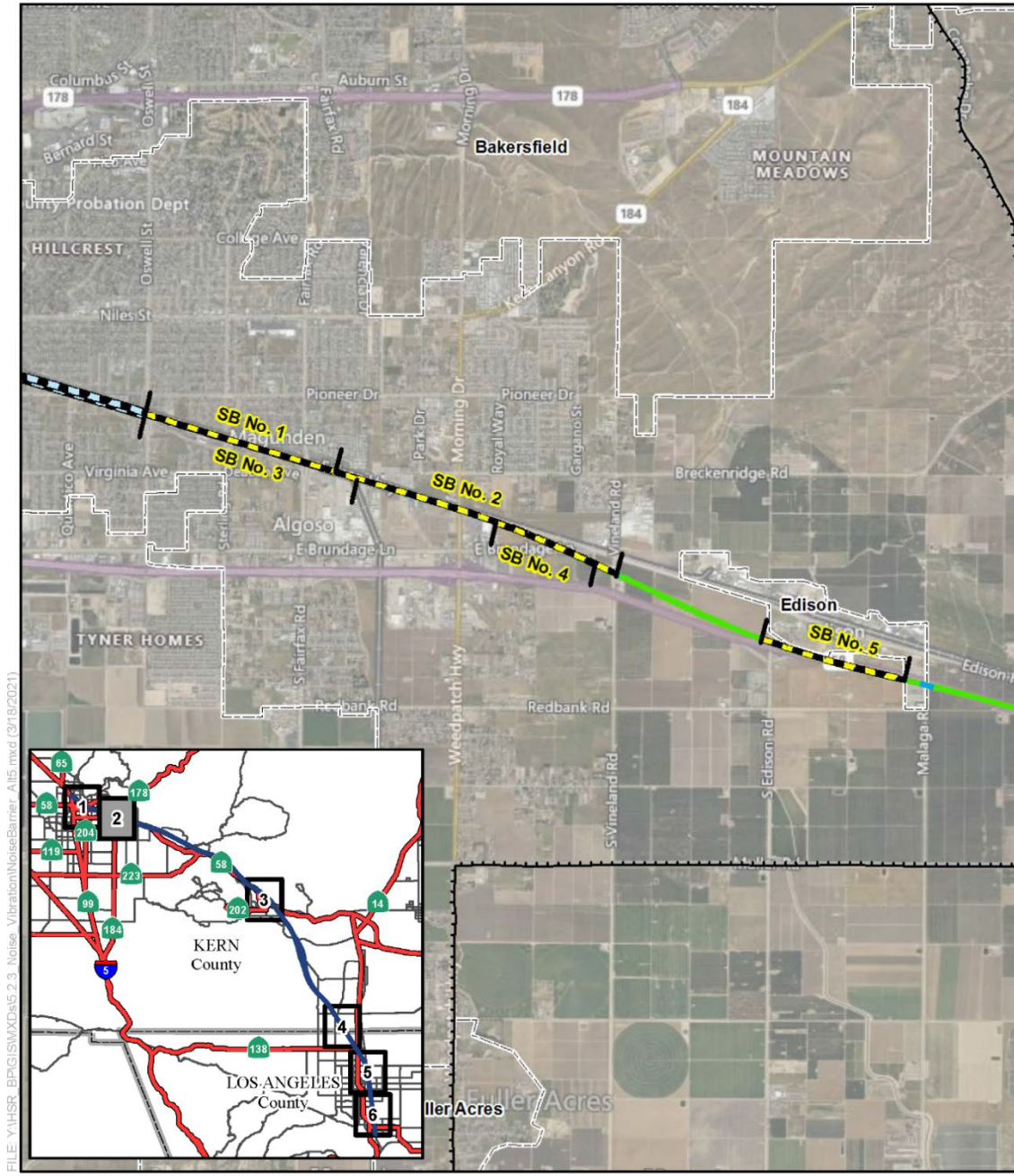


Figure 3.4-A-13 Noise Barrier—Alternative 5
(Sheet 1 of 6)



FILE: Y:\HSR_BPG\ISMXDs\5.2.3_Noise_Vibration\NoiseBarrier_A115.mxd (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

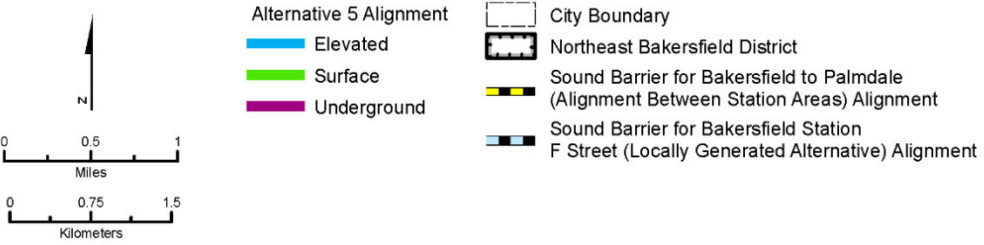
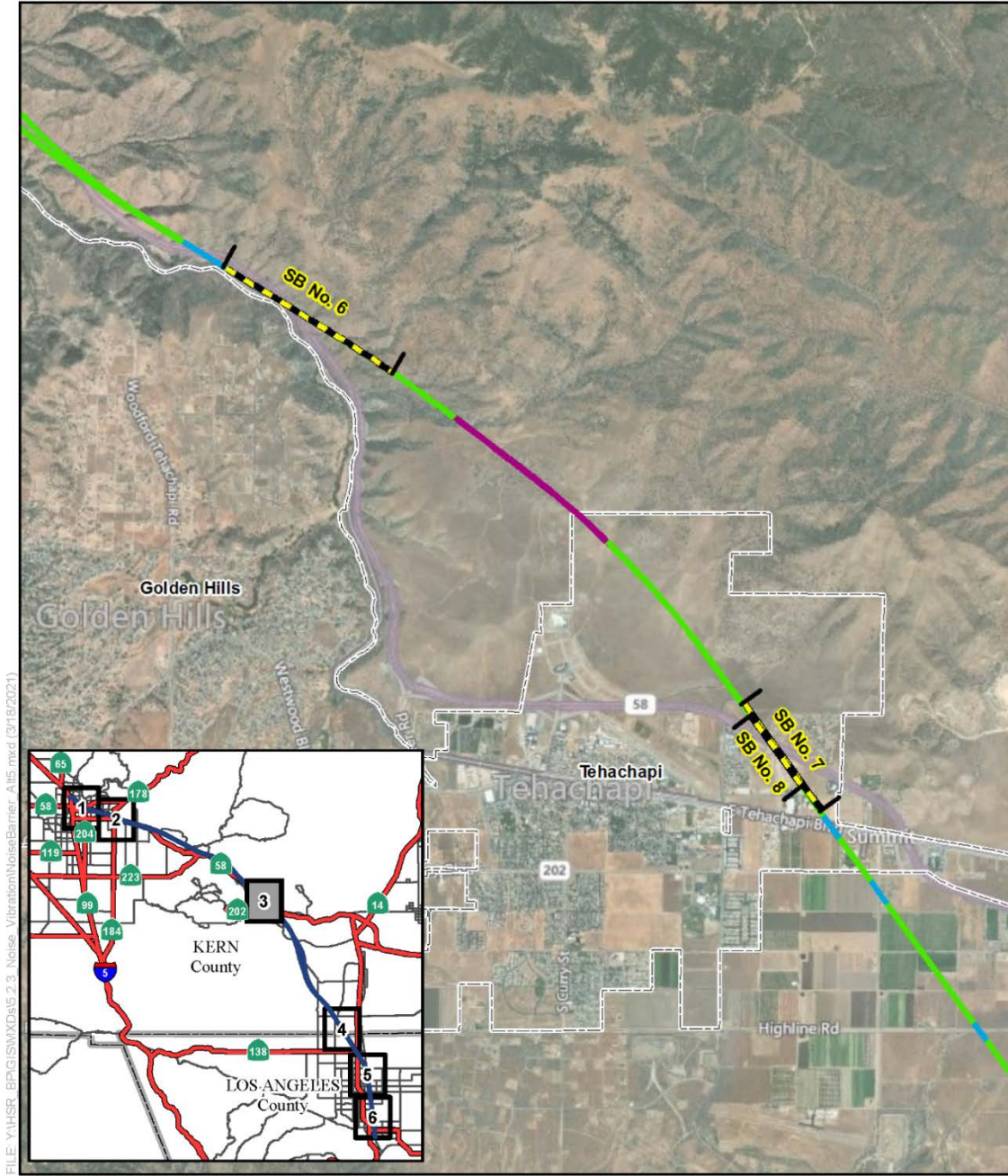


Figure 3.4-A-13 Noise Barrier—Alternative 5
 (Sheet 2 of 6)



SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

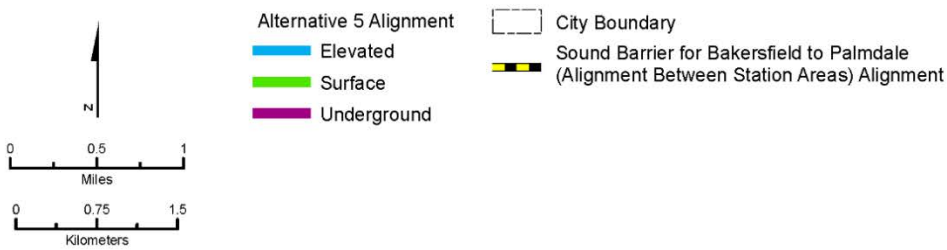
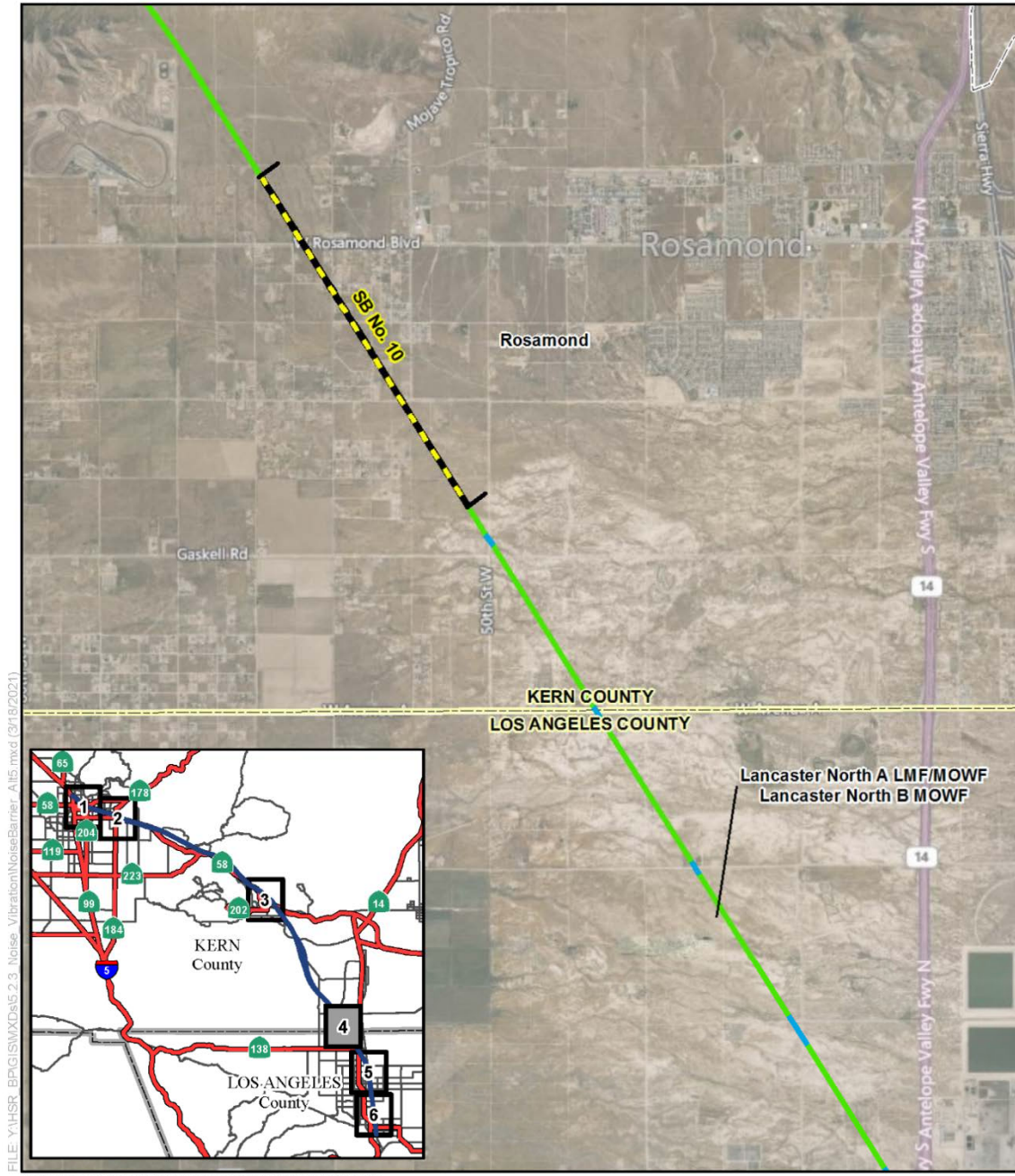


Figure 3.4-A-13 Noise Barrier—Alternative 5
 (Sheet 3 of 6)



FILE: Y:\HSR_BPG\GIS\MXD\S.2.3_Noise_Vibration\NoiseBarrier_A115.mxd (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

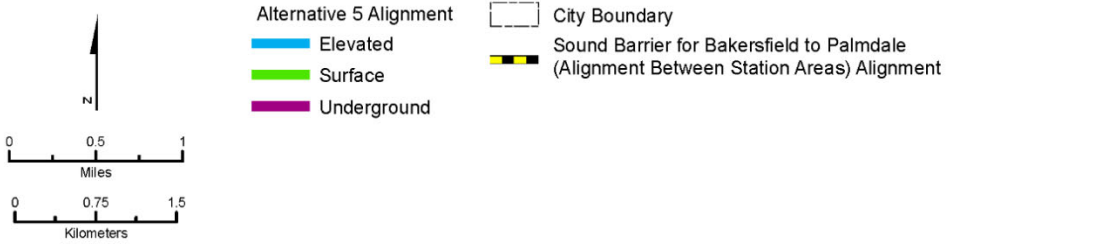
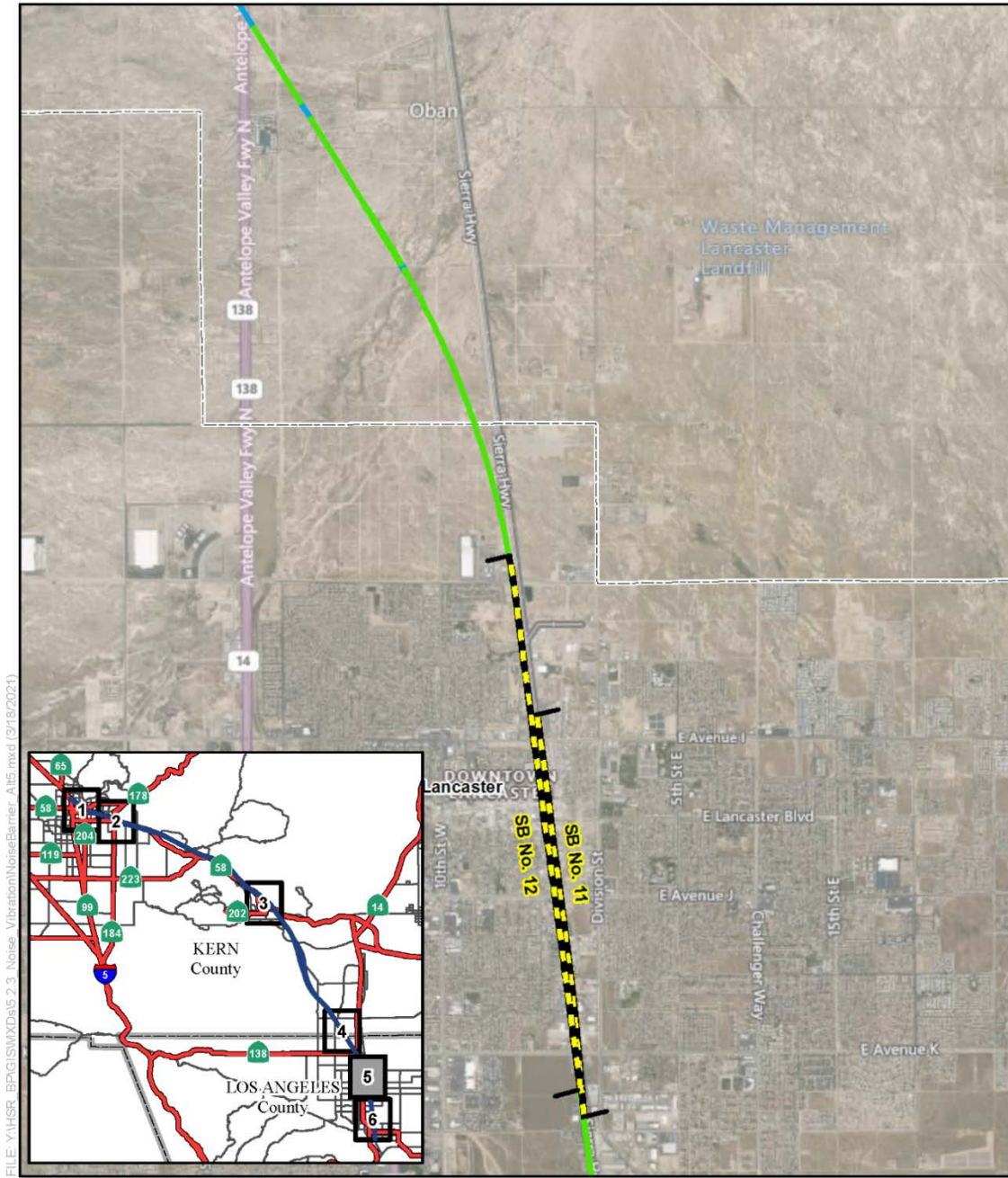


Figure 3.4-A-13 Noise Barrier—Alternative 5
(Sheet 4 of 6)



FILE: Y:\HSR_BPG\ISM\XD\5.2.3_Noise_Vibration\NoiseBarrier_A15.mxd (3/18/2021)

SOURCE: Esri (2015); CHSRA (4/2016, 8/2018, 10/2019)

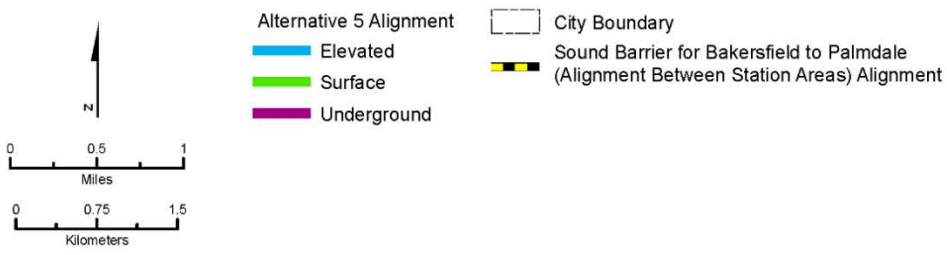
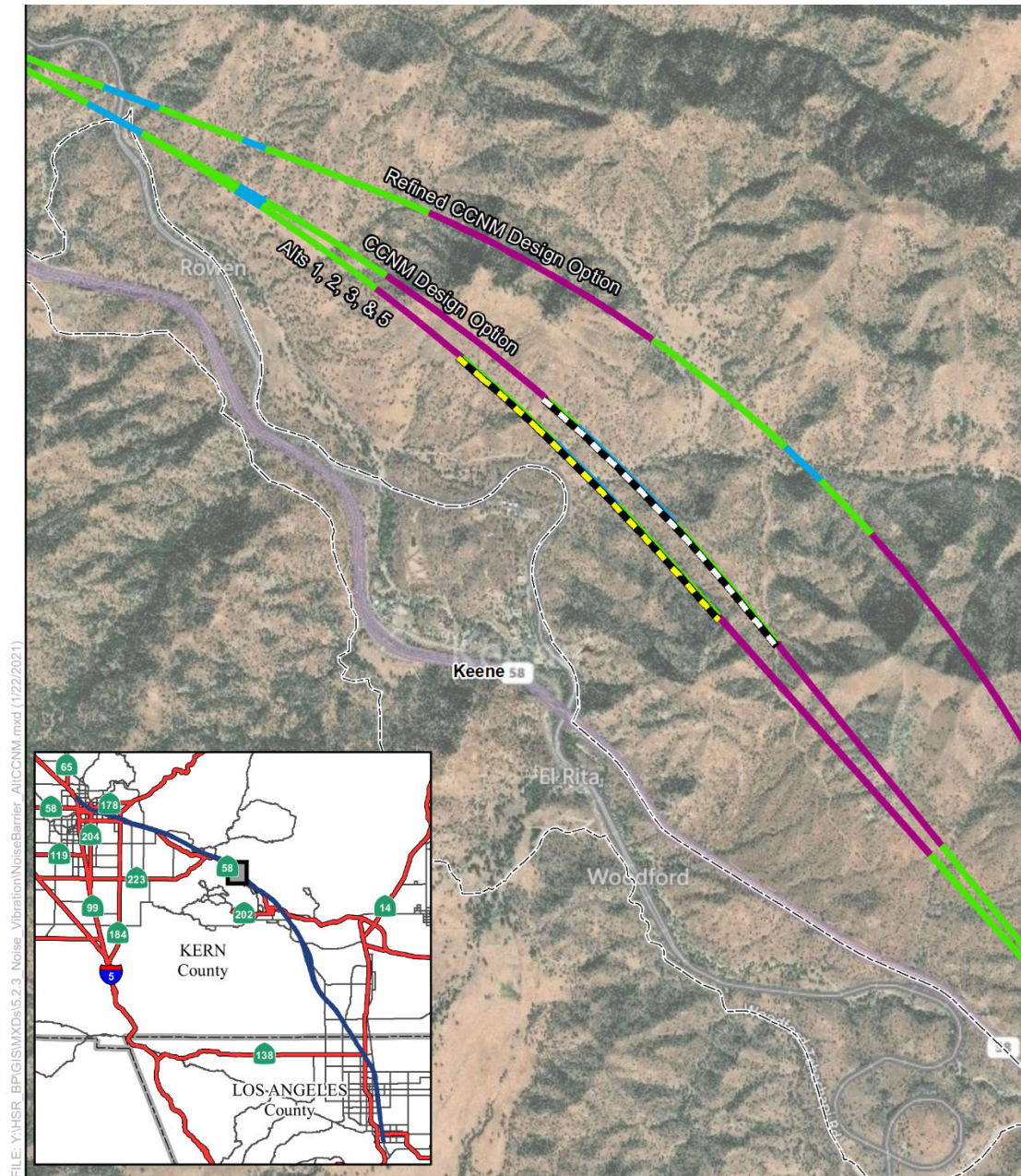


Figure 3.4-A-13 Noise Barrier—Alternative 5
(Sheet 5 of 6)



Figure 3.4-A-13 Noise Barrier—Alternative 5
(Sheet 6 of 6)



FILE: Y:\HSR_BP\GIS\MXDs\5.2.3_Noise_Vibration\NoiseBarrier_AltCCNM.mxd (1/22/2021)

SOURCE: Bing Maps (2015); CHSRA (4/2016, 8/2018, 10/2018)

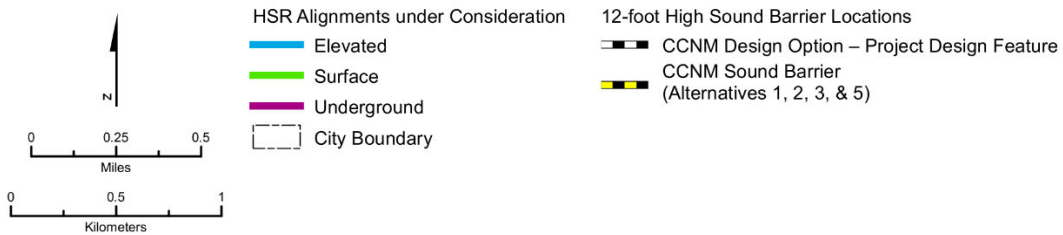


Figure 3.4-A-14 Noise Barrier – CCNM