

APPENDIX 3.4-C: NOISE AND VIBRATION MEASUREMENT AND IMPACT LOCATIONS

California High-Speed Rail Authority

June 2022



NOISE AND VIBRATION MEASUREMENT LOCATIONS

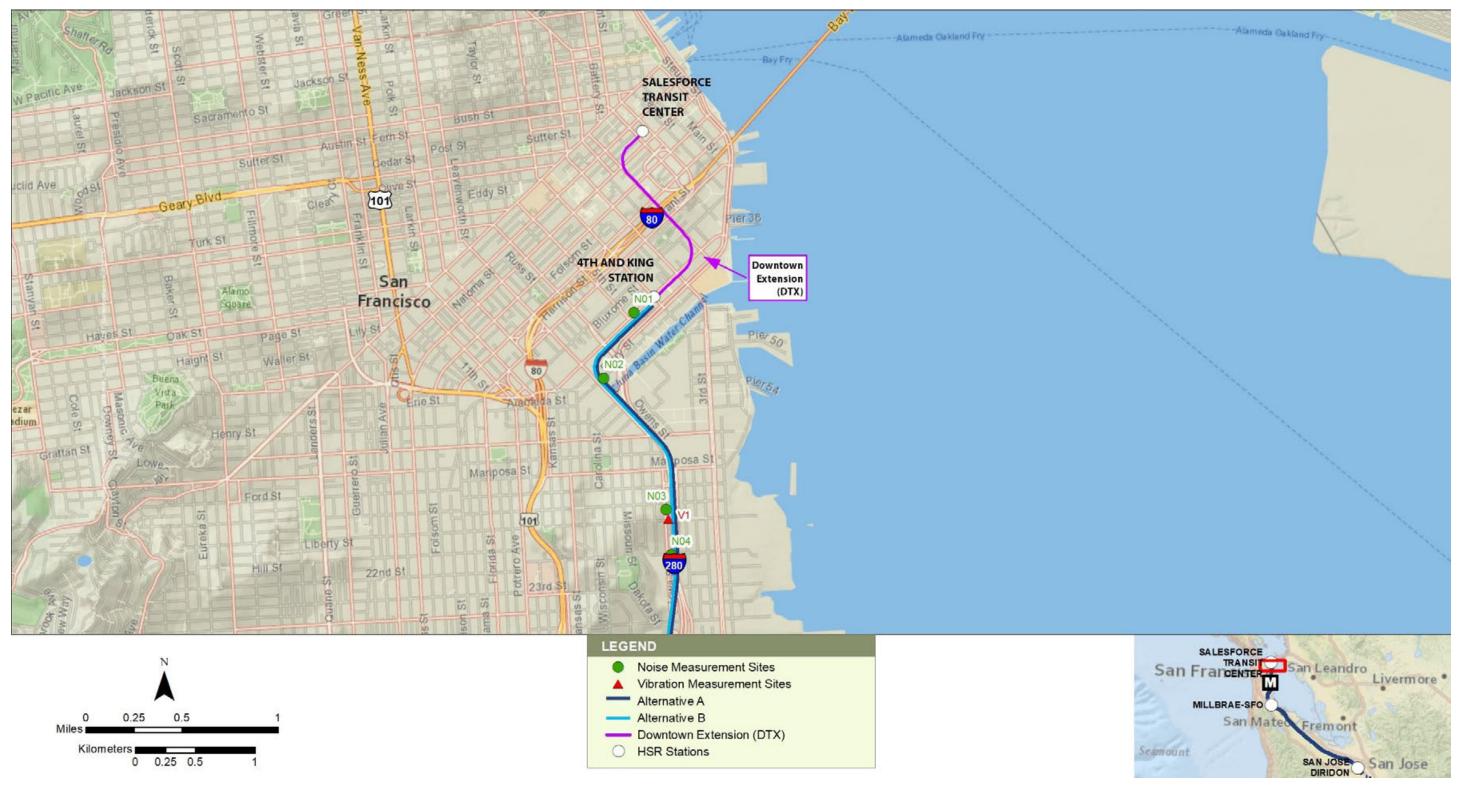


Figure C-1 Noise and Vibration Measurement Locations





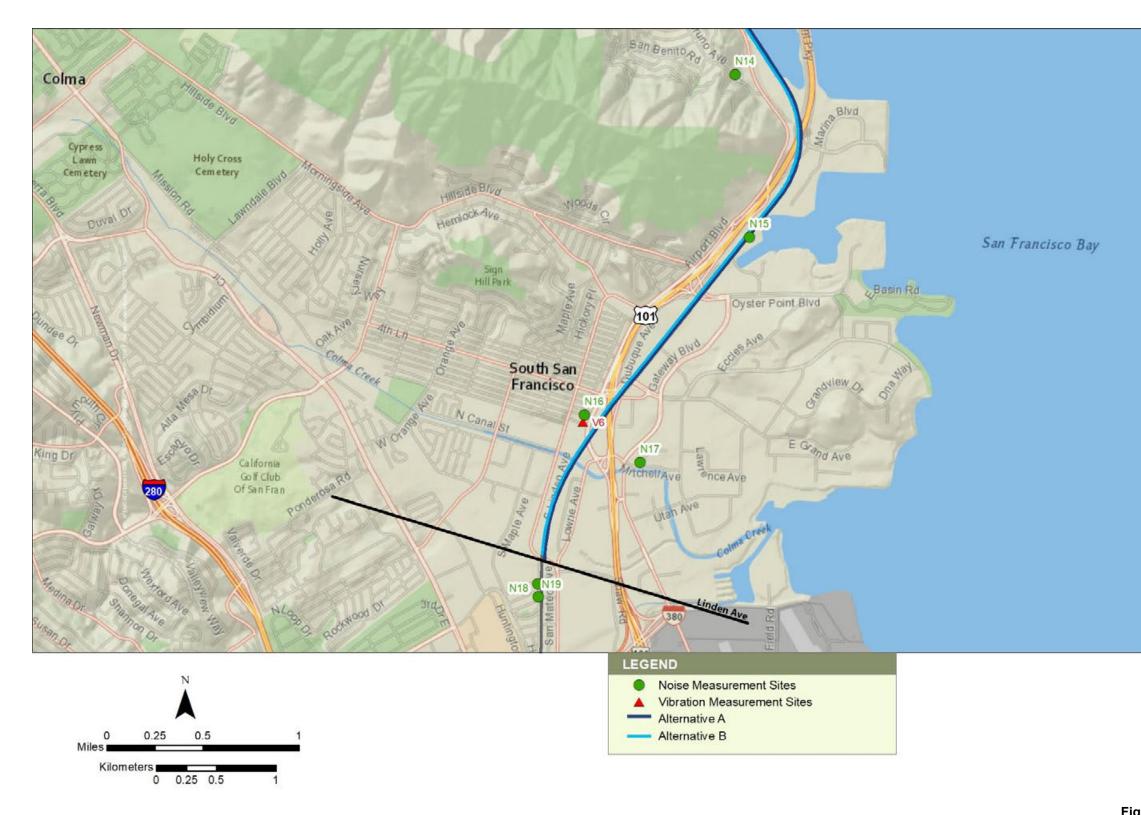


Figure C-2 Noise and Vibration Measurement Locations





Figure C-3 Noise and Vibration Measurement Locations





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Figure C-4 Noise and Vibration Measurement Locations



Figure C-5 Noise and Vibration Measurement Locations



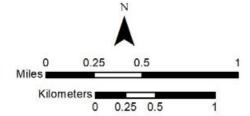


Figure C-6 Noise and Vibration Measurement Locations

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Figure C-7 Noise and Vibration Measurement Locations





Figure C-8 Noise and Vibration Measurement Locations



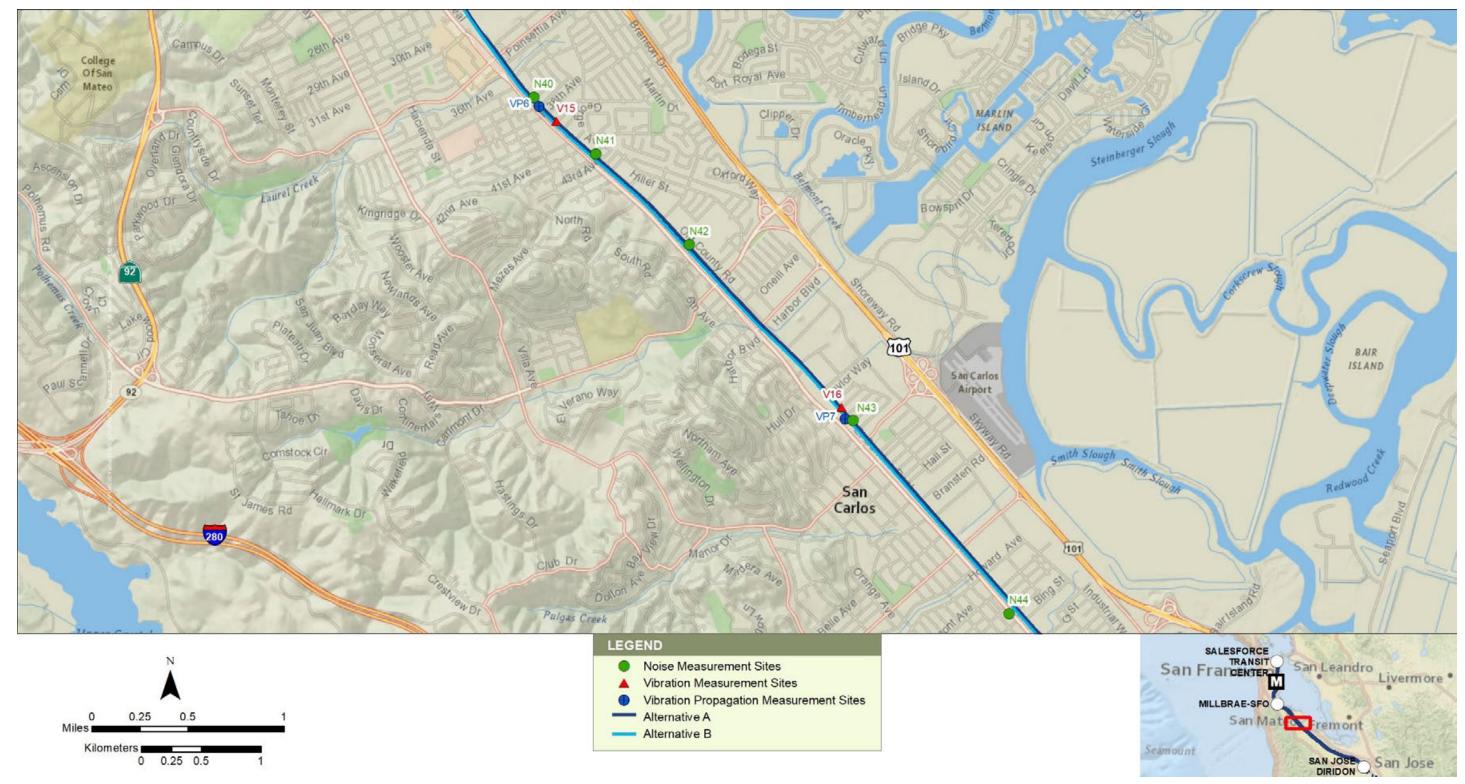


Figure C-9 Noise and Vibration Measurement Locations





Figure C-10 Noise and Vibration Measurement Locations



Figure C-11 Noise and Vibration Measurement Locations

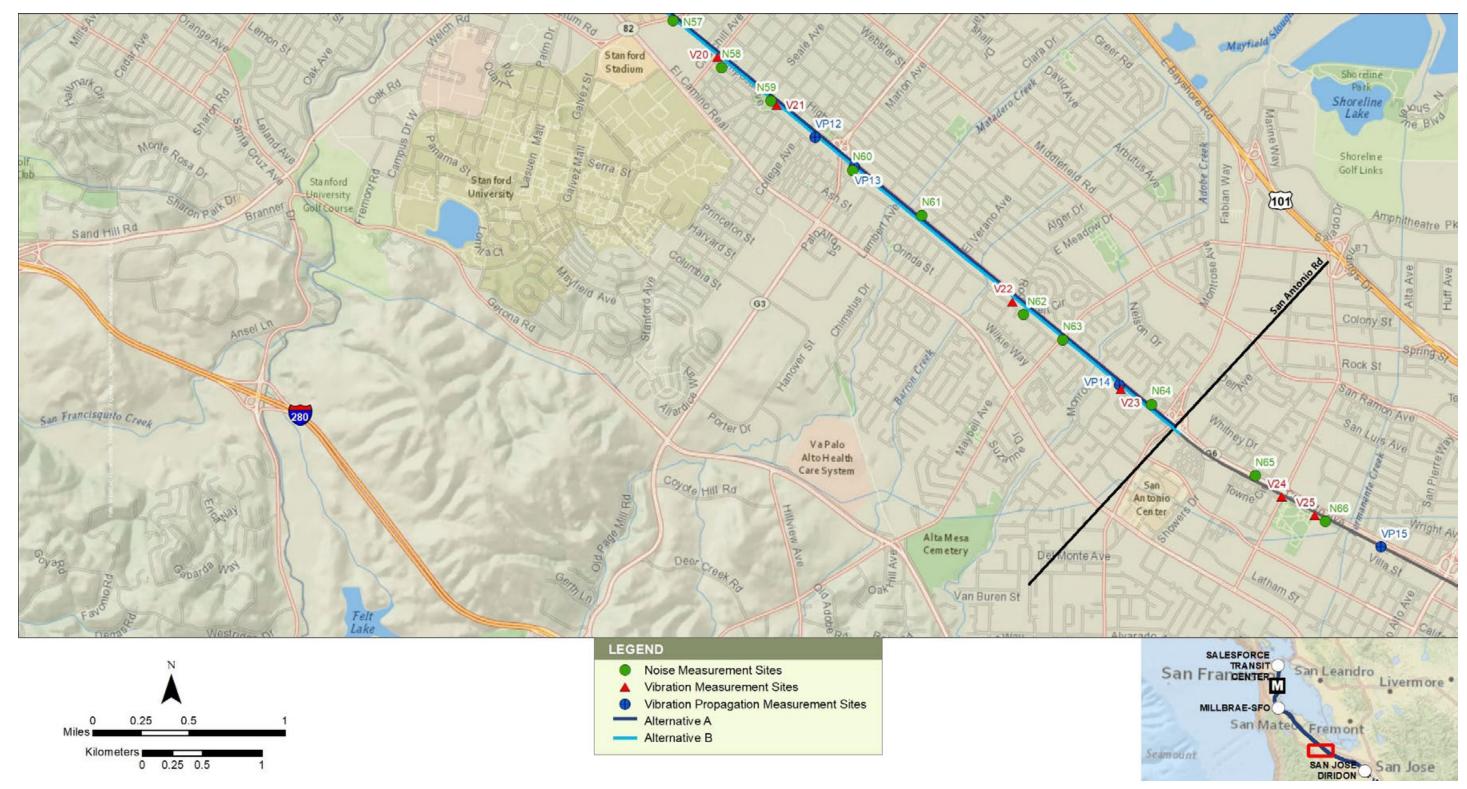




Figure C-12 Noise and Vibration Measurement Locations





Figure C-13 Noise and Vibration Measurement Locations

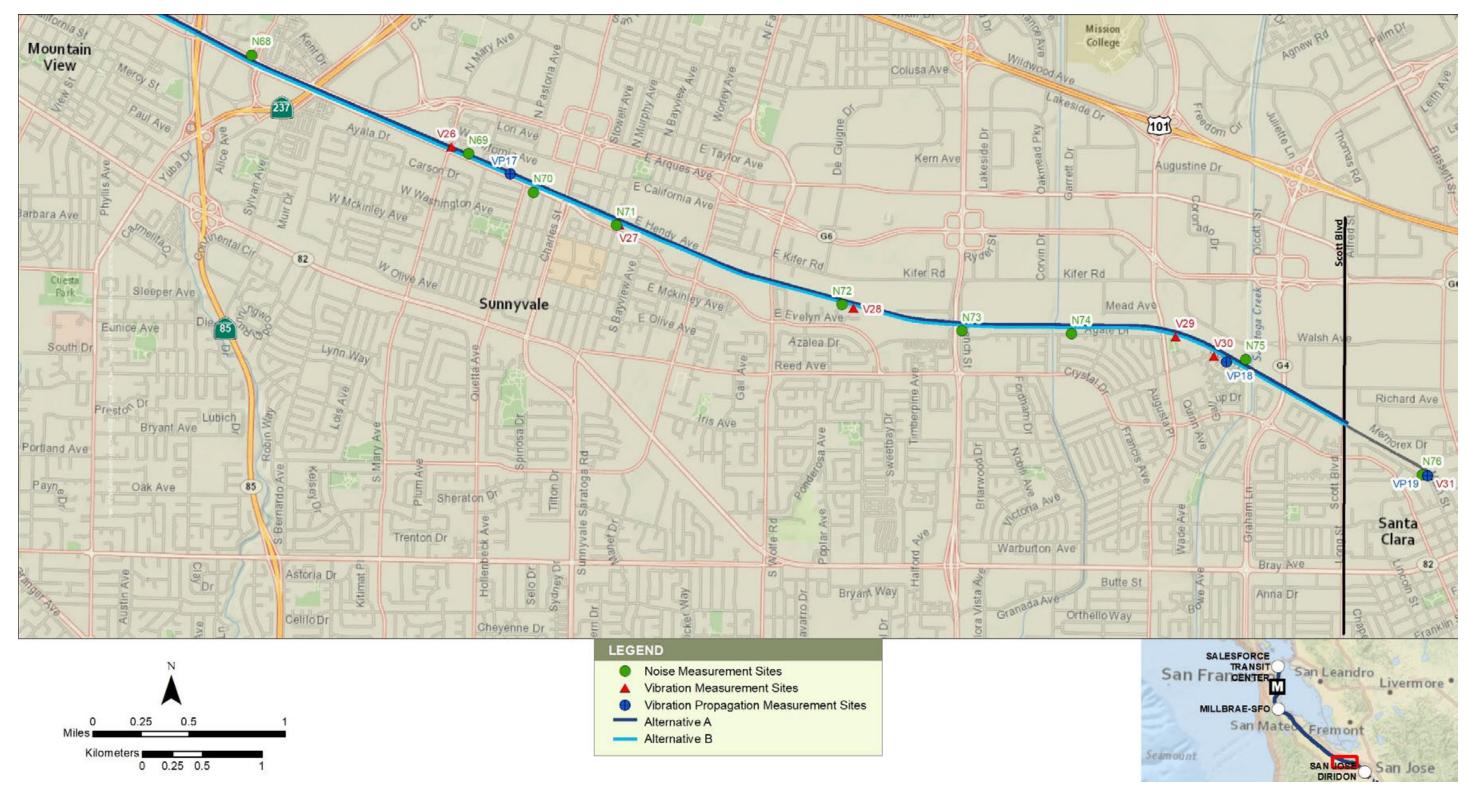




Figure C-14 Noise and Vibration Measurement Locations





Figure C-15 Noise and Vibration Measurement Locations





Figure C-16 Noise and Vibration Measurement Locations



2040 PLUS PROJECT NOISE IMPACT LOCATIONS

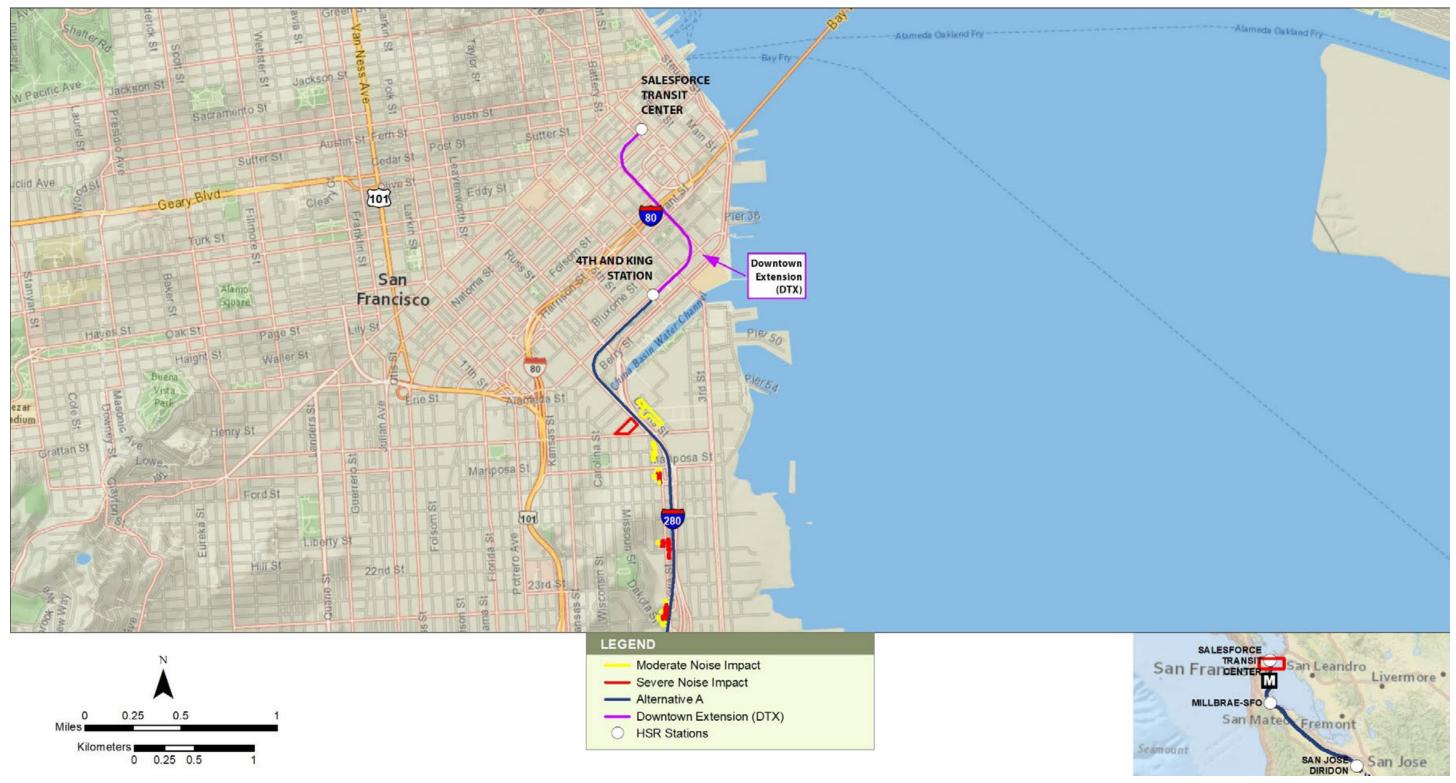
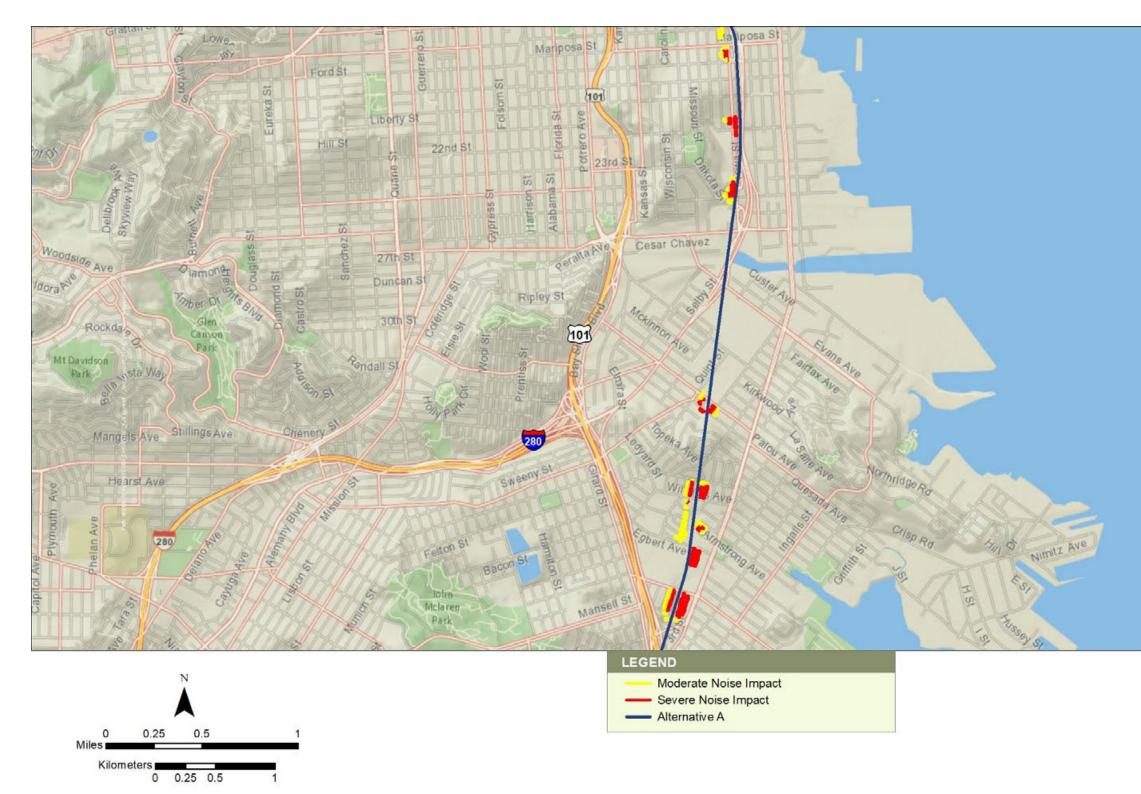


Figure C-17 2040 Plus Project Noise Impacts—Alternative A





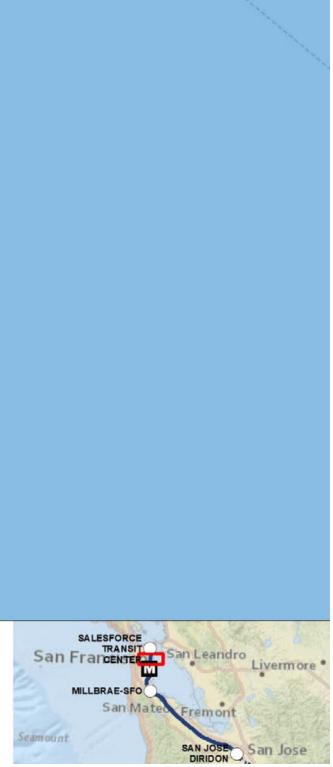
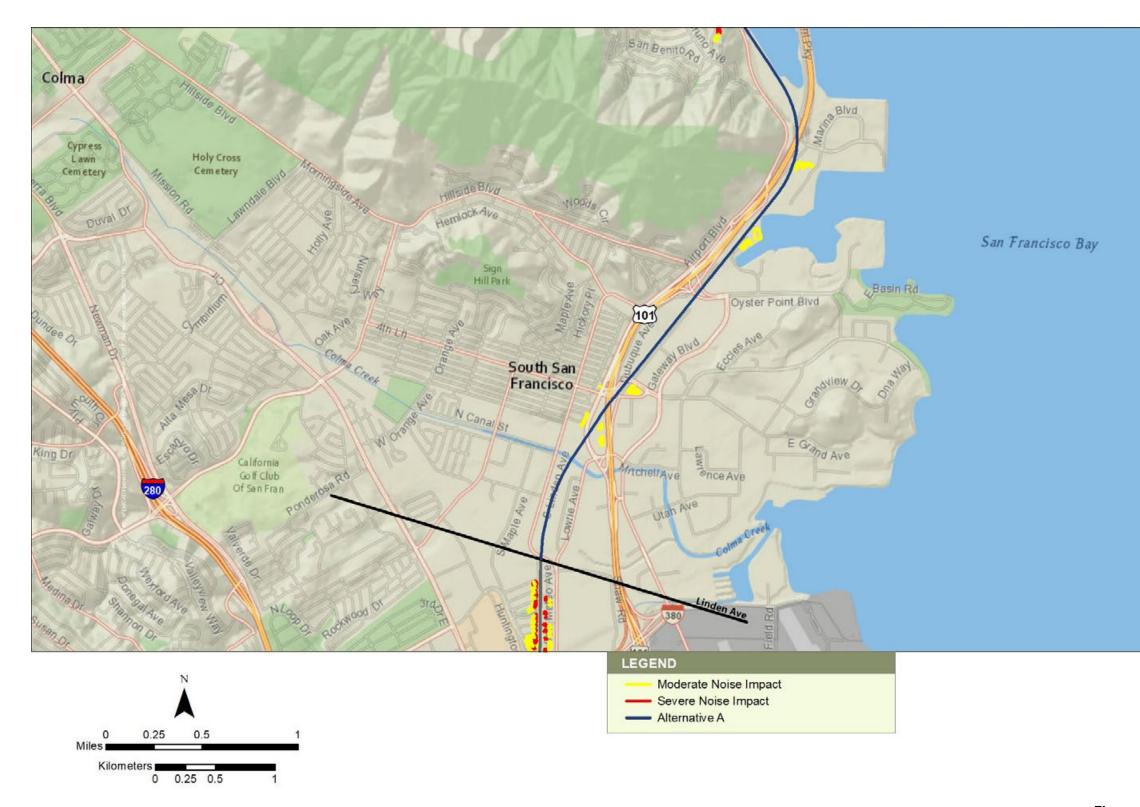


Figure C-18 2040 Plus Project Noise Impacts—Alternative A





Figure C-19 2040 Plus Project Noise Impacts—Alternative A





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Figure C-20 2040 Plus Project Noise Impacts—Alternative A



Figure C-21 2040 Plus Project Noise Impacts—Alternative A

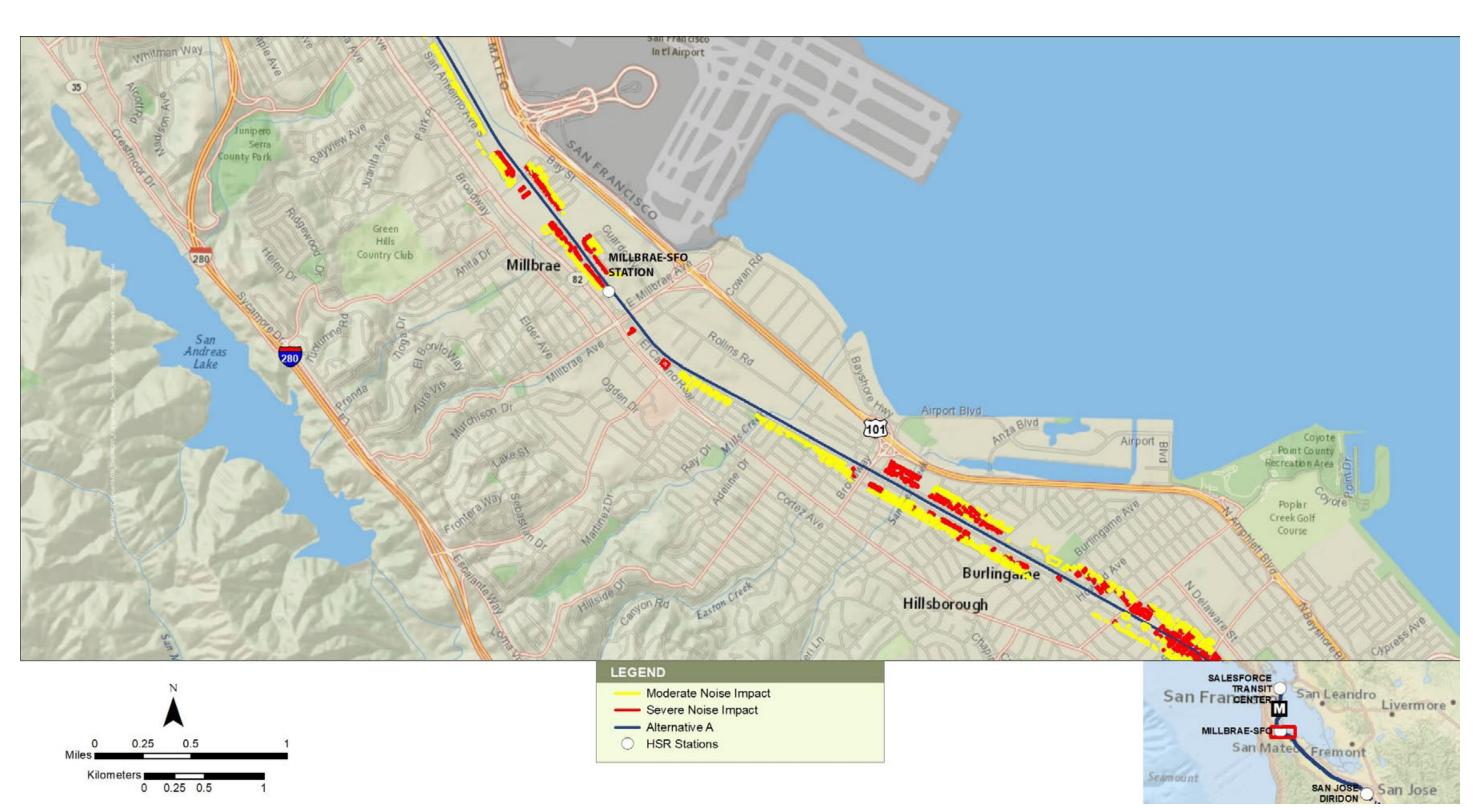


Figure C-22 2040 Plus Project Noise Impacts—Alternative A

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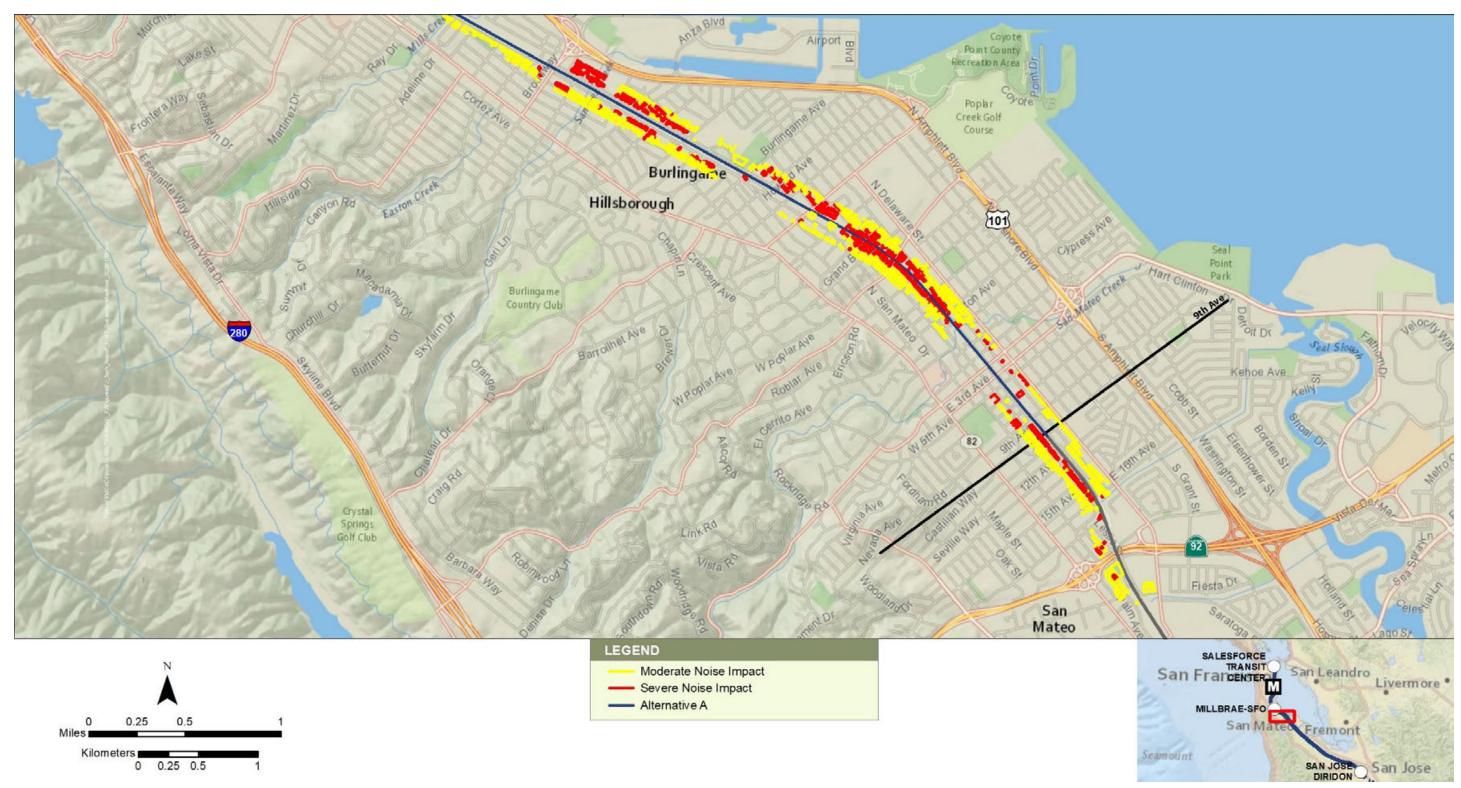


Figure C-23 2040 Plus Project Noise Impacts—Alternative A





Figure C-24 2040 Plus Project Noise Impacts—Alternative A



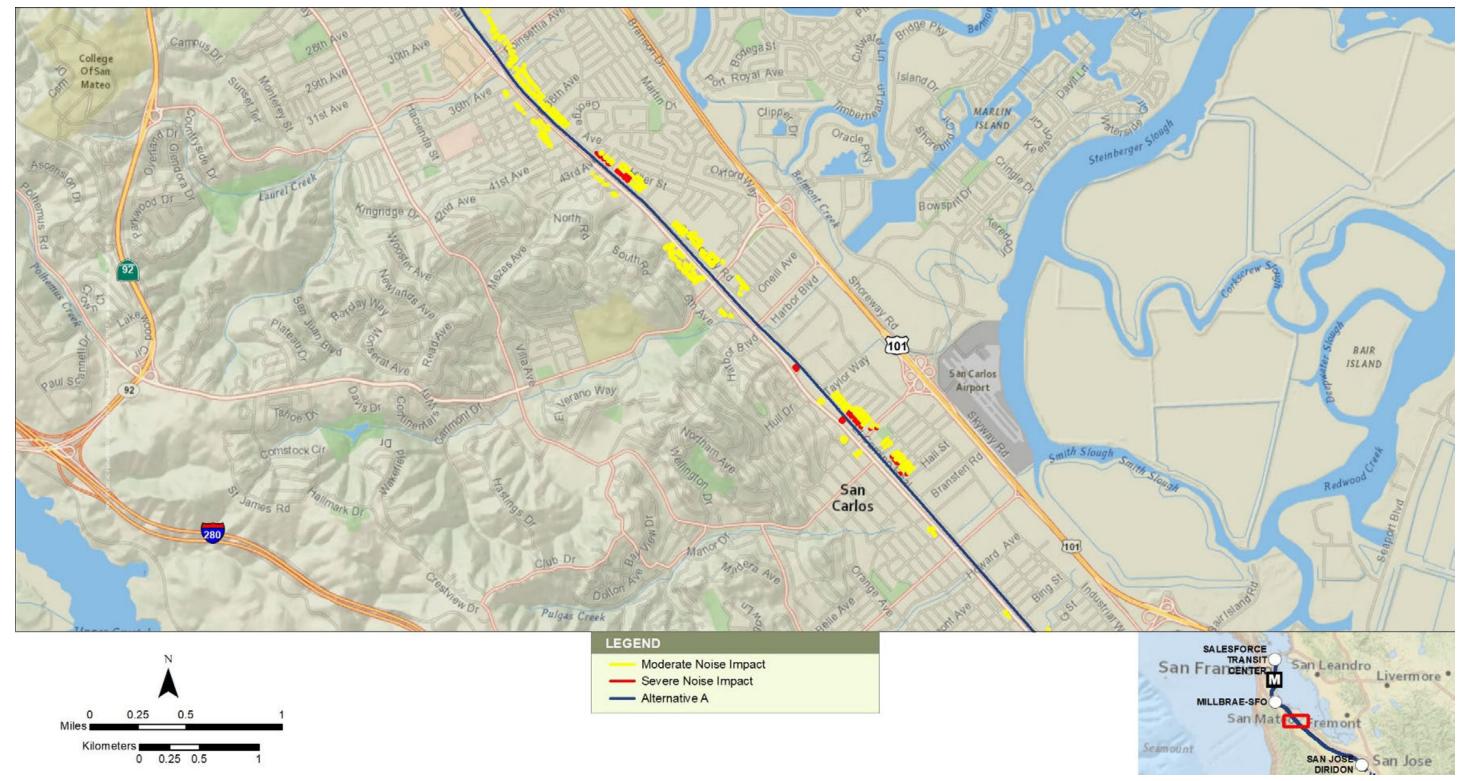


Figure C-25 2040 Plus Project Noise Impacts—Alternative A

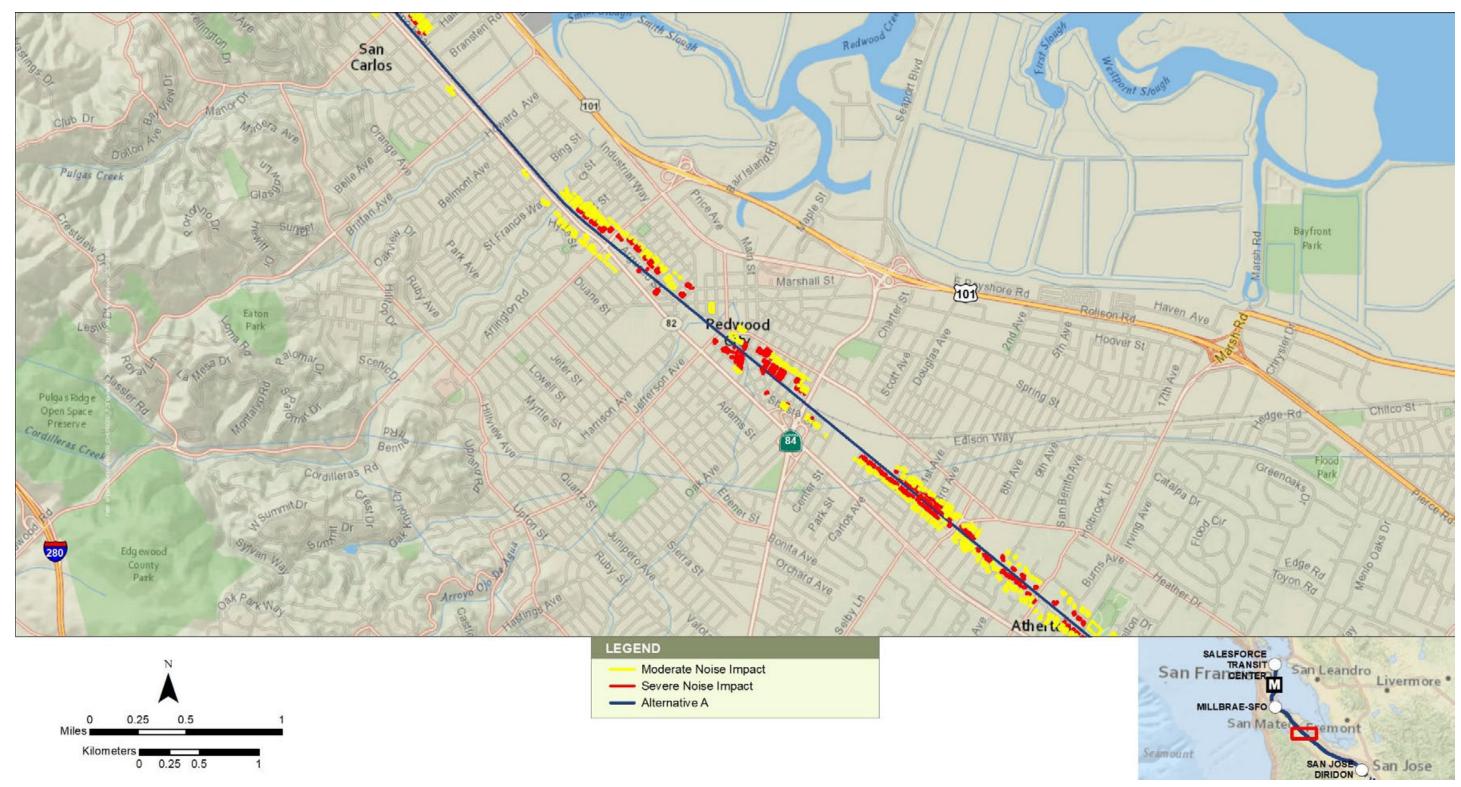




Figure C-26 2040 Plus Project Noise Impacts—Alternative A

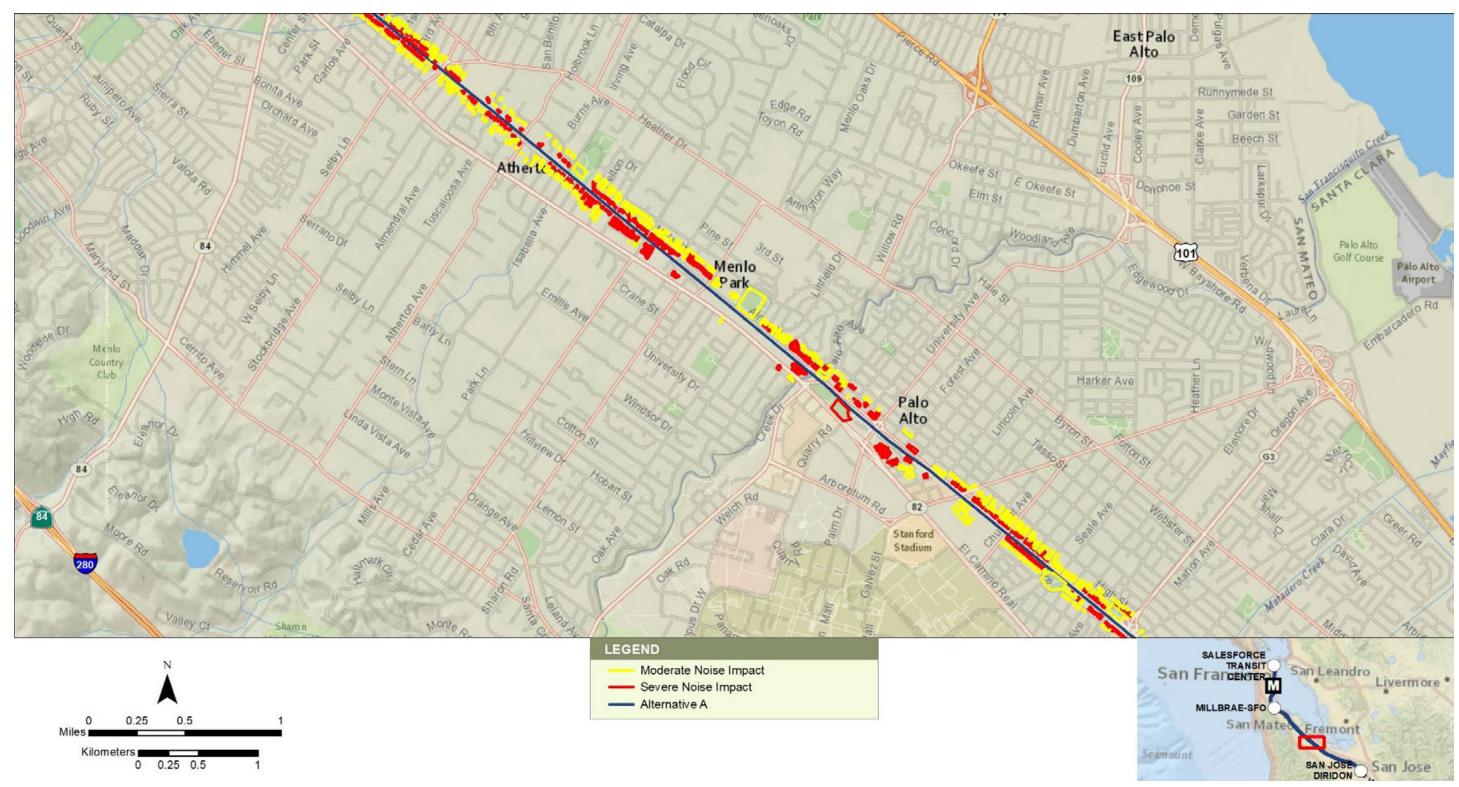


Figure C-27 2040 Plus Project Noise Impacts—Alternative A

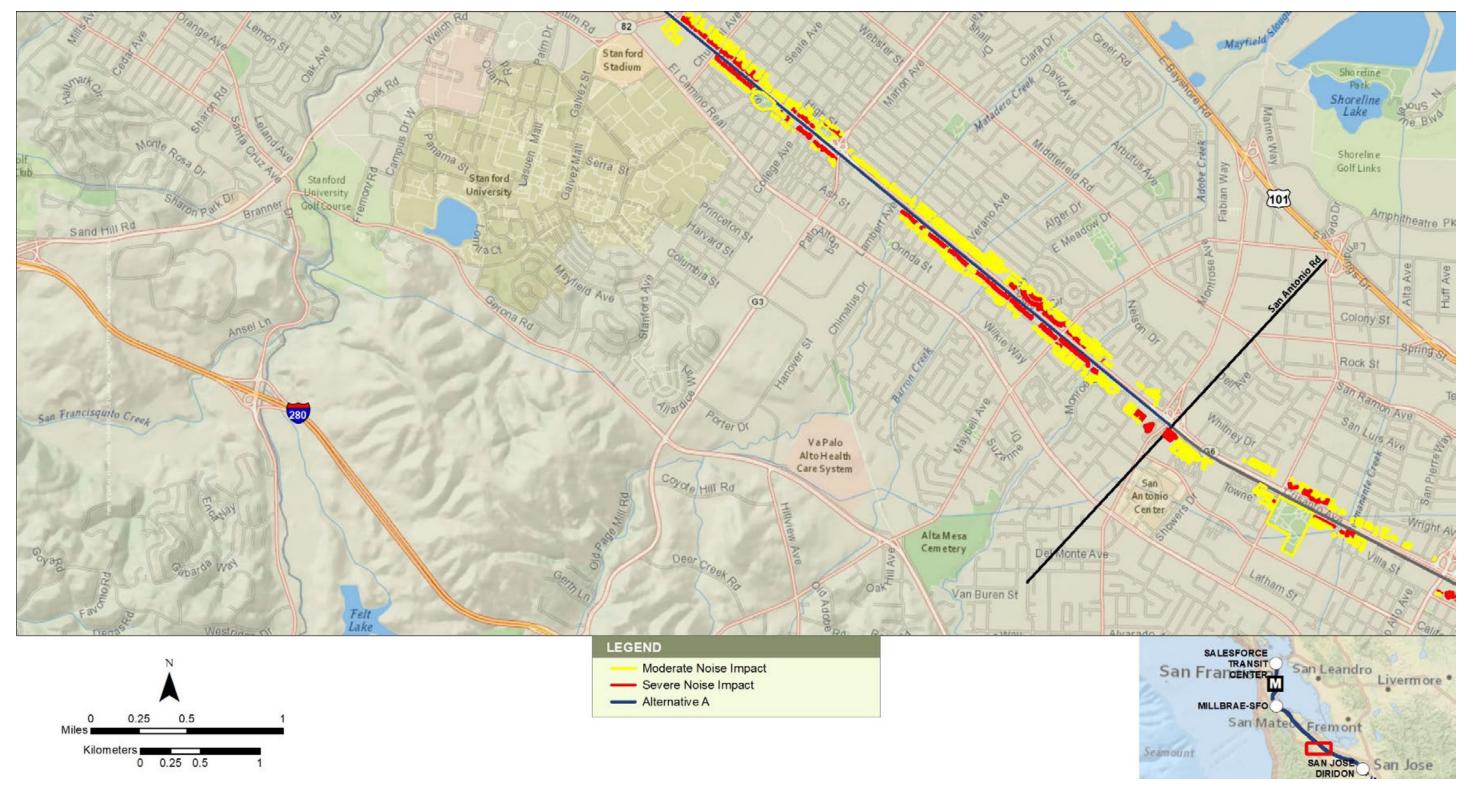




Figure C-28 2040 Plus Project Noise Impacts—Alternative A



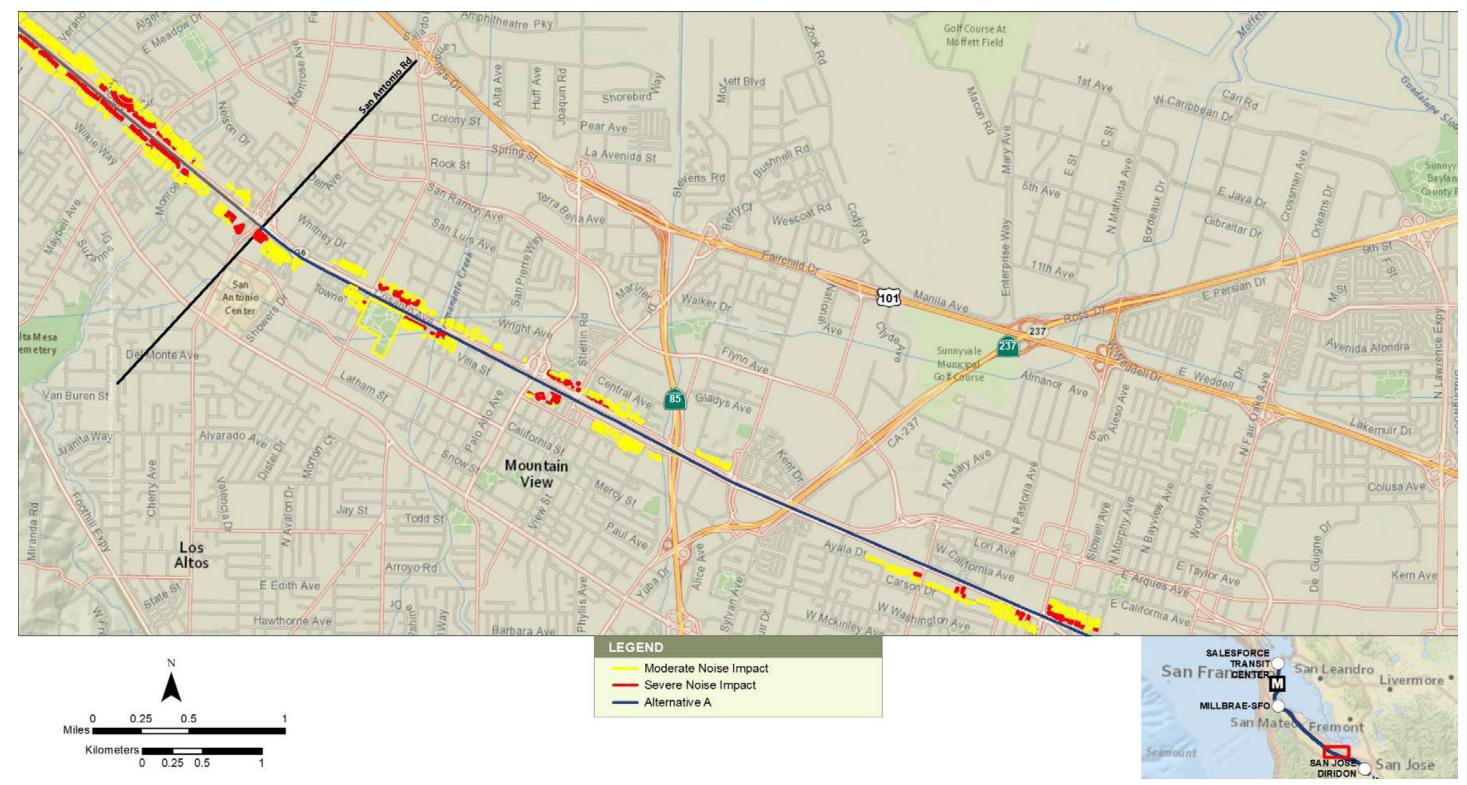


Figure C-29 2040 Plus Project Noise Impacts—Alternative A

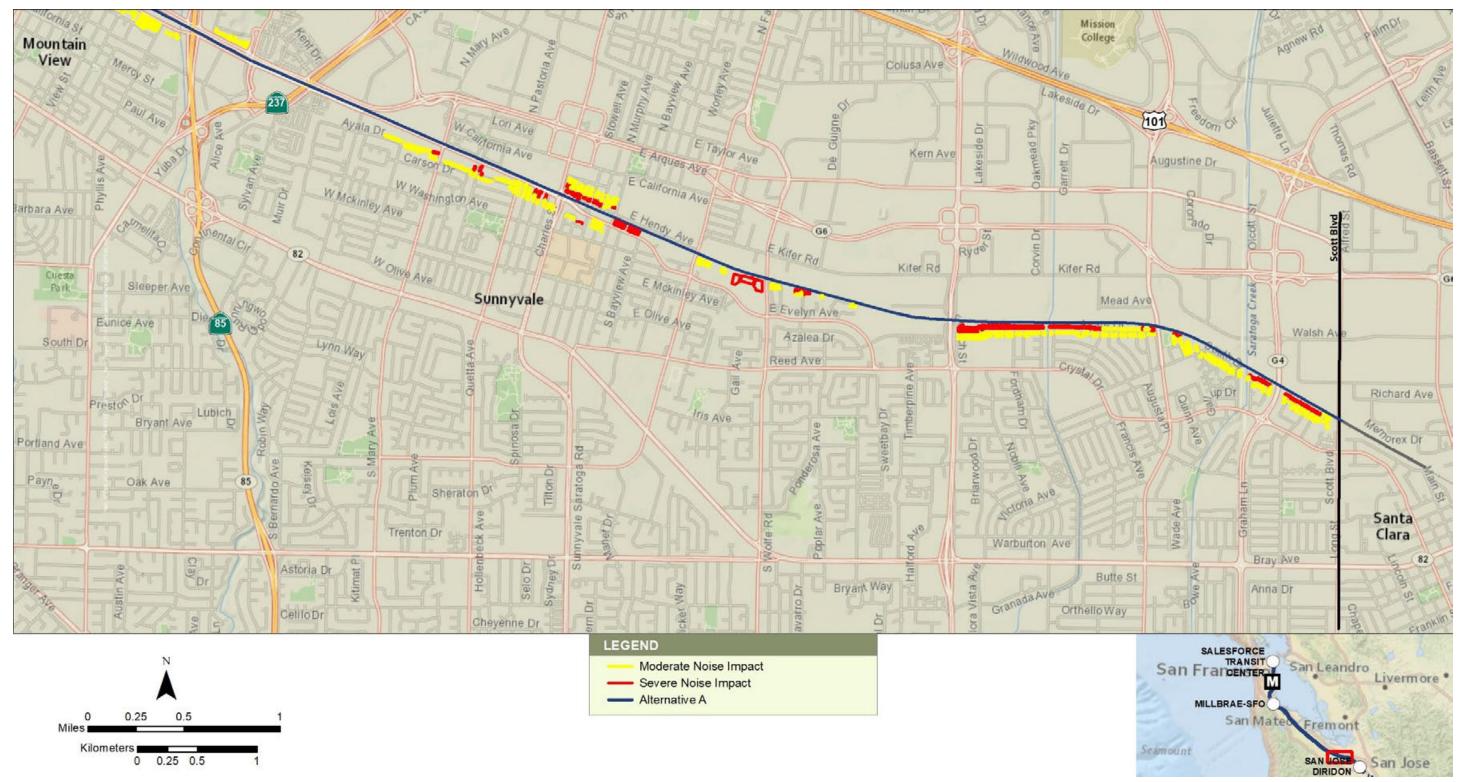




Figure C-30 2040 Plus Project Noise Impacts—Alternative A





Figure C-31 2040 Plus Project Noise Impacts—Alternative A





Figure C-32 2040 Plus Project Noise Impacts—Alternative A



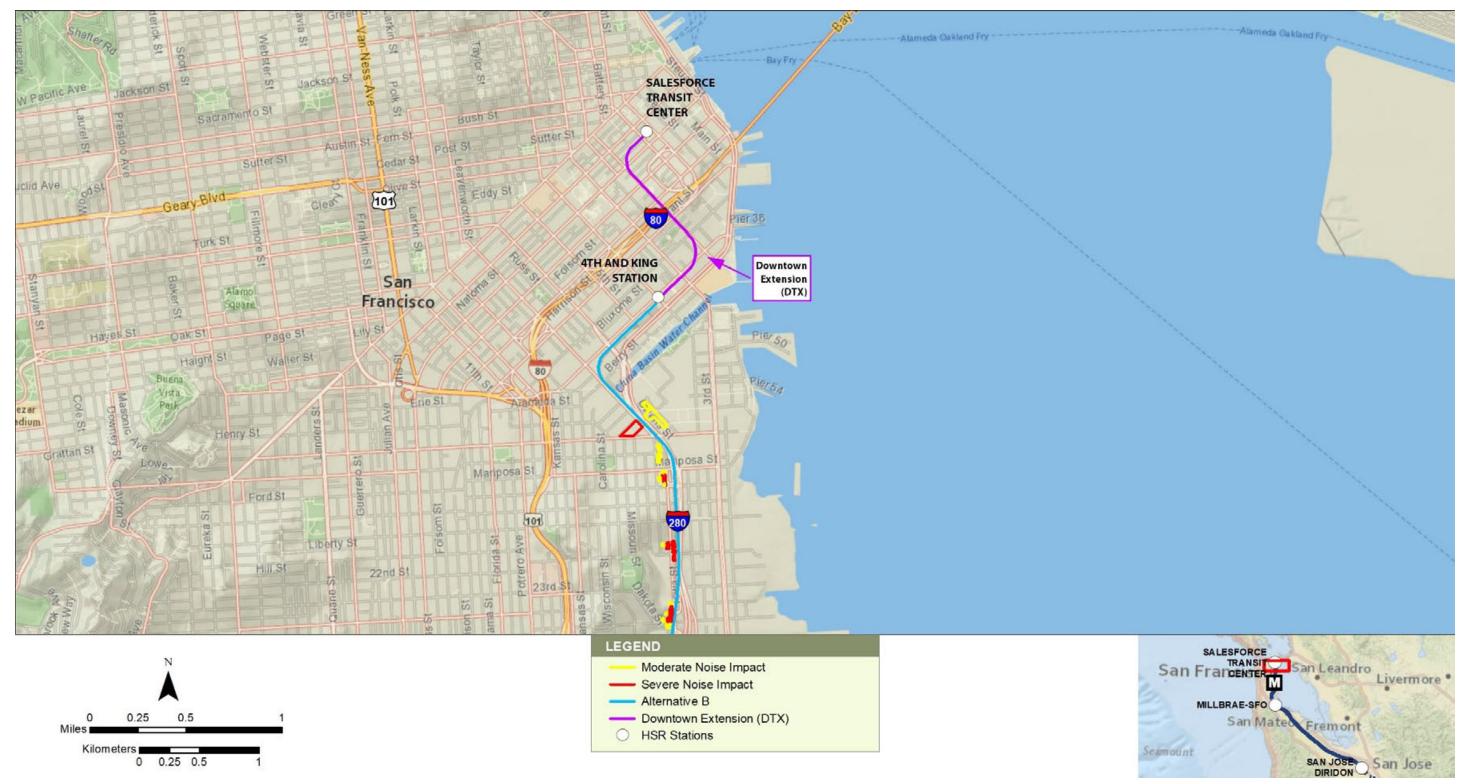


Figure C-33 2040 Plus Project Noise Impacts—Alternative B





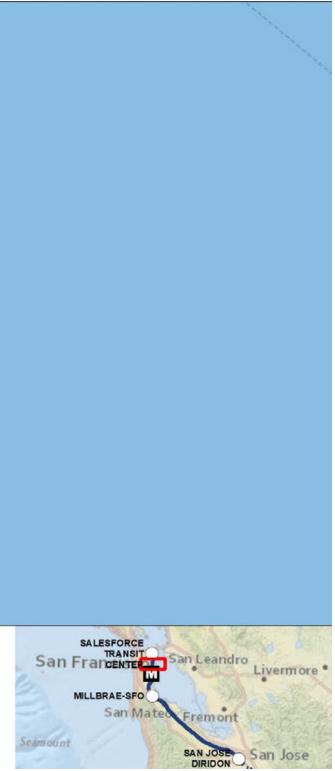
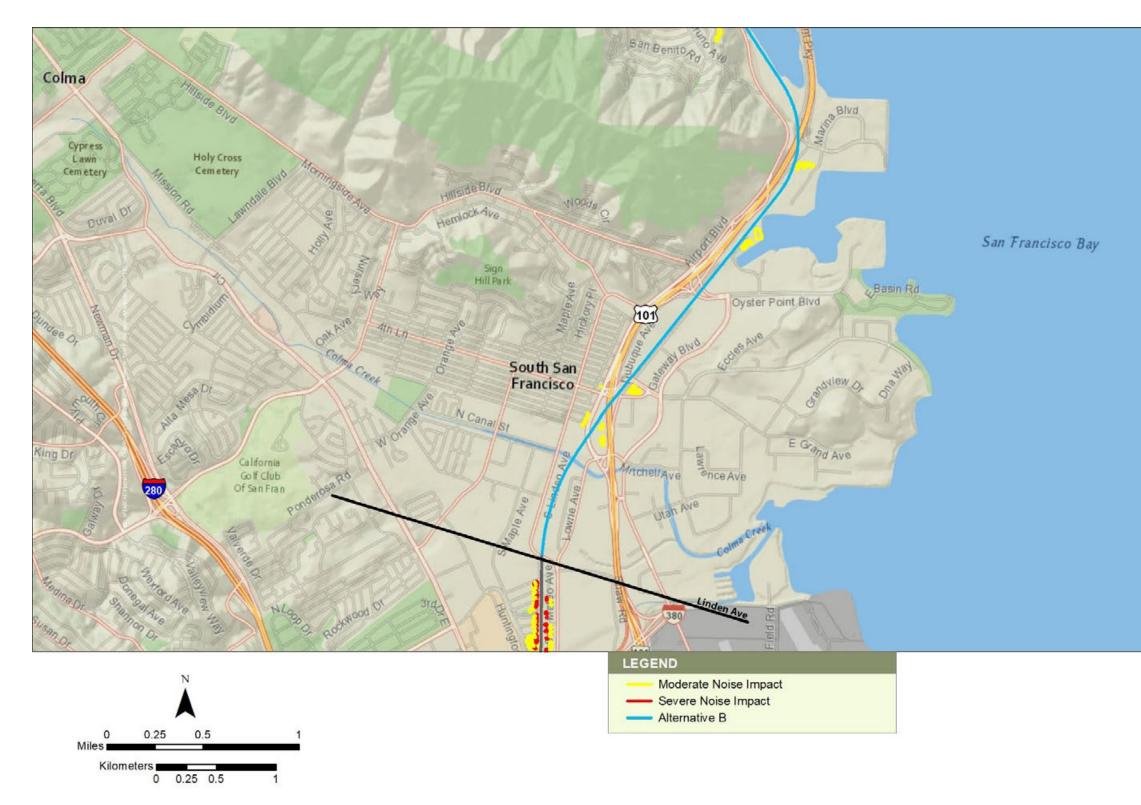


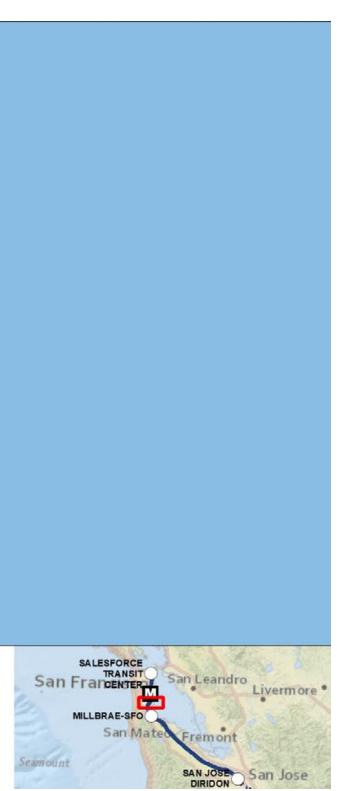
Figure C-34 2040 Plus Project Noise Impacts— Alternative B





Figure C-35 2040 Plus Project Noise Impacts— Alternative B





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Figure C-36 2040 Plus Project Noise Impacts— Alternative B



Figure C-37 2040 Plus Project Noise Impacts— Alternative B

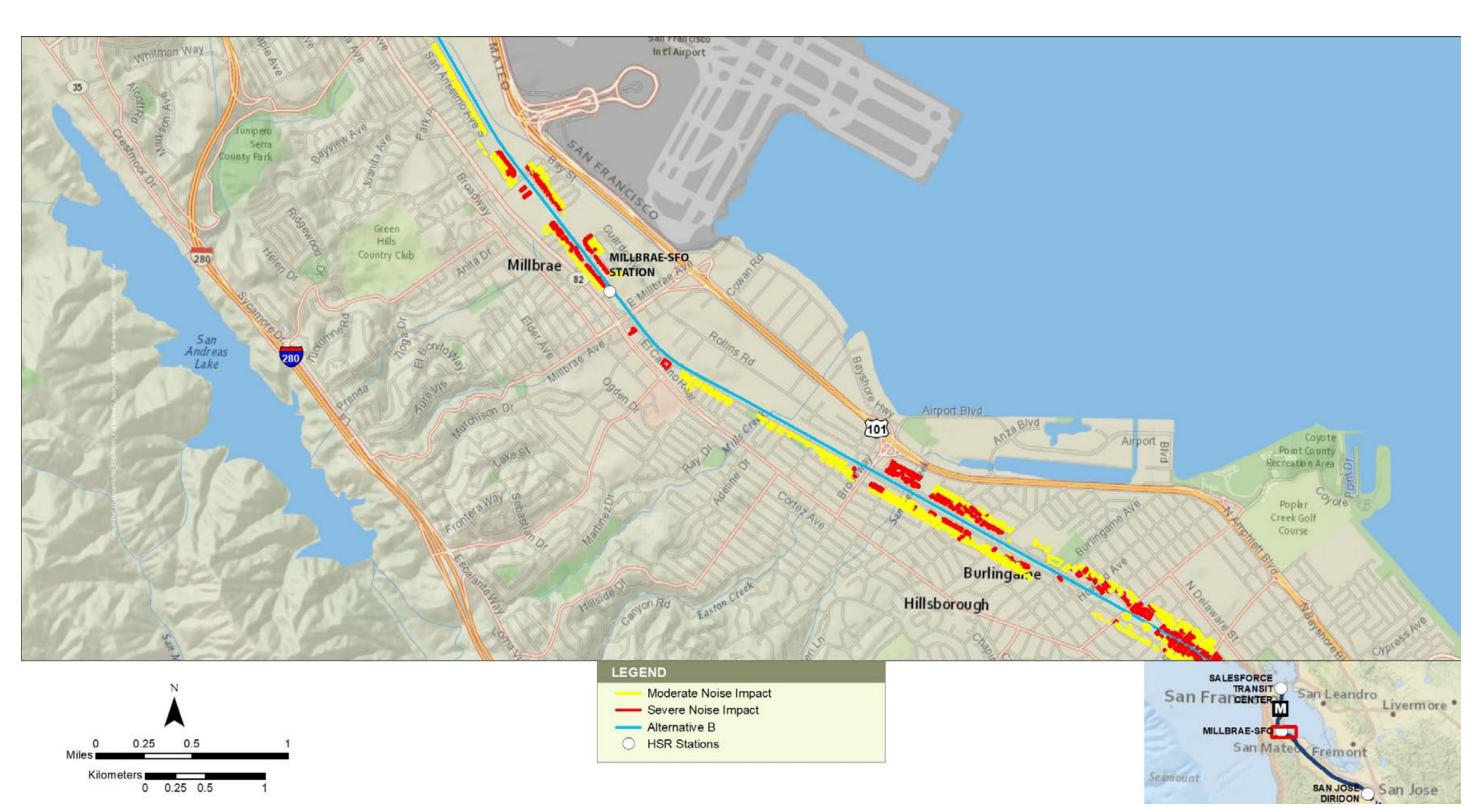


Figure C-38 2040 Plus Project Noise Impacts— Alternative B

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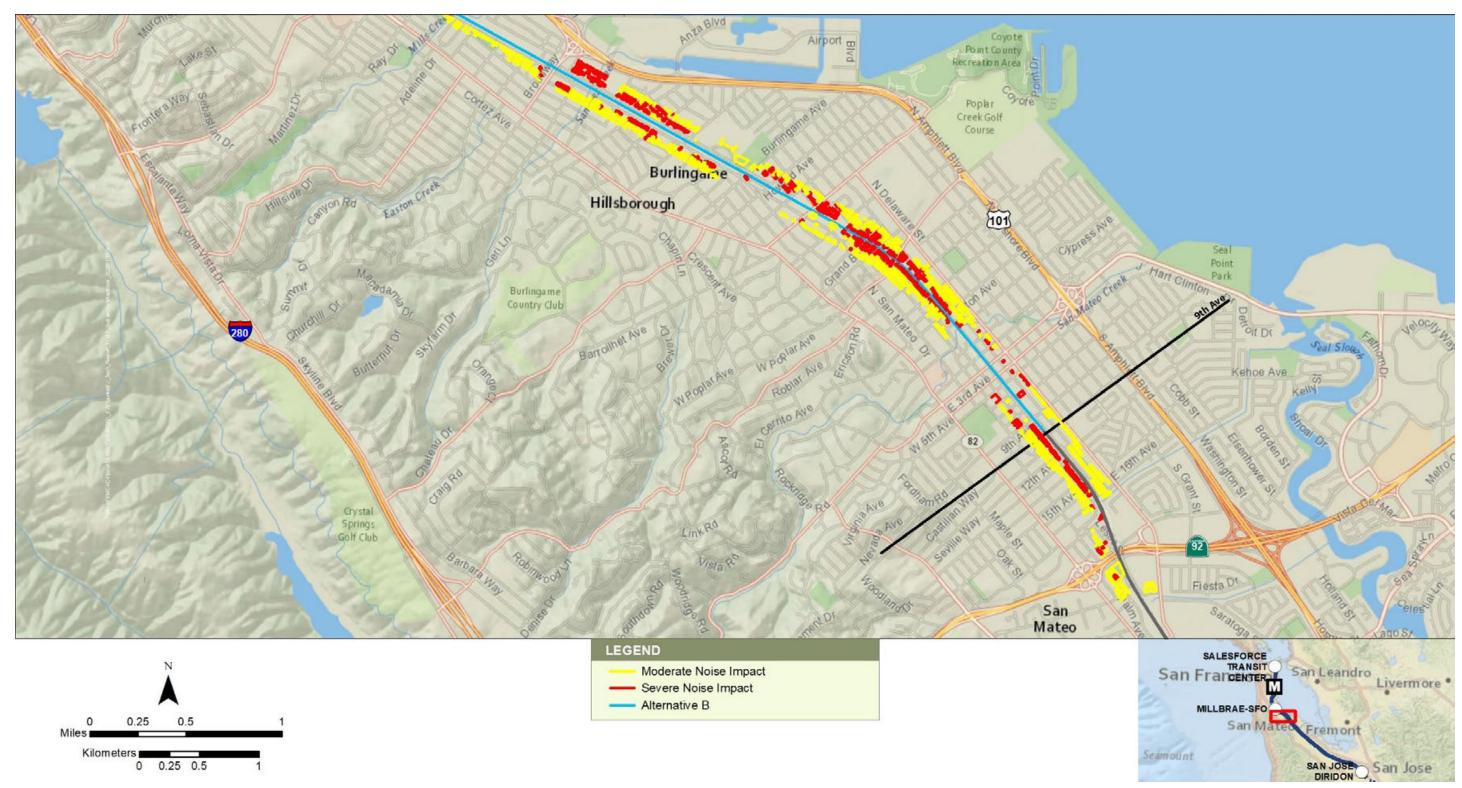


Figure C-39 2040 Plus Project Noise Impacts— Alternative B



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Figure C-40 2040 Plus Project Noise Impacts— Alternative B



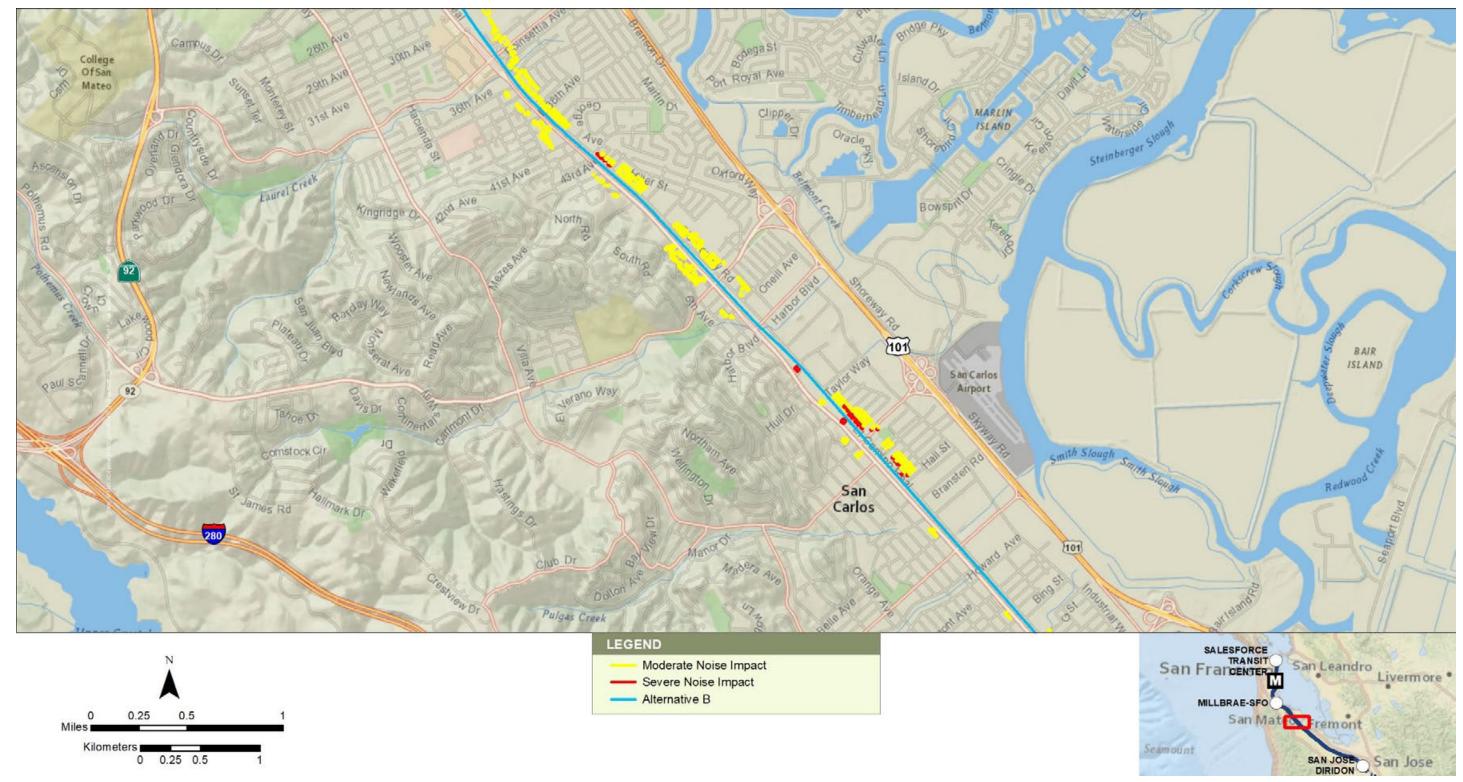


Figure C-41 2040 Plus Project Noise Impacts— Alternative B

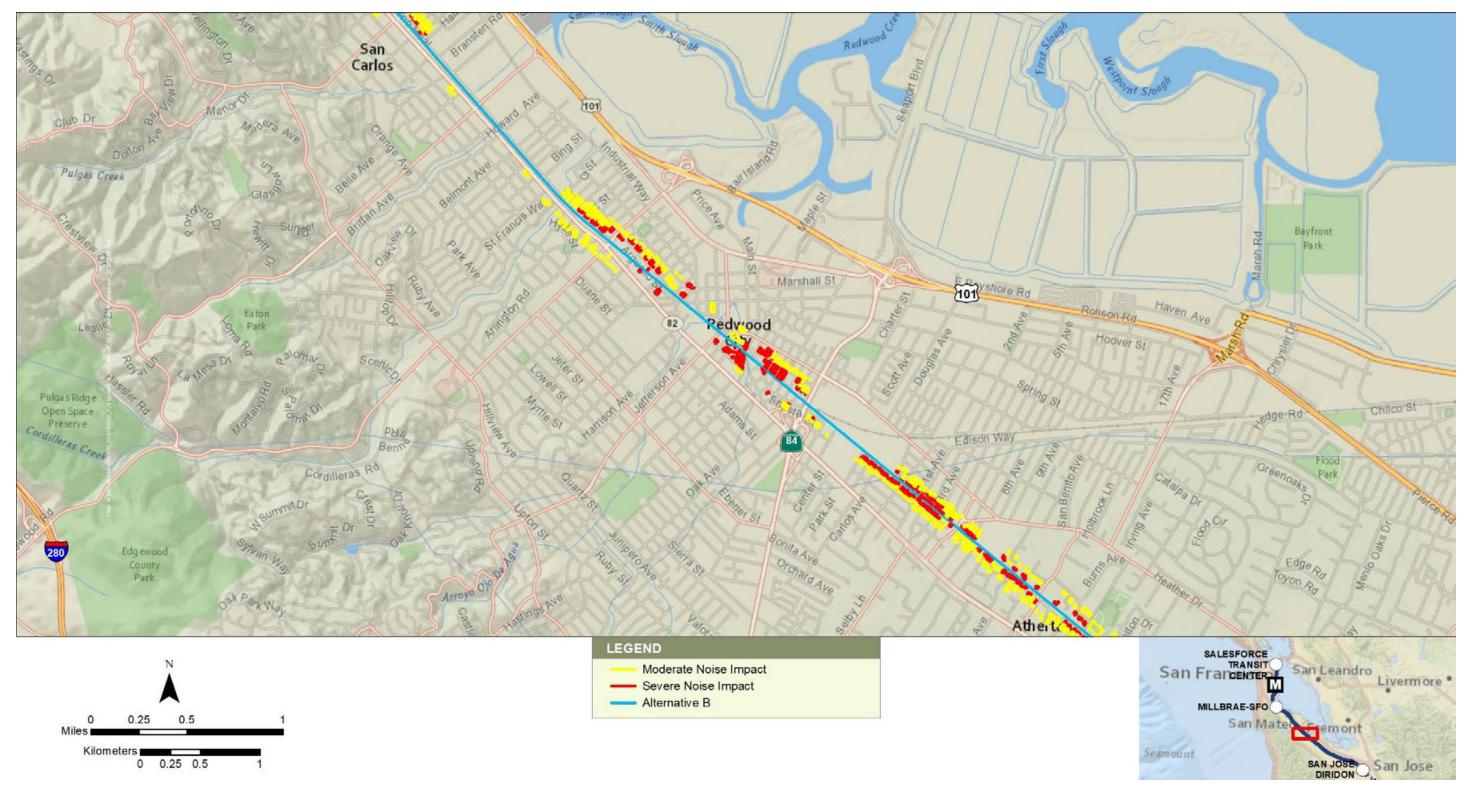




Figure C-42 2040 Plus Project Noise Impacts— Alternative B

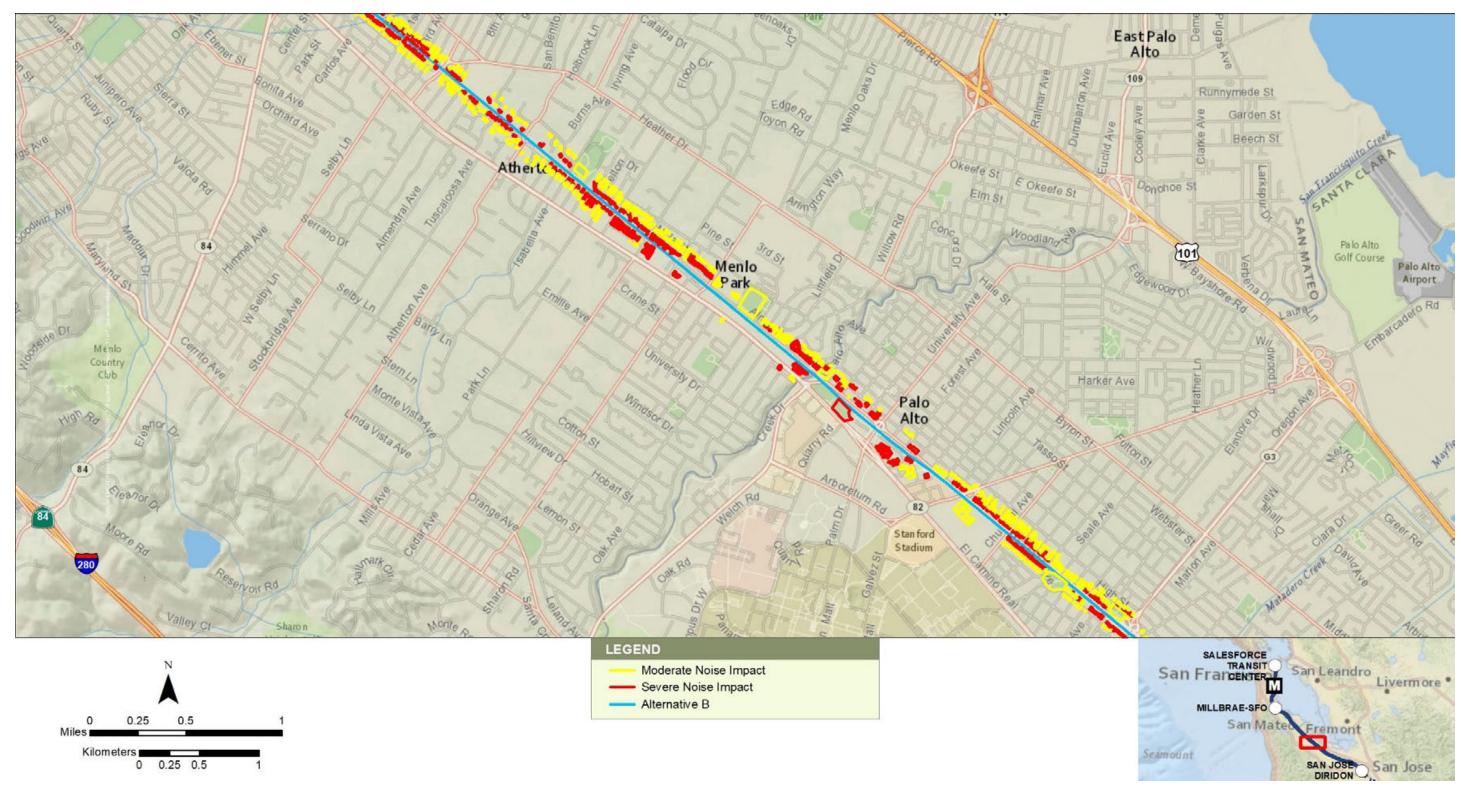


Figure C-43 2040 Plus Project Noise Impacts— Alternative B

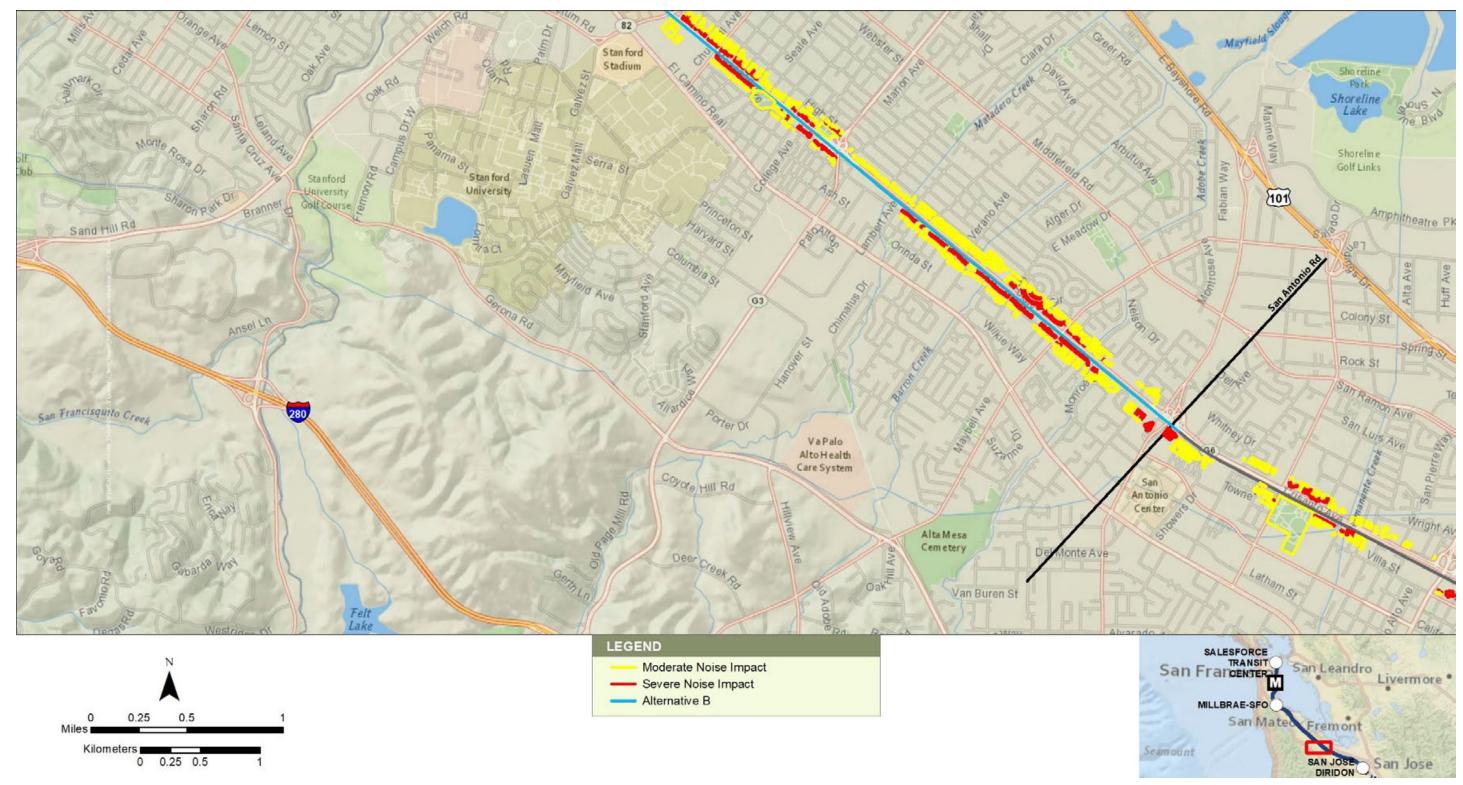




Figure C-44 2040 Plus Project Noise Impacts— Alternative B



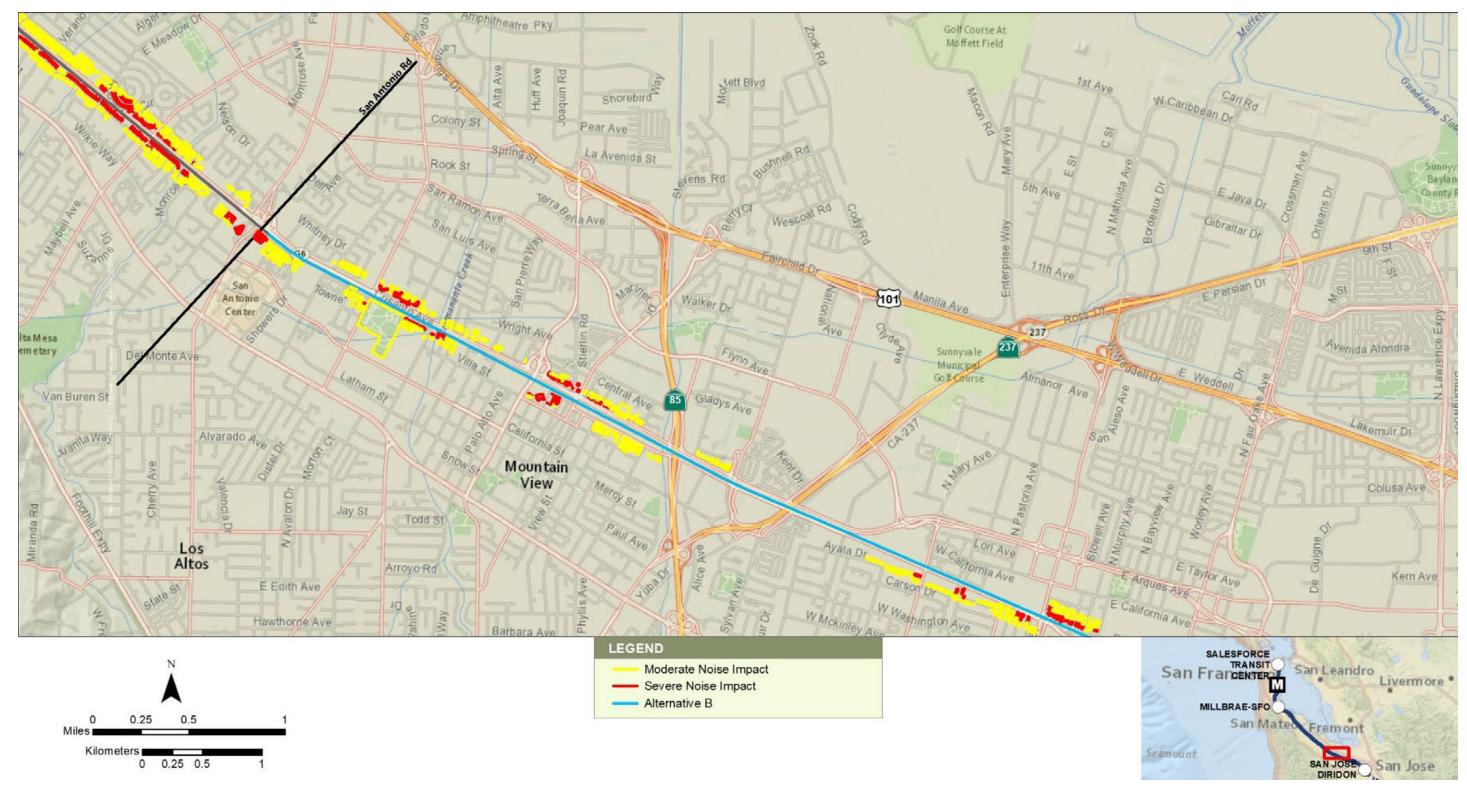


Figure C-45 2040 Plus Project Noise Impacts— Alternative B

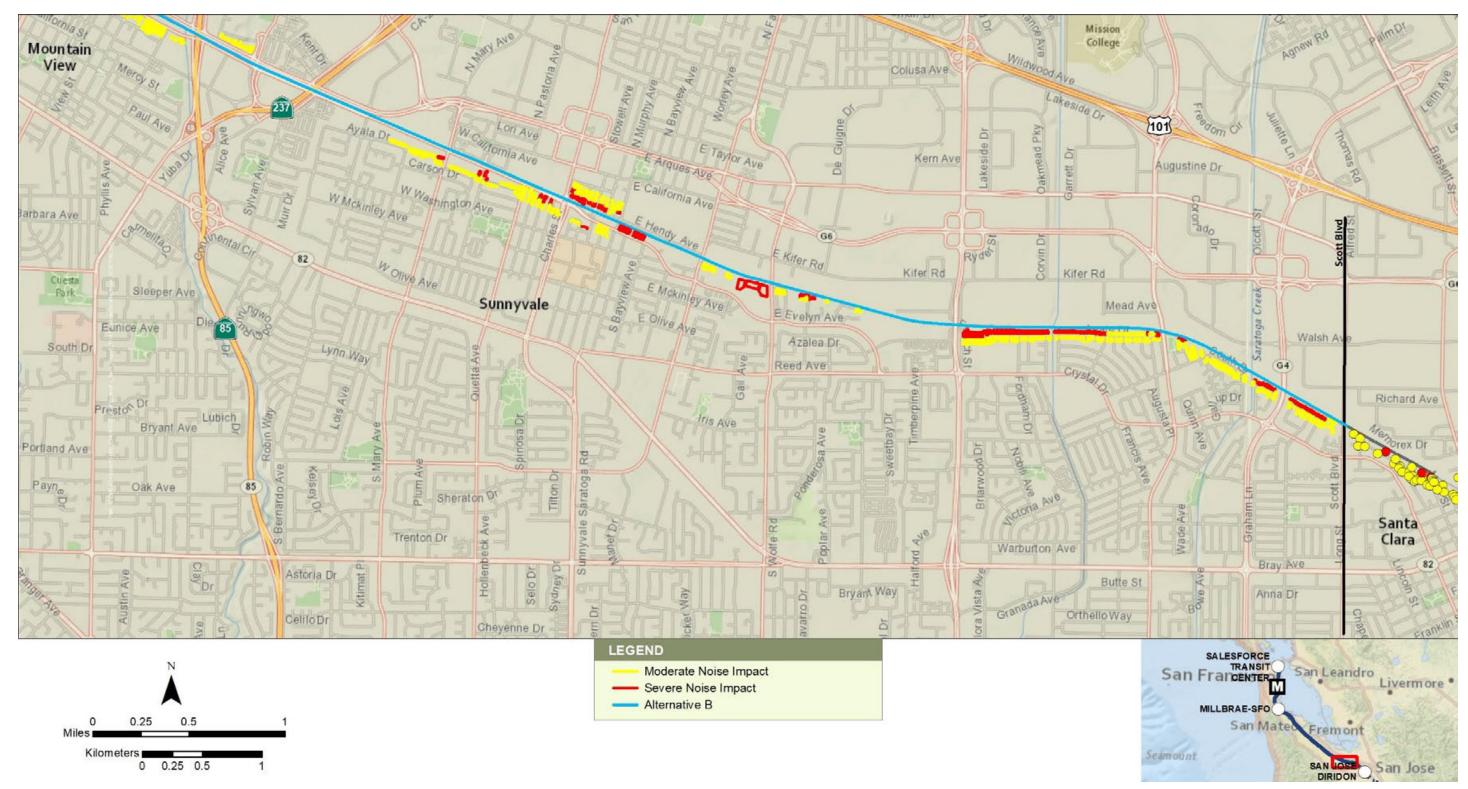




Figure C-46 2040 Plus Project Noise Impacts— Alternative B (Viaduct to I-880)





Figure C-47 2040 Plus Project Noise Impacts— Alternative B (Viaduct to I-880)

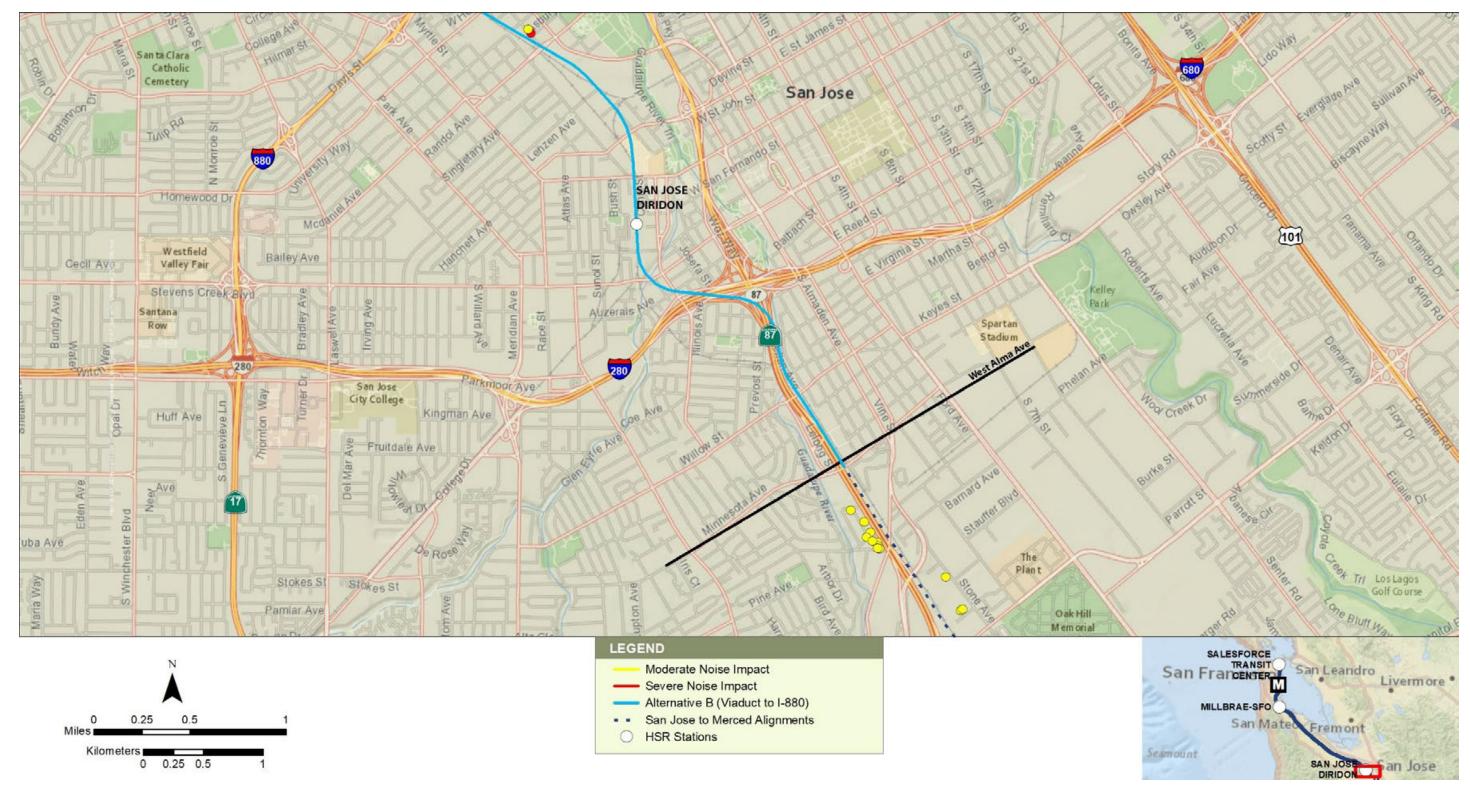




Figure C-48 2040 Plus Project Noise Impacts— Alternative B (Viaduct to I-880)



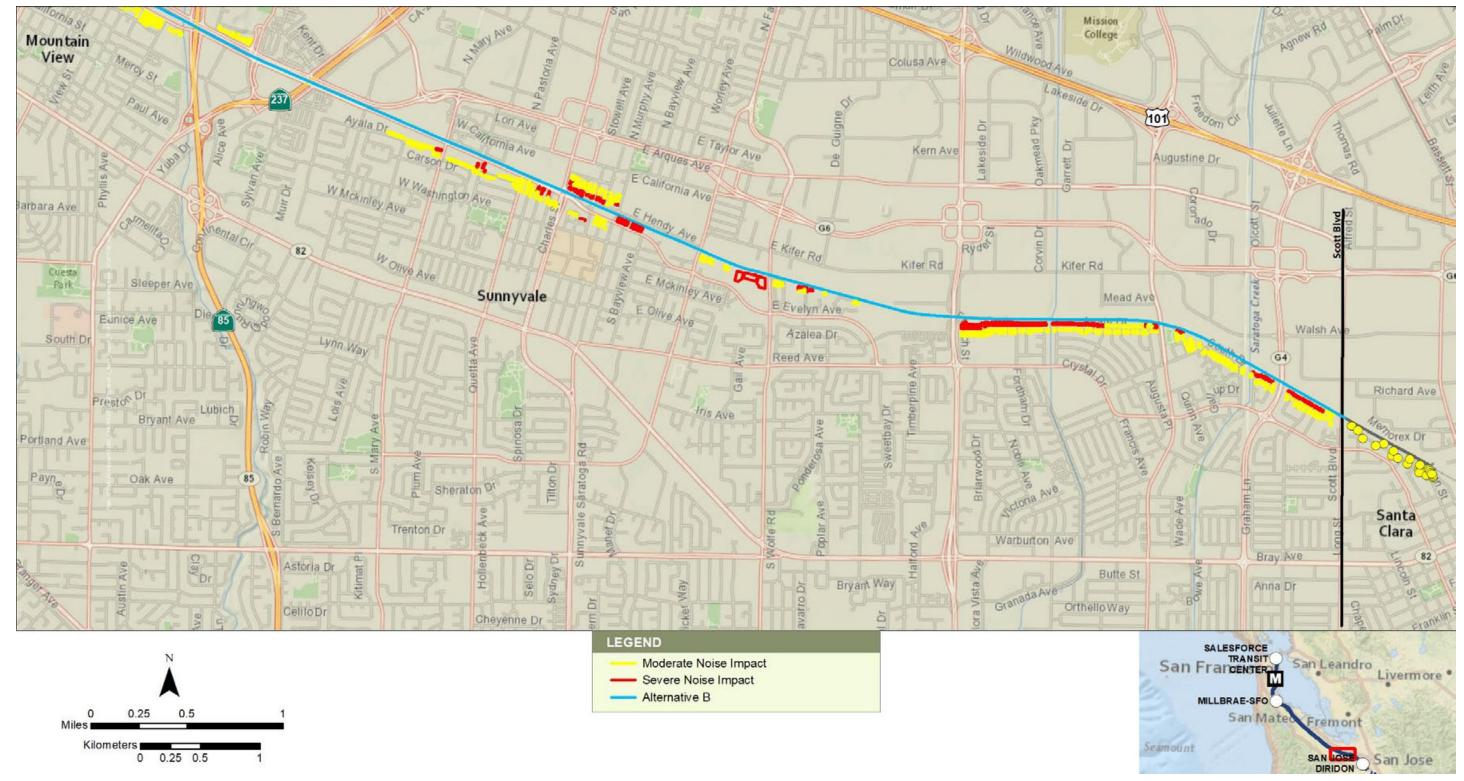


Figure C-49 2040 Plus Project Noise Impacts— Alternative B (Viaduct to Scott Boulevard)

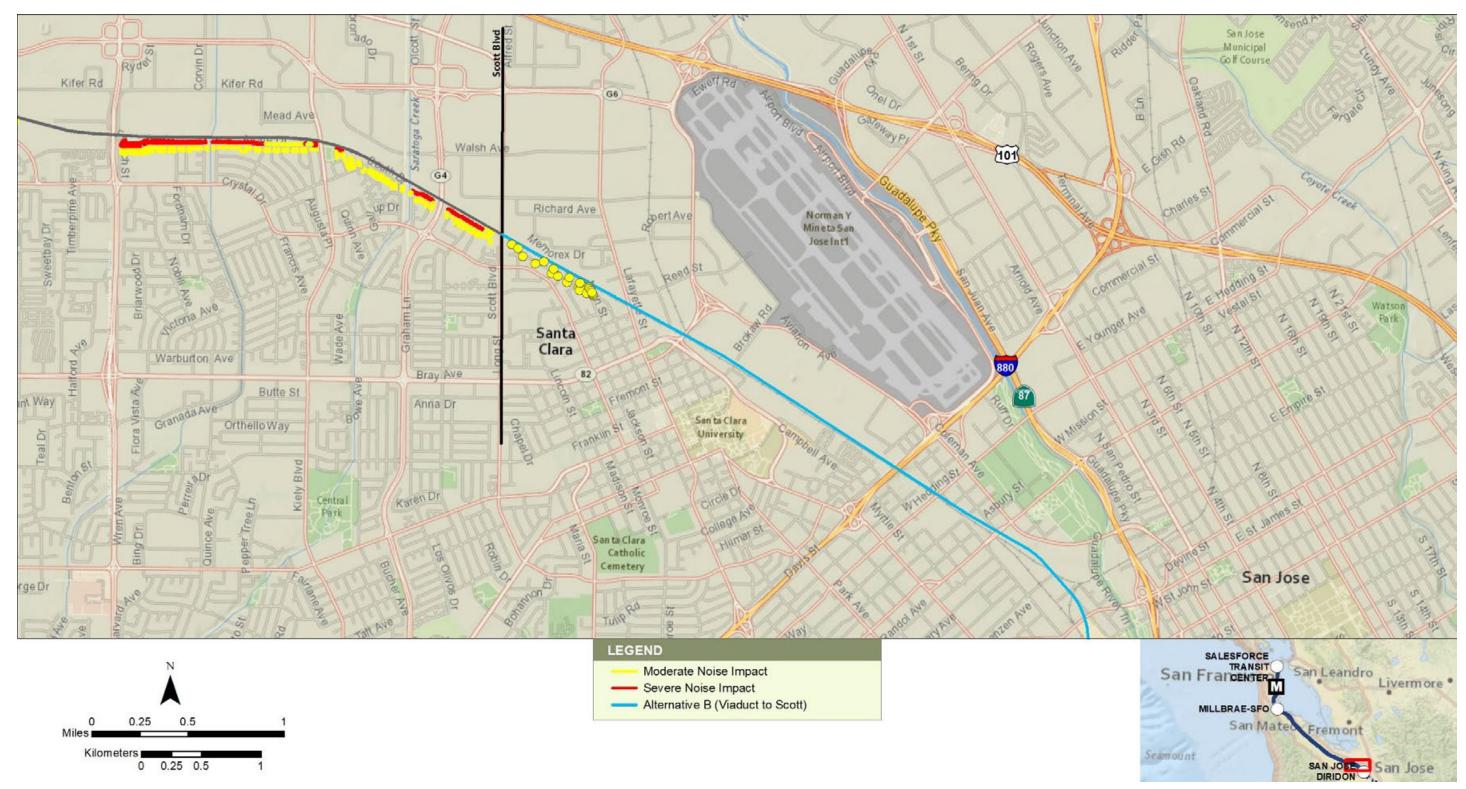




Figure C-50 2040 Plus Project Noise Impacts—Alternative B (Viaduct to Scott Boulevard)

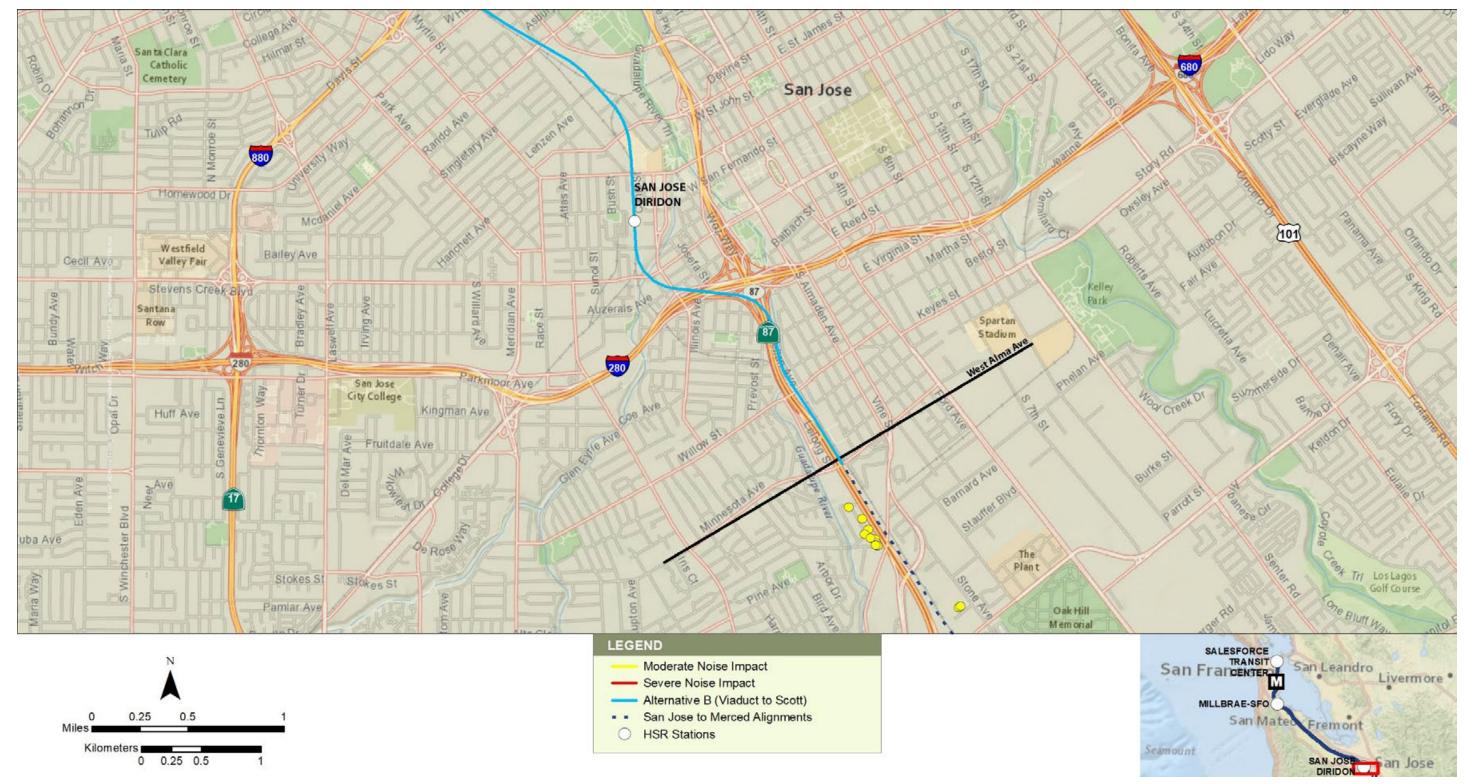


Figure C-51 2040 Plus Project Noise Impacts—Alternative B (Viaduct to Scott Boulevard)



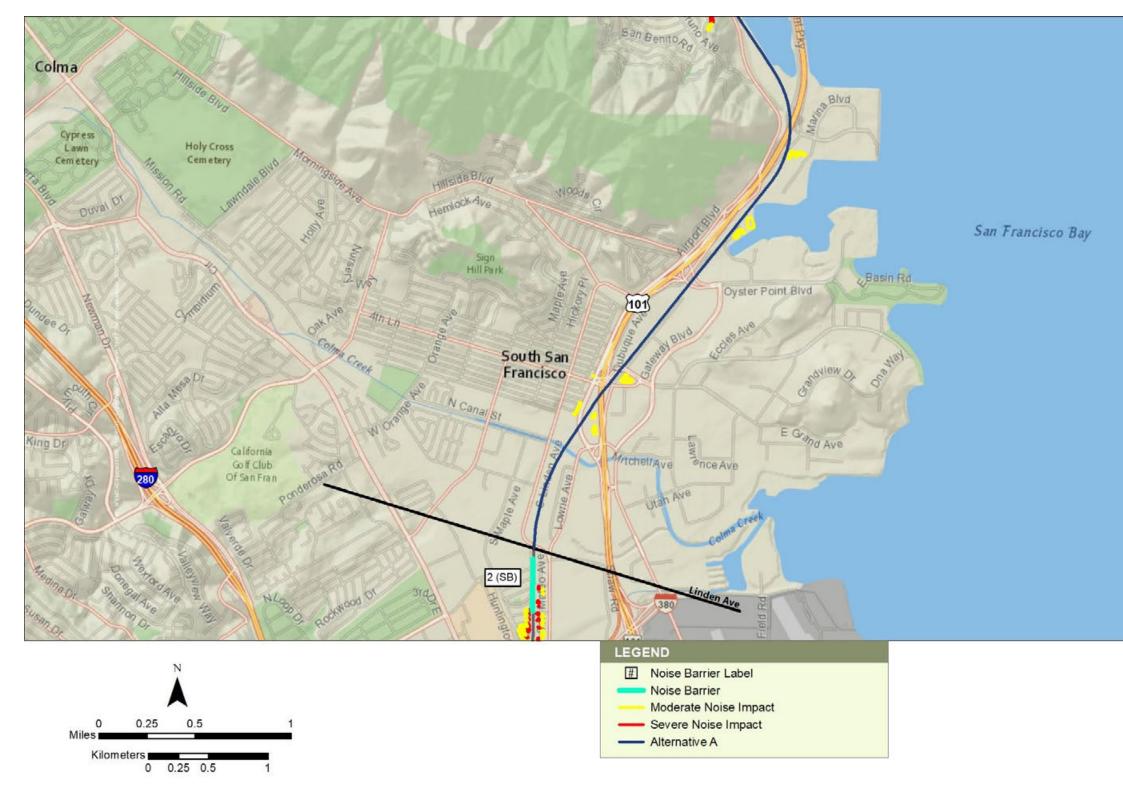
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Figure C-52 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative A





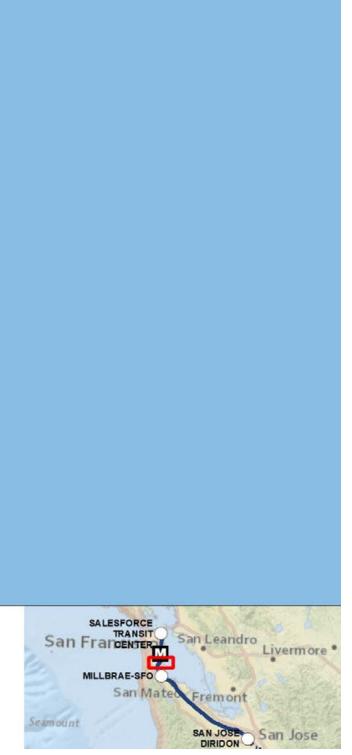


Figure C-53 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative A



Figure C-54 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative A

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Figure C-55 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative A

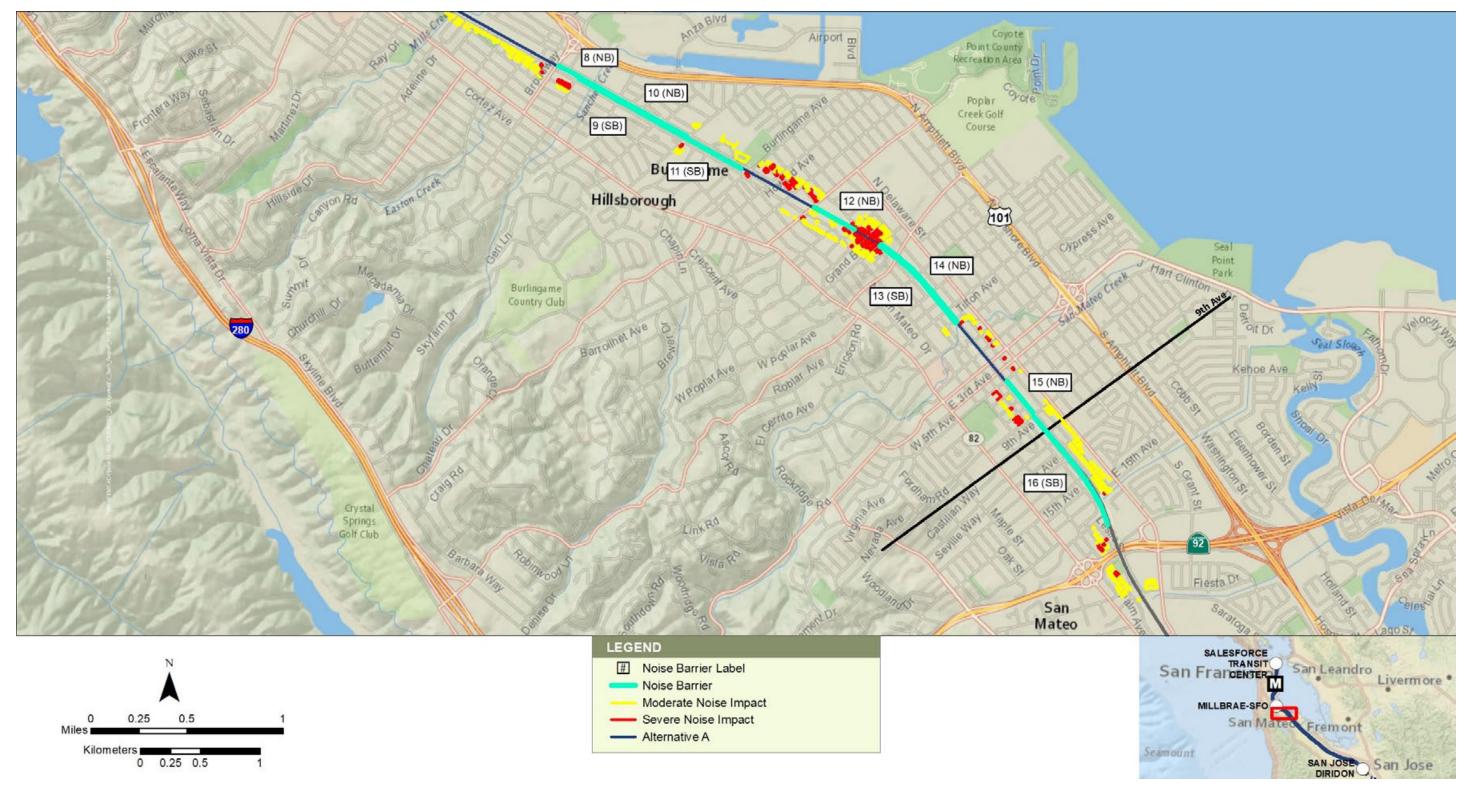




Figure C-56 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative A





Figure C-57 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative A

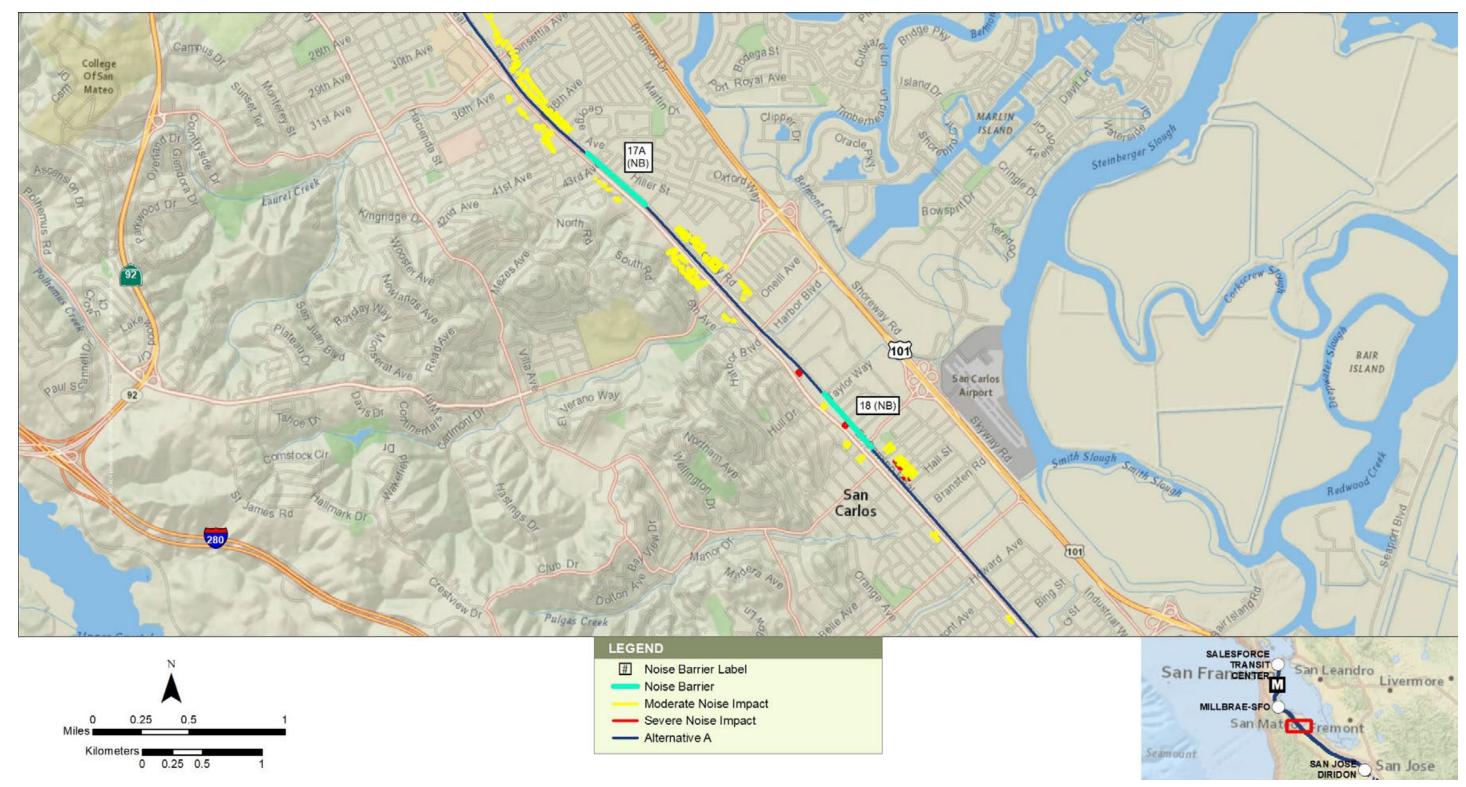




Figure C-58 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative A

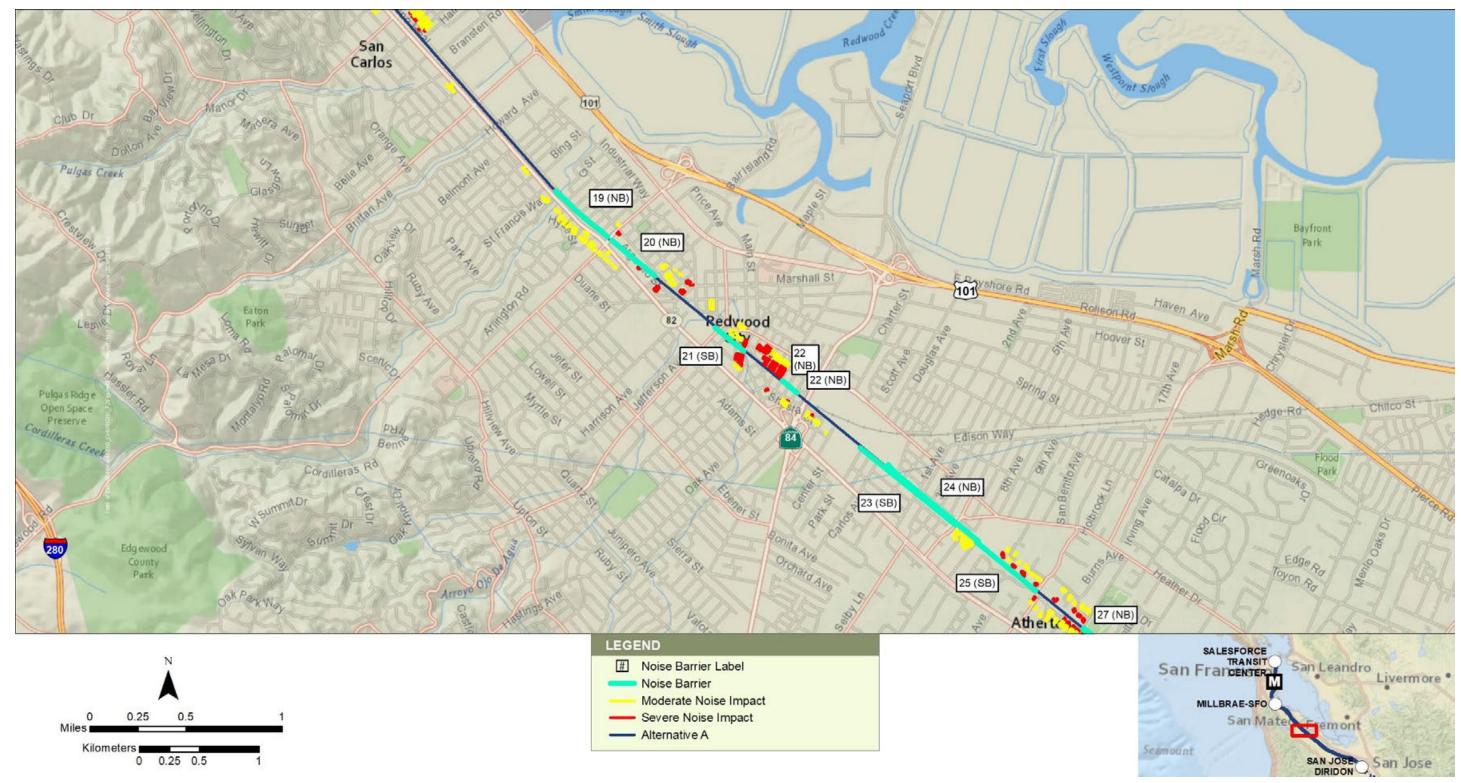


Figure C-59 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative A

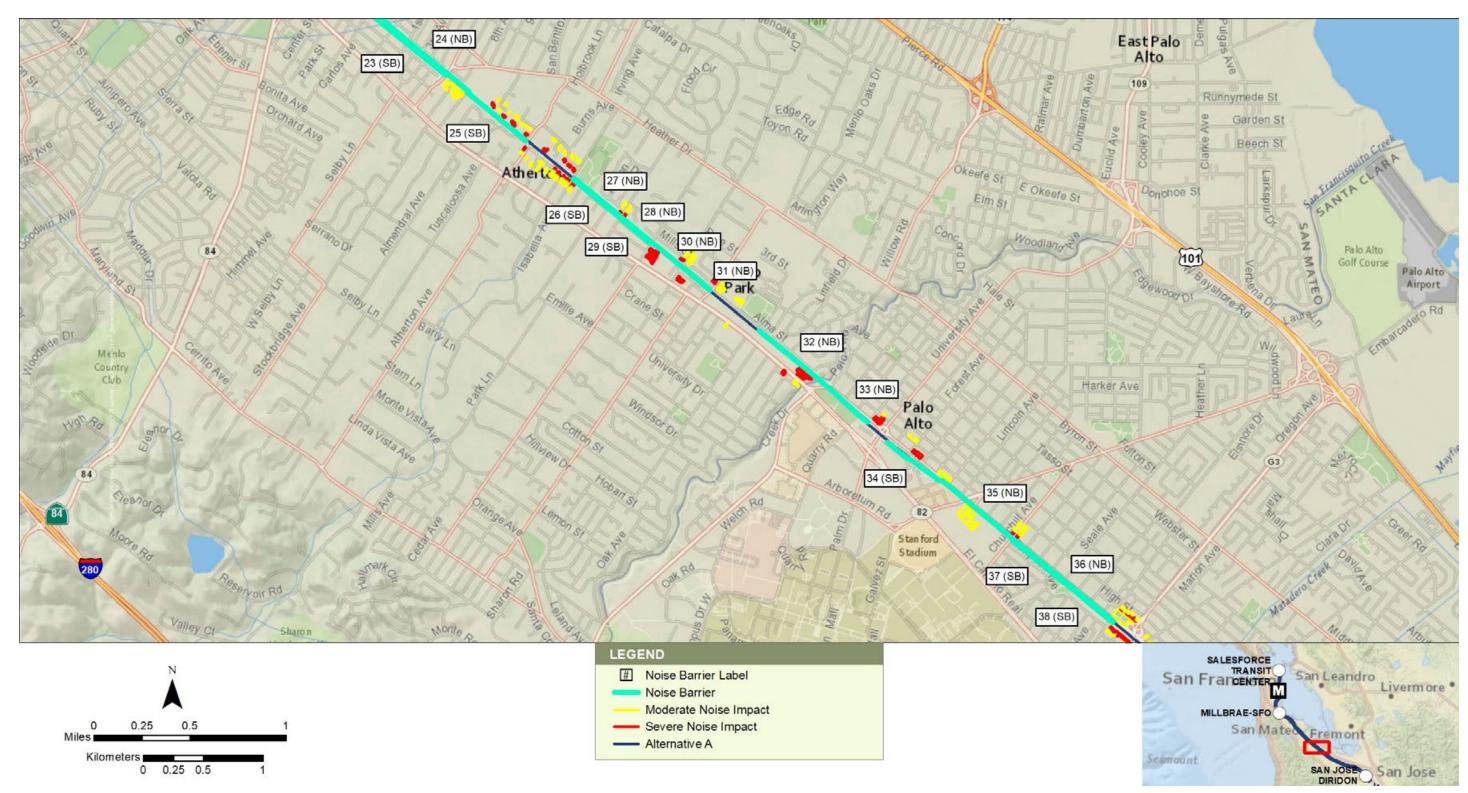




Figure C-60 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative A



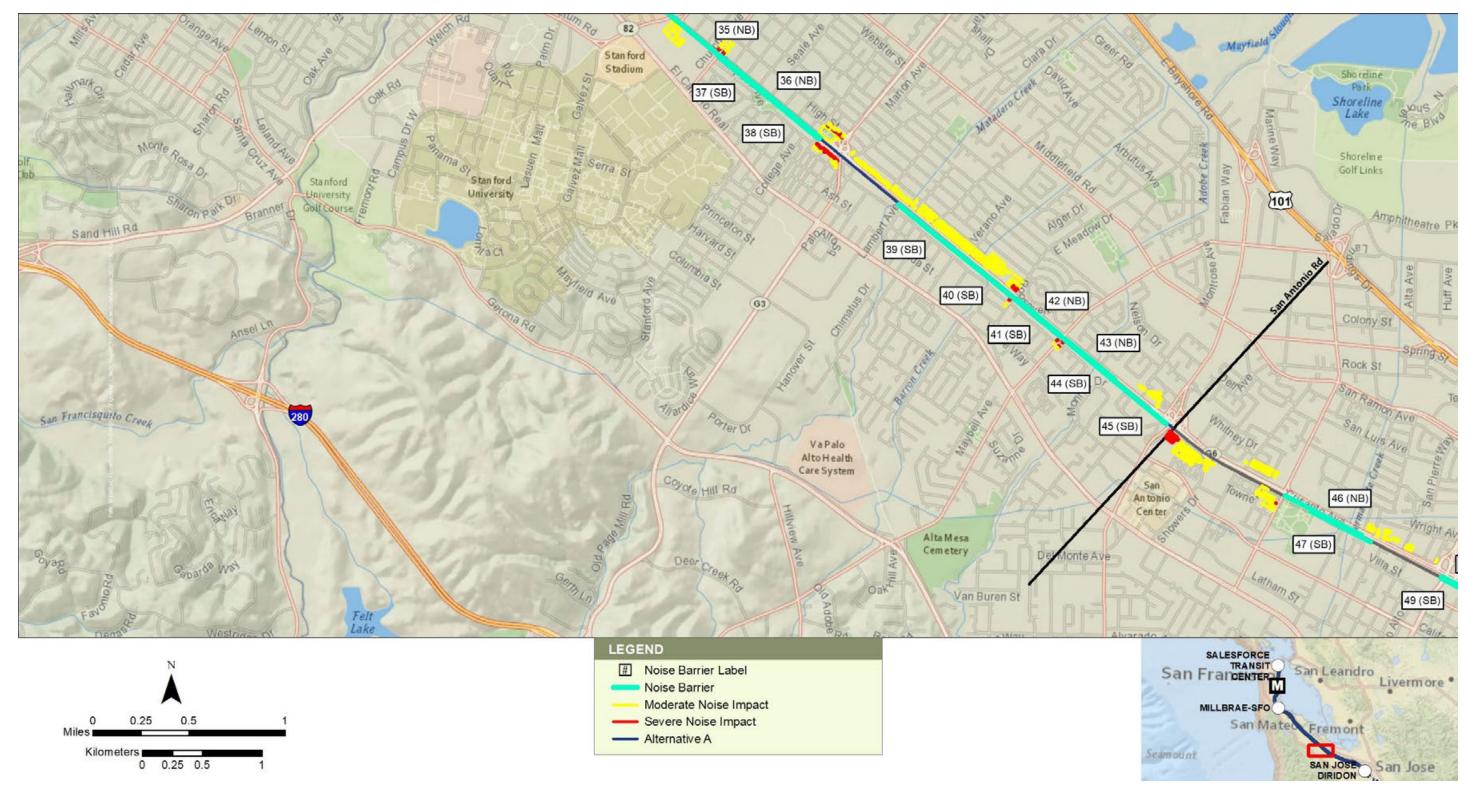


Figure C-61 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative A

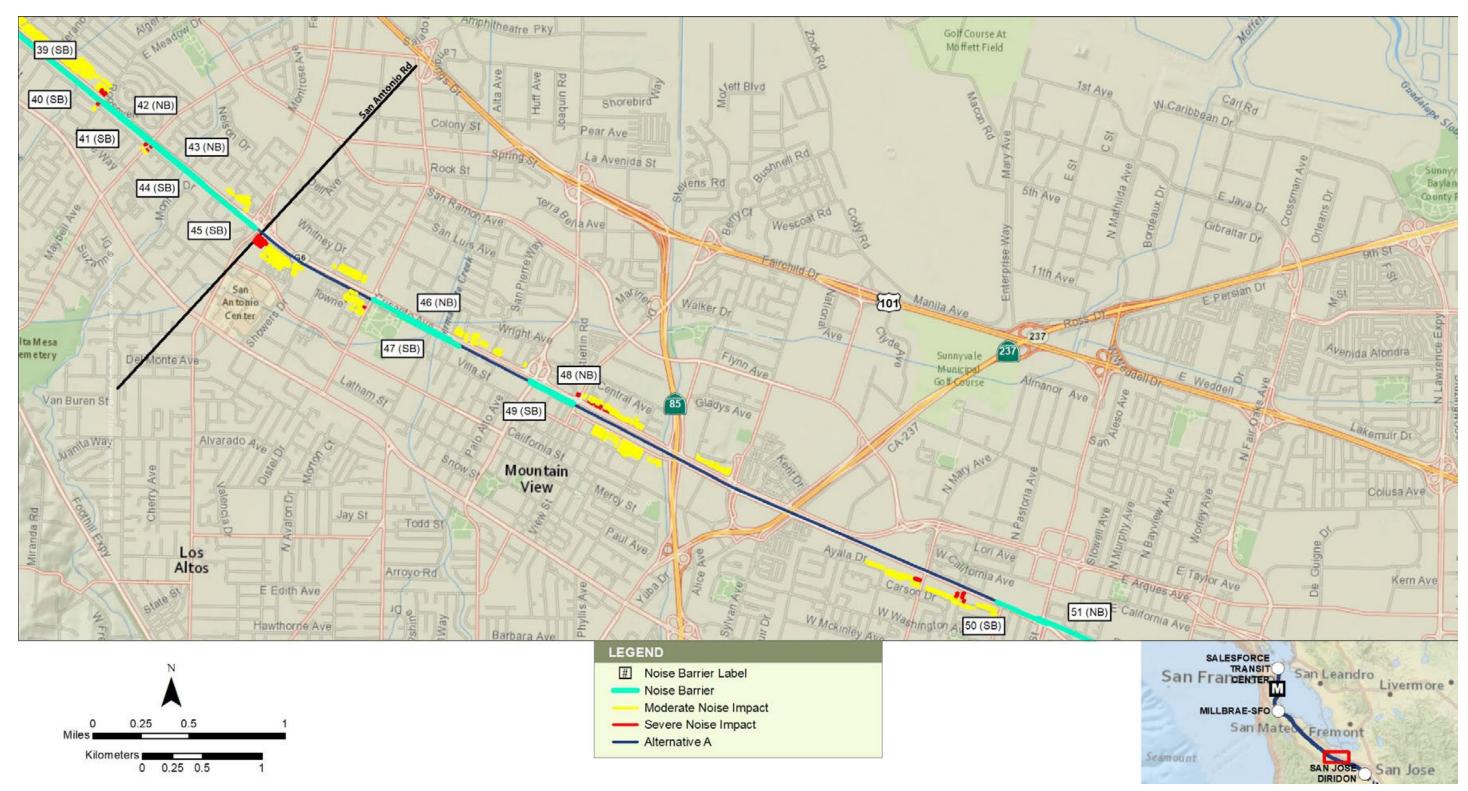




Figure C-62 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative A



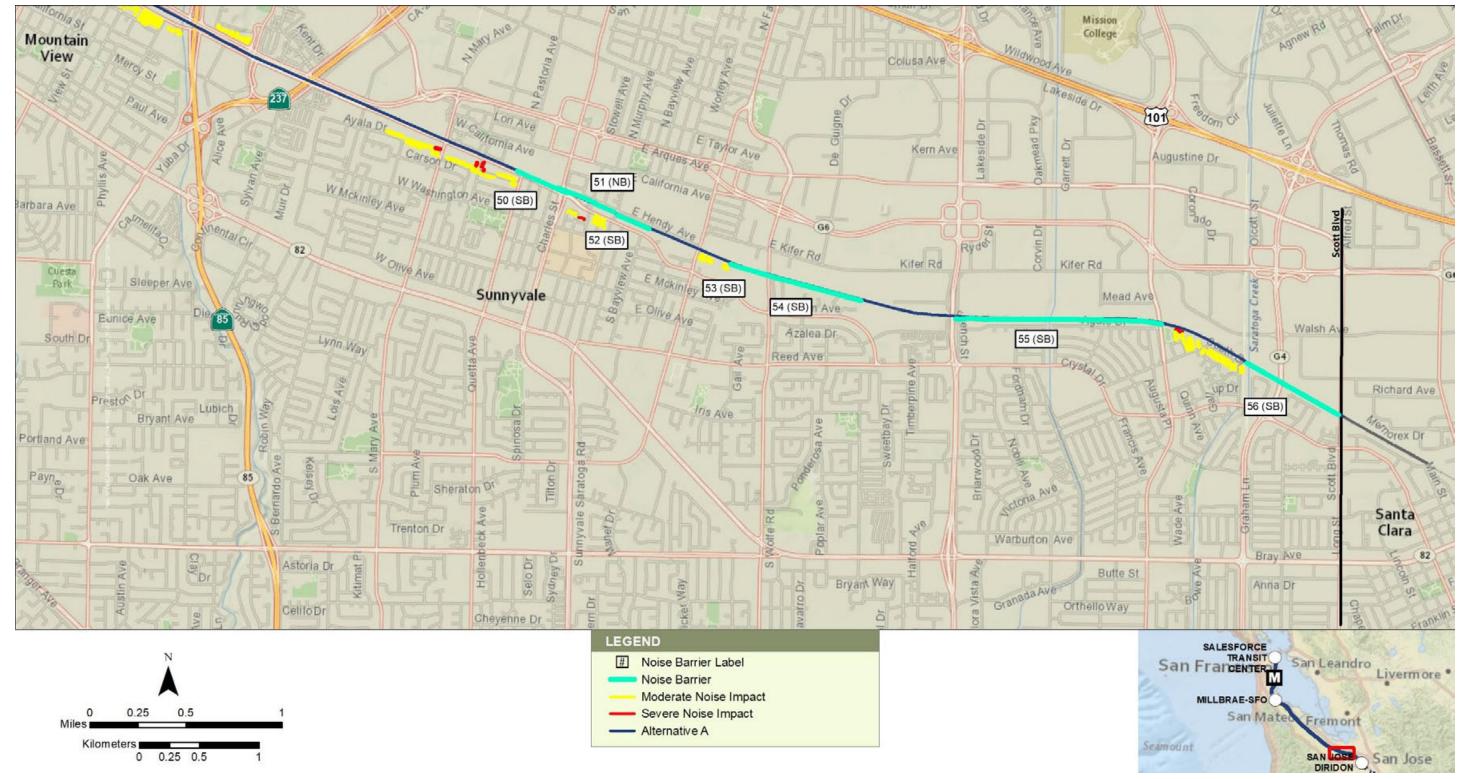


Figure C-63 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative A





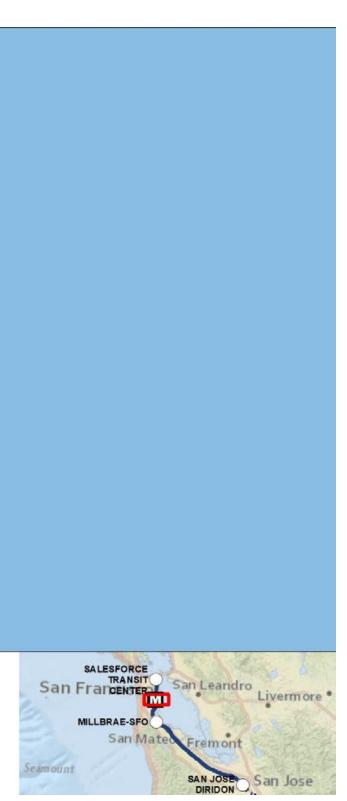
Figure C-64 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative A



Figure C-65 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative A

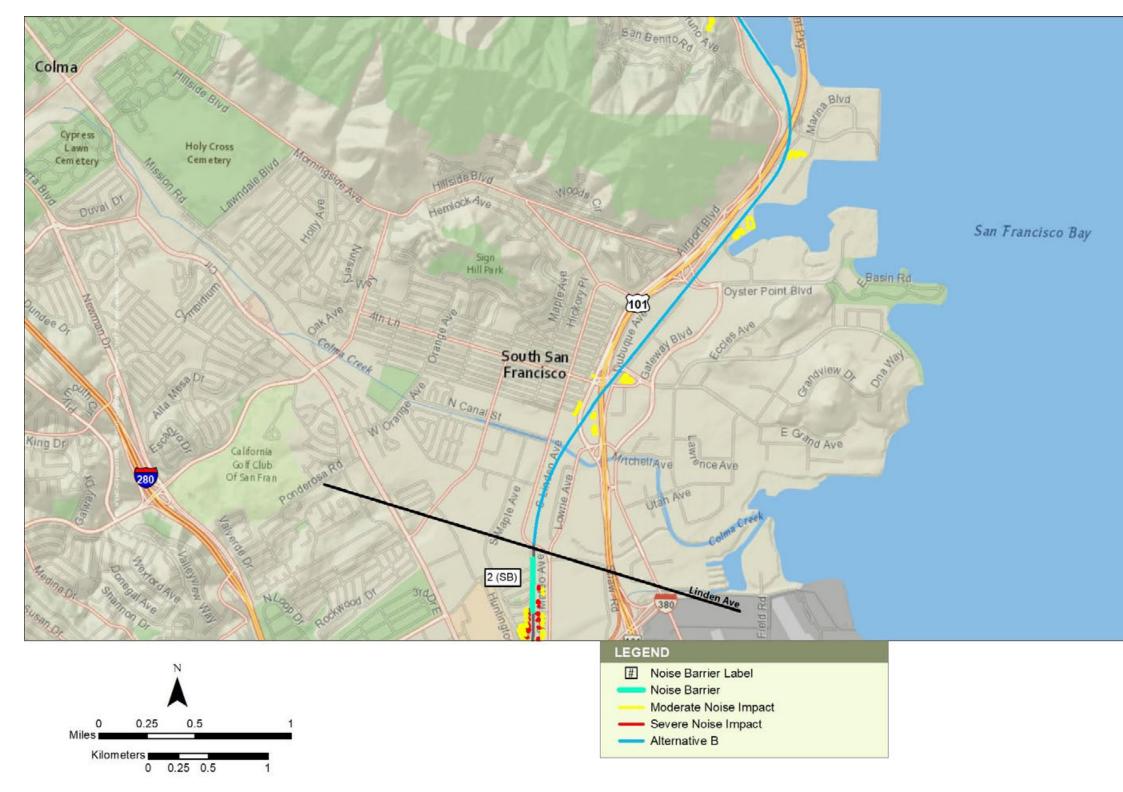


Figure C-66 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative B



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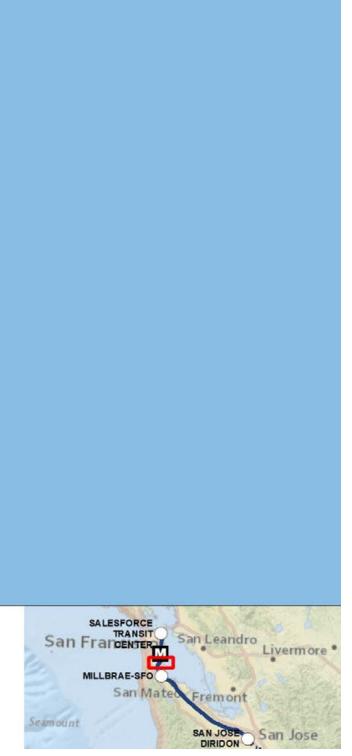


Figure C-67 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative B



Figure C-68 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative B

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Figure C-69 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative B

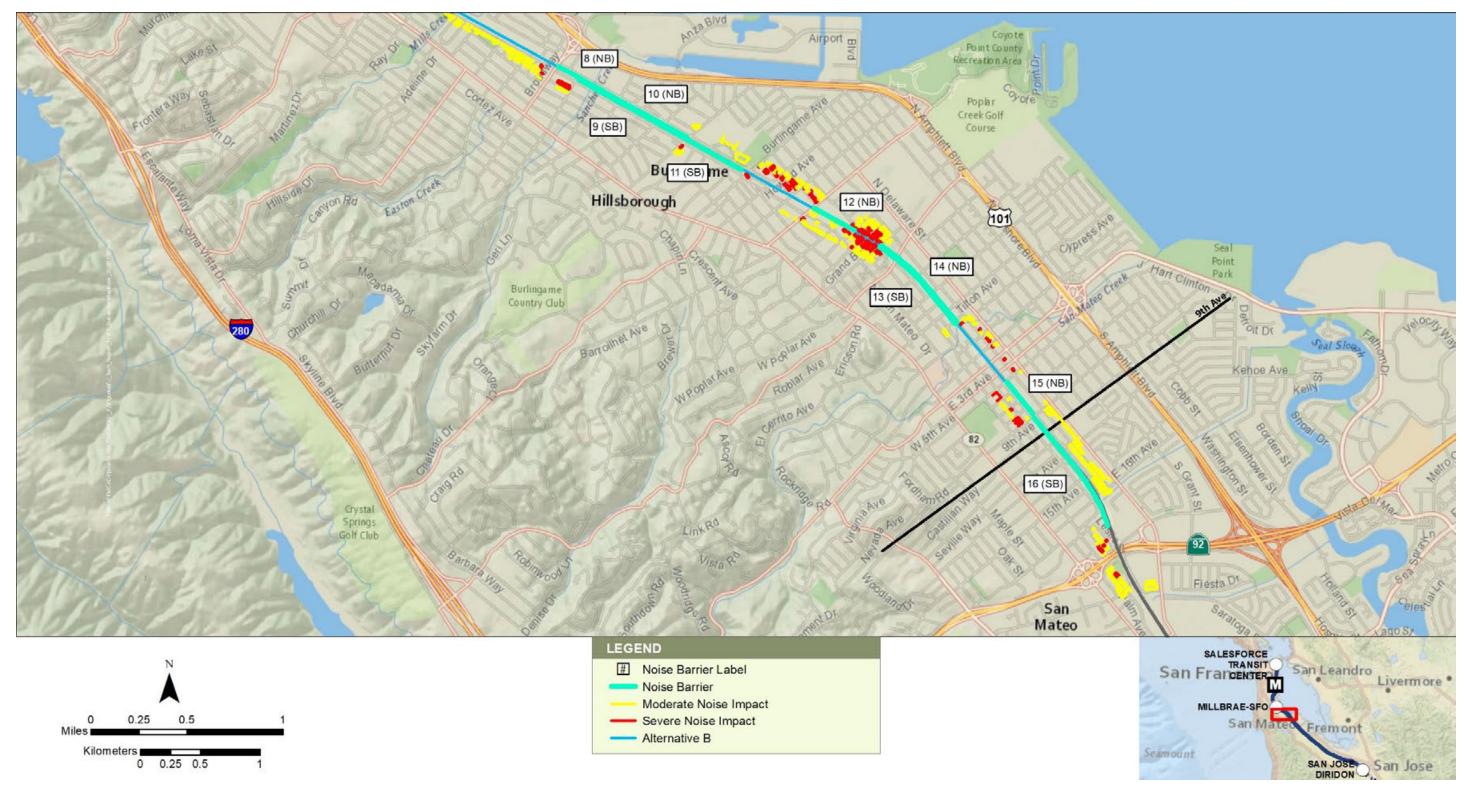




Figure C-70 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative B





Figure C-71 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative B

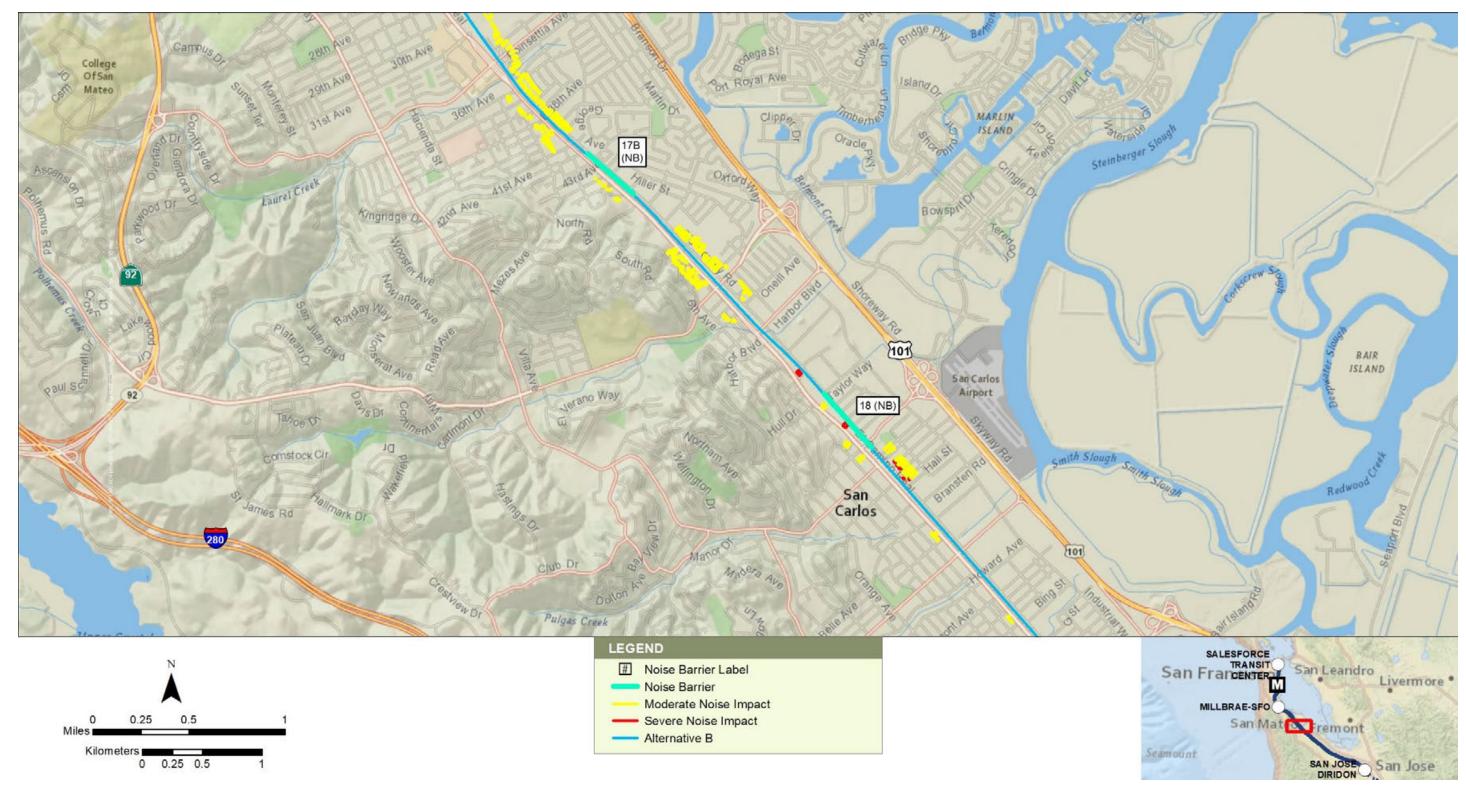




Figure C-72 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative B



Figure C-73 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative B

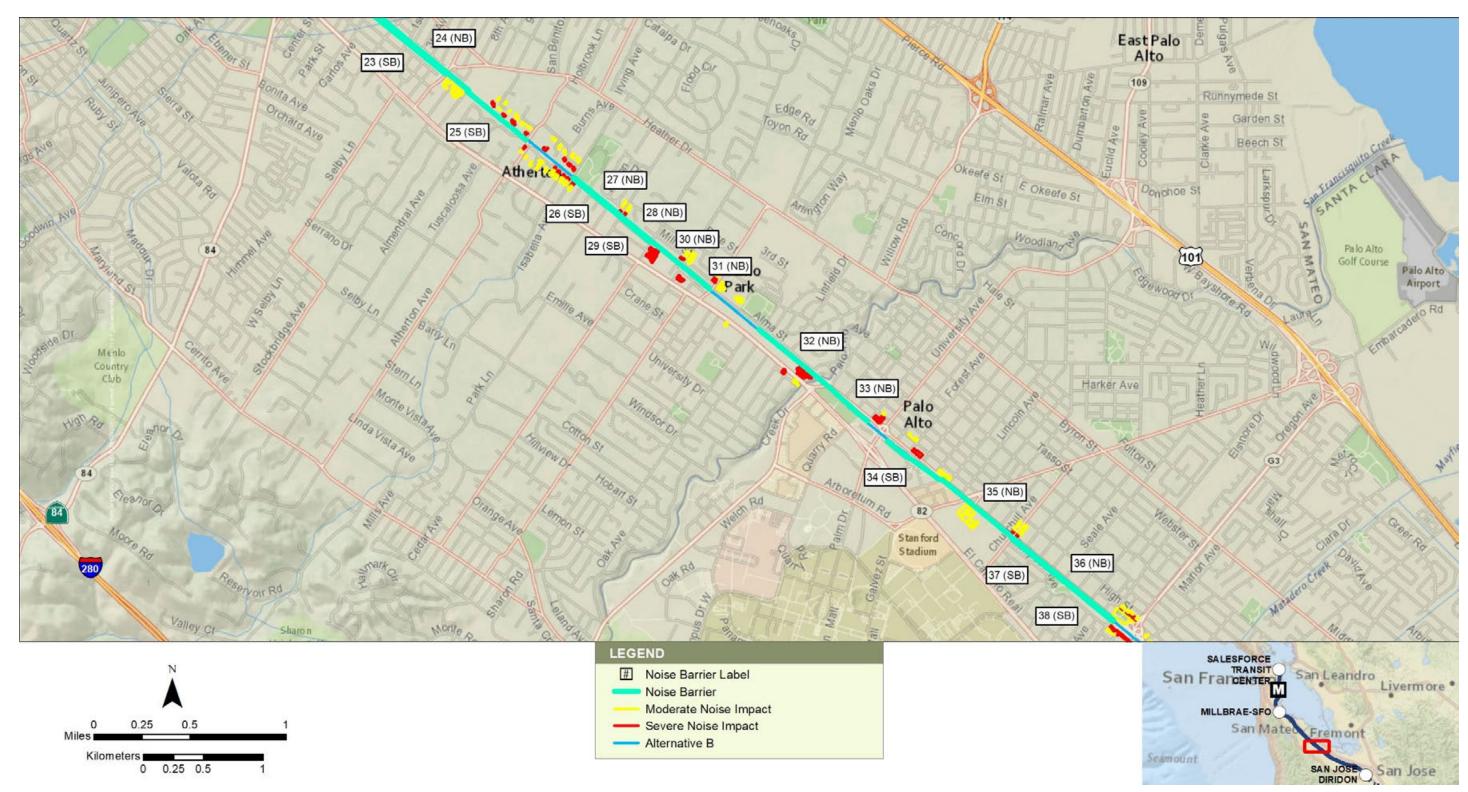




Figure C-74 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative B



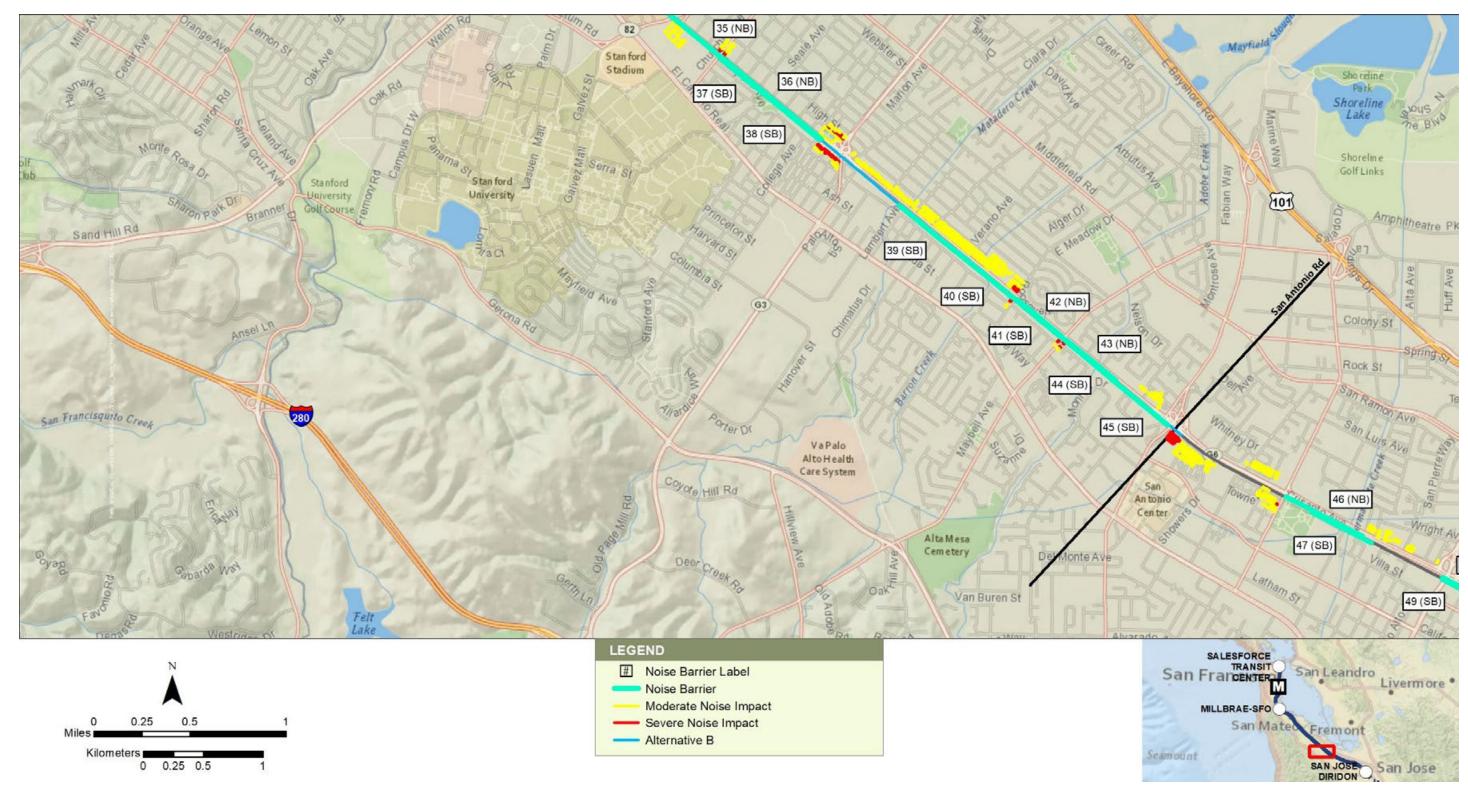


Figure C-75 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative B

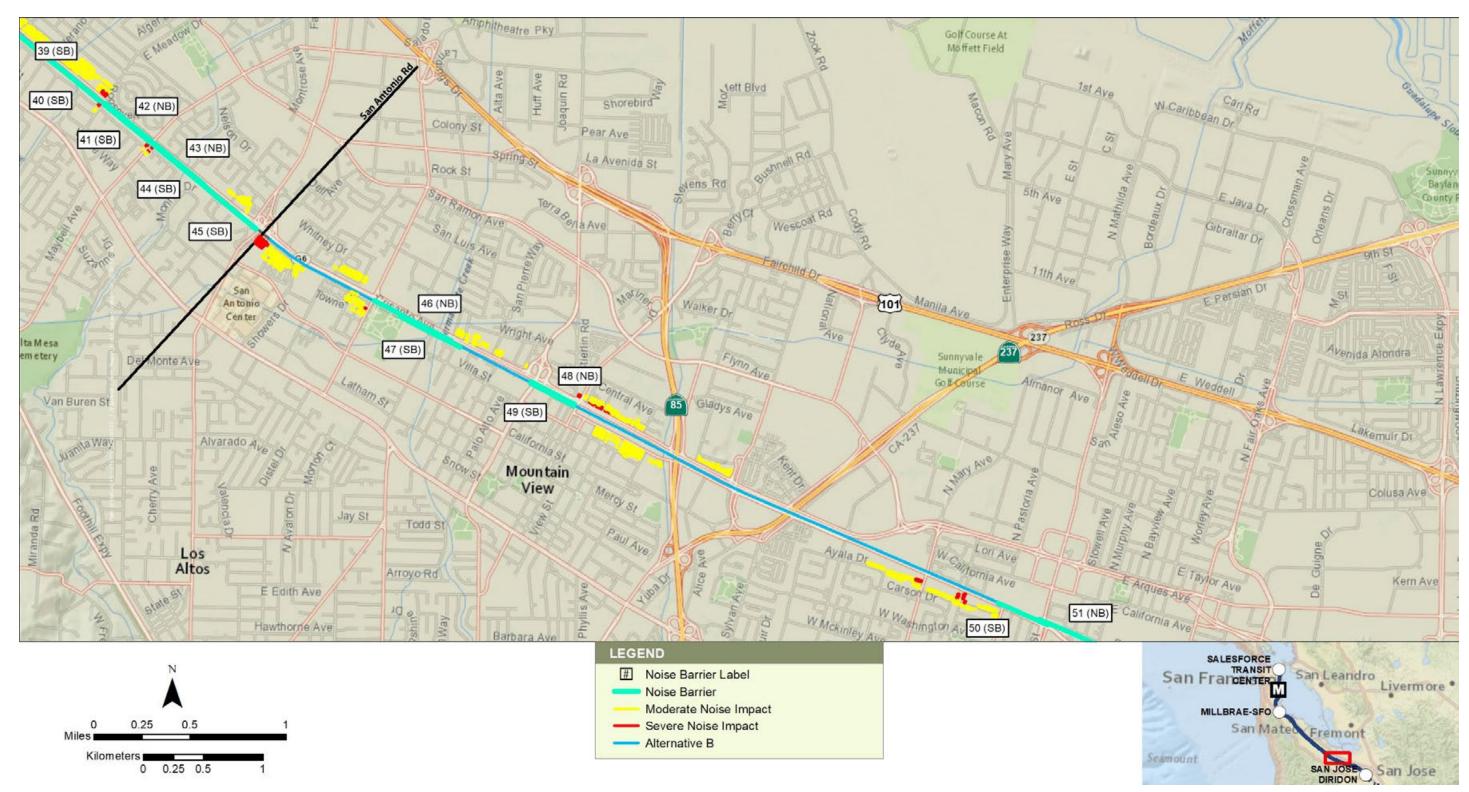




Figure C-76 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative B



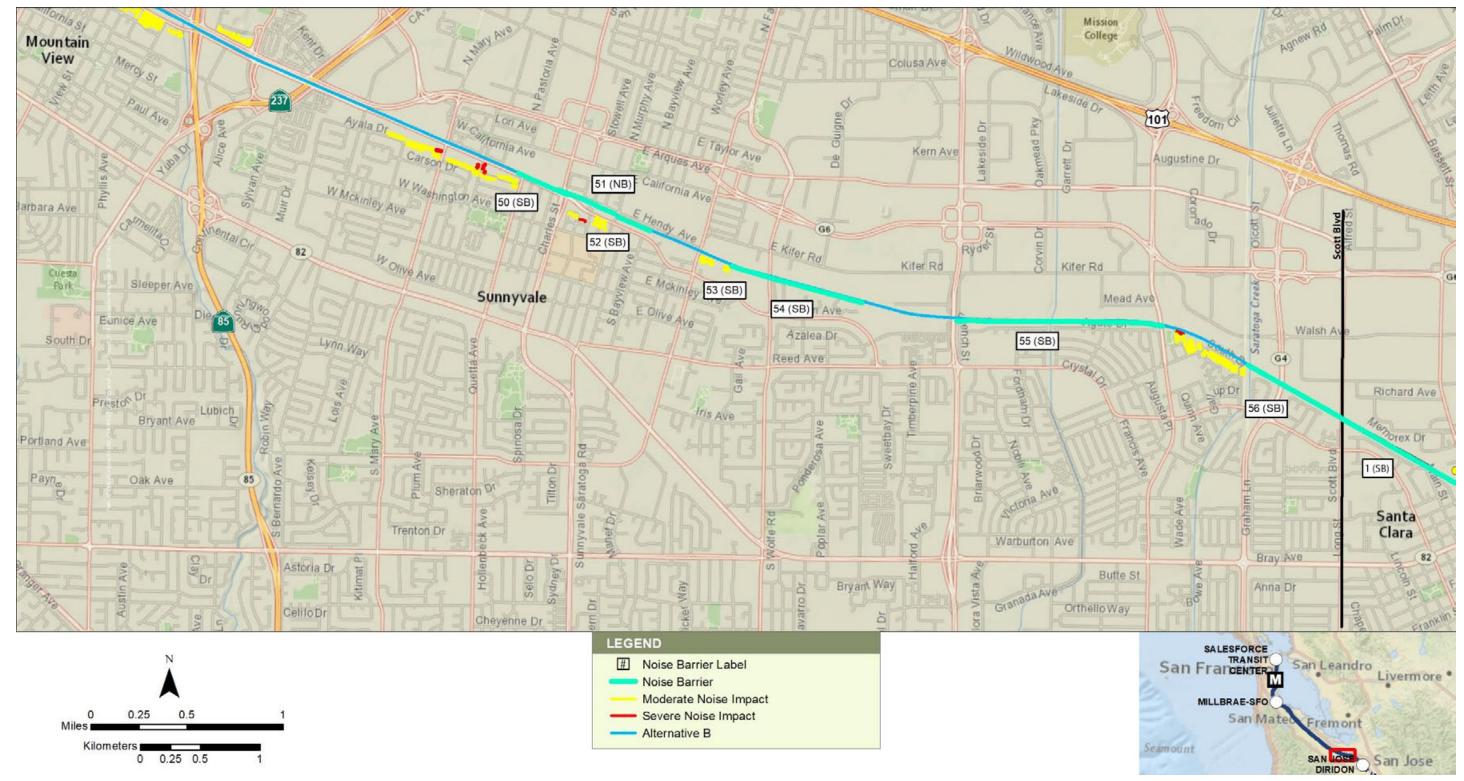


Figure C-77 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative B (Viaduct to I-880)

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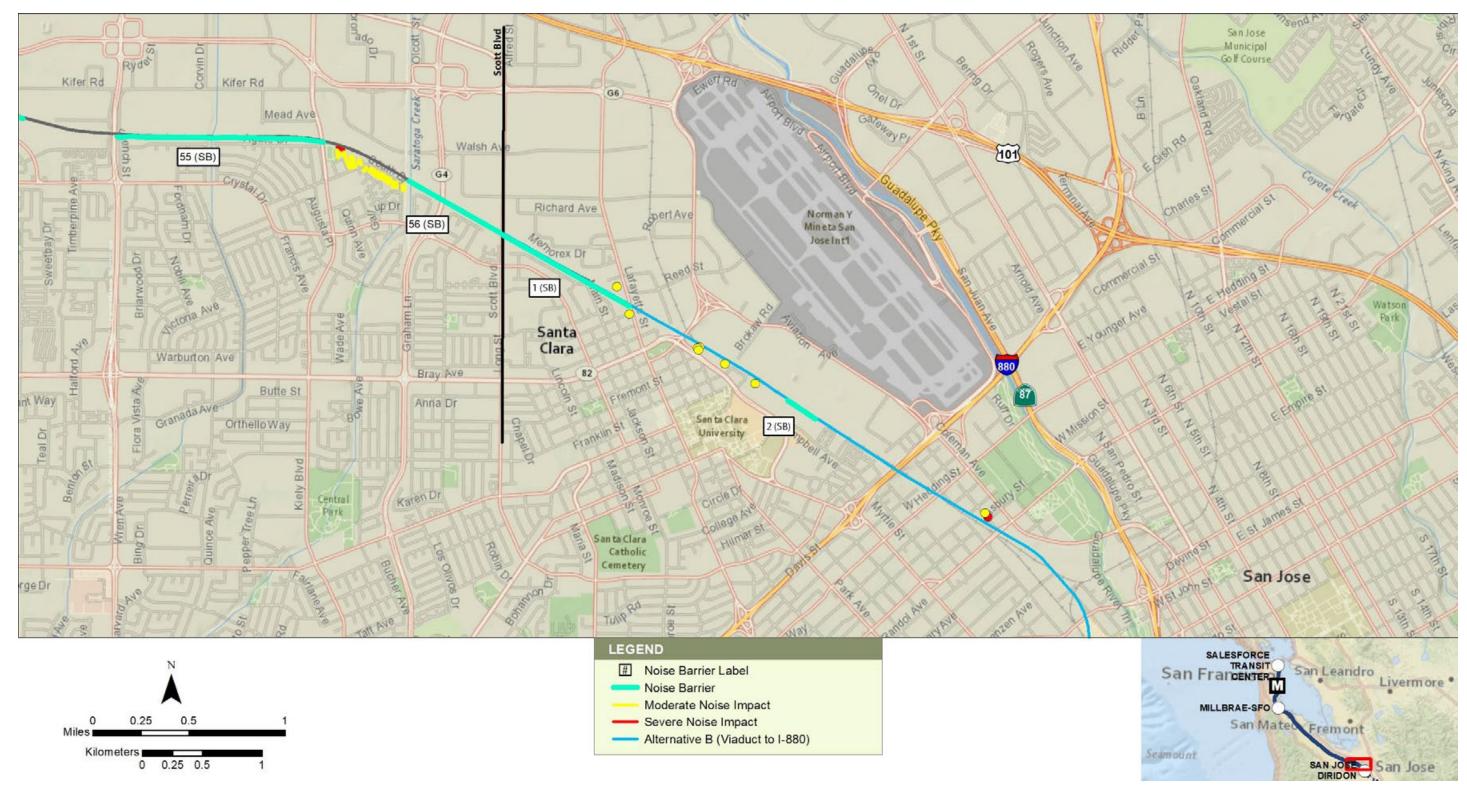


Figure C-78 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative B (Viaduct to I-880)





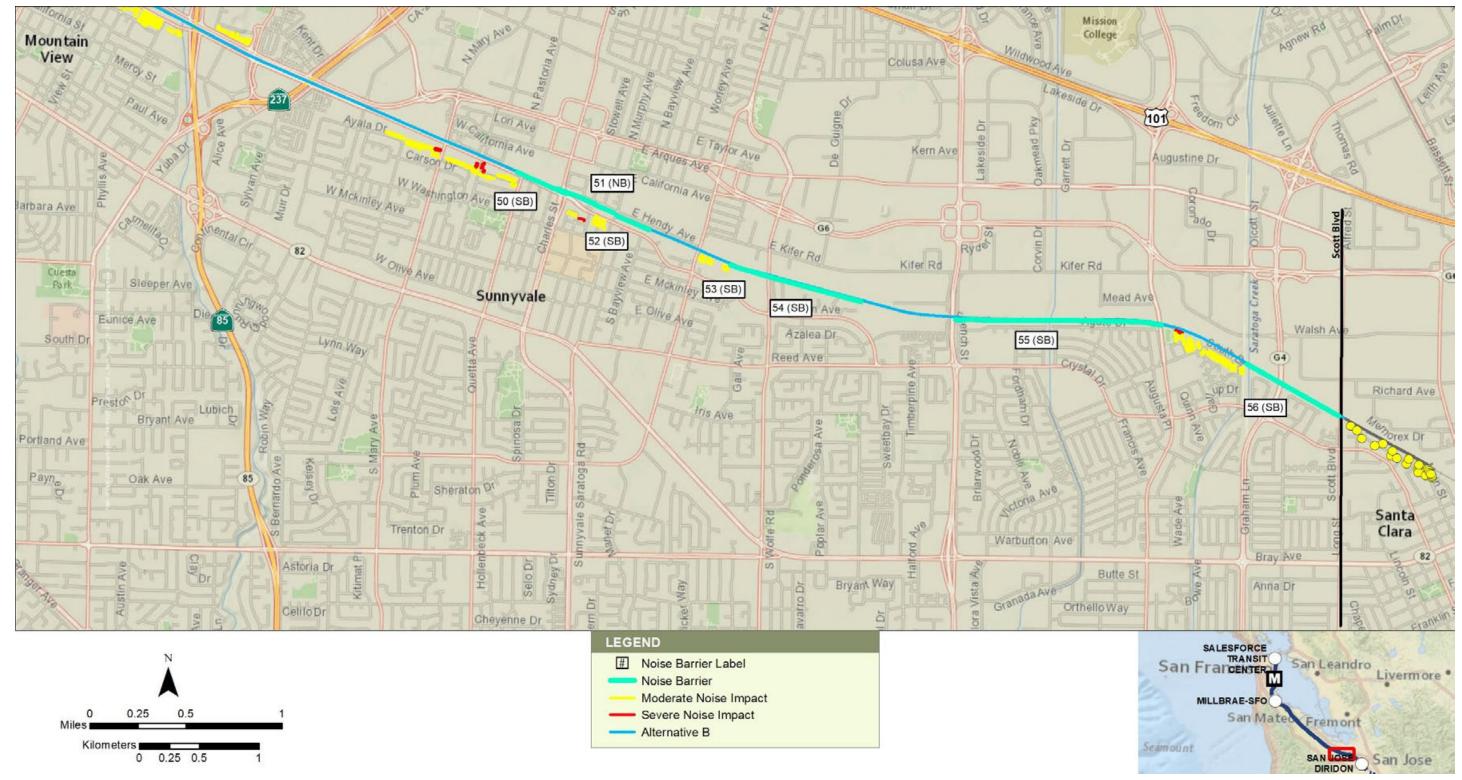


Figure C-79 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative B (Viaduct to Scott Boulevard)



Figure C-80 2040 Plus Project Proposed Noise Barriers and Residual Noise Impacts—Alternative B (Viaduct to Scott Boulevard)





80 Alameda Oakland Fry Bay Fr Jackson S SALESFORCE (J) Pacific Ave lackson St TRANSIT Sacramento St CENTER 50 Bush St Austin St Fern St Sutter St Post St Gedar St Sulter St 101 clid Ave -Geary Blvd Eddy St Pier 38 80 Turk St 4TH AND KING Downtown STATION Extension San Alamol (DTX) Francisco Square S Pier 50 LIIY SI Hayes St Oak St Page St Waller St Haight St 80 Buena ler5a Vista Brd meda St Pask ezar dium Henry St Grattan St nosa S Mariposa St Ford St 101 280 Eureka Liberty St Hill St 22nd St 23rd LEGEND N Moderate Noise Impact Severe Noise Impact - Alternative A 0 0.25 0.5 — Downtown Extension (DTX) 1 Mile O HSR Stations **Kilometers**

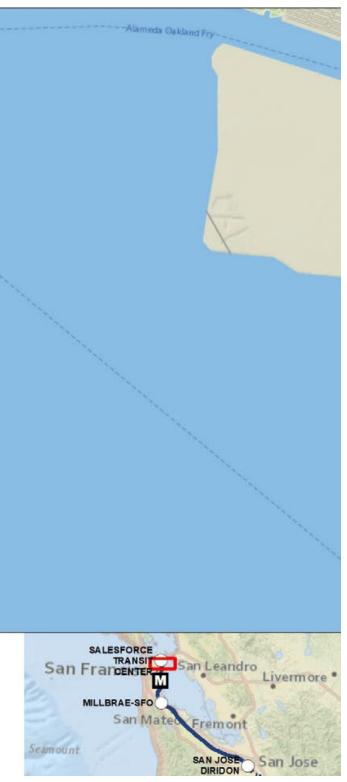
2040 PLUS PROJECT PROPOSED NOISE BARRIERS WITH QUIET ZONES AND RESIDUAL NOISE IMPACTS

Figure C-81 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative A

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San Francisco to San Jose Project Section Final EIR/EIS

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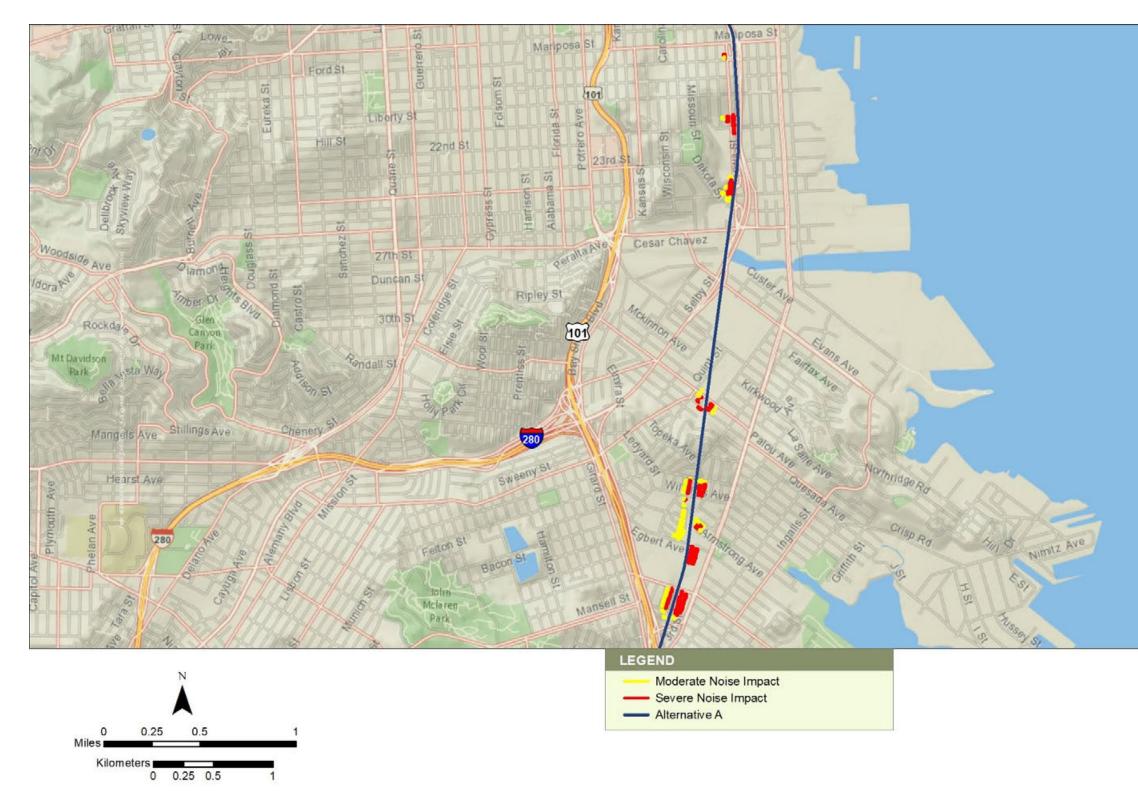


Figure C-82 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative A



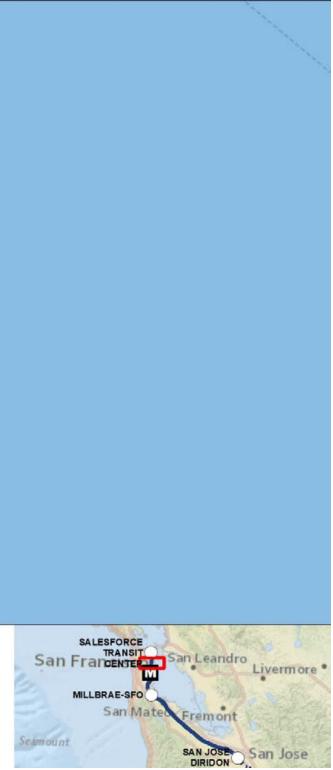






Figure C-83 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative A

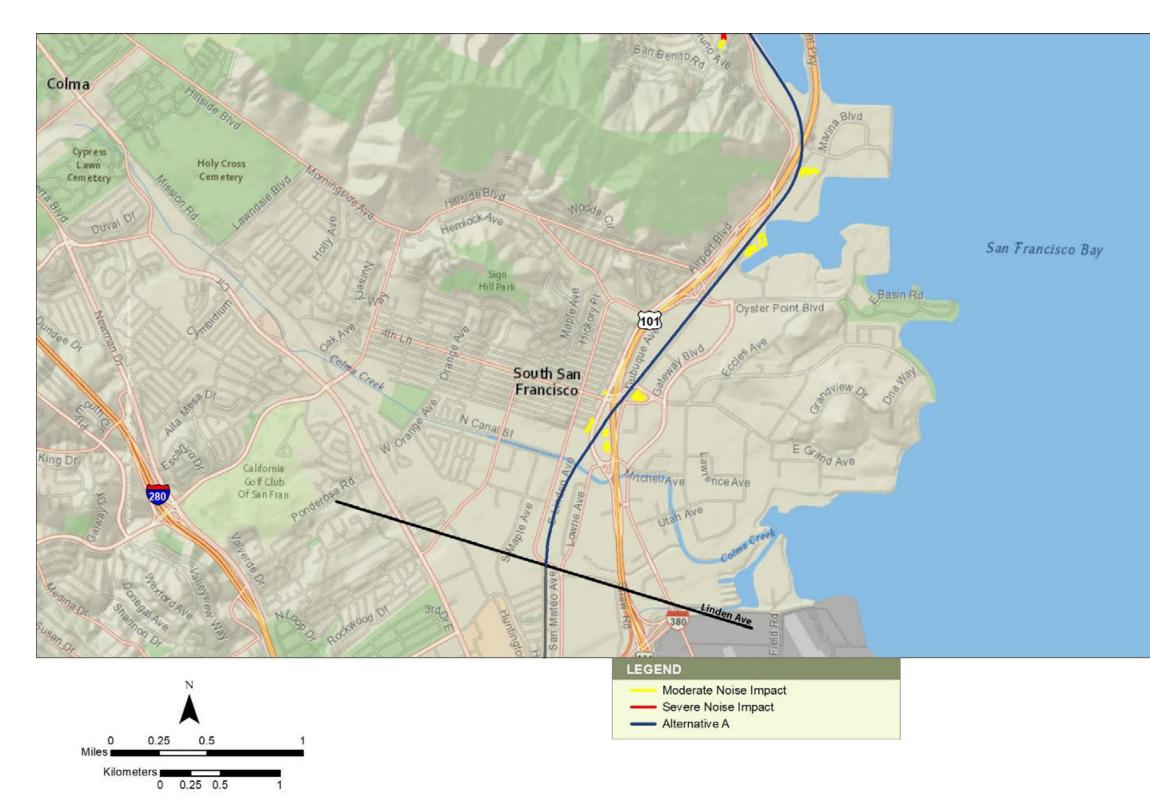


Figure C-84 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative A



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Figure C-85 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative A

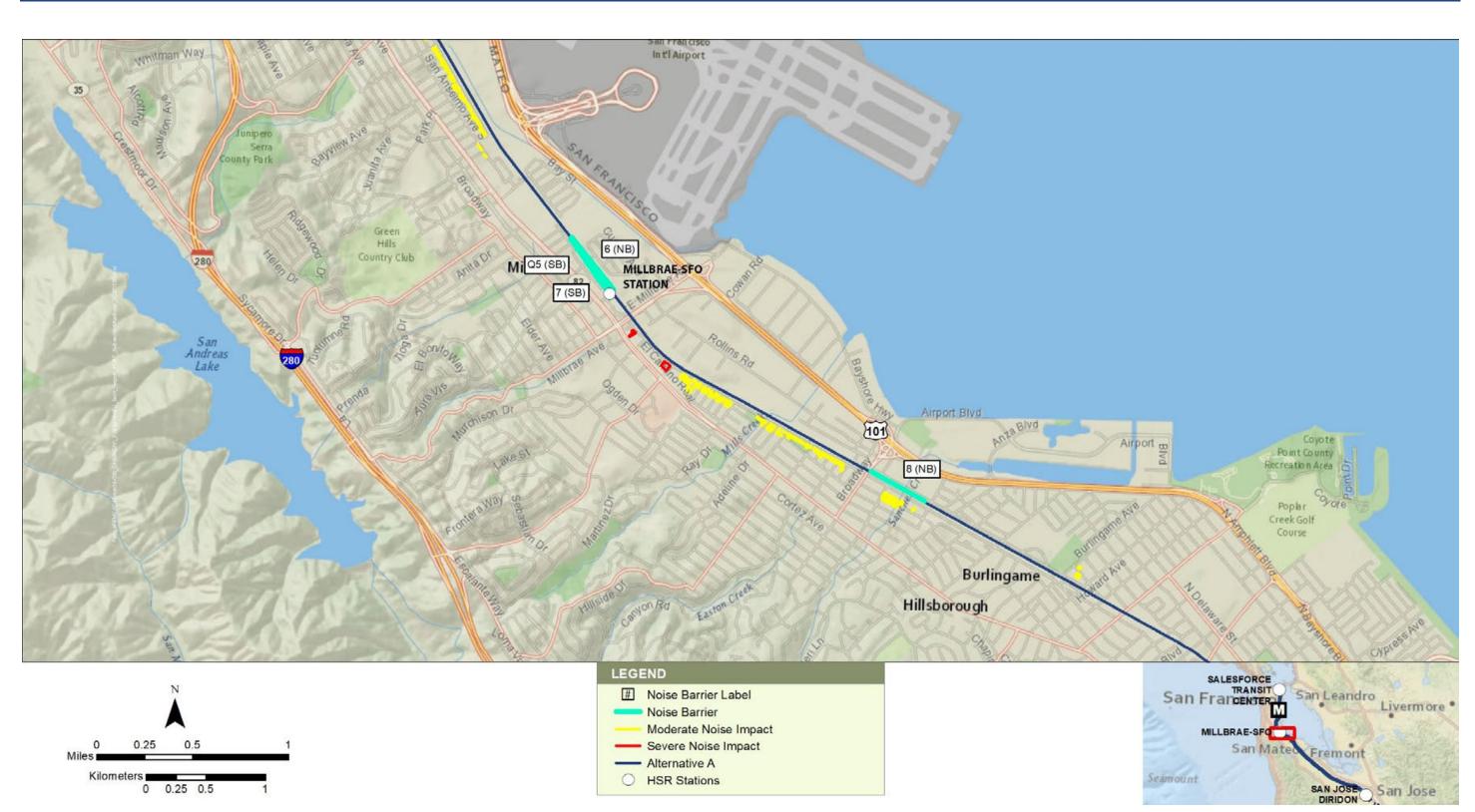


Figure C-86 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative A

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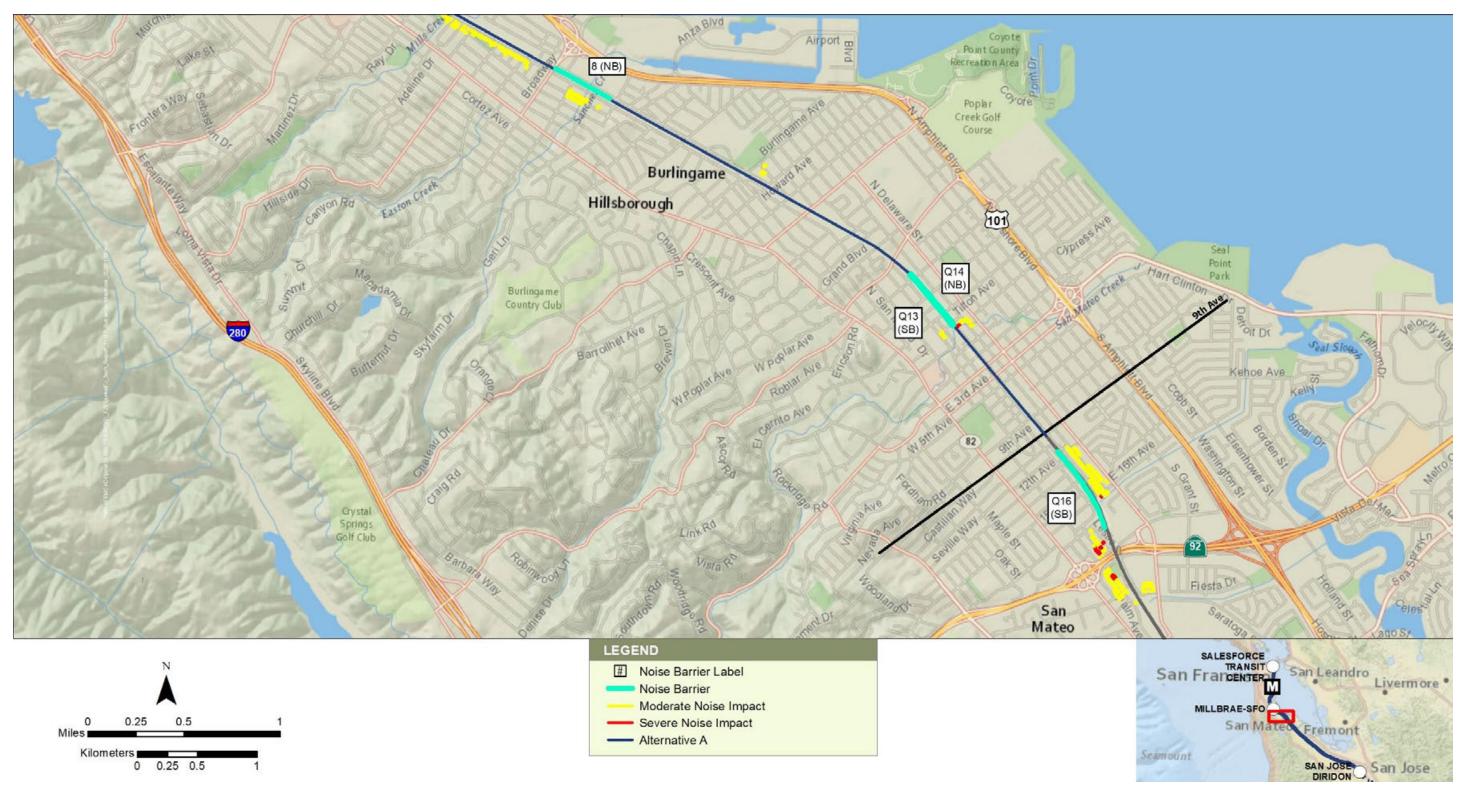


Figure C-87 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative A

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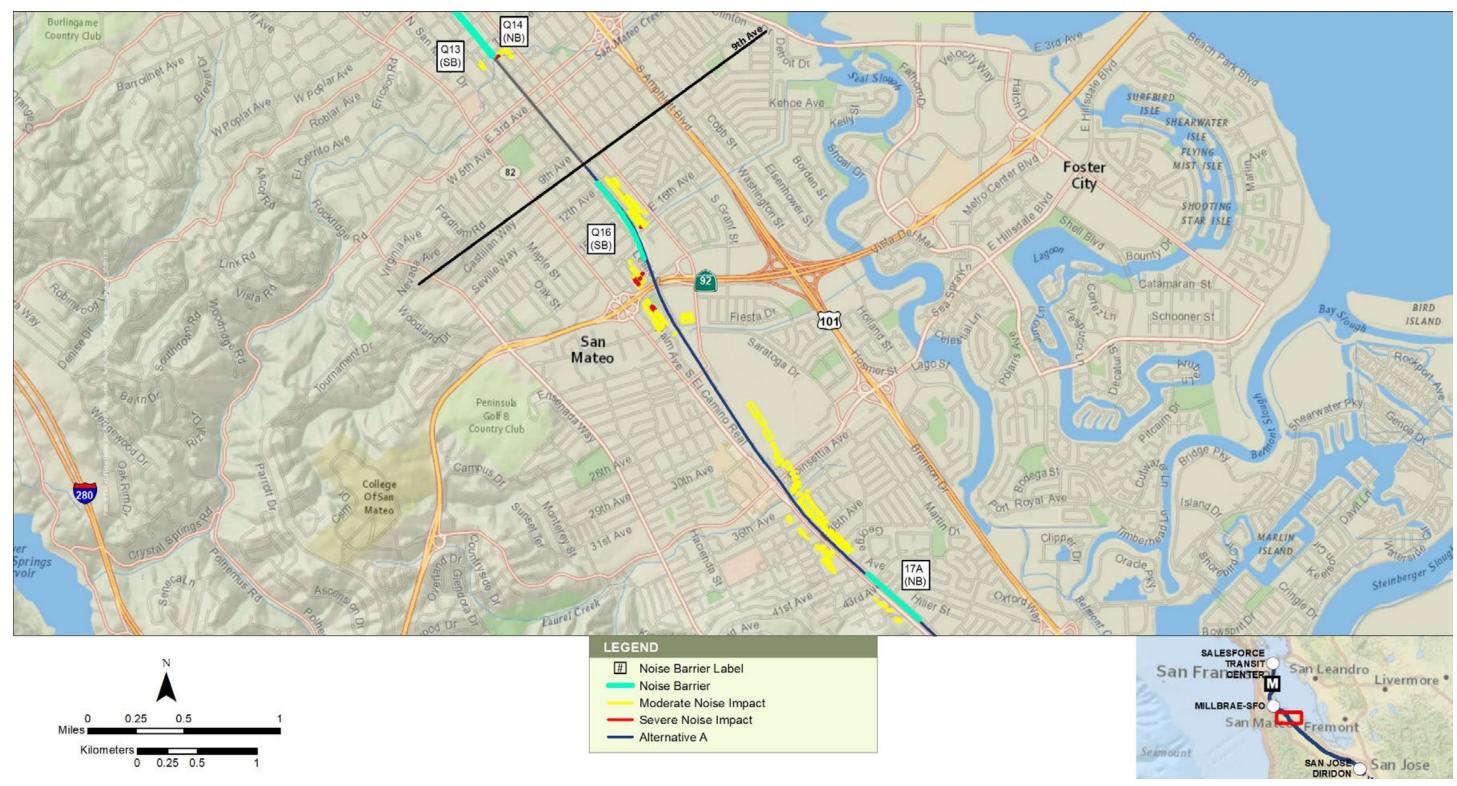


Figure C-88 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative A





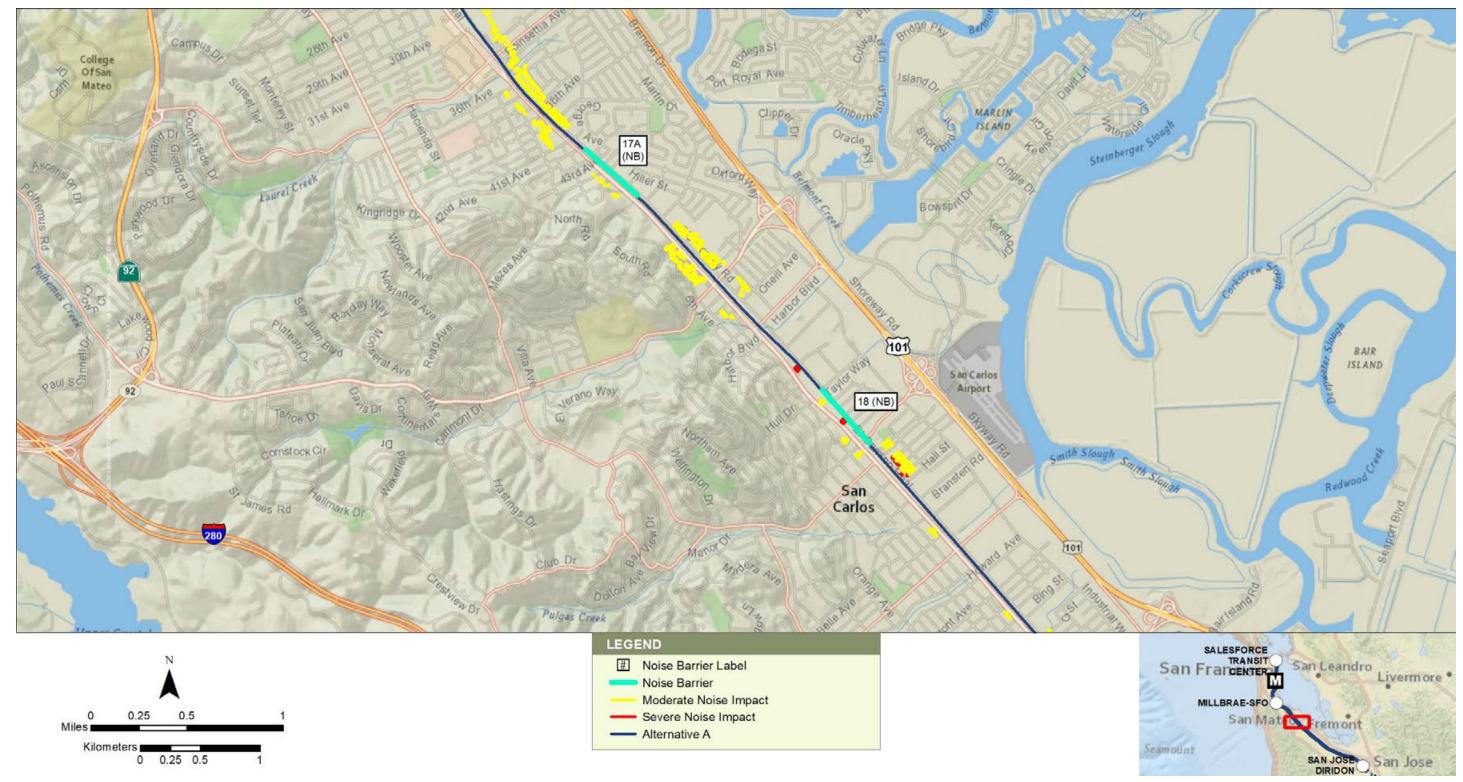


Figure C-89 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative A

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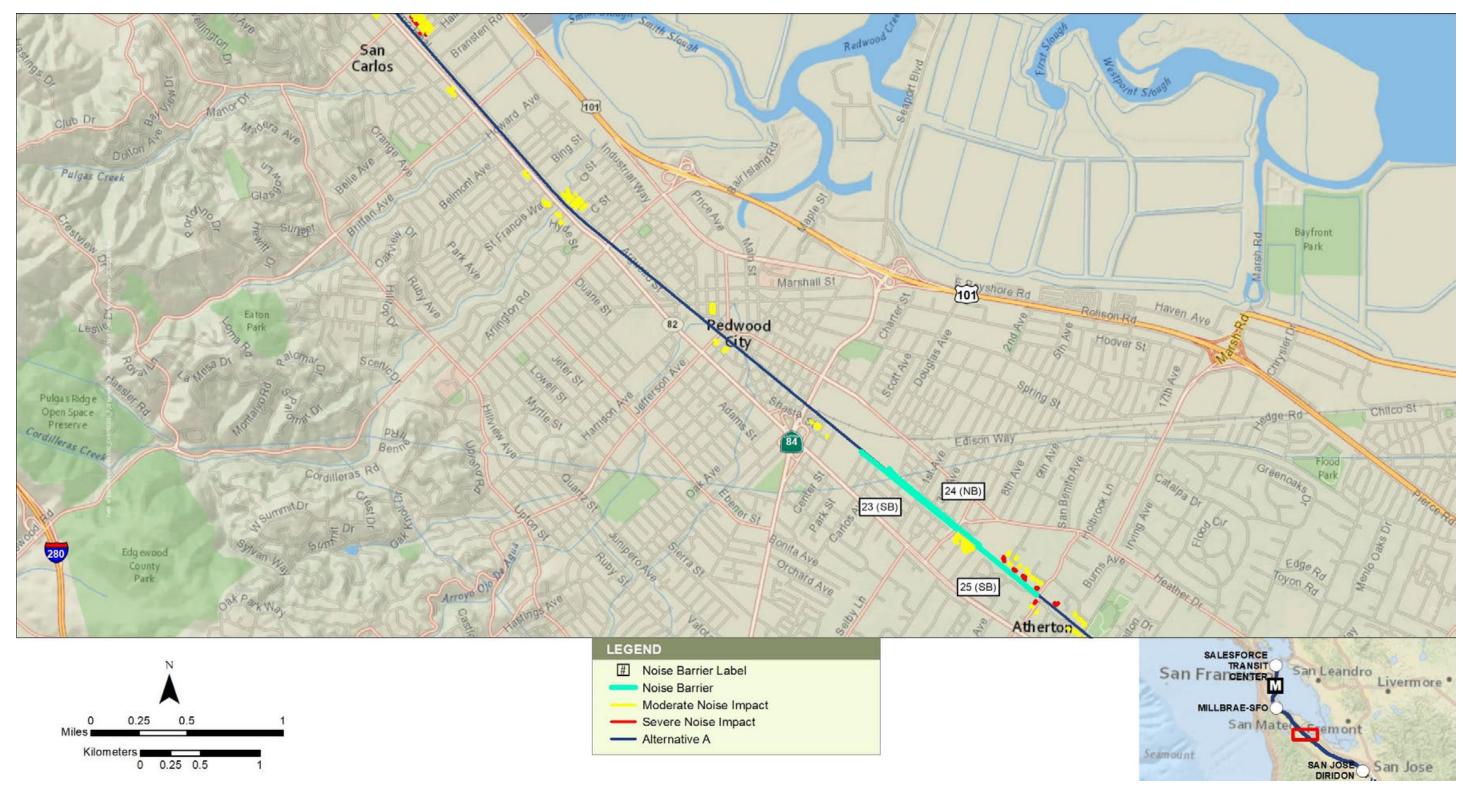


Figure C-90 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative A





Figure C-91 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative A

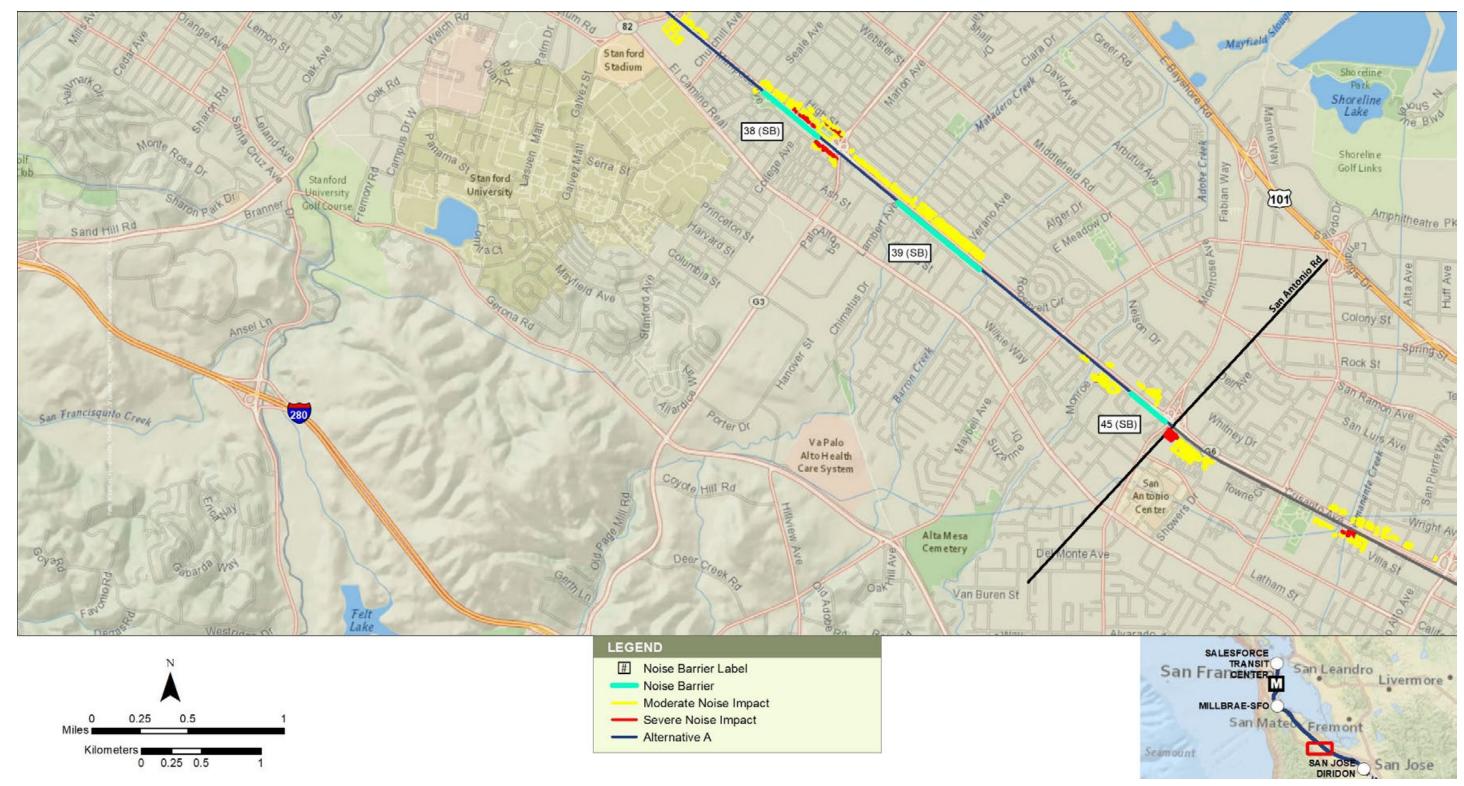


Figure C-92 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative A







Figure C-93 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative A



Figure C-94 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative A





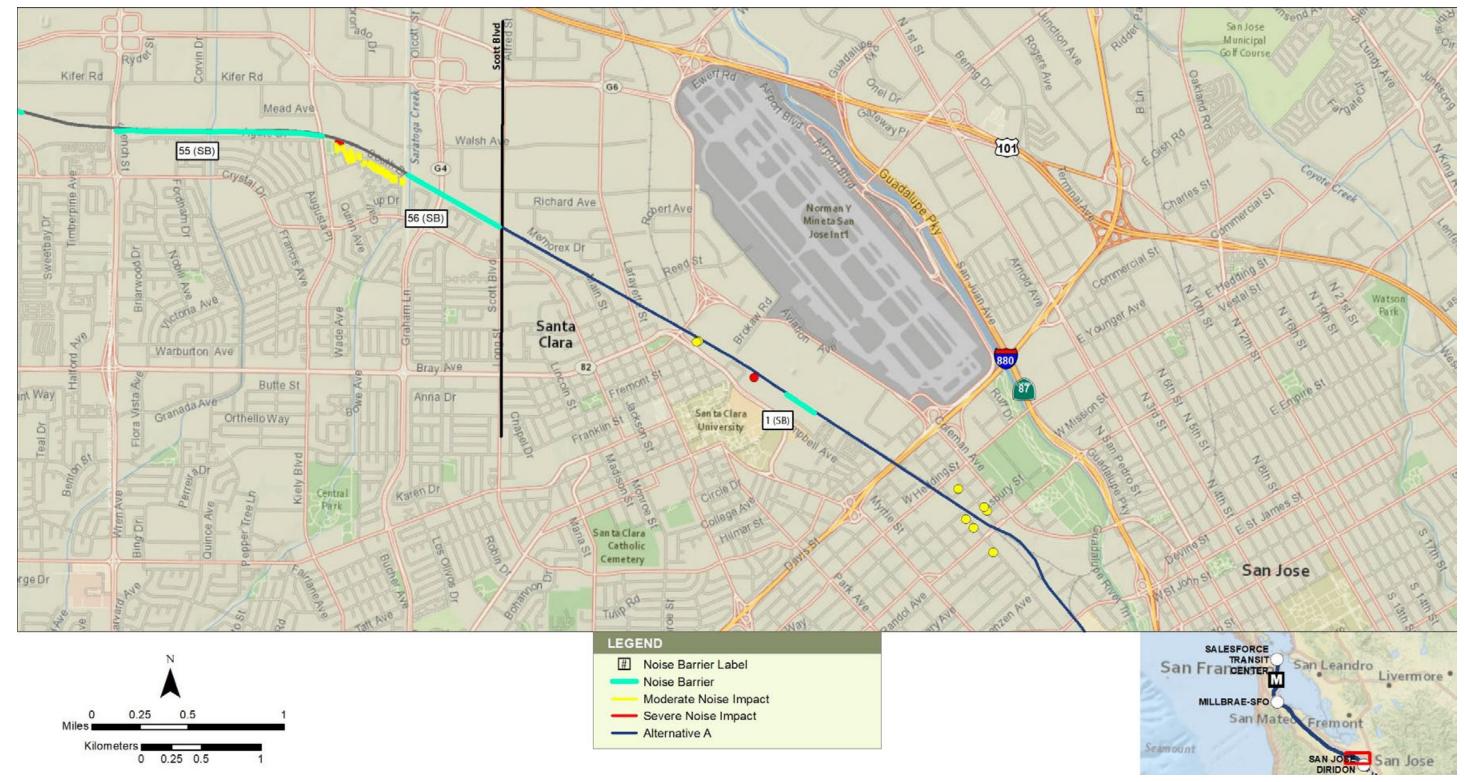


Figure C-95 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative A

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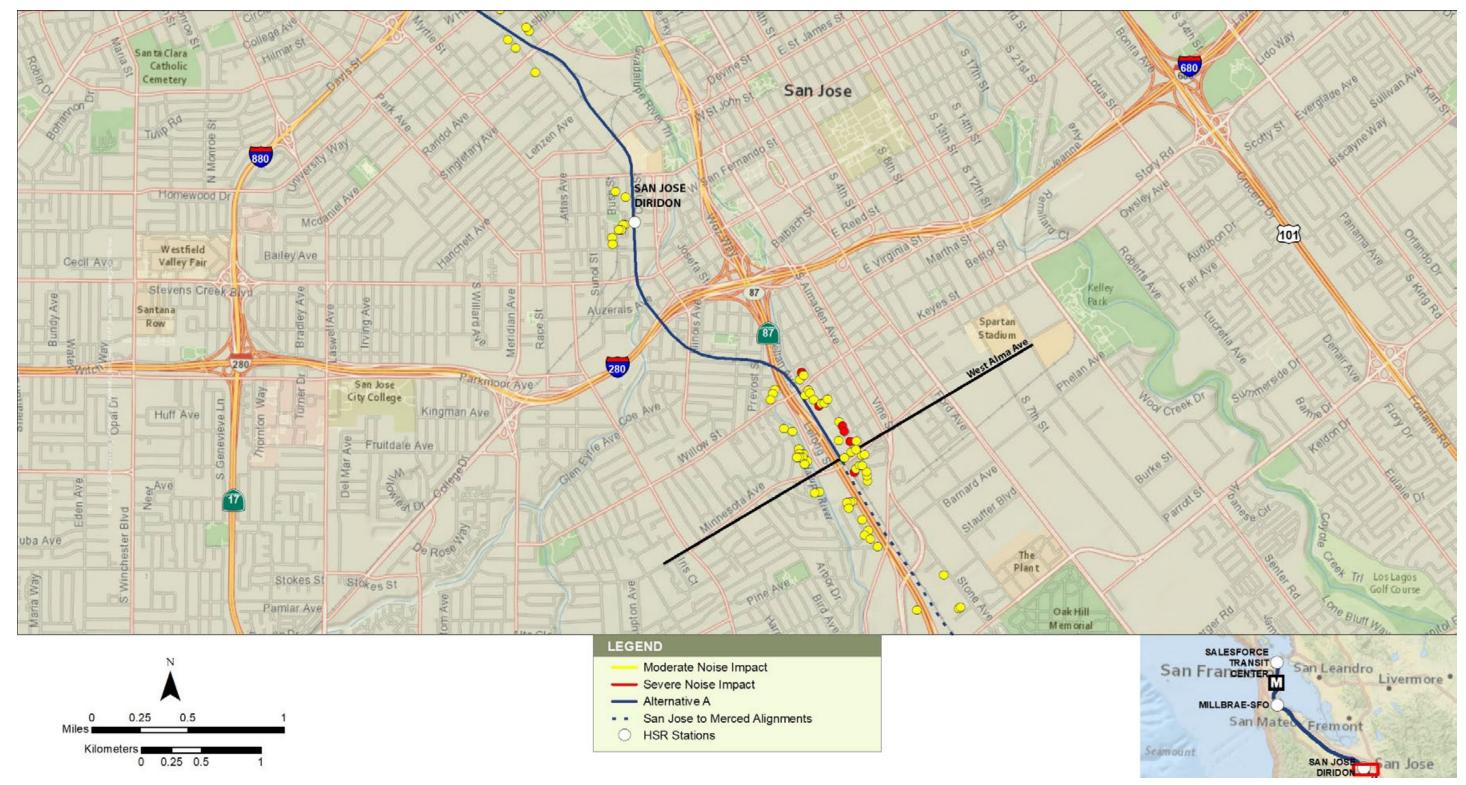


Figure C-96 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative A





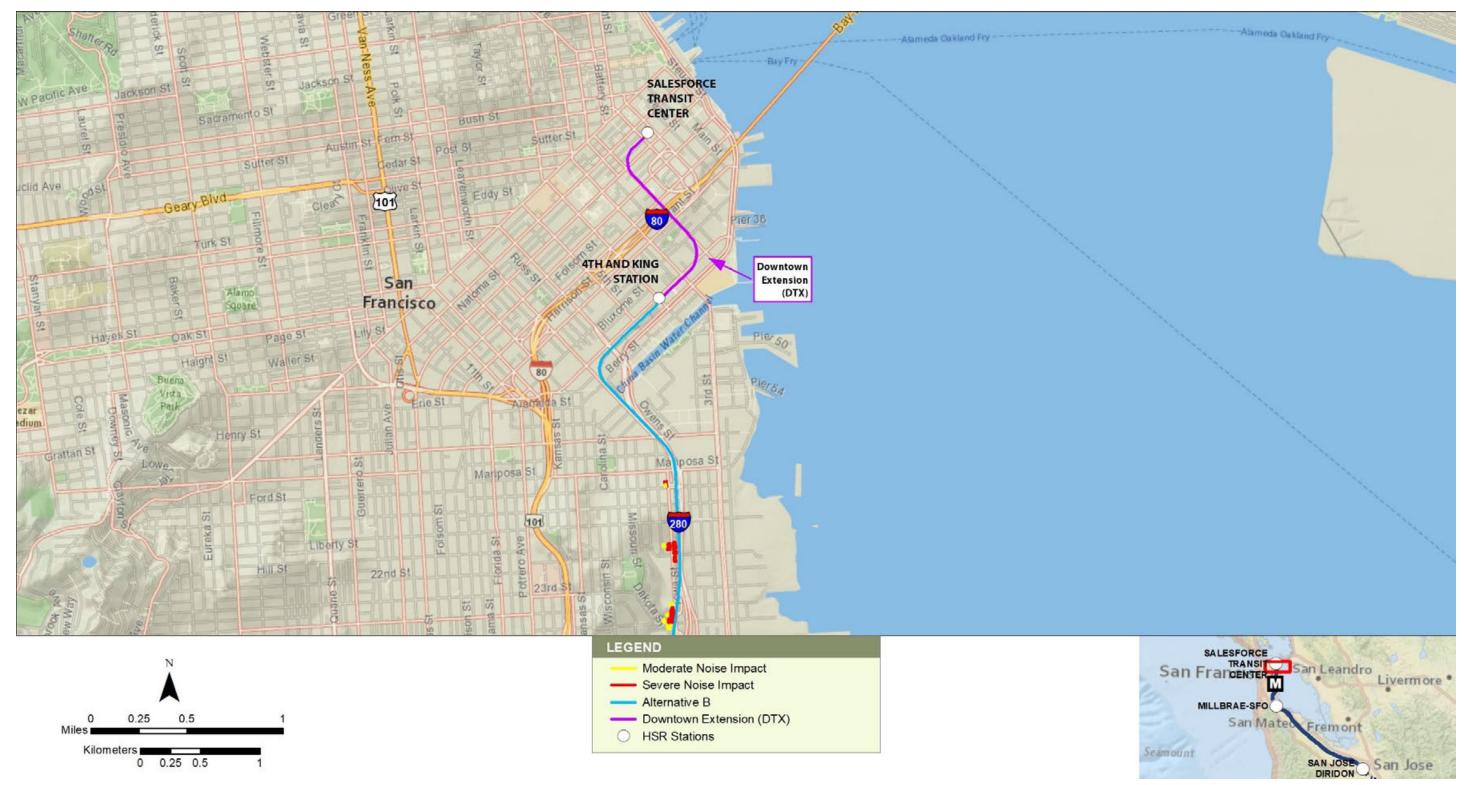


Figure C-97 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative B

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Figure C-98 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative B









Figure C-99 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative B

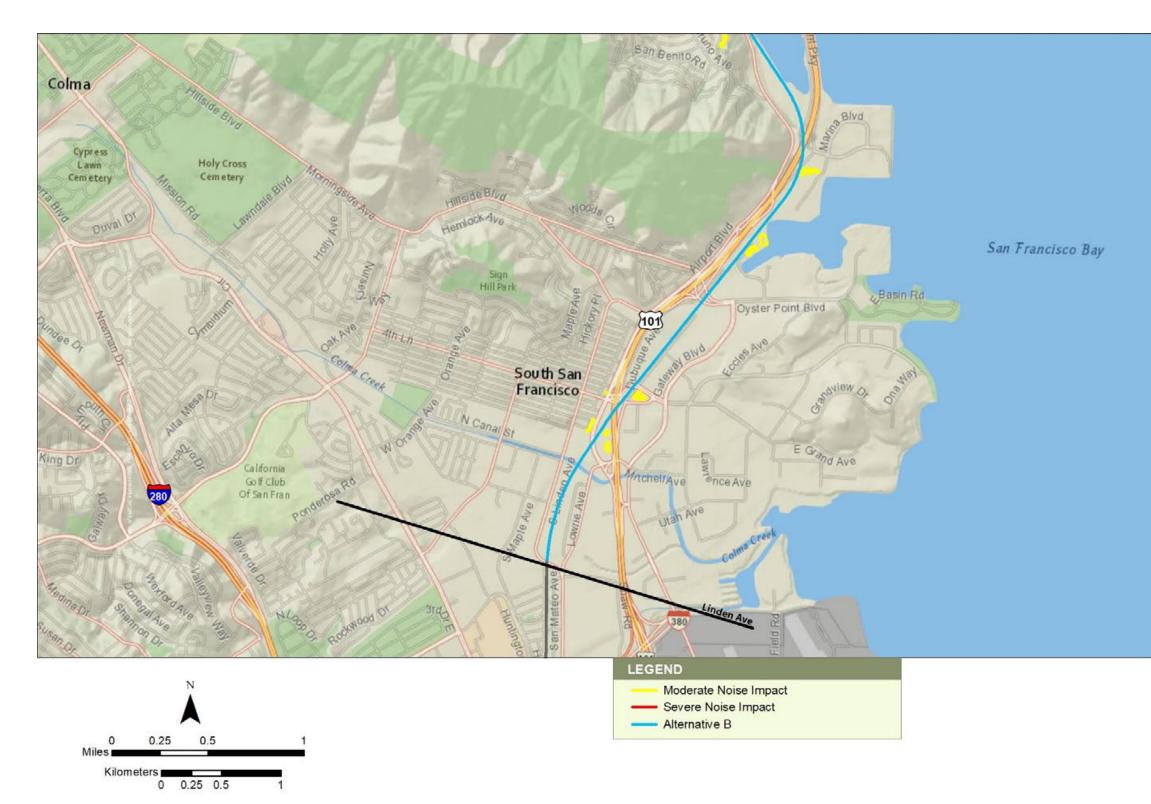


Figure C-100 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative B



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Figure C-101 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative B

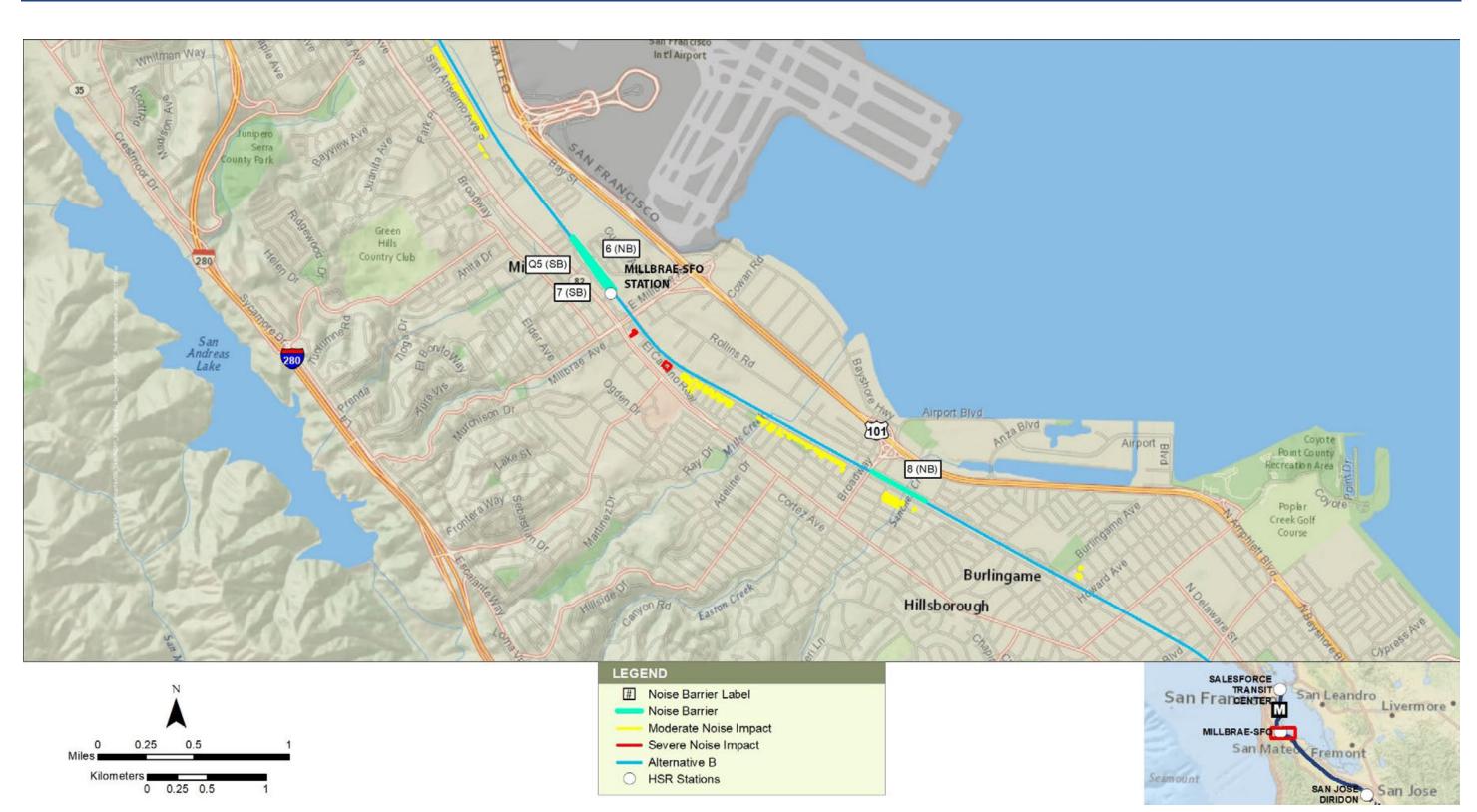


Figure C-102 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative B

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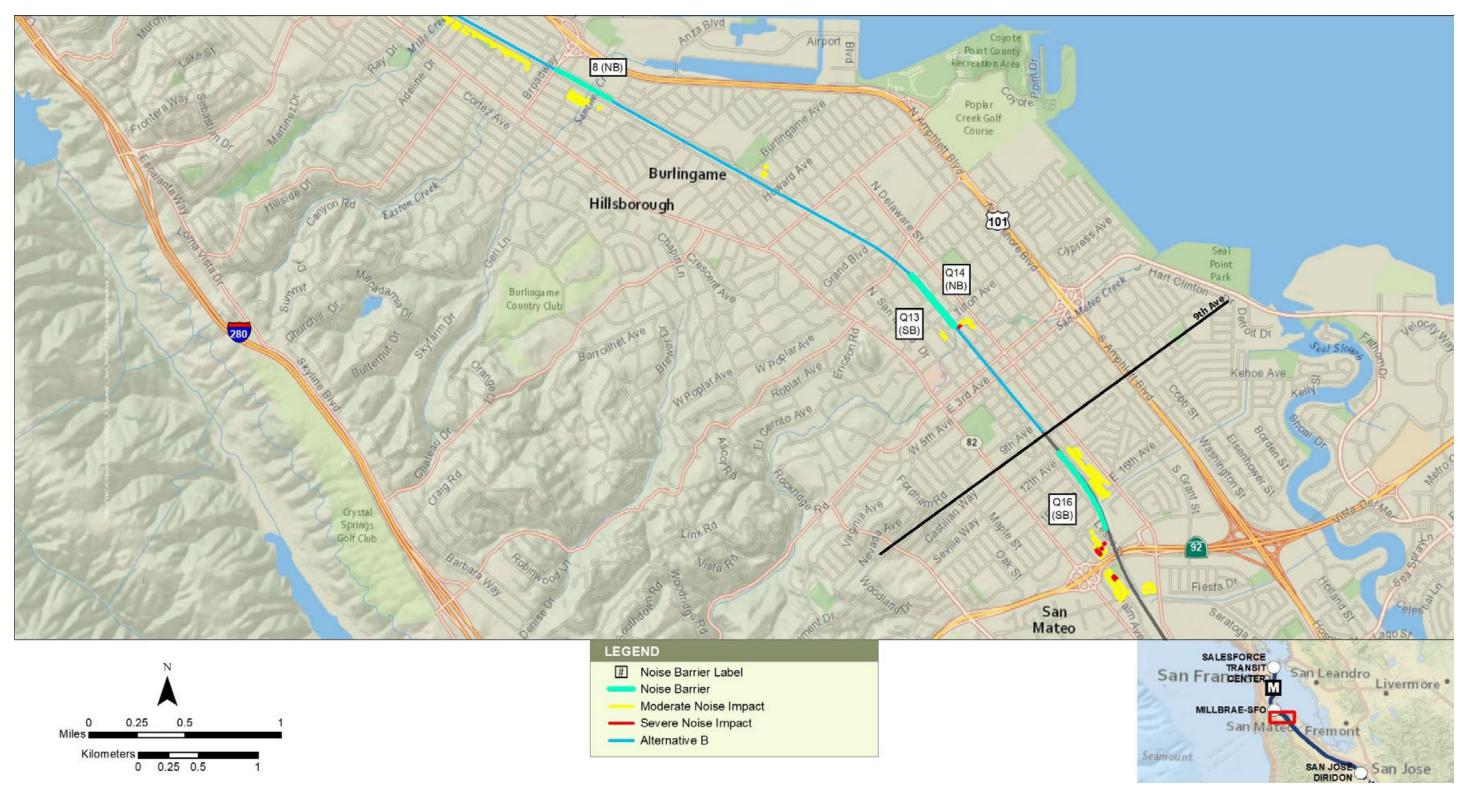


Figure C-103 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative B

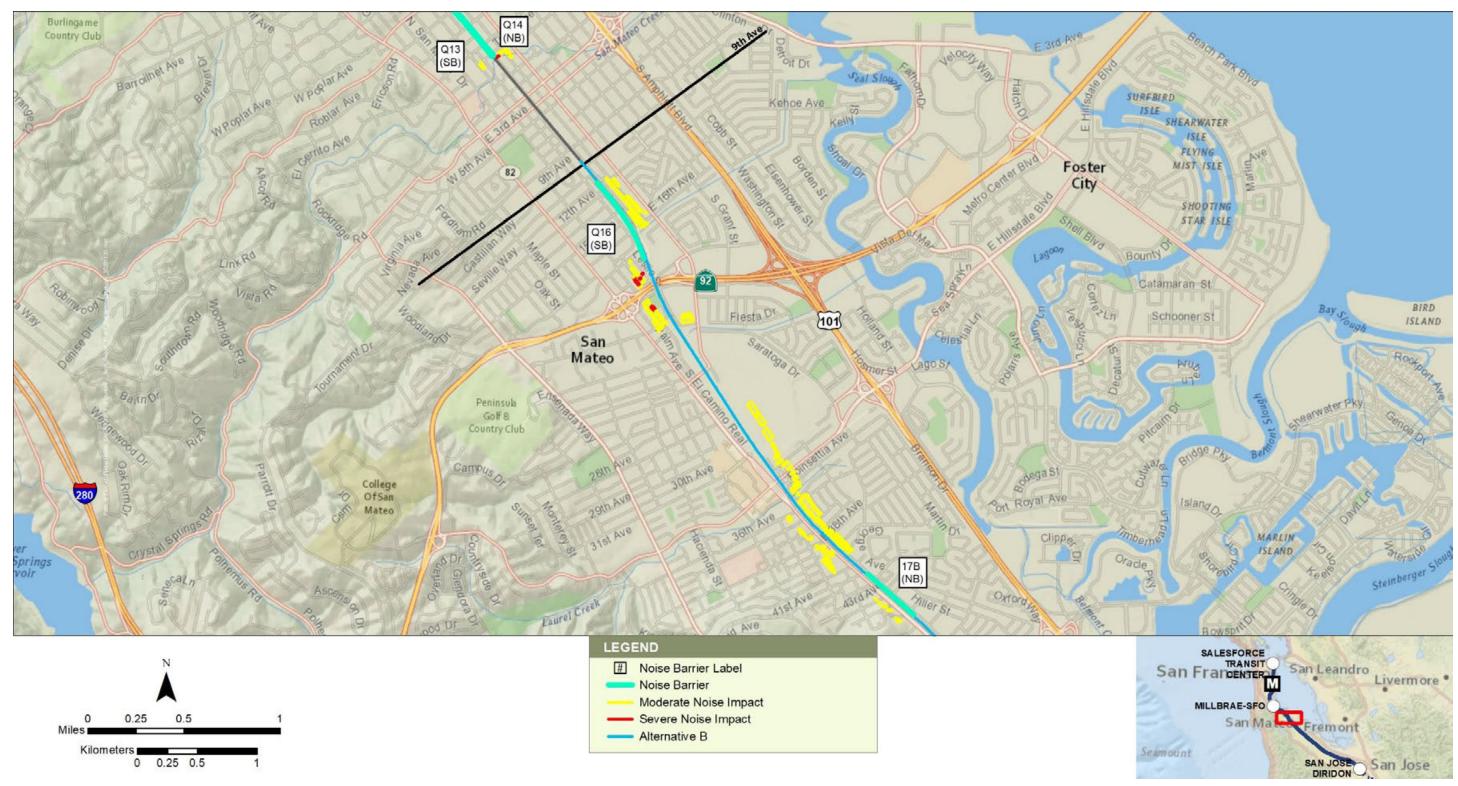


Figure C-104 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative B





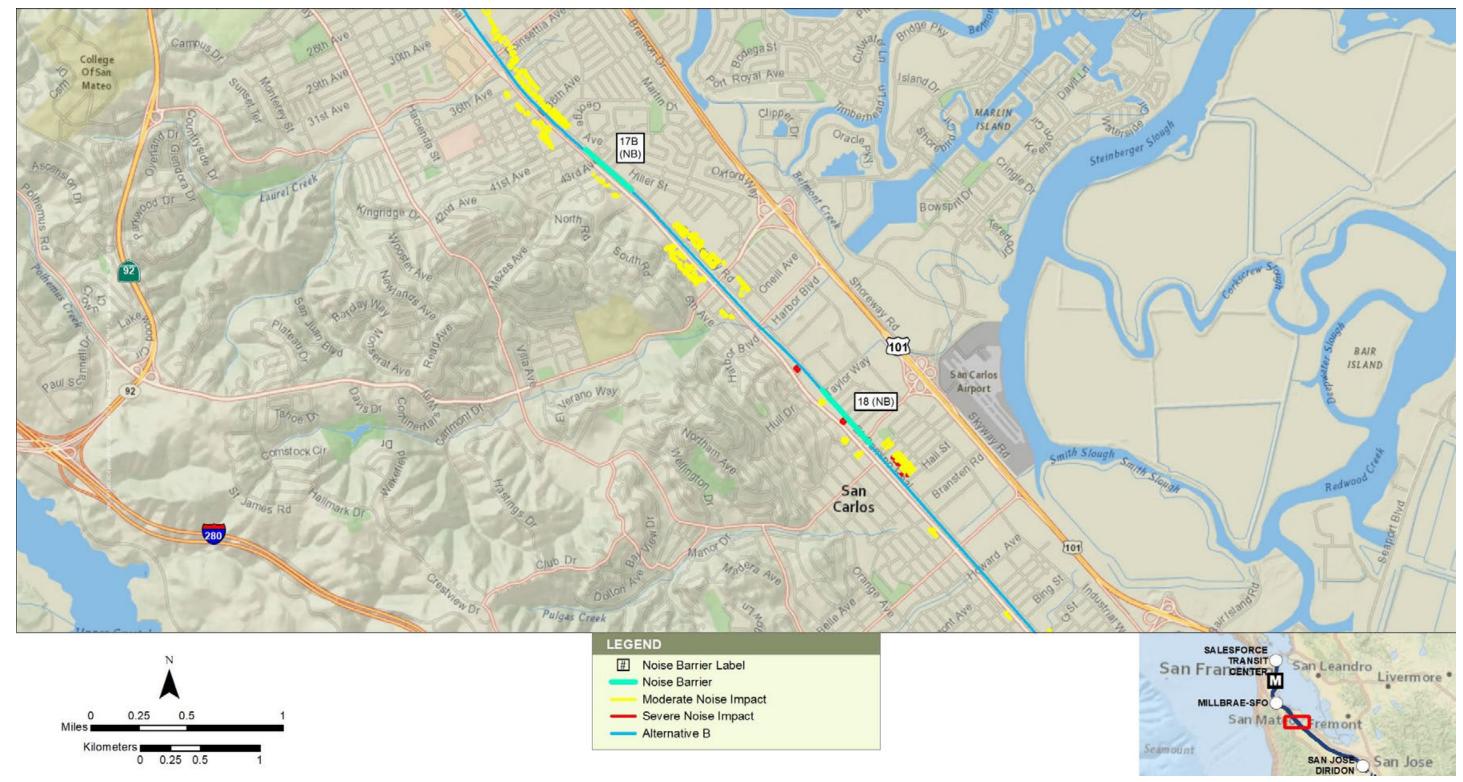


Figure C-105 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative B

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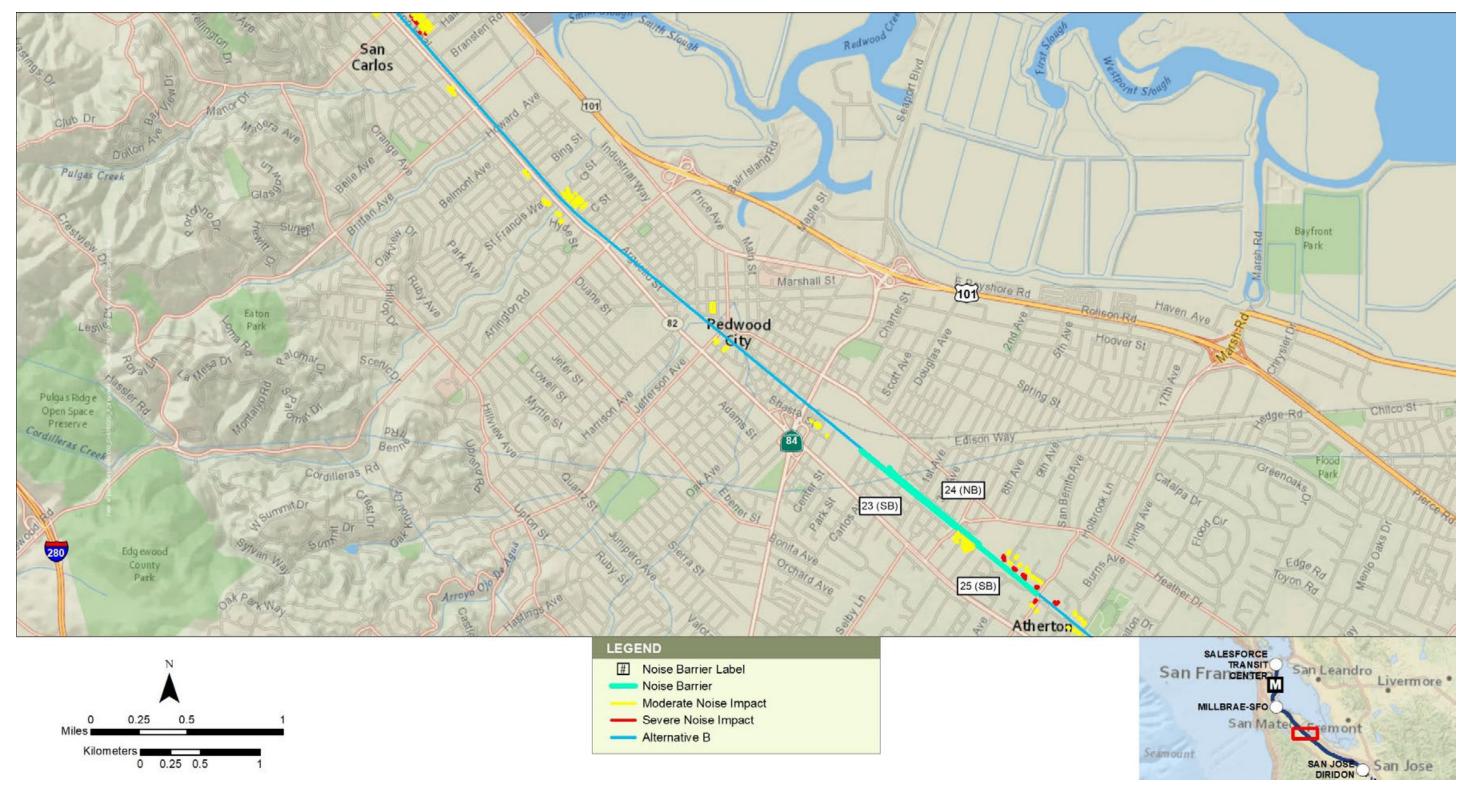


Figure C-106 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative B





Figure C-107 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative B

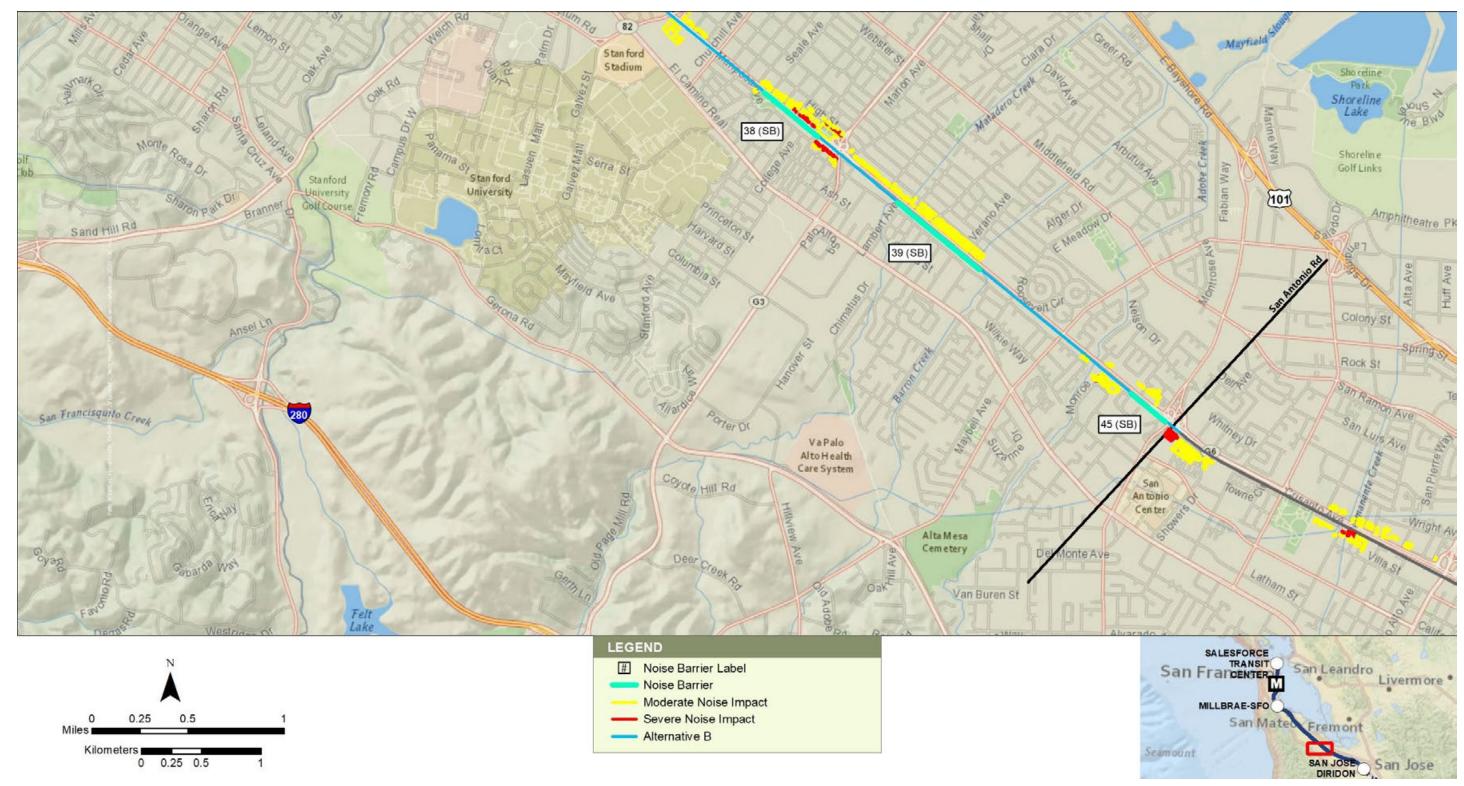


Figure C-108 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative B







Figure C-109 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative B

California High-Speed Rail Authority

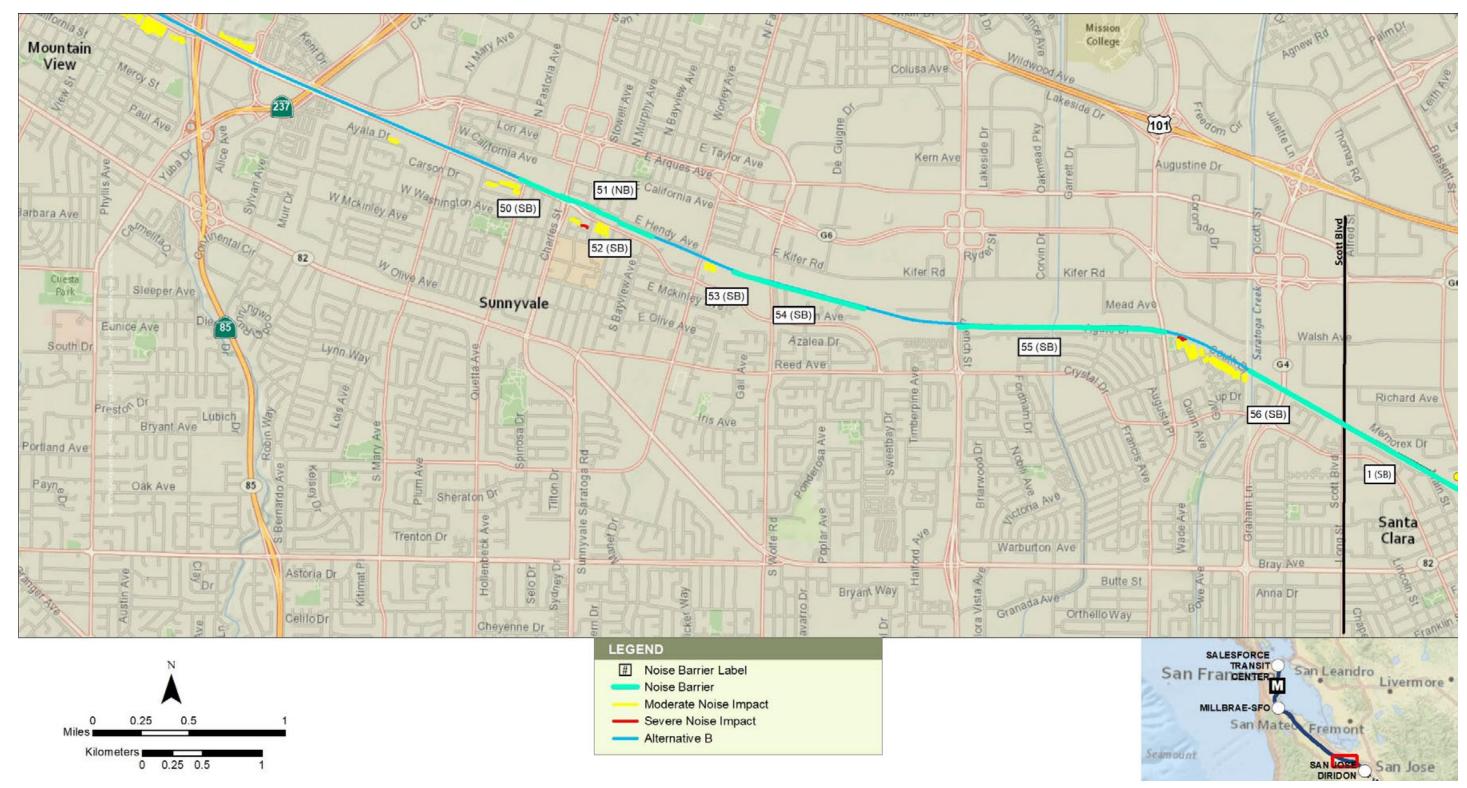


Figure C-110 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative B (Viaduct to I-880)







Figure C-111 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative B (Viaduct to I-880)



Figure C-112 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative B (Viaduct to I-880)





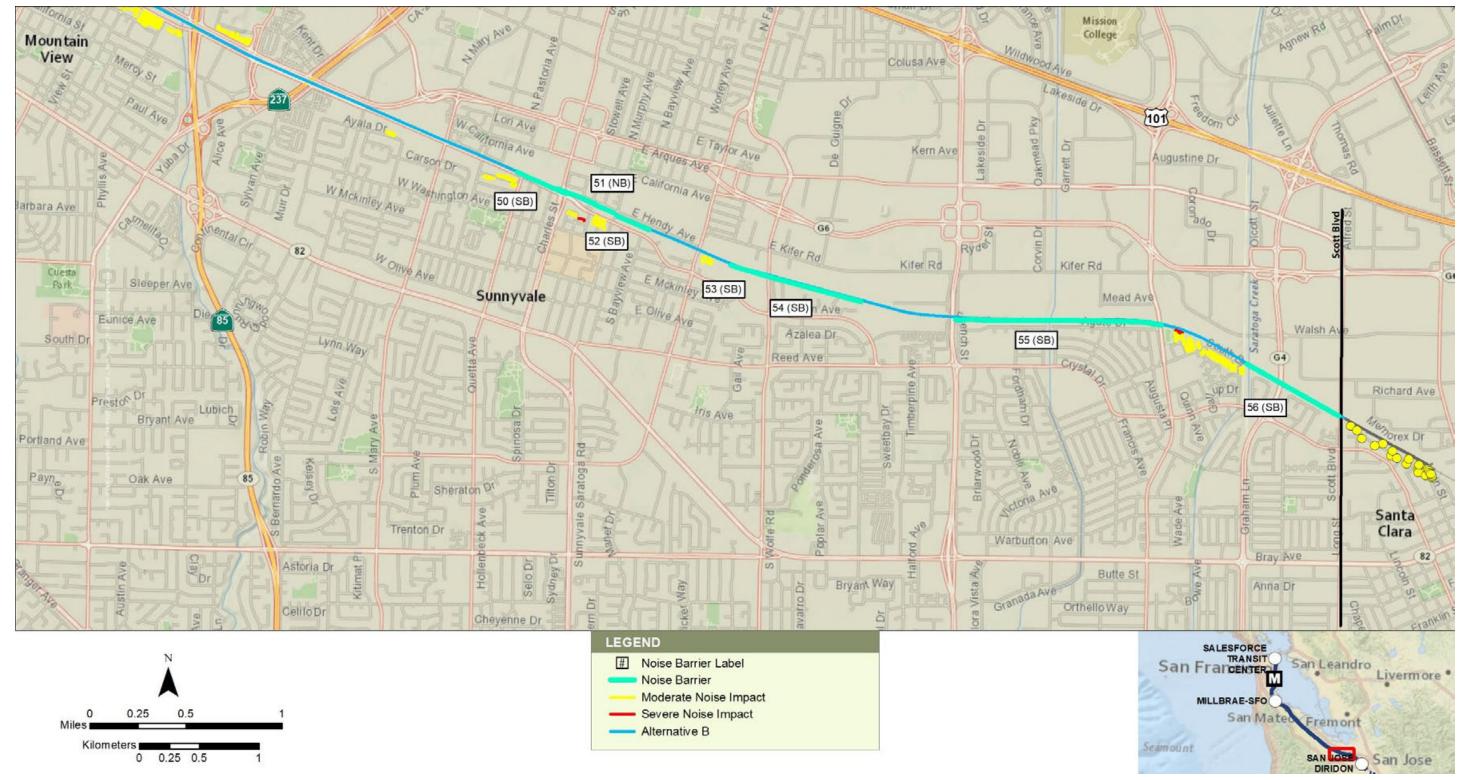


Figure C-113 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative B (Viaduct to Scott Boulevard)



Figure C-114 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative B (Viaduct to Scott Boulevard)



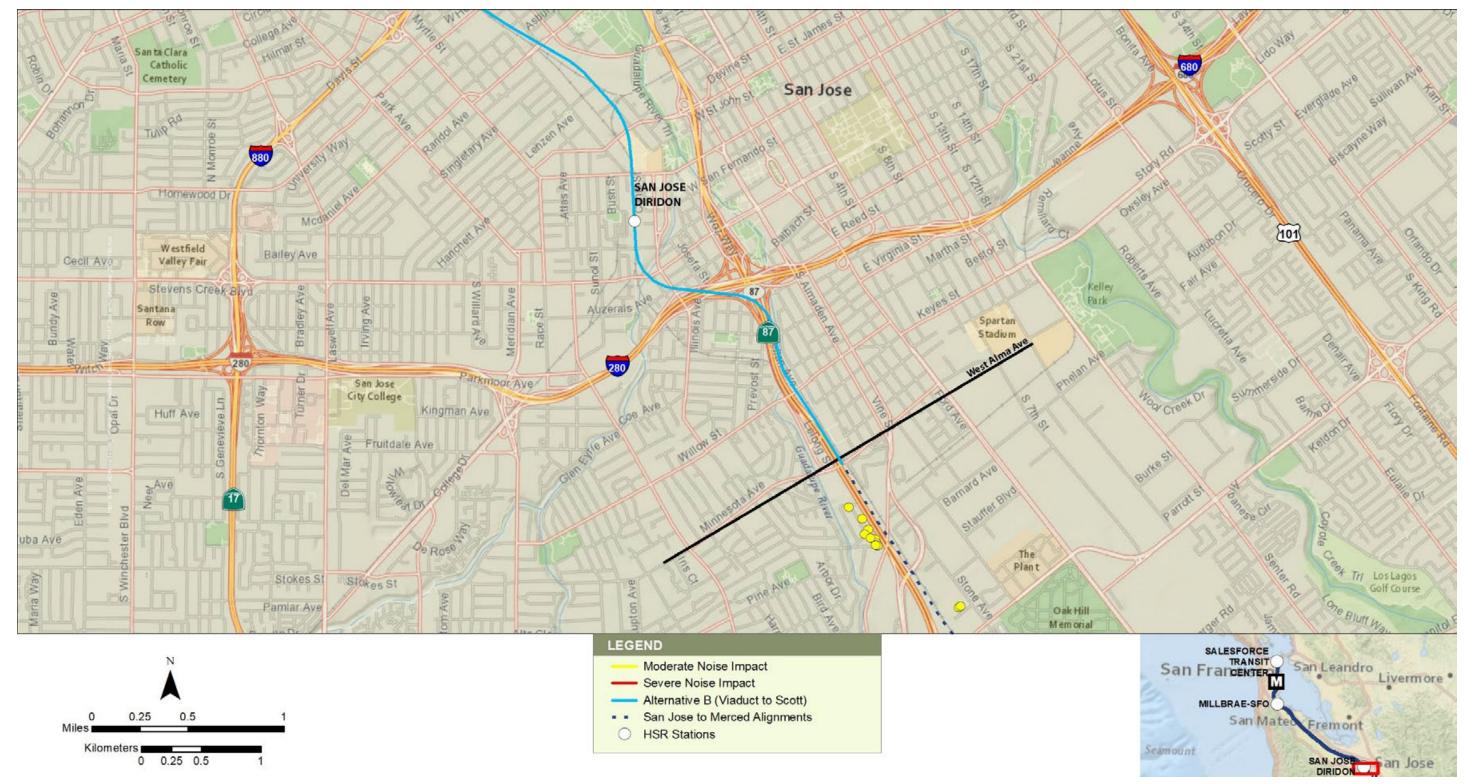


Figure C-115 2040 Plus Project Proposed Noise Barriers with Quiet Zones and Residual Noise Impacts—Alternative B (Viaduct to Scott Boulevard)

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2040 PLUS PROJECT VIBRATION IMPACT LOCATIONS

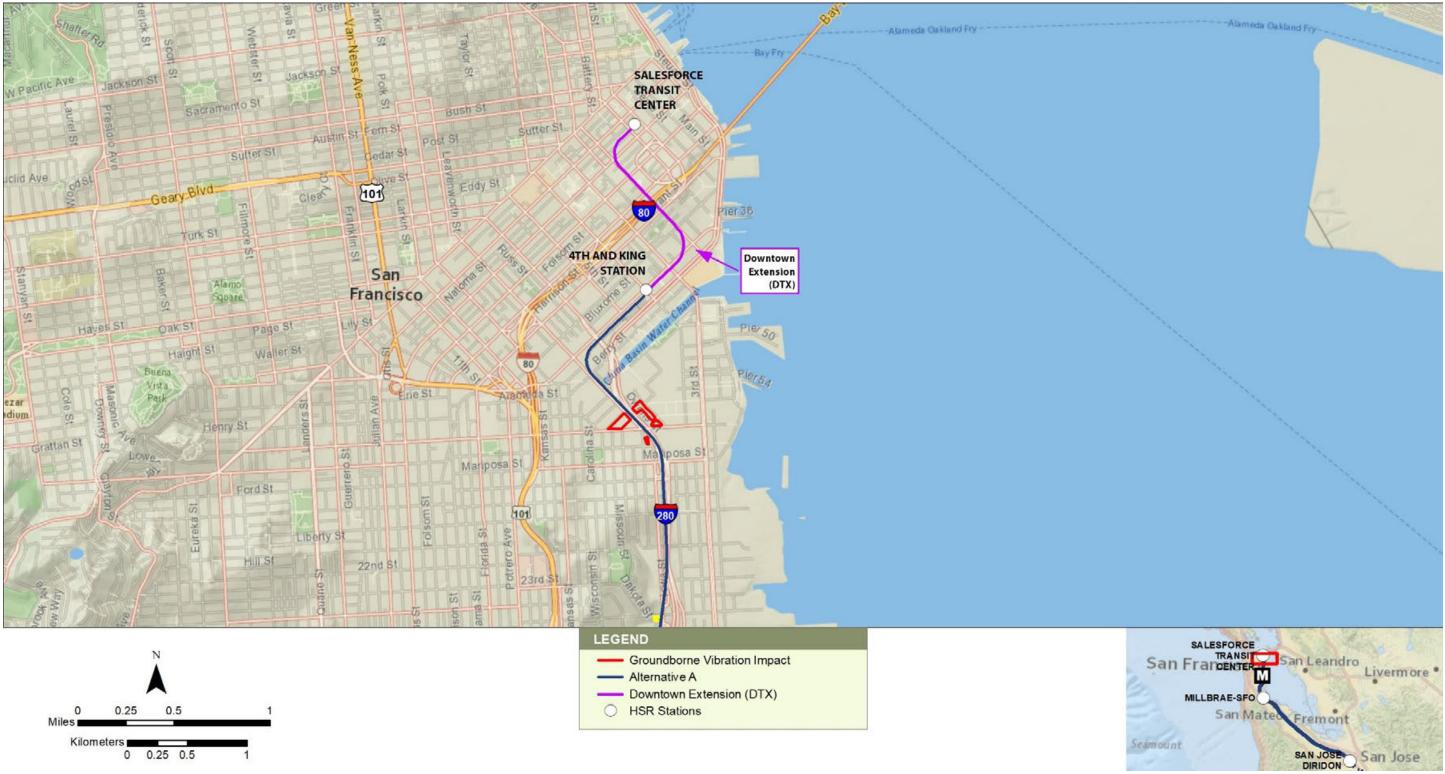
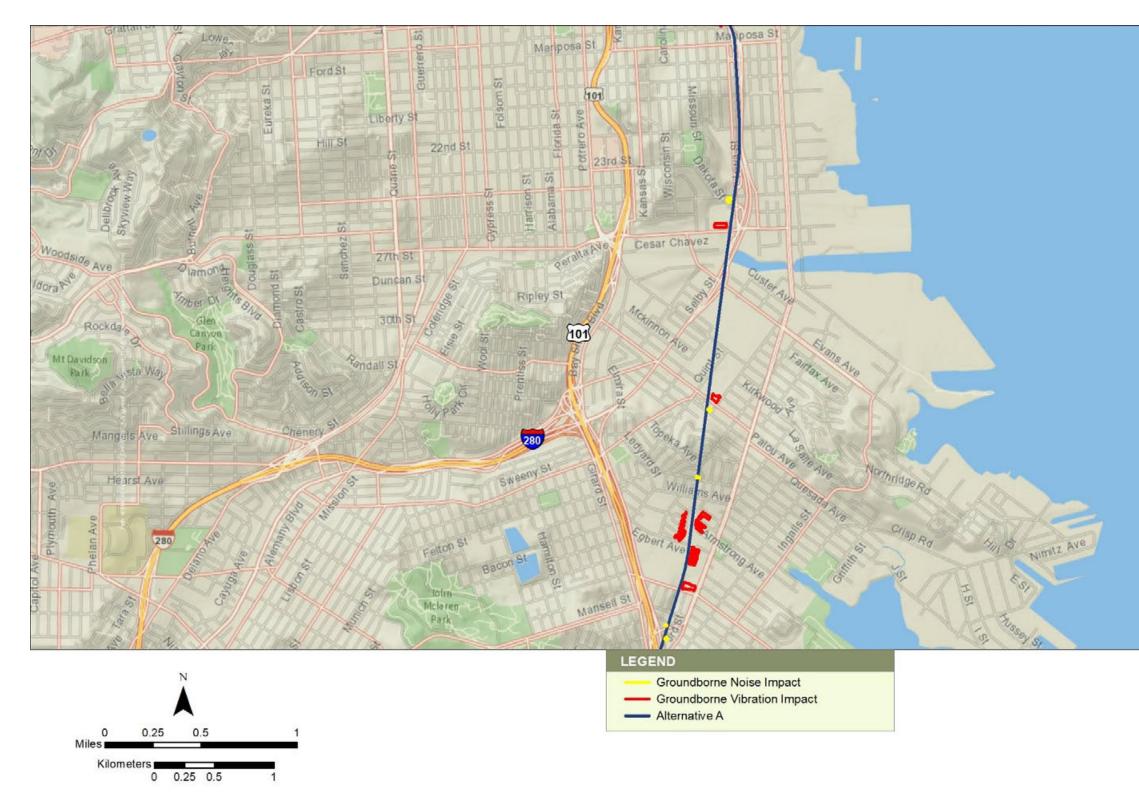


Figure C-116 2040 Plus Project Vibration Impact Locations—Alternative A





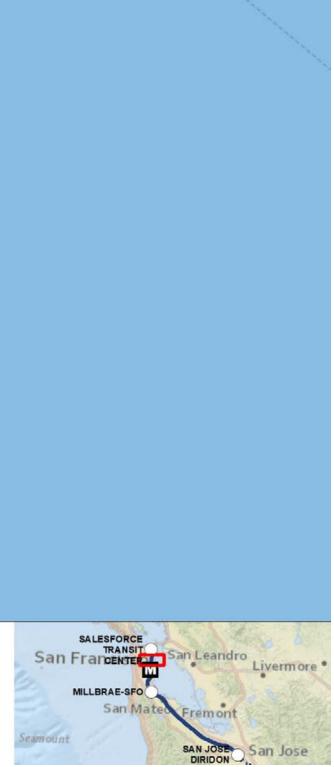
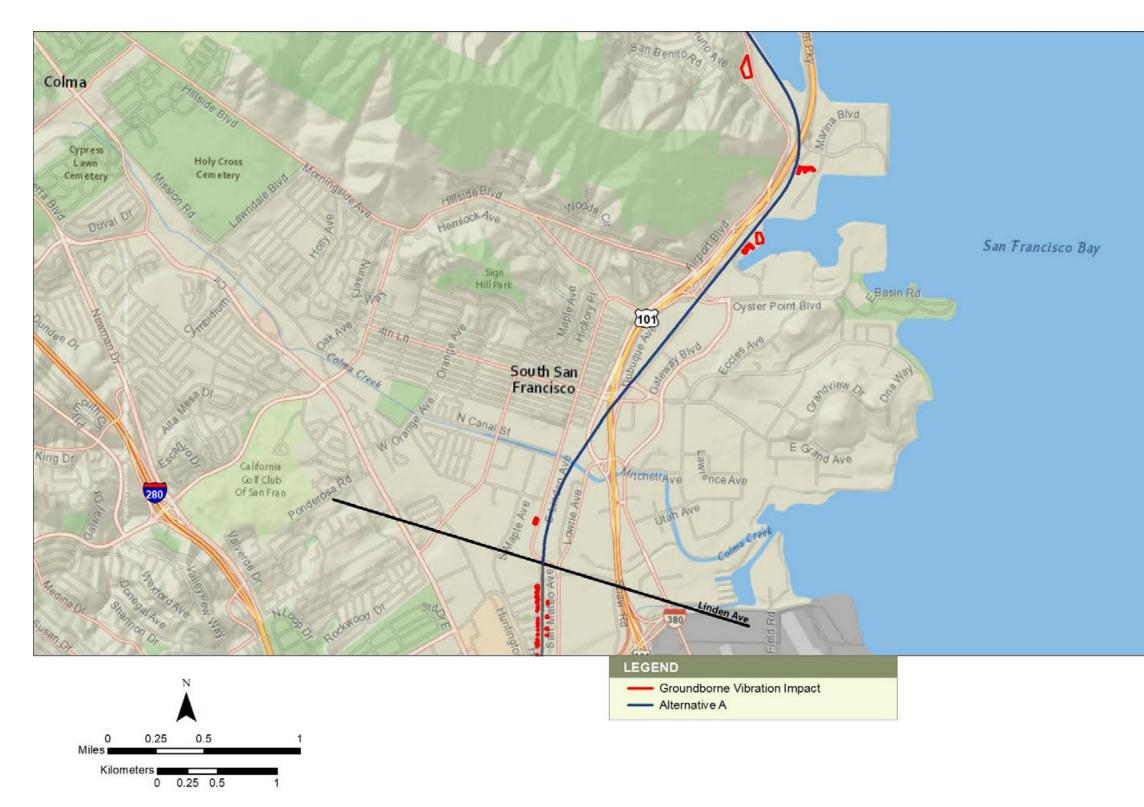


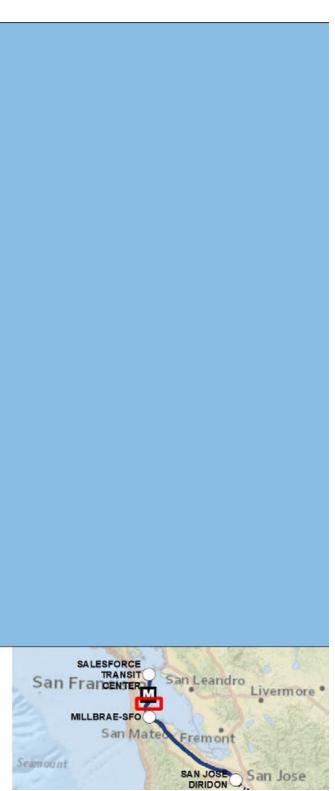
Figure C-117 2040 Plus Project Vibration Impact Locations—Alternative A





Figure C-118 2040 Plus Project Vibration Impact Locations—Alternative A





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Figure C-119 2040 Plus Project Vibration Impact Locations—Alternative A



Figure C-120 2040 Plus Project Vibration Impact Locations—Alternative A

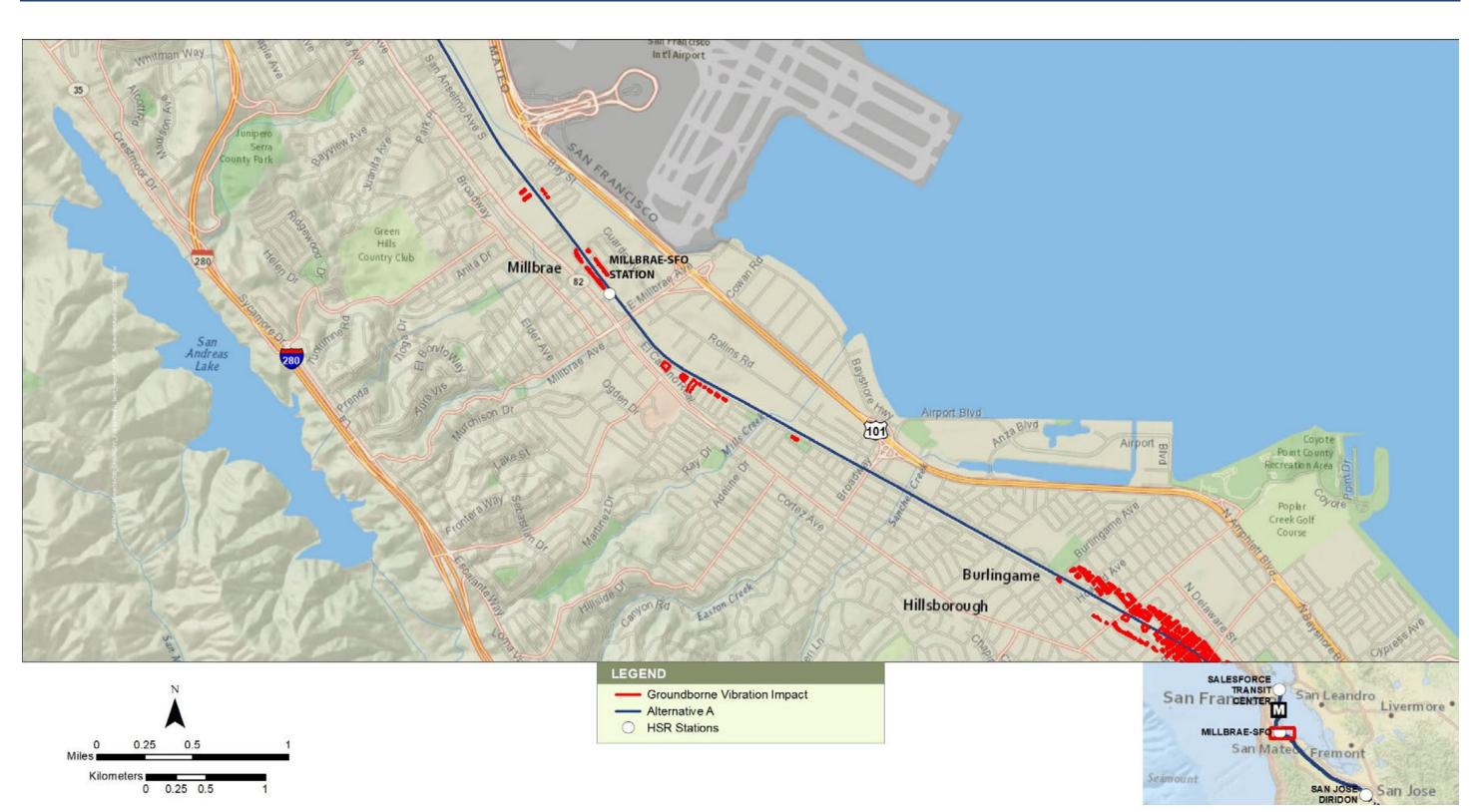


Figure C-121 2040 Plus Project Vibration Impact Locations—Alternative A

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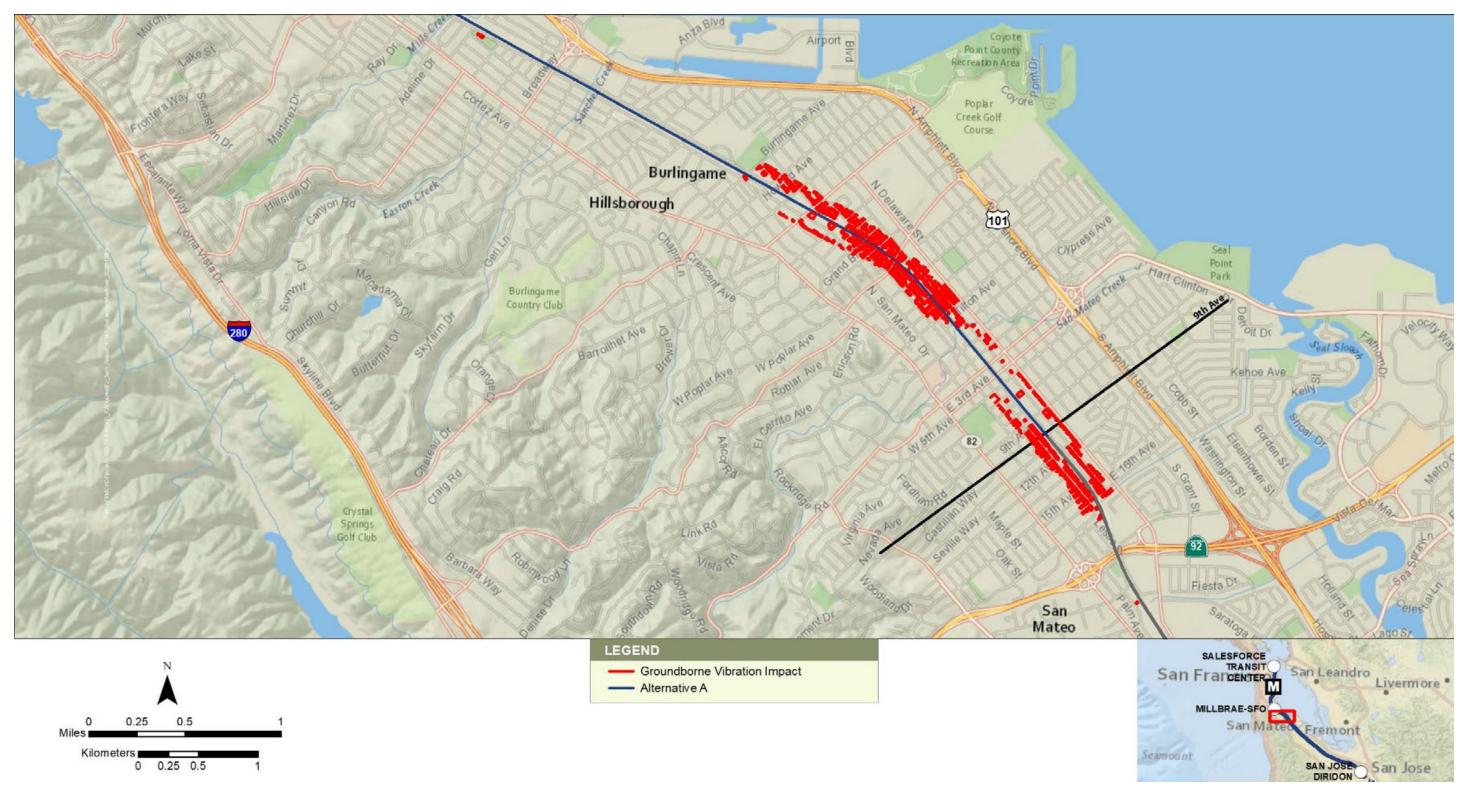


Figure C-122 2040 Plus Project Vibration Impact Locations—Alternative A





Figure C-123 2040 Plus Project Vibration Impact Locations—Alternative A



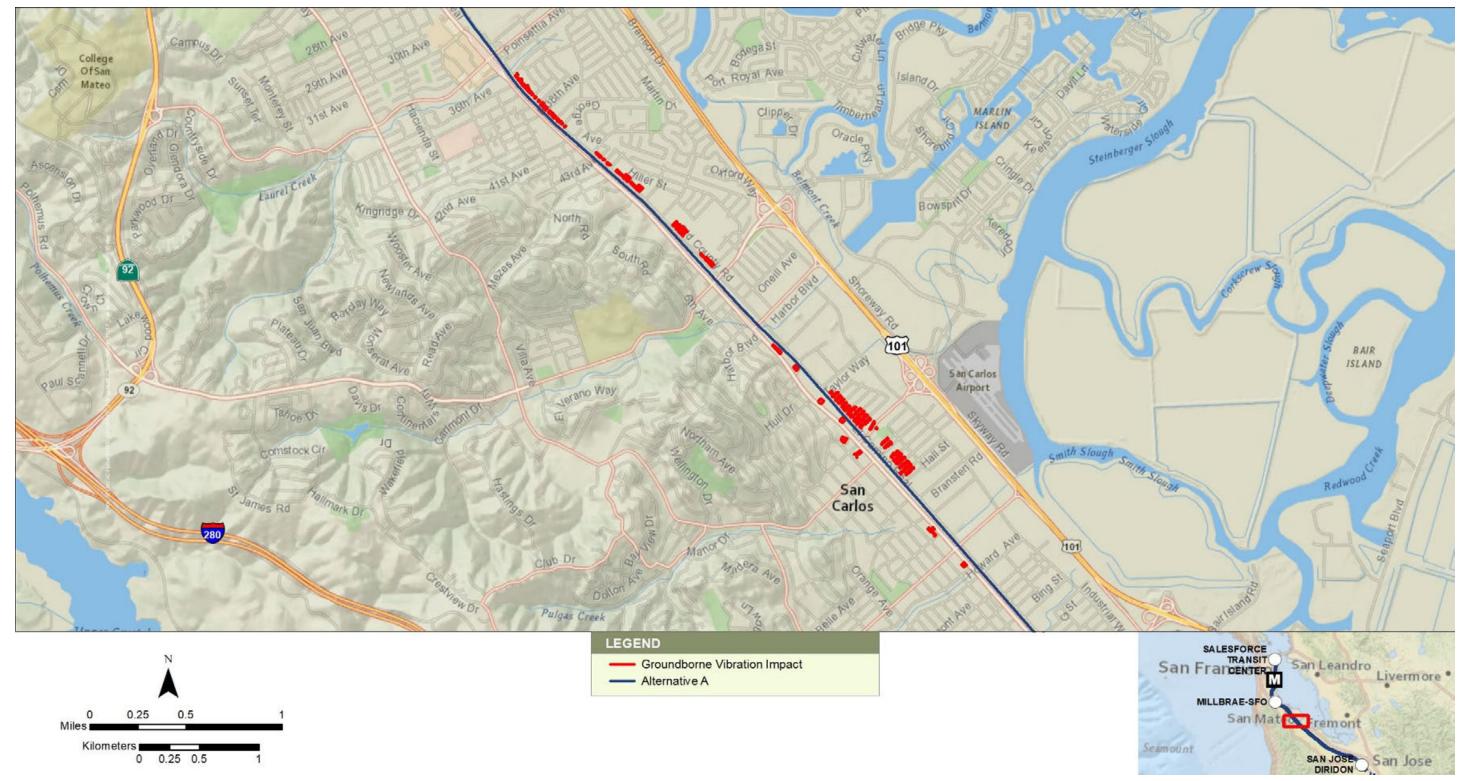


Figure C-124 2040 Plus Project Vibration Impact Locations—Alternative A

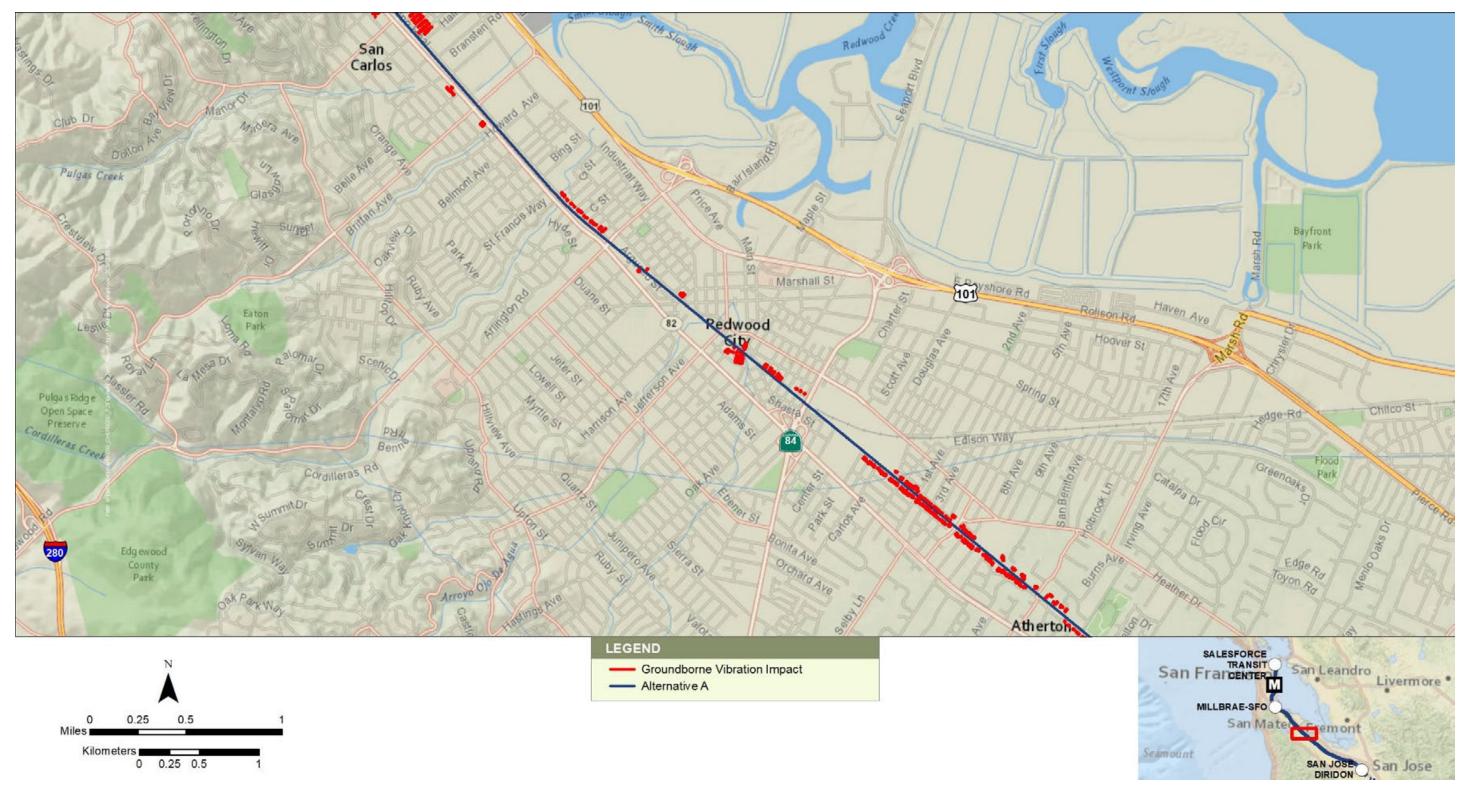




Figure C-125 2040 Plus Project Vibration Impact Locations—Alternative A

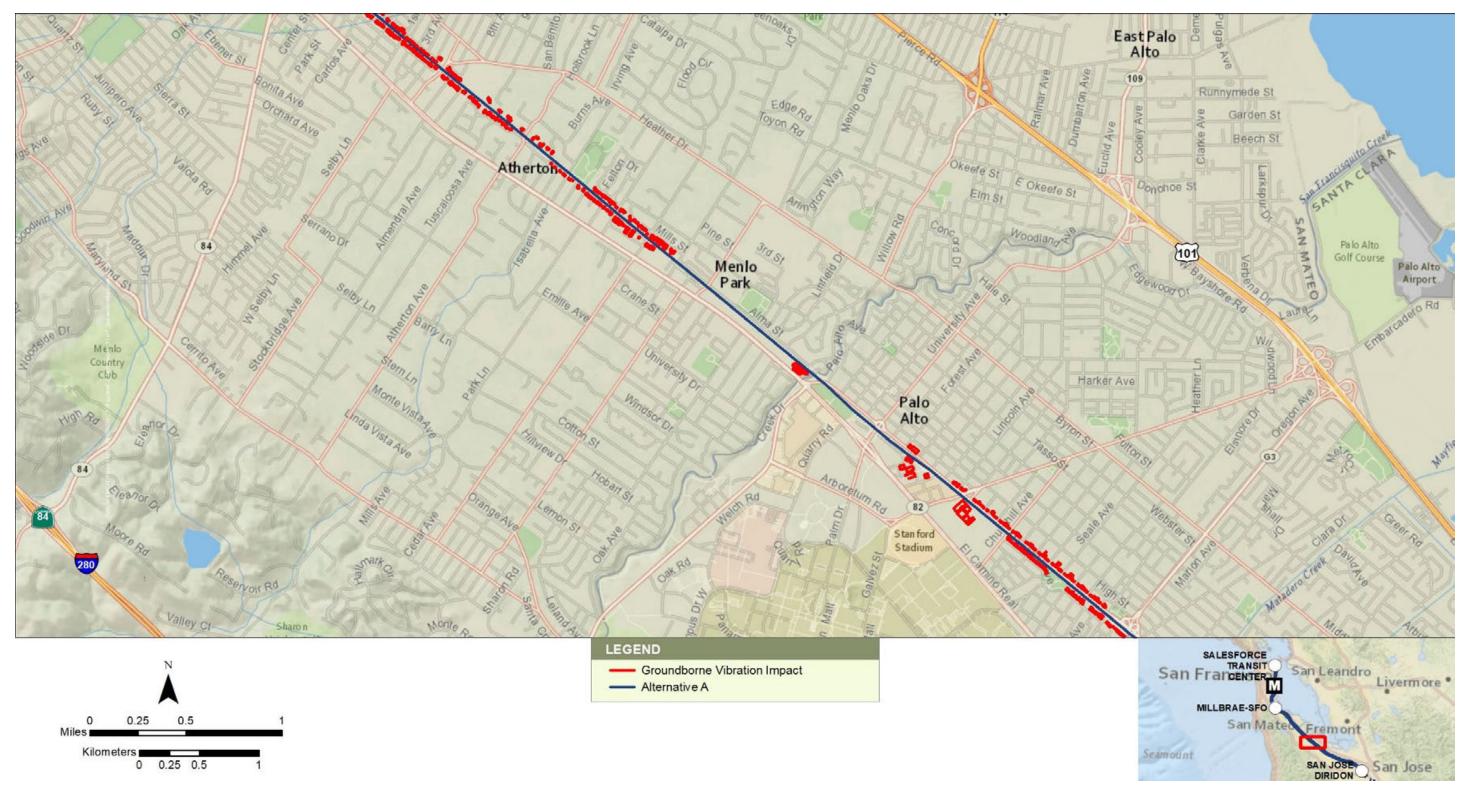


Figure C-126 2040 Plus Project Vibration Impact Locations—Alternative A

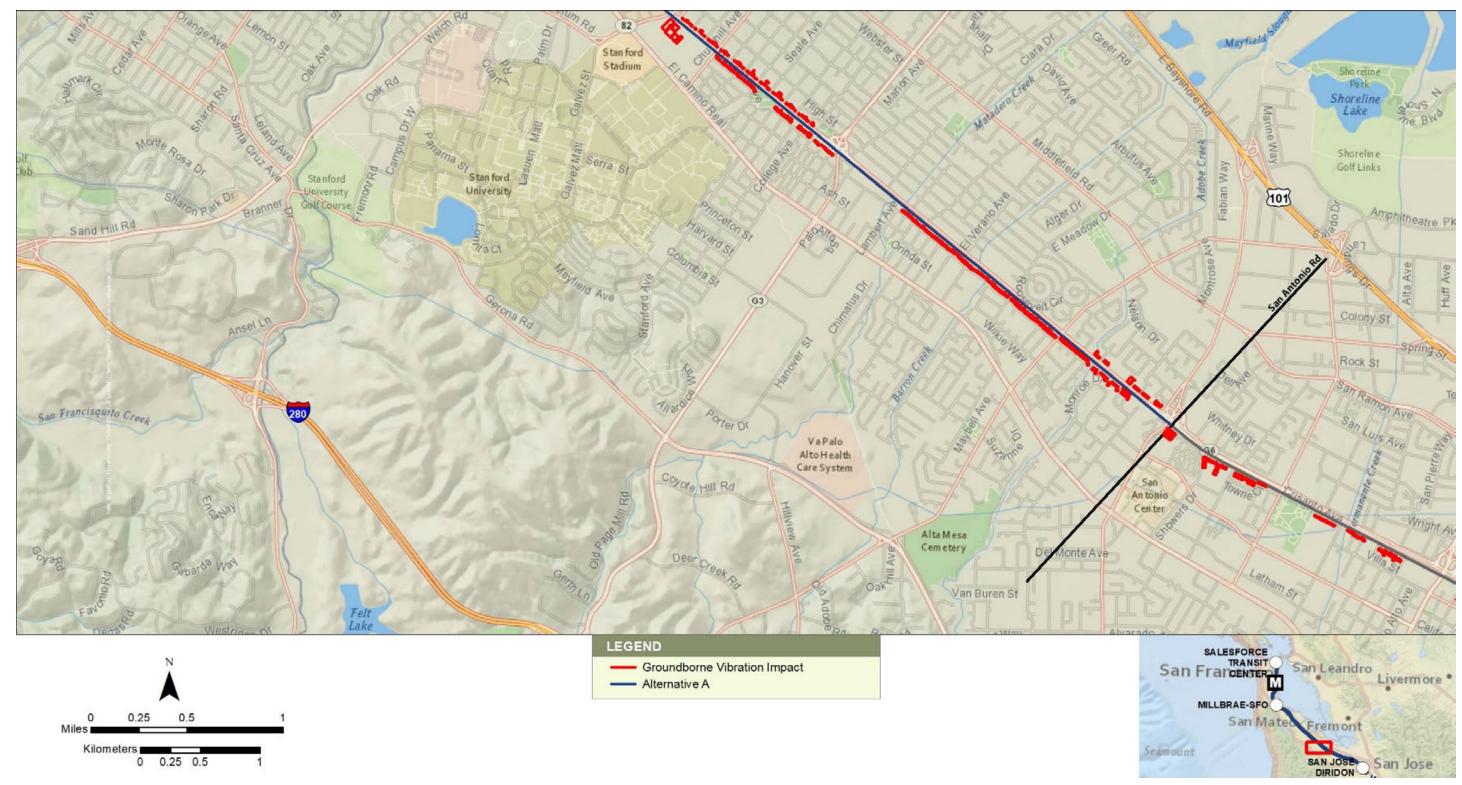




Figure C-127 2040 Plus Project Vibration Impact Locations—Alternative A



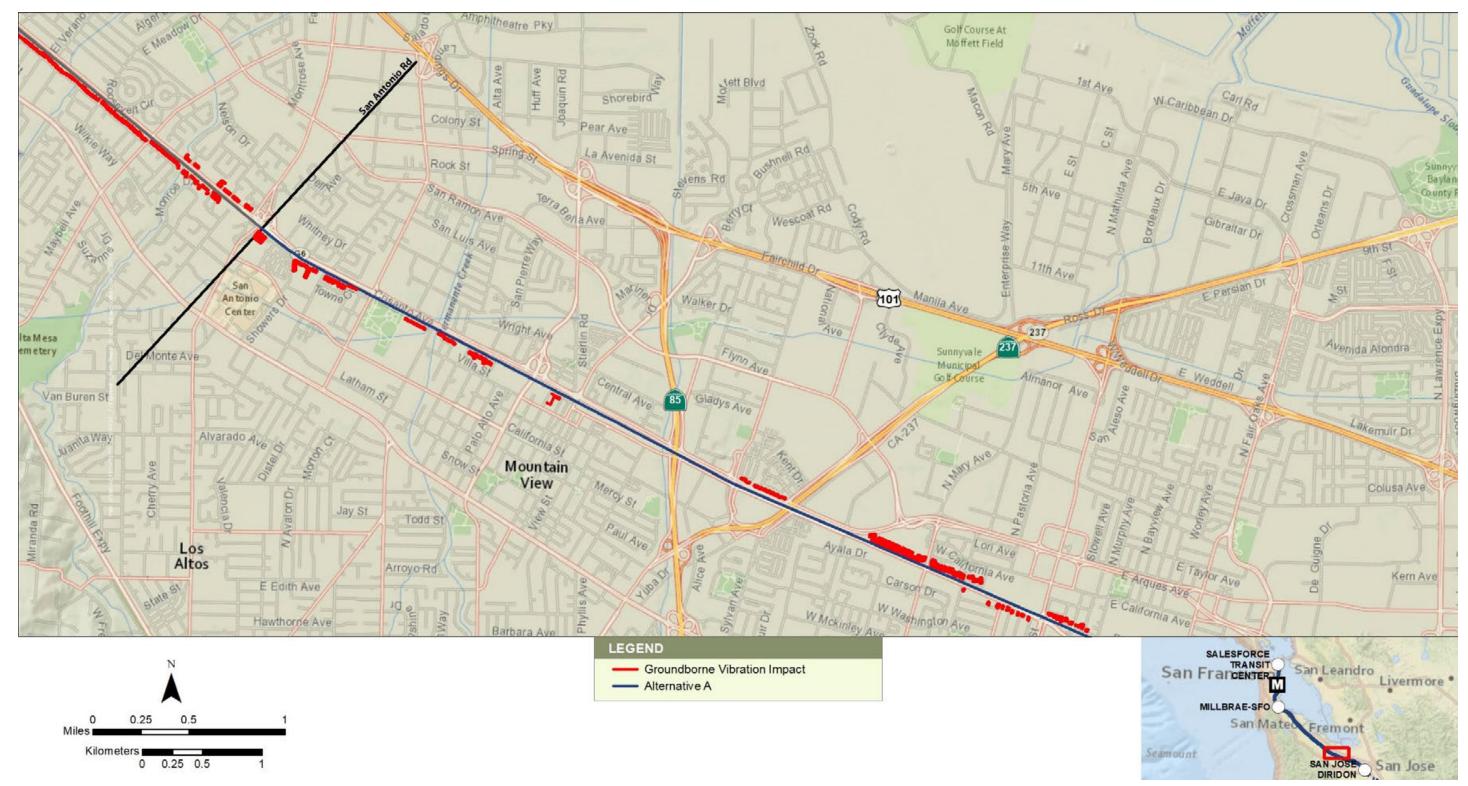


Figure C-128 2040 Plus Project Vibration Impact Locations—Alternative A

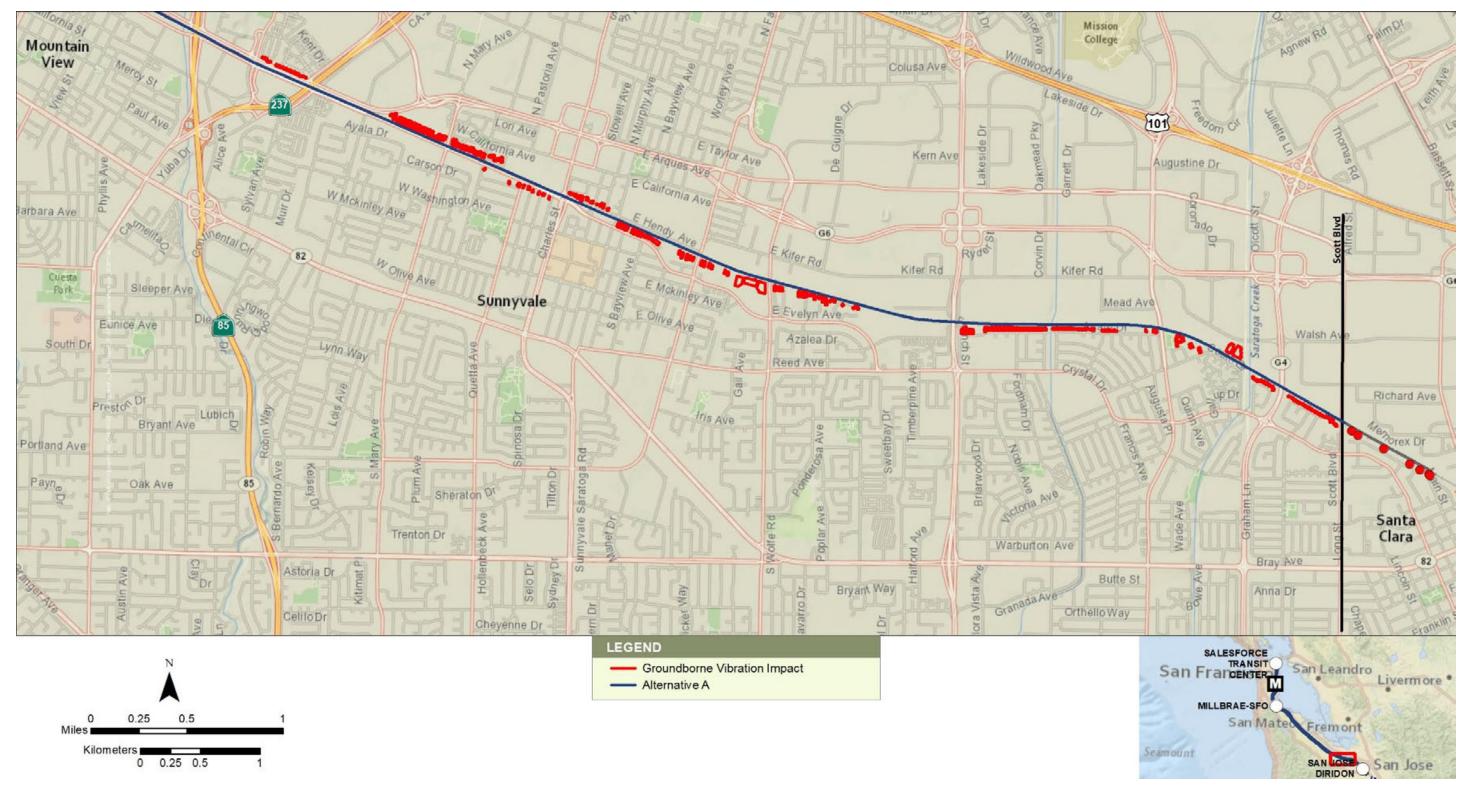




Figure C-129 2040 Plus Project Vibration Impact Locations—Alternative A





Figure C-130 2040 Plus Project Vibration Impact Locations—Alternative A

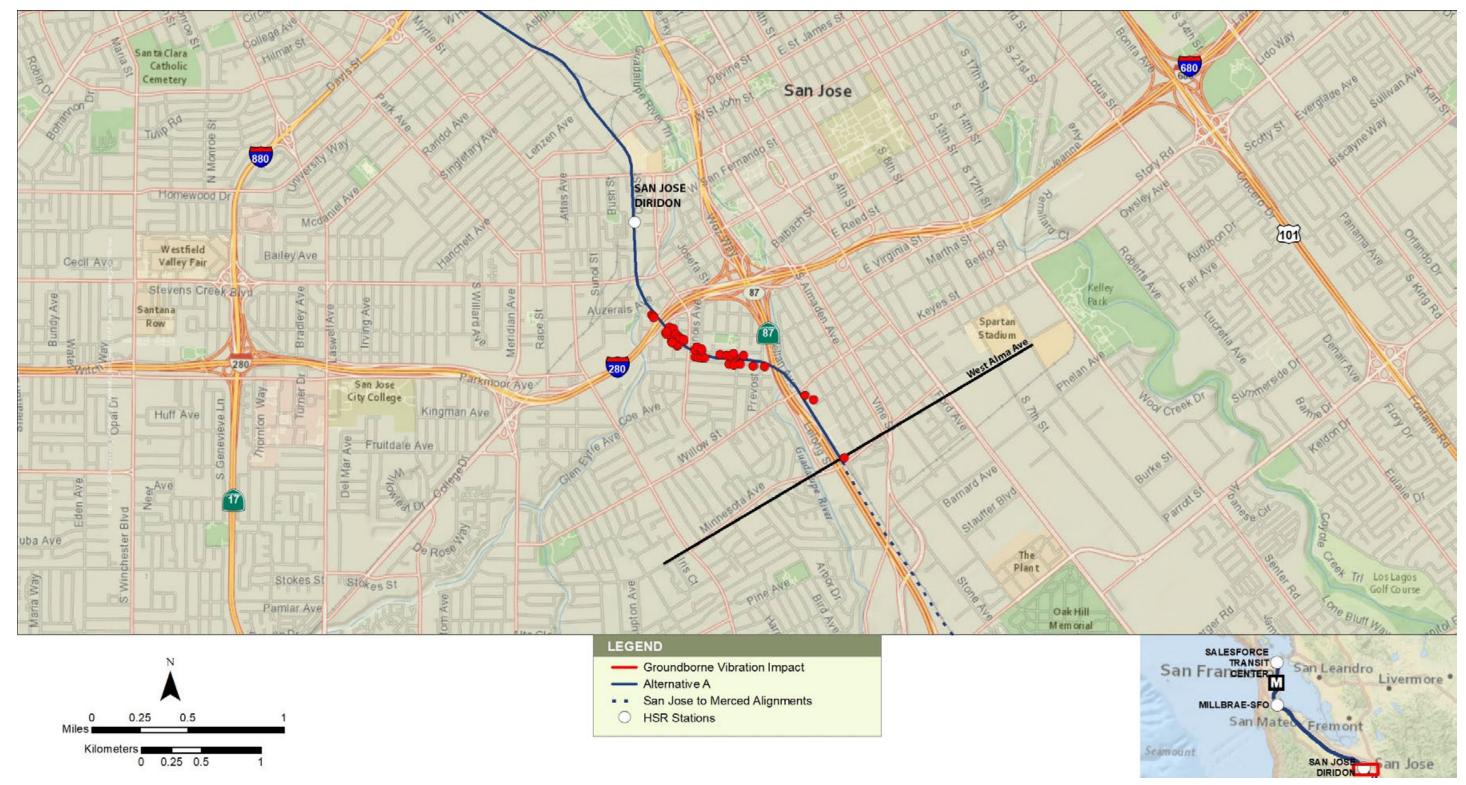




Figure C-131 2040 Plus Project Vibration Impact Locations—Alternative A



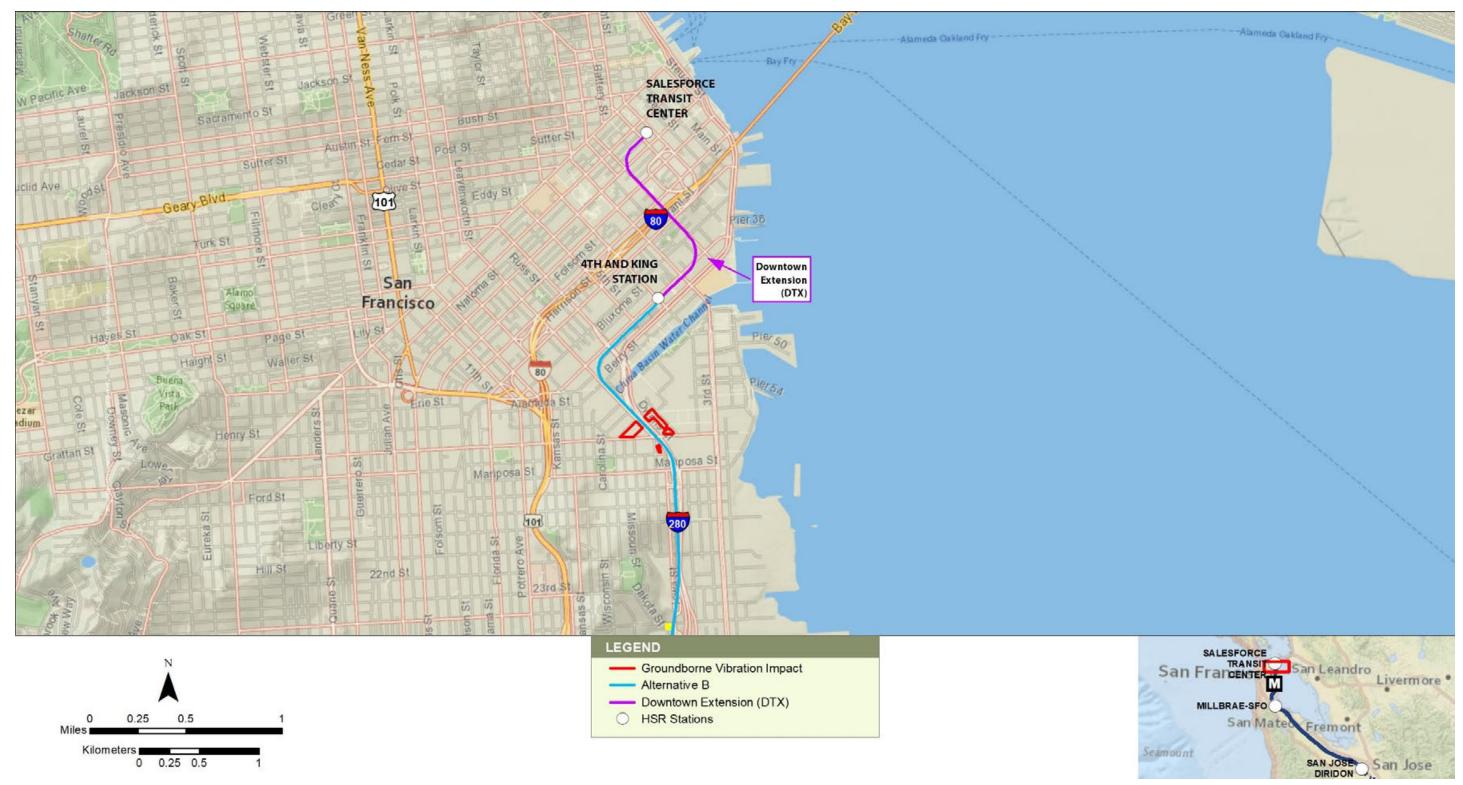
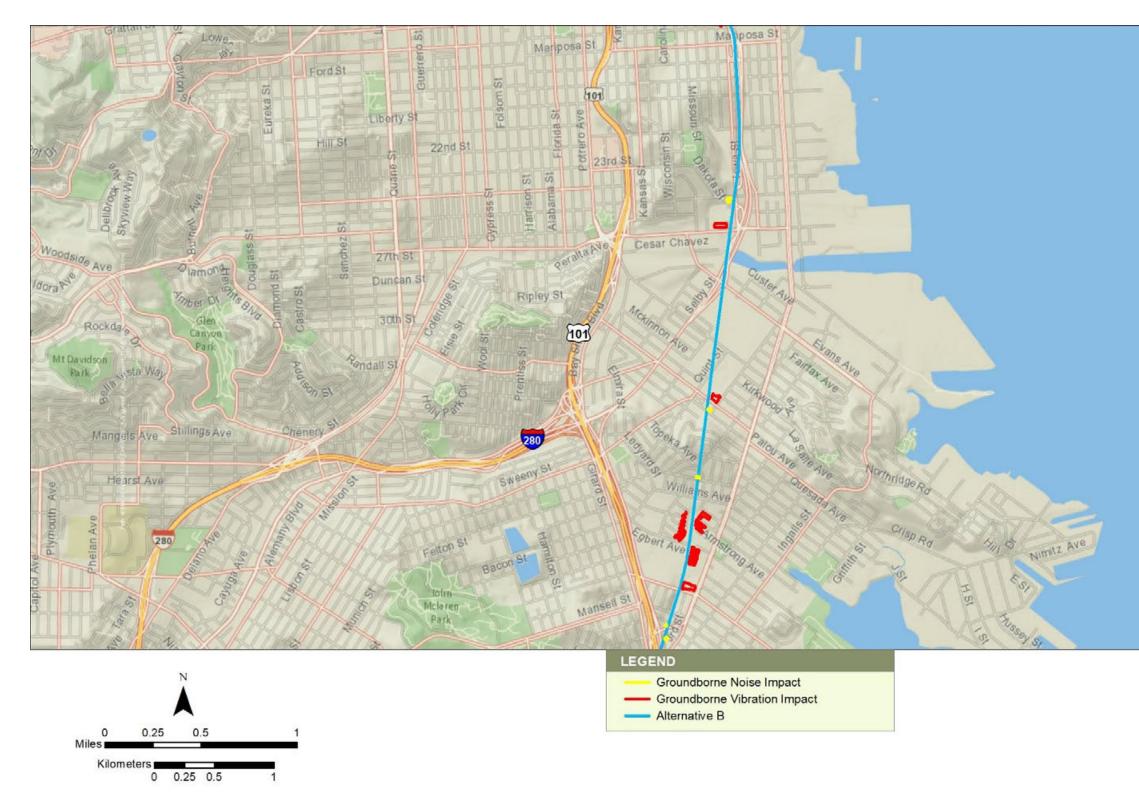


Figure C-132 2040 Plus Project Vibration Impact Locations—Alternative B





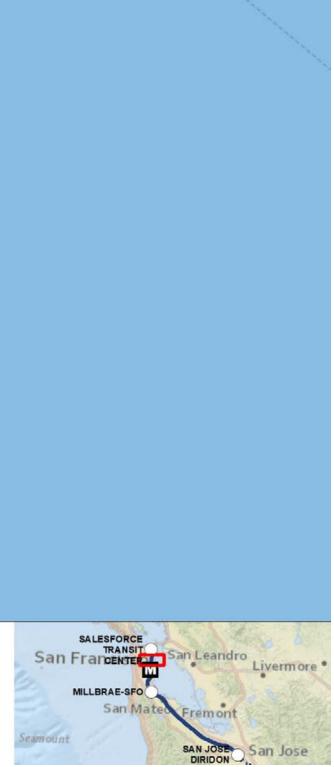


Figure C-133 2040 Plus Project Vibration Impact Locations—Alternative B





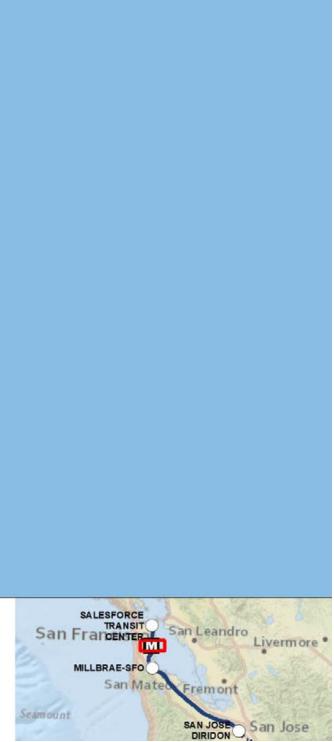
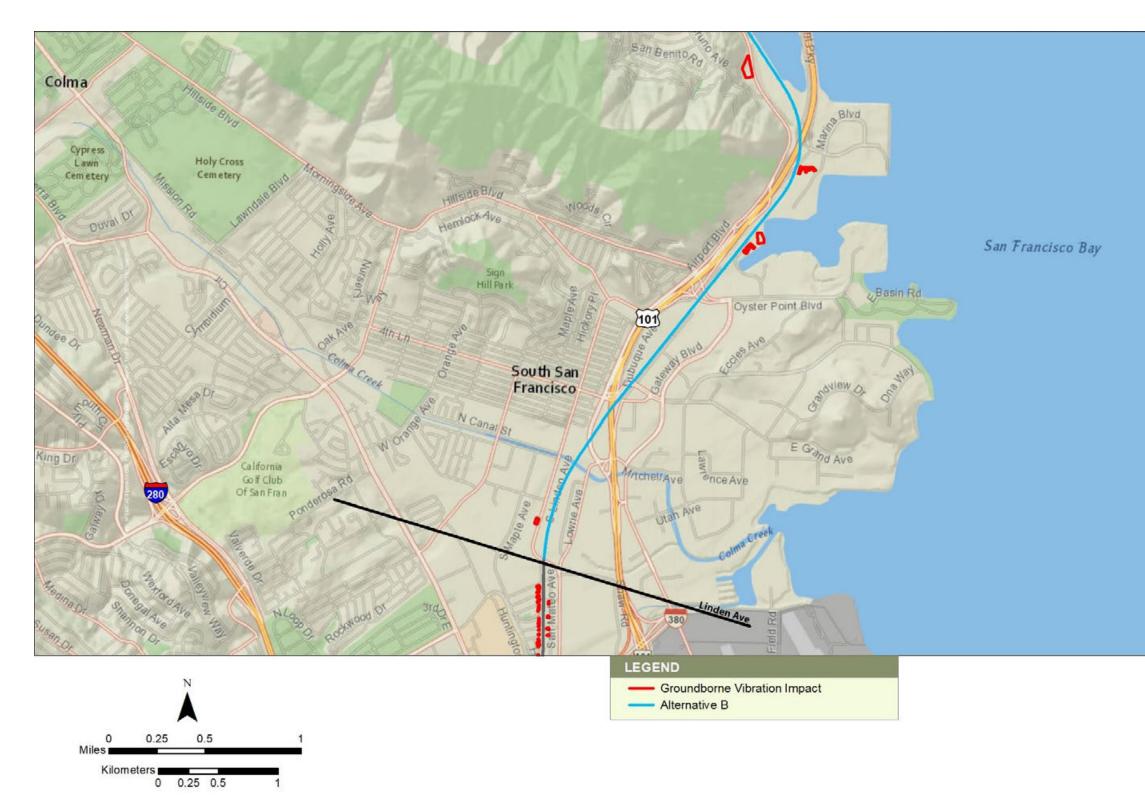
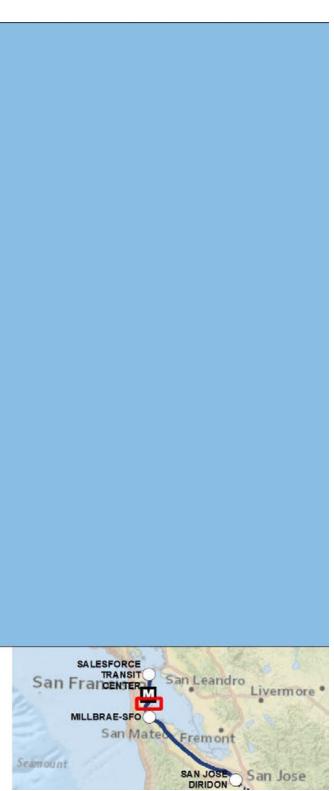


Figure C-134 2040 Plus Project Vibration Impact Locations—Alternative B





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Figure C-135 2040 Plus Project Vibration Impact Locations—Alternative B



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Figure C-136 2040 Plus Project Vibration Impact Locations—Alternative B



Figure C-137 2040 Plus Project Vibration Impact Locations—Alternative B

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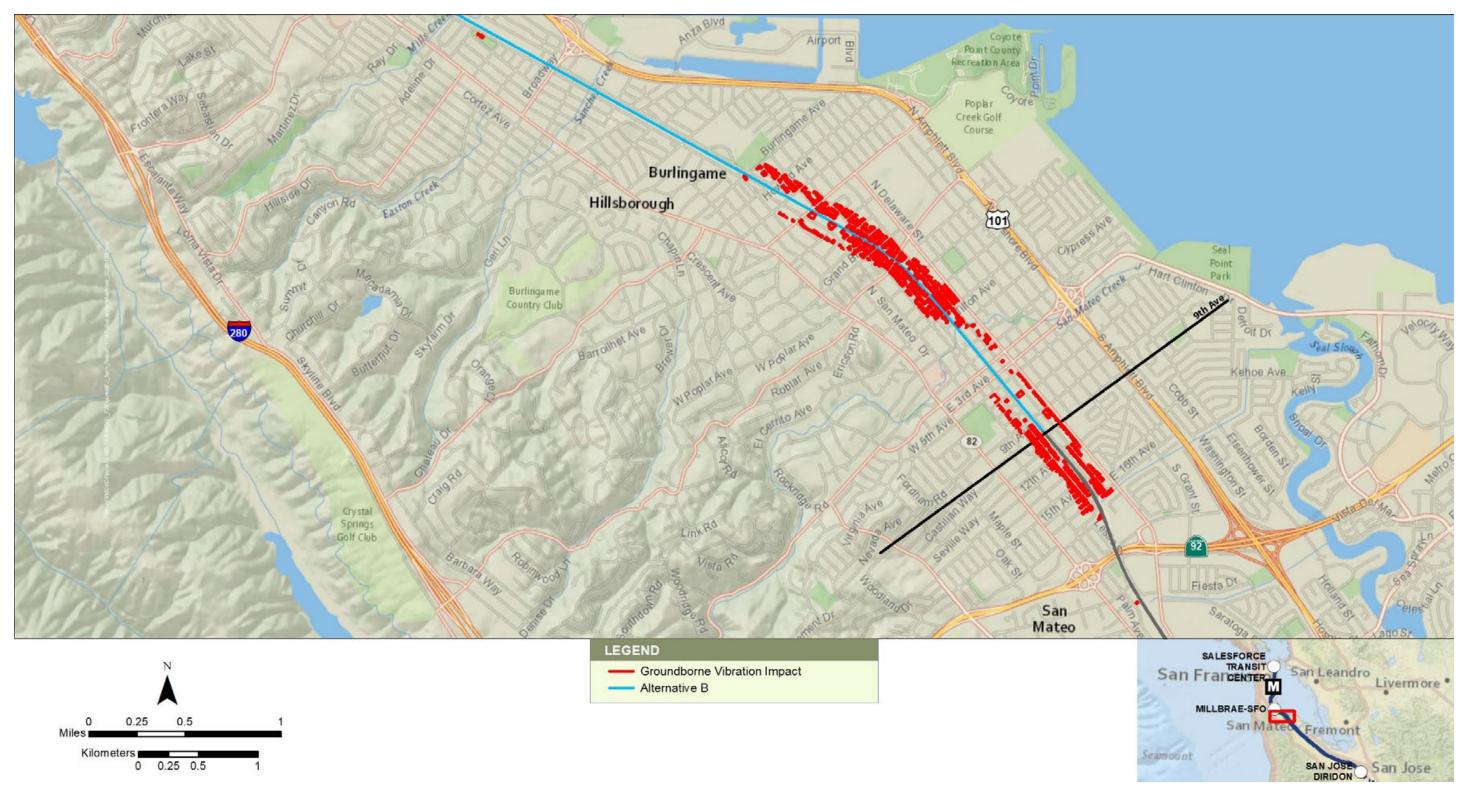


Figure C-138 2040 Plus Project Vibration Impact Locations—Alternative B





Figure C-139 2040 Plus Project Vibration Impact Locations—Alternative B



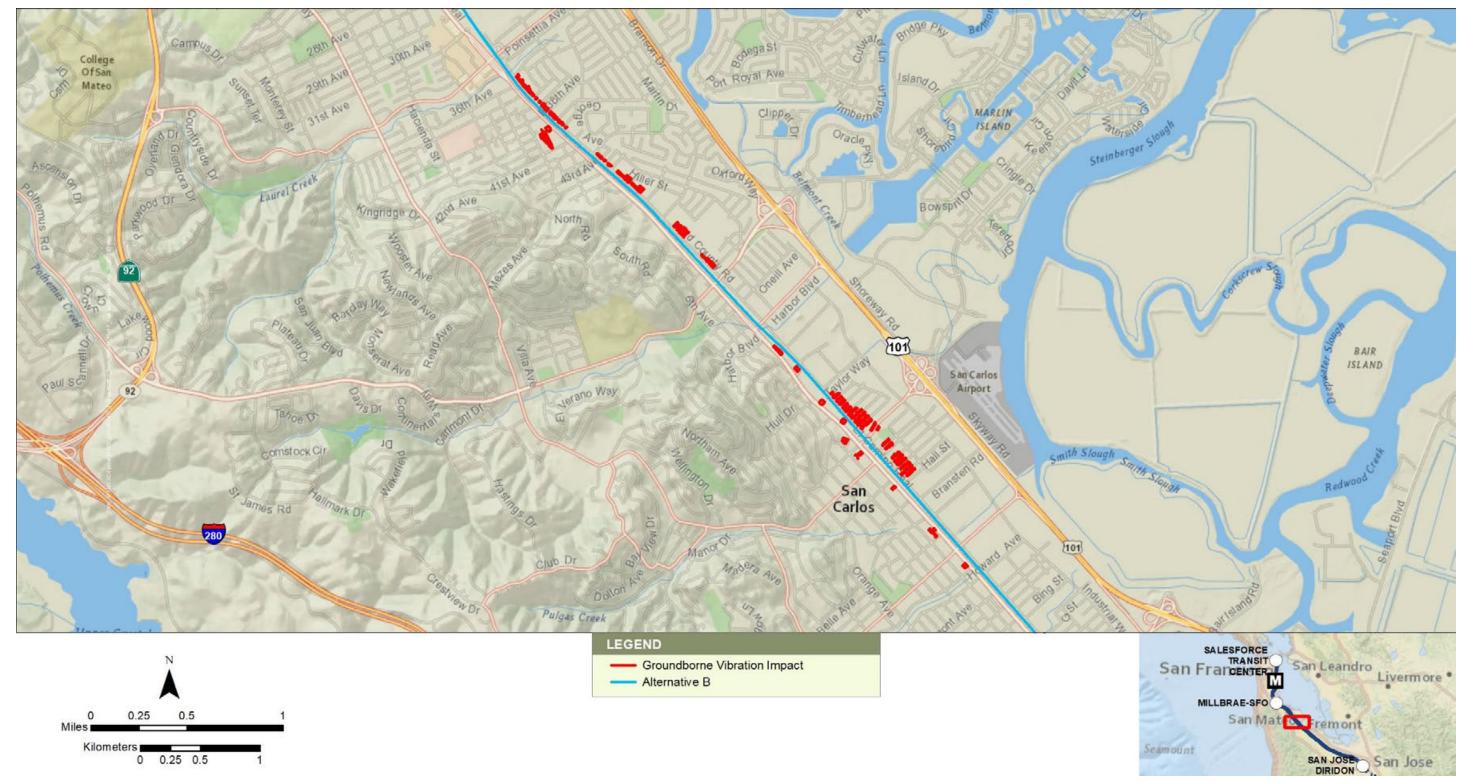


Figure C-140 2040 Plus Project Vibration Impact Locations—Alternative B

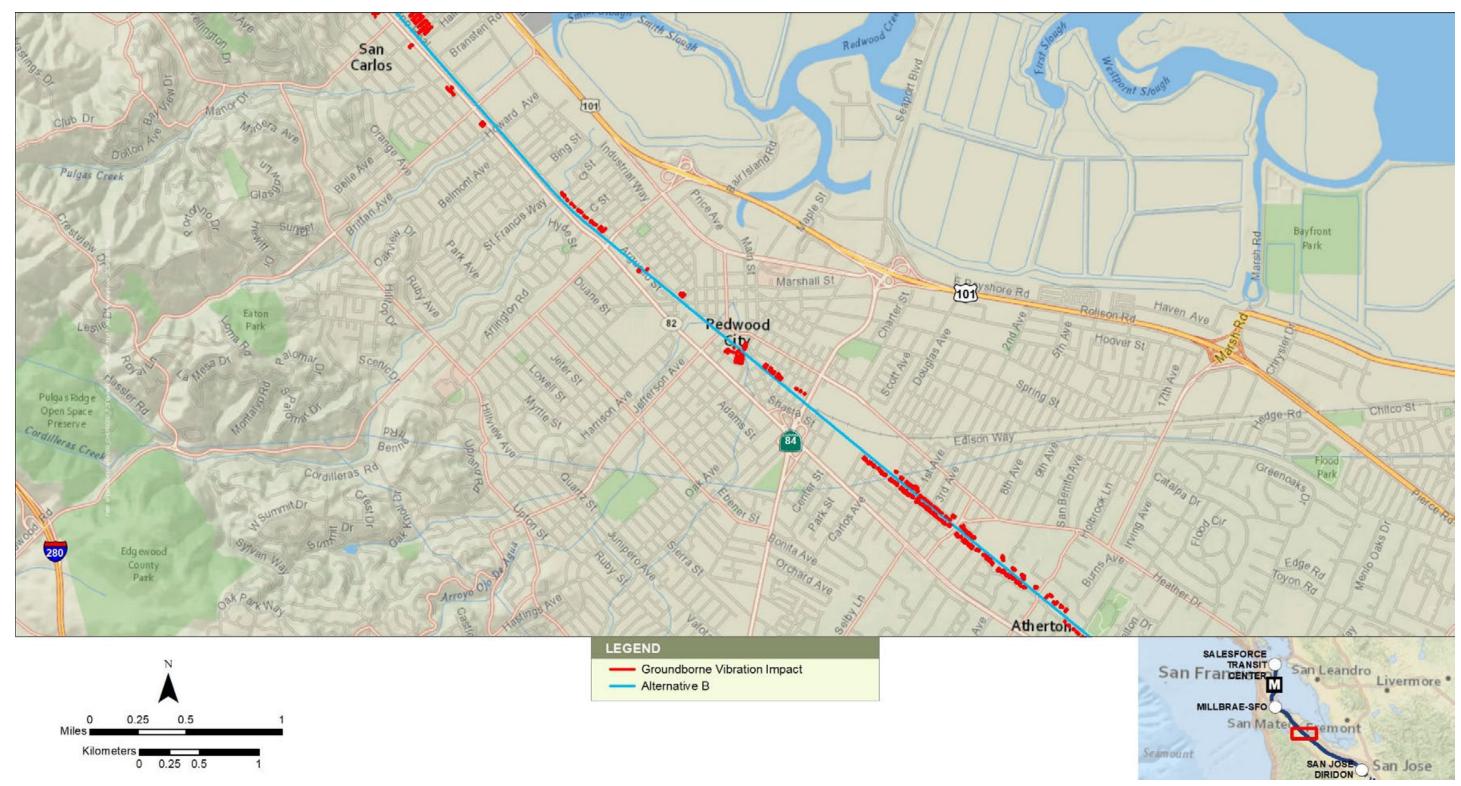




Figure C-141 2040 Plus Project Vibration Impact Locations—Alternative B

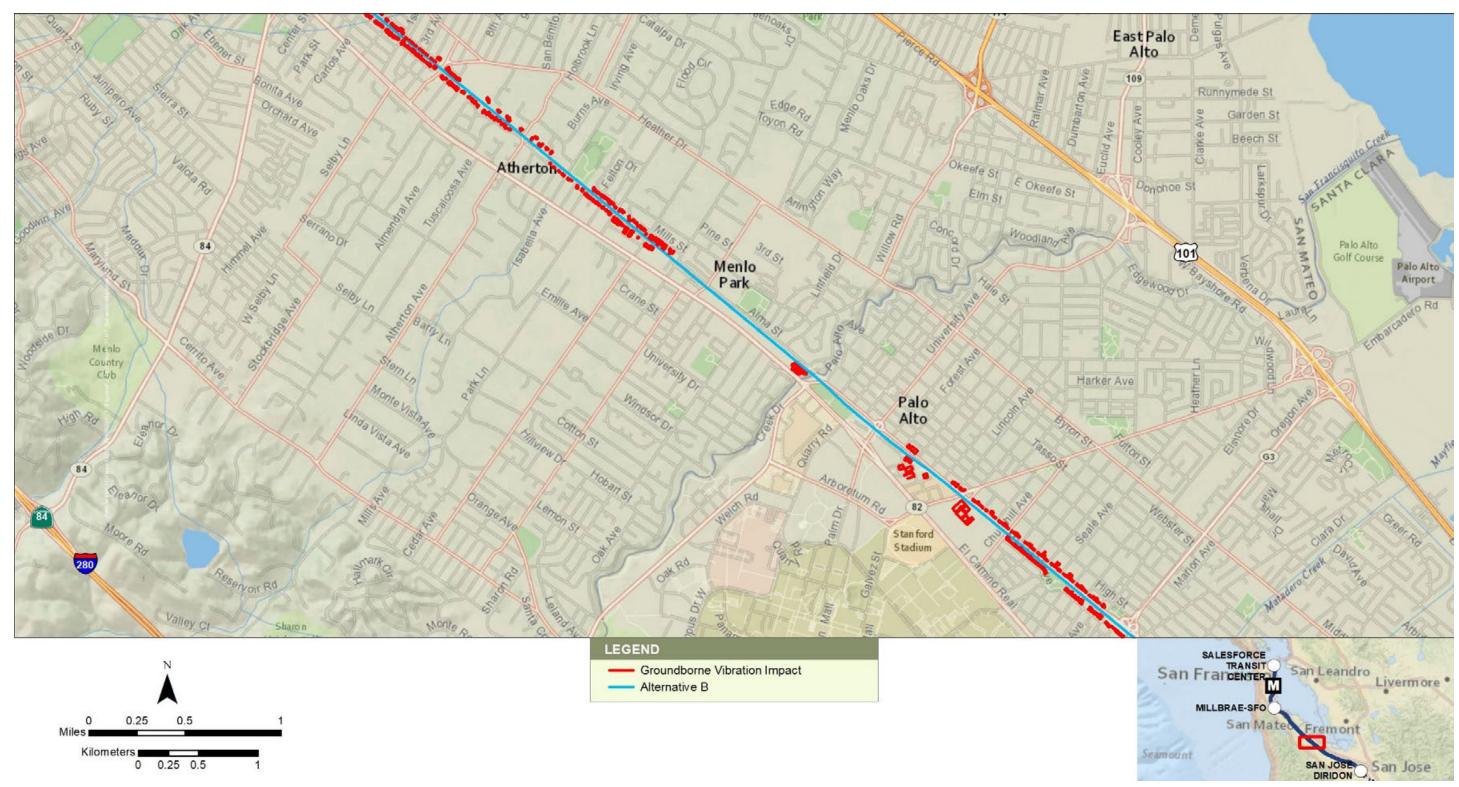


Figure C-142 2040 Plus Project Vibration Impact Locations—Alternative B

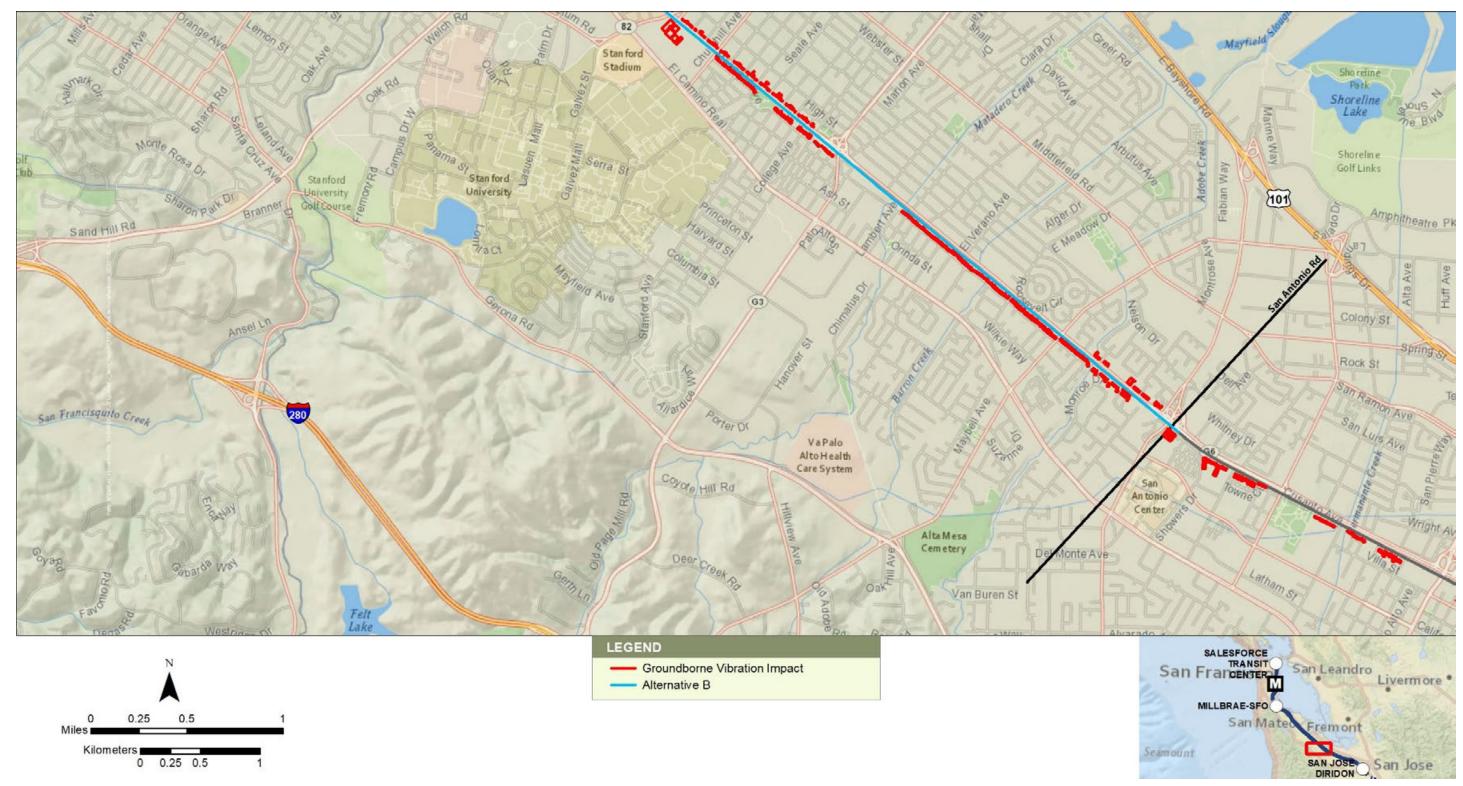




Figure C-143 2040 Plus Project Vibration Impact Locations—Alternative B



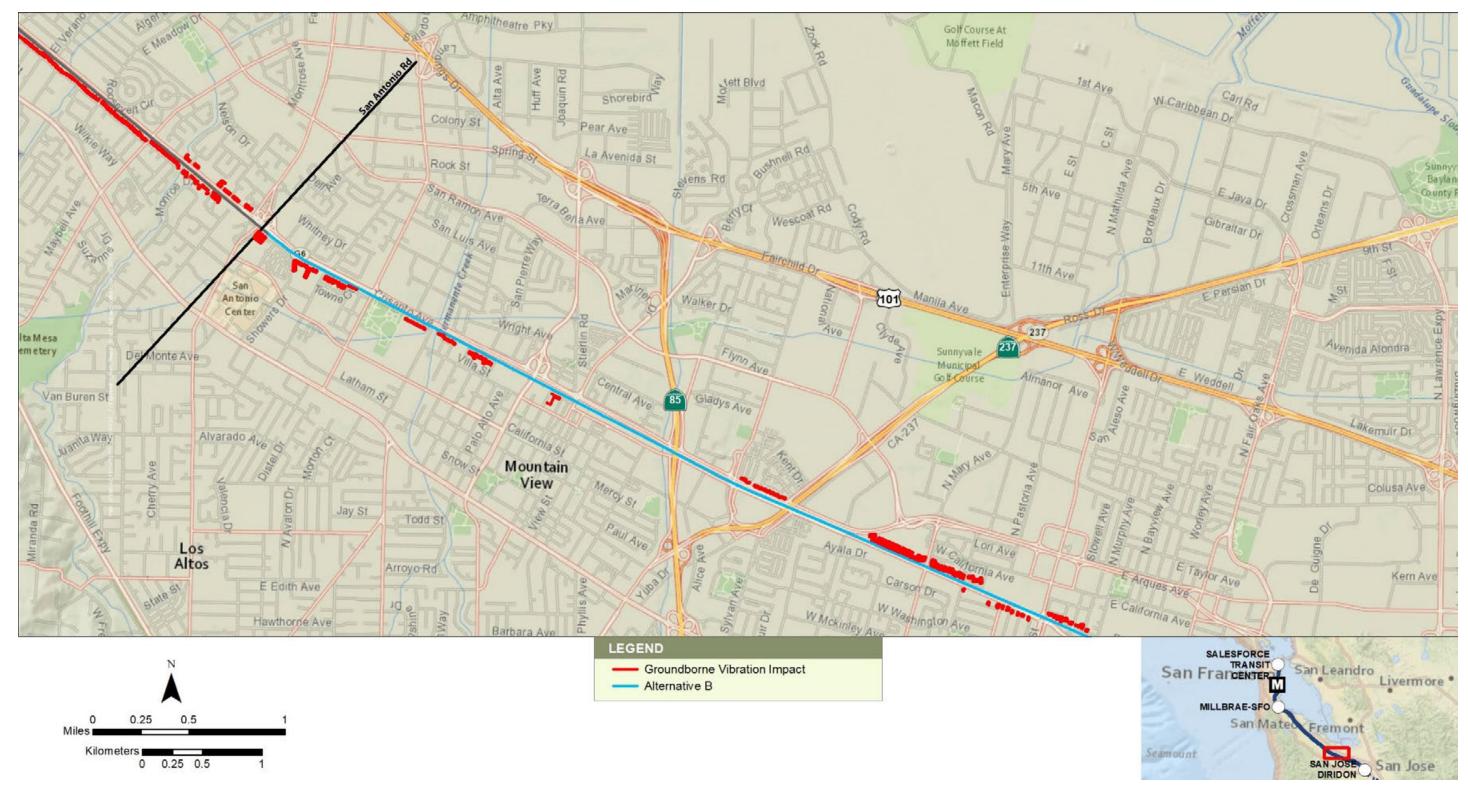


Figure C-144 2040 Plus Project Vibration Impact Locations—Alternative B

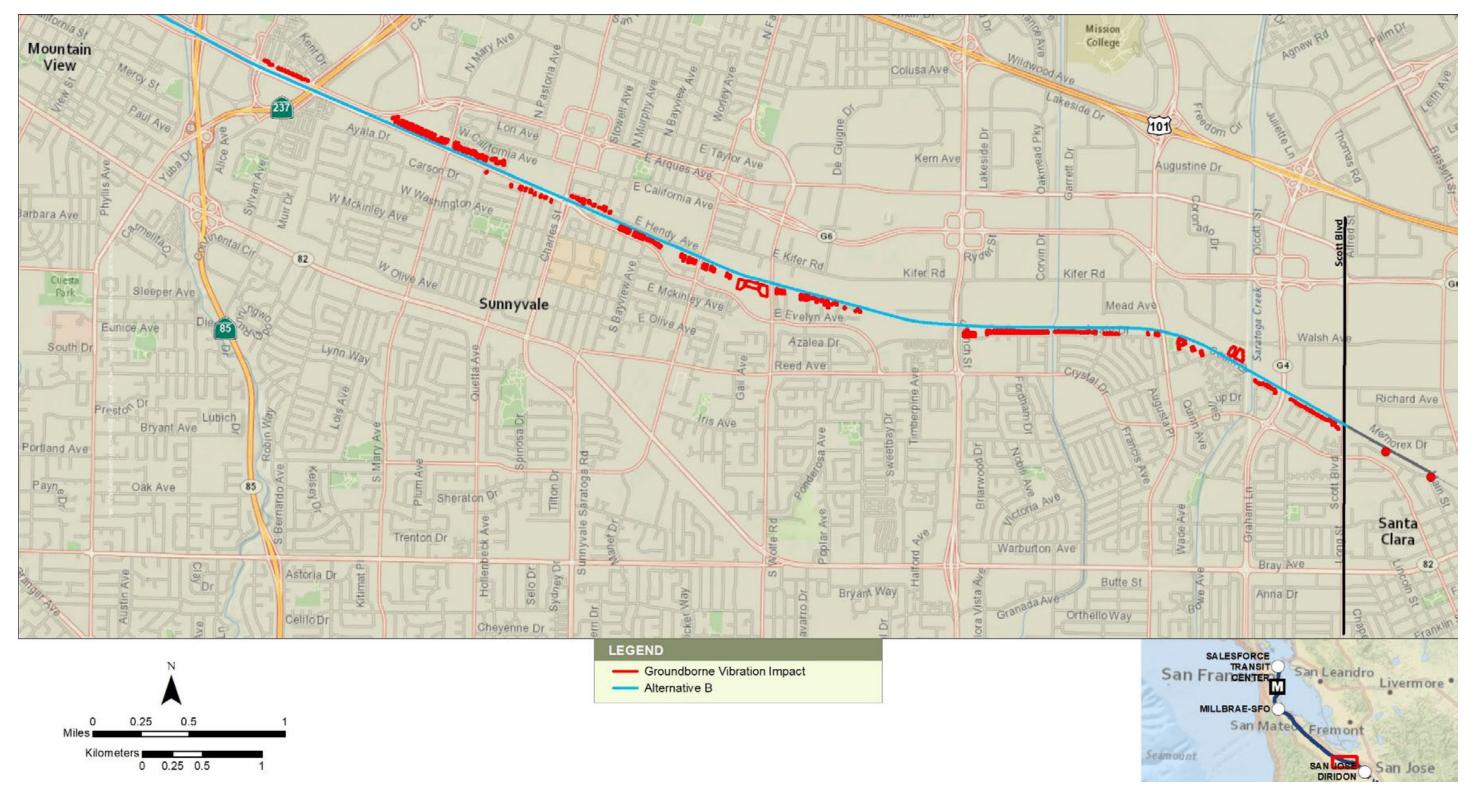




Figure C-145 2040 Plus Project Vibration Impact Locations—Alternative B (Viaduct to I-880)





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Figure C-146 2040 Plus Project Vibration Impact Locations—Alternative B (Viaduct to I-880)

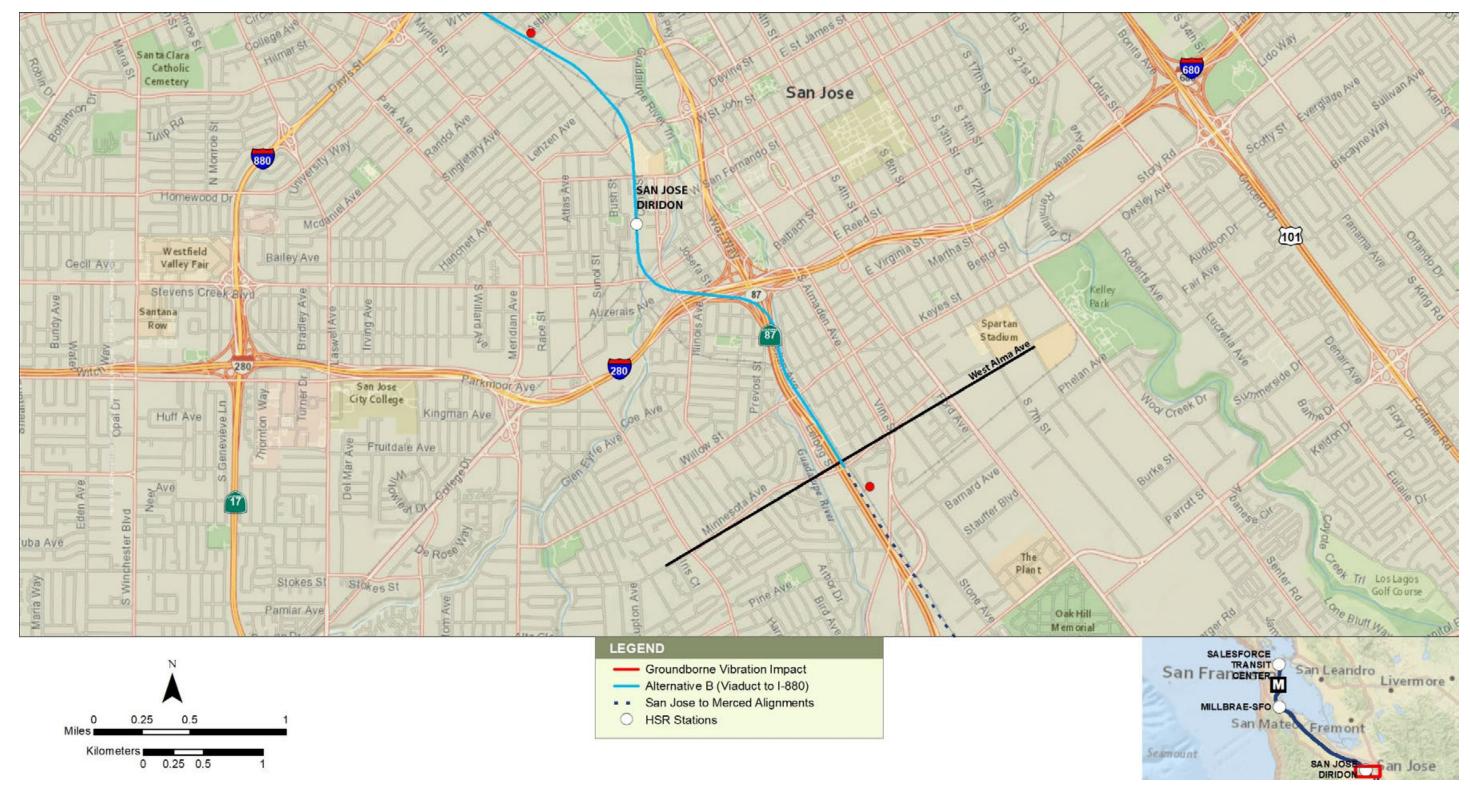
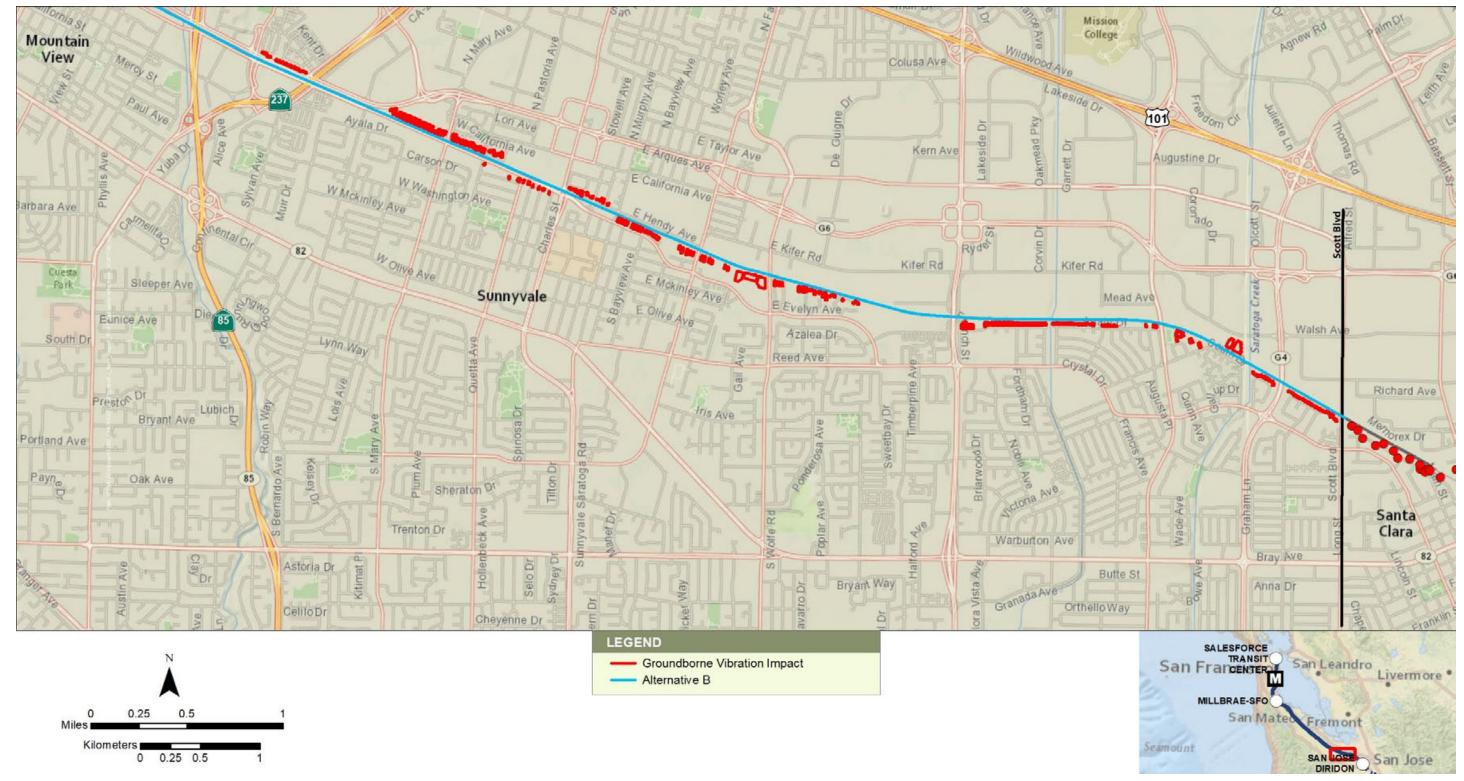




Figure C-147 2040 Plus Project Vibration Impact Locations—Alternative B (Viaduct to I-880)





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Figure C-148 2040 Plus Project Vibration Impact Locations—Alternative B (Viaduct to Scott Boulevard)

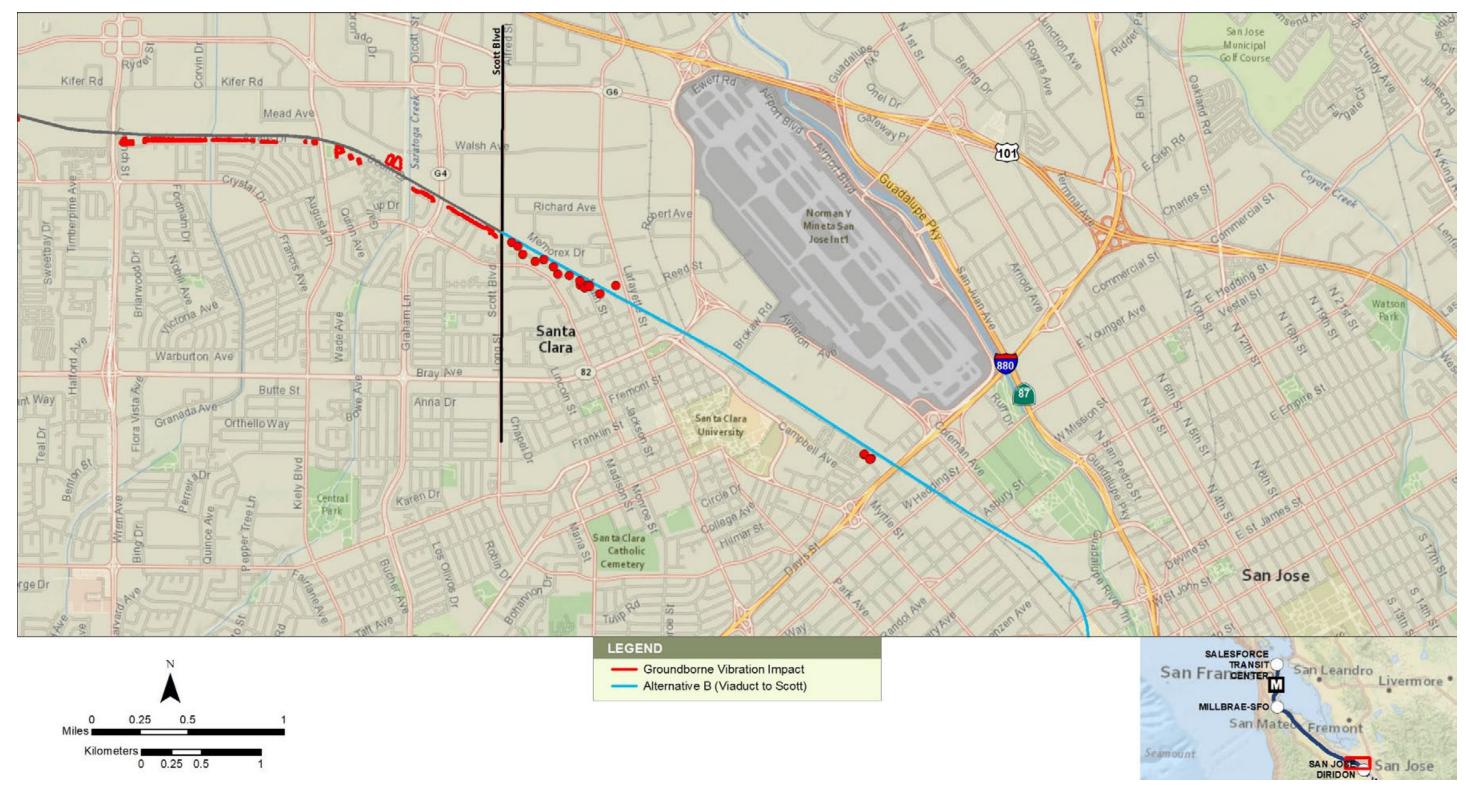




Figure C-149 2040 Plus Project Vibration Impact Locations—Alternative B (Viaduct to Scott Boulevard)

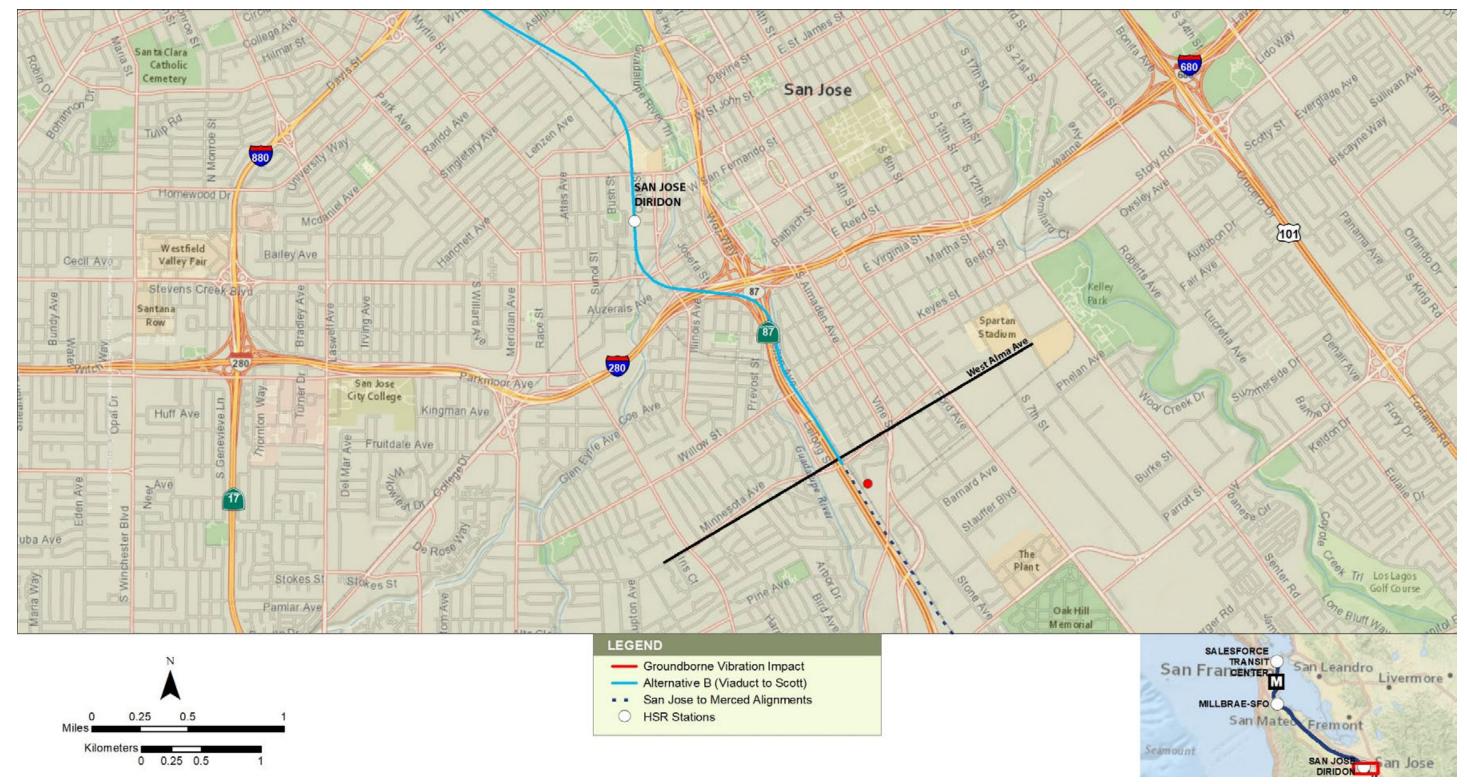


Figure C-150 2040 Plus Project Vibration Impact Locations—Alternative B (Viaduct to Scott Boulevard)