

APPENDIX 3F

Noise Technical Report

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Noise Technical Report

Heber Valley Corridor Environmental Impact Statement

Lead agency:
Utah Department of Transportation

July 25, 2025

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Contents

1.0	Introduction	1
2.0	Description of the Project.....	1
2.1	Applicability	1
3.0	Analysis of Traffic Noise Impacts.....	3
3.1	Noise-abatement Criteria.....	4
3.2	Noise-sensitive Land Uses	6
3.3	Existing Noise	6
3.4	Proposed Project Noise	8
3.5	Existing and Proposed Project Summary	9
4.0	Noise Abatement	9
4.1	Noise Barriers	11
4.2	Barrier Analysis for Alternatives A and B.....	12
4.3	Barrier Analysis for Alternative A	27
4.4	Barrier Analysis for Alternative B	36
5.0	Construction Impacts	45
6.0	Information for Local Officials	45
7.0	Conclusions	46
7.1	Summary of Evaluation of Barriers for Alternative A	47
7.2	Summary of Evaluation of Barriers for Alternative B	48
8.0	References.....	49

Tables

Table 3-1. Weighted Noise Levels and Human Response.....	3
Table 3-2. UDOT's Noise-abatement Criteria	5
Table 3-3. Noise-sensitive Land Uses.....	6
Table 3-4. Model Validation.....	7
Table 3-5. Traffic Noise Impacts for Existing Conditions and the No-action and Action Alternatives.....	9
Table 4-1. Noise-abatement Analysis for Barrier A for Alternatives A and B.....	12
Table 4-2. Noise-abatement Analysis for Barrier B for Alternatives A and B.....	13
Table 4-3. Noise-abatement Analysis for Barrier C for Alternatives A and B.....	14
Table 4-4. Noise-abatement Analysis for Barrier D for Alternatives A and B.....	15
Table 4-5. Noise-abatement Analysis for Barrier E for Alternatives A and B.....	16
Table 4-6. Noise-abatement Analysis for Barrier F for Alternatives A and B.....	17
Table 4-7. Noise-abatement Analysis for Barrier AA for Alternatives A and B.....	18
Table 4-8. Noise-abatement Analysis for Barrier BB for Alternatives A and B.....	19
Table 4-9. Noise-abatement Analysis for Barrier CC for Alternatives A and B.....	20
Table 4-10. Noise-abatement Analysis for Barrier DD for Alternatives A and B.....	21
Table 4-11. Noise-abatement Analysis for Barrier EE for Alternative A and B.....	22
Table 4-12. Noise-abatement Analysis for Barrier FF for Alternatives A and B.....	23
Table 4-13. Noise-abatement Analysis for Barrier GG for Alternatives A and B.....	24
Table 4-14. Noise-abatement Analysis for Barrier HH for Alternatives A and B.....	25
Table 4-15. Noise-abatement Analysis for Barrier II for Alternatives A and B.....	26
Table 4-16. Noise-abatement Analysis for Barrier G for Alternative A.....	27
Table 4-17. Noise-abatement Analysis for Barrier H for Alternative A.....	28
Table 4-18. Noise-abatement Analysis for Barrier I for Alternative A.....	29
Table 4-19. Noise-abatement Analysis for Barrier J for Alternative A.....	30
Table 4-20. Noise-abatement Analysis for Barrier K for Alternative A.....	31
Table 4-21. Noise-abatement Analysis for Barrier L for Alternative A.....	32
Table 4-22. Noise-abatement Analysis for Barrier M for Alternative A.....	33
Table 4-23. Noise-abatement Analysis for Barrier N for Alternative A.....	34
Table 4-24. Noise-abatement Analysis for Barrier O for Alternative A.....	35
Table 4-25. Noise-abatement Analysis for Barrier G for Alternative B.....	36
Table 4-26. Noise-abatement Analysis for Barrier H for Alternative B.....	37
Table 4-27. Noise-abatement Analysis for Barrier I for Alternative B.....	38
Table 4-28. Noise-abatement Analysis for Barrier J for Alternative B.....	39
Table 4-29. Noise-abatement Analysis for Barrier K for Alternative B.....	40
Table 4-30. Noise-abatement Analysis for Barrier L for Alternative B.....	41
Table 4-31. Noise-abatement Analysis for Barrier M for Alternative B.....	42
Table 4-32. Noise-abatement Analysis for Barrier N for Alternative B.....	43
Table 4-33. Noise-abatement Analysis for Barrier O for Alternative B.....	44
Table 6-1. Contour Distance to Future Noise Levels	45

Table 7-1. Modeled Noise Levels and Traffic Noise Impacts for Existing Conditions and the No-action and Action Alternatives	46
Table 7-2. Alternative A Evaluated Noise Barriers	47
Table 7-3. Alternative B Evaluated Noise Barriers	48

Figures

Figure 2-1. Noise Evaluation Area and Monitoring Locations	2
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Attachments

Attachment A: Noise Monitoring Data Sheets and Existing Noise Receptor Maps
Attachment B: Alternative A Build Noise Levels and Build Receptor Maps
Attachment C: Alternative B Build Noise Levels and Build Receptor Maps
Attachment D: Build Scenario Noise Walls
Attachment E: Noise Wall Analysis

Abbreviations

approx.	approximately
CFR	Code of Federal Regulations
CPBR	cost per benefitted receptor
dBA	A-weighted decibel
EIS	environmental impact statement
FHWA	Federal Highway Administration
ft ²	square feet
L _{eq}	equivalent sound level
ML	monitoring location
mph	miles per hour
NA	not applicable
NAC	noise-abatement criteria
No.	number
ROD	Record of Decision
SR	state route
TNM	Traffic Noise Model
U.S.	United States
US-189	U.S. Highway 189
US-40	U.S. Highway 40
UDOT	Utah Department of Transportation

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1.0 Introduction

This noise analysis was prepared in accordance with the Utah Department of Transportation's (UDOT) Noise Abatement Policy (UDOT 2020) and is consistent with 23 Code of Federal Regulations (CFR) Part 772, Procedures for Abatement of Highway Traffic Noise and Construction Noise, and Utah Administrative Code Rule R930-3, Highway Noise Abatement.

2.0 Description of the Project

UDOT is proposing roadway improvements that would meet the purpose of the Heber Valley Corridor Project by improving regional and local mobility on U.S. Highway 40 (US-40) through 2050, providing opportunities for nonmotorized transportation, and allowing Heber City to meet their vision for the historic town center.

The noise evaluation area is the land adjacent to the project action alternatives that could be affected by an increase in noise levels (see Figure 2-1). The noise evaluation area includes areas adjacent to US-40, US-189, and the edge of the proposed right-of-way of the project action alternatives.

This report includes the expected noise impacts from the two action alternatives:

- Alternative A
- Alternative B

What is the noise evaluation area?

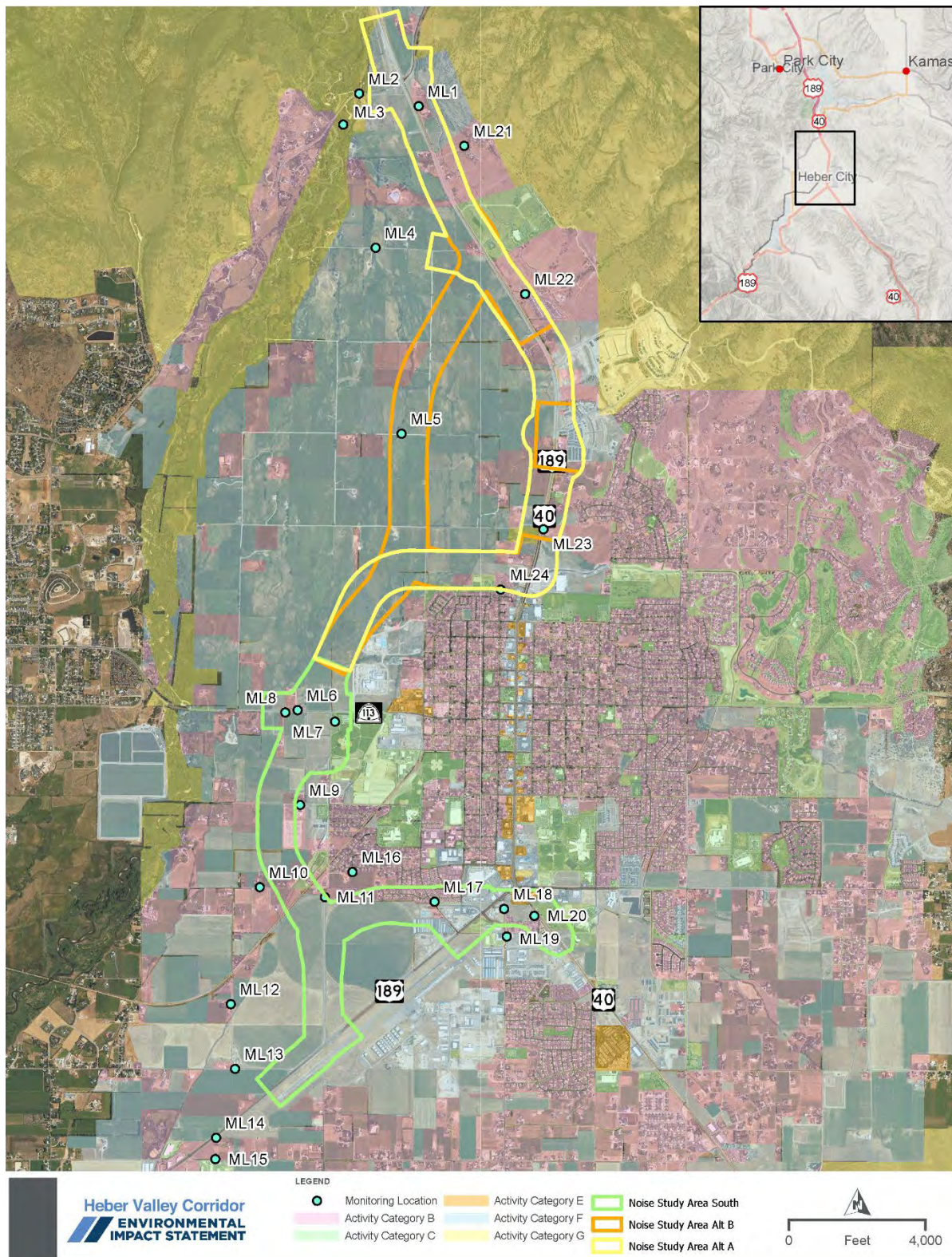
The noise evaluation area is the land adjacent to the project action alternatives that could be affected by an increase in noise levels.

Detailed information about the action alternatives is provided in Chapter 2, *Alternatives*, of the Heber Valley Corridor Environmental Impact Statement (EIS). The proposed action alternatives would construct sections of new roadway on new alignments, new interchanges or intersections, and associated on- and off-ramps or turn lanes. The proposed project would include modifying utilities and storm drains and installing new pavement, traffic signals, advanced traffic management system (ATMS) equipment, and road signs. This project would also require acquiring additional right-of-way.

2.1 Applicability

UDOT's Noise Abatement Policy states that "noise abatement will be considered for all Type I projects where noise impacts are identified." Type I projects are projects that include any of the following: the construction of a highway at a new location; the physical alteration of an existing highway that substantially alters its alignment; the addition of a through traffic lane; the addition of an auxiliary lane; the addition or relocation of interchange lanes or ramps; or the addition or substantial alteration of a weigh station, rest stop, ride share lot, or toll plaza. The proposed project is considered a Type I project because it is proposing new roads on new locations or changes to the horizontal and vertical alignments of existing roads.

Figure 2-1. Noise Evaluation Area and Monitoring Locations



3.0 Analysis of Traffic Noise Impacts

Traffic noise is measured in A-weighted sound levels in decibels (dBA), which most closely approximates the way the human ear hears sounds at different frequencies (Table 3-1). Since traffic noise varies over time, the sound levels for this noise analysis are expressed as “equivalent levels” or L_{eq} , representing the average sound level over a 1-hour period. Unless noted otherwise, all sound levels in this noise analysis are expressed in the hourly equivalent noise level.

Table 3-1. Weighted Noise Levels and Human Response

Sound Source	dBA ^a	Response Descriptor
Carrier deck jet operation	140	Limit of amplified speech
	130	Painfully loud
Jet takeoff (200 feet) Auto horn (3 feet)	120	Threshold of feeling and pain
Riveting machine Jet takeoff (2,000 feet)	110	
Shout (0.5 foot) New York subway station	100	Very annoying
Heavy truck (50 feet) Pneumatic drill (50 feet)	90	Hearing damage (8-hour exposure)
Passenger train (100 feet) Helicopter (in flight, 500 feet) Freight train (50 feet)	80	Annoying
Freeway traffic (50 feet)	70	Intrusive
Air conditioning unit (20 feet) Light auto traffic (50 feet)	60	
Normal speech (15 feet)	50	Quiet
Living room, bedroom, library	40	
Soft whisper (15 feet)	30	Very quiet
Broadcasting studio	20	
	10	Just audible
	0	Threshold of hearing

Source: CEQ 1970

^a Typical A-weighted noise levels taken with a sound-level meter and expressed as decibels on the “A” scale. The “A” scale approximates the frequency response of the human ear.

3.1 Noise-abatement Criteria

FHWA has established noise-abatement criteria (NAC) for several categories of land use activities (Table 3-2). FHWA's NAC are based on sound levels that are considered to be an impact to nearby noise-sensitive areas, also known as receptors. According to FHWA guidance (FHWA 2011), UDOT must give primary consideration for noise abatement to exterior areas that are frequently used by people.

UDOT has developed a noise-abatement policy for transportation projects, and this policy conforms to FHWA's noise-abatement requirements in 23 CFR Part 772. For each land use category, UDOT's noise-abatement criterion is the A-weighted decibel (dBA) value reflecting the approach criterion of 1 dBA below the noise-abatement criterion value listed in 23 CFR Part 772 for that land use category (Table 3-2).

UDOT's noise-abatement policy states that a traffic noise impact occurs when either (1) the future worst-case noise level is equal to or greater than the UDOT noise-abatement criterion for a specified land-use category or (2) the future worst-case noise level is greater than or equal to an increase of 10 dBA over the existing noise level.

Noise impact and abatement analyses are required within land use activity categories A, B, C, D, and E (Table 3-2) only when development exists or has been permitted (formal building permit issued prior to the date when the final environmental decision document is approved). Activity categories F and G include lands that are not sensitive to traffic noise. There are no impact criteria for these land use types, and an analysis of noise impacts is not required.

For this noise analysis, aerial photographs and on-site visits were used to identify existing land uses and structure locations. UDOT also requested information from Heber City and Wasatch County to identify planned and approved developments in the noise evaluation area. UDOT has included planned developments (based on information provided by Heber City and Wasatch County) that might not have final, formal building permits. Before the Record of Decision (ROD) for the Heber Valley Corridor Project is issued, UDOT will confirm the approval status of planned developments with Heber City and Wasatch County, and any unapproved developments will not be recommended for noise abatement in the ROD.

Table 3-2. UDOT's Noise-abatement Criteria

Activity Category	FHWA Criterion L_{eq} (dBA)	L_{eq} Noise Level (dBA)	Evaluation Location	Description of Activity Category
A	57	56	Exterior	Lands on which serenity and quiet are of extraordinary significance and serve an important public need, and where the preservation of those qualities is essential if the area is to continue to serve its intended purpose.
B	67	66	Exterior	Residential.
C	67	66	Exterior	Active sports areas, amphitheaters, auditoriums, campgrounds, cemeteries, day care centers, hospitals, libraries, medical facilities, parks, picnic areas, places of worship, playgrounds, public meeting rooms, public or nonprofit institutional structures, radio studios, recording studios, recreation areas, Section 4(f) sites, schools, television studios, trails and trail crossings.
D	52	51	Interior	Auditoriums, day care centers, hospitals, libraries, medical facilities, places of worship, public meeting room, public or nonprofit institutional structures, radio studios, recording studios, schools, and television studios.
E	72	71	Exterior	Hotels, motels, offices, restaurants/bars, and other developed lands, properties, or activities not included in categories A–D or F.
F	—	—	—	Agriculture, airports, bus yards, emergency services, industrial, logging, maintenance facilities, manufacturing, mining, rail yards, retail facilities, shipyards, utilities (water resources, water treatment, electrical), and warehousing.
G	—	—	—	Undeveloped lands that are not permitted.

Source: UDOT 2020

Definitions: dBA = A-weighted decibel; FHWA = Federal Highway Administration; L_{eq} = equivalent sound level; Section 4(f) = Section 4(f) of the Department of Transportation Act of 1966

3.2 Noise-sensitive Land Uses

Figure 2-1 above and Table 3-3 below show noise-sensitive land uses within each of the activity categories in the noise evaluation area.

Table 3-3. Noise-sensitive Land Uses

Activity Category	Description of Activity Category in Evaluation Area
A	• None
B	• Residential areas throughout the Heber Valley
C	• Neighborhood open spaces and playgrounds throughout the Heber Valley • Outdoor recreation areas, parks, and trails and trailheads throughout the Heber Valley • Schools, churches, day cares, medical facilities, and city and county buildings in Heber City
D	• None
E	• Restaurants, office buildings, and hotels along US-40, US-189, and SR-113
F	• Retail properties near the intersection of US-189 and US-40 • Agricultural and fallow lands throughout the Heber Valley and along the Provo River • Heber Valley Airport • Sewage lagoons
G	• Undeveloped lands on the foothills surrounding the Heber Valley

Definitions: SR = state route; US-189 = U.S. Highway 189; US-40 = U.S. Highway 40

UDOT's noise-abatement policy states that a noise impact analysis is not required for activity categories F and G. However, for activity category G, an estimate of the distance to the approach criteria must be provided to local governments. For more information, see Section 6.0, *Information for Local Officials*.

3.3 Existing Noise

The primary source of noise in the noise evaluation area is automobile and truck traffic from US-40, U.S. Highway 189 (US-189), and other roads in the area.

Existing noise levels were established via noise modeling for receptors located adjacent to US-40, US-189, and the edge of the proposed right-of-way of the project action alternatives. Existing traffic sound levels for receptors in this area were calculated with the FHWA TNM 2.5 software using existing conditions (travel lane configurations and the posted speed limit).

On-site measurements were taken on July 7, 13, 14, and 16, 2022, with a Larson Davis model 824 sound-level meter for a duration of 20 minutes at the locations listed in Table 3-4 (see Attachment A, *Noise Monitoring Data Sheets and Existing Noise Receptor Maps*, for data sheets and more-detailed figures showing the noise measurement locations). Recorded measurements for monitoring locations ML-1 to ML-24 were used to validate the noise model and to ensure that it represents existing conditions. To be considered valid, the field noise measurements must be within 3 dBA of the model's predicted noise level. The model validation results range between 0 and 3 dBA, so the noise model is considered valid (Table 3-4).

Table 3-4. Model Validation

Monitoring Location	Address	Activity Category and Noise Level (dBA L _{eq})	Measured Noise Level (dBA)	Modeled Noise Level (dBA)	Difference (dBA)
ML-1	Residential; 3920 N. Old Highway 40	B	68.3	69.7	1.4
ML-2	Vacant; 3850 River Road	E	66.8	67.3	0.5
ML-3	Residential; 40.55431, -111.43186	B	46.0	48.1	2.1
ML-4	Agricultural; 850 W. Potters Lane	F	50.7	52.2	1.5
ML-5	Agricultural; 1035 West 1800 North	F	52.6	51.6	-1.0
ML-6	Residential (borders agricultural); approx. 1350 W. SR-113	B	69.0	70.3	1.3
ML-7	Southfield Park; approx. Southfield Road and SR-113	C	55.1	55.3	0.2
ML-8	Residential; approx. 1485 W. SR-113	B	70.7	68.6	-2.1
ML-9	Residential; 1465 West 650 South	B	55.7	56.5	0.8
ML-10	Residential; approx. 1642 West 1200 South	B	61.6	60.2	-1.4
ML-11	Residential; approx. 1275 Southfield Road	B	57.4	55.2	-2.2
ML-12	Agricultural (borders residential); approx. 1960 Edwards Lane, Heber City	F	43.6	41.9	-1.7
ML-13	Agricultural (borders residential); approx. 1744 West 2400 South	F	62.8	60.7	-2.1
ML-14	Residential; 2693 S. US-189	B	80.1	76.9	-0.7
ML-15	Residential; 1938 West 3000 South	B	63.0	61.6	-1.6
ML-16	Residential; approx. 1035 West 1060 South	B	43.2	41.0	-2.2
ML-17	Residential open space with trail; approx. 1267 S. Industrial Parkway, Heber City	B	54.0	53.9	-0.1
ML-18	Restaurant; Betty's Café, 1375 S. Daniels Road	E	62.0	60.8	-1.2
ML-19	Retail (borders residential); approx. 1551 S. Daniels Road	E	61.2	58.6	-2.6
ML-20	Residential; 1390 S. Highway 40	B	63.6	61.9	-1.7
ML-21	Residential; 425 W. Moulton Lane	B	50.8	51.6	0.8
ML-22	Residential; 2790 N. Commons Boulevard	B	60.5	63.2	2.7
ML-23	Residential; 1200 N. Highway 40 (east side of Highway 40)	B	77.3	75.5	-1.8
ML-24	Residential; Elmbriidge Apartments, approx. 82 West 750 North	B	50.1	53.0	2.9

Definitions: approx. = approximately; dBA = A-weighted decibel; L_{eq} = equivalent sound level

Overall, noise levels with the existing conditions are modeled to range from 32 to 72 dBA for both the Alternative A and Alternative B noise evaluation areas. Because the northern segments of Alternatives A and B are on different alignments, the number of receptors for Alternative A and Alternative B are different. Of the 1,480 receptors in the Alternative A noise evaluation area, 105 are modeled to currently experience a noise level above the NAC threshold (see the Existing Noise Levels maps in Attachment A, *Noise Monitoring Data Sheets and Existing Noise Receptor Maps*, and Table B-1 in Attachment B, *Alternative A Build Noise Levels and Build Receptor Maps*). Of the 1,417 receptors in the Alternative B noise evaluation area, 102 are modeled to currently experience a noise level above the NAC threshold (see the Existing Noise Levels maps in Attachment A and Table C-1 in Attachment C, *Alternative B Build Noise Levels and Build Receptor Maps*).

3.4 Proposed Project Noise

Projected traffic noise levels for the action alternatives were calculated with TNM 2.5 software using build conditions (travel lane configurations and traffic volumes). To be consistent with UDOT's noise-abatement policy, level of service (LOS) C traffic volumes and projected vehicle fleet mixes in 2050 were used to determine the greatest hourly traffic noise conditions that are likely to occur regularly (Parametrix 2023). The results are summarized below by alternative. Attachment B, *Alternative A Build Noise Levels and Build Receptor Maps*, and Attachment C, *Alternative B Build Noise Levels and Build Receptor Maps*, include data tables and figures showing the locations of receptors for each action alternative.

Alternative A. Overall, noise levels with Alternative A would range from 35 to 72 dBA compared to the existing conditions of 32 to 72 dBA.

With Alternative A, 230 of the 1,480 receptors (227 activity category B and 3 activity category C) would have traffic noise impacts; that is, they would exceed the NAC as defined in Section 3.1, *Noise-abatement Criteria*. A total of 78 of the 230 impacted receptors would have future worst-case noise levels greater than or equal to an increase of 10 dBA over the existing noise level. The locations of those receptors exceeding the NAC are shown in Attachment B, *Alternative A Build Noise Levels and Build Receptor Maps*.

Alternative B. Overall, noise levels with Alternative B would range from 34 to 79 dBA compared to the existing conditions of 32 to 72 dBA.

With Alternative B, 277 of the 1,417 receptors (273 activity category B, 3 activity category C, and 1 activity category E) would have traffic noise impacts; that is, they would exceed the NAC as defined in Section 3.1, *Noise-abatement Criteria*. A total of 70 of the 277 impacted receptors would have future worst-case noise levels greater than or equal to an increase of 10 dBA over the existing noise level. The locations of those receptors exceeding the NAC are shown in Attachment C, *Alternative B Build Noise Levels and Build Receptor Maps*.

3.5 Existing and Proposed Project Summary

Table 3-5 summarizes the modeled noise impacts for the existing conditions and the No-action and action alternatives.

Table 3-5. Traffic Noise Impacts for Existing Conditions and the No-action and Action Alternatives

Alternative	Total Receptors Modeled	Existing Conditions and No-action Alternative Receptors with Modeled Noise Greater than UDOT NAC	Traffic Noise Impacts with Action Alternative
Alternative A	1,480	105 (104)	230 (227)
Alternative B	1,417	102 (101)	277 (273)

Impacts to land use activity category B (residential properties) are listed in parentheses.

For each action alternative, detailed tables with the existing and action noise levels and maps showing the receptor locations are included in Attachment B, *Alternative A Build Noise Levels and Build Receptor Maps*, and Attachment C, *Alternative B Build Noise Levels and Build Receptor Maps*. The following appendices and tables summarize the existing and action noise levels for each alternative: Attachment B and Table B-1 for Alternative A and Attachment C and Table C-1 for Alternative B.

4.0 Noise Abatement

According to UDOT's noise-abatement policy, specific conditions must be met before traffic noise abatement is implemented. Noise abatement must be considered both feasible and reasonable. The factors considered when determining whether abatement is feasible are:

- Engineering Considerations.** Engineering considerations such as safety, presence of cross streets, sight distance, access to adjacent properties, barrier height, topography, drainage, utilities, maintenance access, and maintenance of the abatement measure must be taken into account as part of establishing feasibility. Noise-abatement measures are not intended to serve as privacy fences or safety barriers. Abatement measures installed on structures will not exceed 10 feet in height measured from the top of deck or roadway to the top of the noise barrier. Noise barriers will not be installed on structures that require retrofitting to accommodate the noise-abatement measure. Noise-abatement measures will be considered if the project meets the criteria established in this policy if structure replacement is included as part of the project. Abatement measures shall be consistent with general American Association of State Highway and Transportation Officials (AASHTO) design principles.
- Safety on Urban Non-access-controlled Roads.** To avoid a damaged barrier from becoming a safety hazard in the event of a failure, barrier height must be no greater than the distance from the back-of-curb to the face of the proposed barrier. Because the distance from the back-of-curb to the face of a proposed barrier varies, barrier heights that meet this safety requirement might also vary.
- Acoustic Feasibility.** Noise abatement must be considered "acoustically feasible." This is defined as achieving at least a 5-dBA highway traffic noise reduction for at least 50% of front-row receptors.

The following factors are considered when determining whether abatement is reasonable:

- **Noise-abatement Design Goal.** Every reasonable effort should be made to obtain substantial noise reductions. UDOT defines the minimum noise reduction (design goal) from proposed abatement measures to be 7 dBA or greater for at least 35% of front-row receptors.
- **Cost-effectiveness.** The cost of a noise-abatement measure must be deemed reasonable in order for it to be included in a project. Noise-abatement costs are based on a fixed unit cost of \$20 per square foot, multiplied by the height and length of the barrier, in addition to the cost of any other item associated with the abatement measure that is critical to safety. The fixed unit cost is based on the historical average cost of noise barriers installed on UDOT projects and is reviewed at regular intervals, not to exceed 5 years. The cost-effectiveness of abatement is determined by analyzing the cost of a barrier that would provide a noise reduction of 5 dBA or more for a benefited receptor. A reasonable cost is considered to be a maximum of \$30,000 per benefited receptor for activity category B and \$360 per linear foot for activity categories A, C, D, or E. If the anticipated cost of the noise-abatement measure is less than the allowable cost, then the abatement is deemed reasonable.

The cost-effectiveness calculation also takes into account the cost of any items associated with the abatement measure that is critical to safety, such as snow storage and safety barriers where applicable. Costs for additional items are not currently needed for the abatement measures evaluated in this Draft EIS. The cost to construct items necessary for snow storage and safety barriers will be taken into consideration as part of the cost effectiveness calculation during final design if applicable.

- **Viewpoints of Property Owners and Residents.** As part of the final design phase, public balloting would take place if noise-abatement measures meet the criteria in UDOT's noise-abatement policy. UDOT has included planned developments (based on information provided by Heber City and Wasatch County) that may not have final, formal building permits. Before the ROD for the Heber Valley Corridor Project is issued, UDOT will confirm the approval status of planned developments with Heber City and Wasatch County, and any unapproved developments will not be recommended for noise abatement in the ROD.

4.1 Noise Barriers

For a noise barrier to be effective, it must be high enough and long enough to block the view of the noise source from the receptor's perspective. FHWA's *Highway Traffic Noise: Analysis and Abatement Guidance* (FHWA 2011) states that a good rule of thumb is that the noise barrier should extend 4 times as far in each direction as the distance from the receptor to the barrier. For instance, if the receptor is 50 feet from the proposed noise barrier, the barrier needs to extend at least 200 feet on either side of the receptor in order to shield the receptor from noise traveling past the ends of the barrier.

Openings in noise barriers for driveway and cross street access greatly reduce the effectiveness of noise barriers. Therefore, impacted receptors with direct access onto local streets do not qualify for noise barriers.

For this analysis, UDOT considered barriers up to 17 feet in height, which is the current approved UDOT standard for noise barrier heights. The 17 feet height is considered a feasible engineering consideration. Barrier heights over 17 feet would require additional review and approval from UDOT structures.

Barrier heights over 17 feet could be considered in circumstances only where a 17-foot-tall noise barrier meets the acoustic feasibility criteria and does not meet the reasonable design goal or cost-effectiveness criteria. In these circumstances, noise barriers over 17 feet tall would be evaluated to see if they would meet the reasonable design goal or cost-effectiveness criteria.

The anticipated cost of each barrier was calculated by multiplying the barrier area and the barrier cost per square foot (\$20). The allowable cost was calculated using two variables: (1) activity category B allowable cost and (2) activity category C allowable cost.

1. The activity category B allowable cost was calculated by multiplying the allowable cost per benefitted receptor (\$30,000) by the number of receptors benefitted by the barrier.
2. The activity category C allowable cost was calculated by multiplying the length of the barrier associated with activity category C land use by the allowable cost for activity category C land (\$360 per linear foot).

These two variables, activity category B allowable cost and activity category C allowable cost, were combined to produce the allowable cost for each barrier (see Attachment E, *Noise Wall Analysis*, for detailed barrier analyses).

To provide an objective analysis of traffic noise reduction at impacted receptors, UDOT considered a variety of noise barrier heights in areas with noise impacts that do not have an existing noise barrier. If multiple barrier heights would meet noise-abatement requirements, UDOT considered the number of benefitted receptors and the cost per benefitted receptor to identify the noise barrier height that would be recommended for balloting. A total of 24 noise barriers were considered for each of the action alternatives. See the noise barrier maps in Attachment D, *Build Scenario Noise Walls*.

4.2 Barrier Analysis for Alternatives A and B

The following sections describe 15 evaluated noise barriers (A through F and AA through II); these barriers would be the same for Alternatives A and B. Three of these 15 barriers (Barriers F, HH, and II) were found to be both feasible and reasonable for Alternatives A and B and are recommended for balloting.

Barrier A

A noise barrier on the east side of the US-40 frontage road and south of River Road/State Route (SR) 32 was evaluated where noise impacts are expected to 6 residential receptors (68-3, 69-4, 72-3, 73-4, 77-4, and 81-4) with Alternative A or B. There are 4 front-row residential receptors in this area. The noise barrier would be located near the right-of-way line on the east side of the US-40 frontage road and would be about 348 feet long (see Attachment D, *Build Scenario Noise Walls*). This barrier includes receptors in planned developments (based on information provided by Heber City and Wasatch County) that may not have final, formal building permits. Before the ROD is issued, UDOT will confirm the approval status of planned developments with Heber City and Wasatch County, and any unapproved developments will not be recommended for noise abatement in the ROD.

As summarized in Table 4-1, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-1. Noise-abatement Analysis for Barrier A for Alternatives A and B

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	0%	No	NA	NA	NA	NA	NA	No
9	0%	No	NA	NA	NA	NA	NA	No
11	0%	No	NA	NA	NA	NA	NA	No
13	0%	No	NA	NA	NA	NA	NA	No
15	0%	No	NA	NA	NA	NA	NA	No
17	0%	No	NA	NA	NA	NA	NA	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

Barriers 7 to 17 feet tall are not acoustically feasible. Therefore, barriers are not recommended for balloting.

Barrier B

A noise barrier on the west side of US-40 between River Road/SR-32 and about 3800 North was evaluated where noise impacts are expected to 23 residential receptors (205-3, 233-1, 234-2, 235-3, 237-2, 238-3, 240-2, 241-3, 243-2, 244-3, 246-2, 247-3, 258-2, 259-3, 261-2, 262-3, 277-3, 288-2, 289-3, 291-2, 292-3, 306-2, and 307-3) with Alternative A or B. There are 11 front-row residential receptors in this area. The noise barrier would be located near the right-of-way line on the west side of US-40 and would be about 1,226 feet long (see Attachment D, *Build Scenario Noise Walls*). This barrier includes receptors in planned developments (based on information provided by Heber City and Wasatch County) that might not have final, formal building permits. Before the ROD for the Heber Valley Corridor Project is issued, UDOT will confirm the approval status of planned developments with Heber City and Wasatch County, and any unapproved developments will not be recommended for noise abatement in the ROD.

As summarized in Table 4-2, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-2. Noise-abatement Analysis for Barrier B for Alternatives A and B

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	0%	No	NA	NA	NA	NA	NA	No
9	0%	No	NA	NA	NA	NA	NA	No
11	0%	No	NA	NA	NA	NA	NA	No
13	0%	No	NA	NA	NA	NA	NA	No
15	0%	No	NA	NA	NA	NA	NA	No
17	27%	No	NA	NA	NA	NA	NA	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

Barriers 7 to 17 feet tall are not acoustically feasible. Therefore, barriers are not recommended for balloting.

Barrier C

A noise barrier on the south side of River Road/SR-32 west of US-40 was evaluated where noise impacts are expected to 2 residential receptors (117 and 118) with Alternative A or B. There are 2 front-row residential receptors in this area. The noise barrier would be located near the right-of-way line on the south side of River Road/SR-32 and would be between 275 and 625 feet long (see Attachment D, *Build Scenario Noise Walls*). This barrier includes receptors in planned developments (based on information provided by Heber City and Wasatch County) that might not have final, formal building permits. Before the ROD for the Heber Valley Corridor Project is issued, UDOT will confirm the approval status of planned developments with Heber City and Wasatch County, and any unapproved developments will not be recommended for noise abatement in the ROD.

As summarized in Table 4-3, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-3. Noise-abatement Analysis for Barrier C for Alternatives A and B

Barrier Height (Length) (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7 (625 feet long)	50%	Yes	0%	No	NA	NA	NA	No
9 (500 feet long)	100%	Yes	50%	Yes	\$90,000	\$60,000 (2)	No	No
11 (400 feet long)	100%	Yes	50%	Yes	\$88,000	\$60,000 (2)	No	No
13 (300 feet long)	100%	Yes	50%	Yes	\$78,000	\$60,000 (2)	No	No
15 (275 feet long)	100%	Yes	50%	Yes	\$82,500	\$60,000 (2)	No	No
17 (275 feet long)	100%	Yes	50%	Yes	\$93,500	\$60,000 (2)	No	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

A barrier 7 feet tall does not meet UDOT's design goal criterion for reasonableness. Barriers 9 to 17 feet tall do not meet UDOT's cost-effective criterion for reasonableness. Therefore, barriers are not recommended for balloting.

Barrier D

A noise barrier on the east side of the US-40 frontage road between 3800 North and about 3450 North was evaluated where noise impacts are expected to 5 residential receptors (455, 456, 391-4, 395-4, and 399-4) with Alternative A or B. There are 16 front-row residential receptors in this area. The noise barrier would be located near the right-of-way line on the east side of the US-40 frontage road and would be about 1,335 feet long (see Attachment D, *Build Scenario Noise Walls*). This barrier includes receptors in planned developments (based on information provided by Heber City and Wasatch County) that might not have final, formal building permits. Before the ROD for the Heber Valley Corridor Project is issued, UDOT will confirm the approval status of planned developments with Heber City and Wasatch County, and any unapproved developments will not be recommended for noise abatement in the ROD.

As summarized in Table 4-4, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-4. Noise-abatement Analysis for Barrier D for Alternatives A and B

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	0%	No	NA	NA	NA	NA	NA	No
9	0%	No	NA	NA	NA	NA	NA	No
11	0%	No	NA	NA	NA	NA	NA	No
13	0%	No	NA	NA	NA	NA	NA	No
15	6%	No	NA	NA	NA	NA	NA	No
17	6%	No	NA	NA	NA	NA	NA	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

Barriers 7 to 17 feet tall are not acoustically feasible. Therefore, barriers are not recommended for balloting.

Barrier E

A noise barrier on the west side of the US-40 frontage road near 3600 North was evaluated where noise impacts are expected to 1 residential receptor (454) with Alternative A or B. There is 1 front-row residential receptor in this area. The noise barrier would be located near the right-of-way line on the west side of the US-40 frontage road and would be about 535 feet long (see Attachment D, *Build Scenario Noise Walls*).

As summarized in Table 4-5, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-5. Noise-abatement Analysis for Barrier E for Alternatives A and B

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	0%	No	NA	NA	NA	NA	NA	No
9	0%	No	NA	NA	NA	NA	NA	No
11	0%	No	NA	NA	NA	NA	NA	No
13	0%	No	NA	NA	NA	NA	NA	No
15	0%	No	NA	NA	NA	NA	NA	No
17	0%	No	NA	NA	NA	NA	NA	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

Barriers 7 to 17 feet tall are not acoustically feasible. Therefore, barriers are not recommended for balloting.

Barrier F

A noise barrier on the east side of the US-40 frontage road near 3390 North was evaluated where noise impacts are expected to 7 residential receptors (473 to 479) with Alternative A or B. There are 8 front-row residential receptors in this area. The noise barrier would be located near the right-of-way line on the east side of the US-40 frontage road and would be about 383 feet long (see Attachment D, *Build Scenario Noise Walls*). This barrier includes receptors in planned developments (based on information provided by Heber City and Wasatch County) that might not have final, formal building permits. Before the ROD for the Heber Valley Corridor Project is issued, UDOT will confirm the approval status of planned developments with Heber City and Wasatch County, and any unapproved developments will not be recommended for noise abatement in the ROD.

As summarized in Table 4-6, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-6. Noise-abatement Analysis for Barrier F for Alternatives A and B

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable? (CPBR) ^d
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	0%	No	NA	NA	NA	NA	NA	No
9	88%	Yes	0%	No	NA	NA	NA	No
11	100%	Yes	63%	Yes	\$84,260	\$240,000 (8)	Yes	Yes (\$10,532)
13	100%	Yes	88%	Yes	\$99,580	\$270,000 (9)	Yes	Yes (\$11,064)
15	100%	Yes	88%	Yes	\$114,900	\$270,000 (9)	Yes	Yes (\$12,767)
17	100%	Yes	100%	Yes	\$130,220	\$270,000 (9)	Yes	Yes (\$14,469)

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

^d Definition: CPBR = cost per benefitted receptor. This is calculated as the anticipated cost divided by the number of benefitted receptors.

A barrier 7 feet tall is not acoustically feasible. A barrier 9 feet tall does not meet UDOT's design goal criterion for reasonableness. Barriers 11 to 17 feet tall are all acoustically feasible, meet the noise-abatement design goal, and are cost-reasonable. Because the cost per benefitted receptor (CPBR) is the lowest for the 11-foot-tall barrier, UDOT recommends a 383-foot-long noise barrier that is 11 feet tall for balloting.

Barrier AA

A noise barrier on the northwest quadrant of the proposed Heber Valley Corridor and SR-113 interchange was evaluated where noise impacts are expected to 1 residential receptor (1341) with Alternative A or B. There is 1 front-row residential receptor in this area. The noise barrier would be located near the right-of-way line on the west side of the Heber Valley Corridor southbound off-ramp and the north side of SR-113 and would be about 1,817 feet long (see Attachment D, *Build Scenario Noise Walls*).

As summarized in Table 4-7, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-7. Noise-abatement Analysis for Barrier AA for Alternatives A and B

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	0%	No	NA	NA	NA	NA	NA	No
9	0%	No	NA	NA	NA	NA	NA	No
11	0%	No	NA	NA	NA	NA	NA	No
13	0%	No	NA	NA	NA	NA	NA	No
15	0%	No	NA	NA	NA	NA	NA	No
17	0%	No	NA	NA	NA	NA	NA	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

Barriers 7 to 17 feet tall are not acoustically feasible. Therefore, barriers are not recommended for balloting.

Barrier BB

A noise barrier on the west side of the proposed Heber Valley Corridor south of SR-113 was evaluated where noise impacts are expected to 1 residential receptor (1344) with Alternative A or B. There is 1 front-row residential receptor in this area. The noise barrier would be located near the right-of-way line on the west side of the Heber Valley Corridor and would be about 1,427 feet long (see Attachment D, *Build Scenario Noise Walls*).

As summarized in Table 4-8, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-8. Noise-abatement Analysis for Barrier BB for Alternatives A and B

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	0%	No	NA	NA	NA	NA	NA	No
9	0%	No	NA	NA	NA	NA	NA	No
11	0%	No	NA	NA	NA	NA	NA	No
13	0%	No	NA	NA	NA	NA	NA	No
15	0%	No	NA	NA	NA	NA	NA	No
17	0%	No	NA	NA	NA	NA	NA	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

Barriers 7 to 17 feet tall are not acoustically feasible. Therefore, barriers are not recommended for balloting.

Barrier CC

A noise barrier on the east side of the proposed Heber Valley Corridor and the south side of the shared-use path near 350 South was evaluated where noise impacts are expected to 14 residential receptors (1345 to 1348 and 1351 to 1360) with Alternative A or B. There are 9 front-row residential receptors in this area. The noise barrier would be located near the right-of-way line on the east side of the Heber Valley Corridor and the south side of the shared-use path and would be about 1,650 feet long (see Attachment D, *Build Scenario Noise Walls*). This barrier includes receptors in planned developments (based on information provided by Heber City and Wasatch County) that might not have final, formal building permits. Before the ROD for the Heber Valley Corridor Project is issued, UDOT will confirm the approval status of planned developments with Heber City and Wasatch County, and any unapproved developments will not be recommended for noise abatement in the ROD.

As summarized in Table 4-9, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-9. Noise-abatement Analysis for Barrier CC for Alternatives A and B

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	0%	No	NA	NA	NA	NA	NA	No
9	0%	No	NA	NA	NA	NA	NA	No
11	0%	No	NA	NA	NA	NA	NA	No
13	22%	No	NA	NA	NA	NA	NA	No
15	56%	Yes	0%	No	NA	NA	NA	No
17	56%	Yes	0%	No	NA	NA	NA	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

Barriers 7 to 13 feet tall are not acoustically feasible. Barriers 15 to 17 feet tall do not meet UDOT's design goal criterion for reasonableness. Therefore, barriers are not recommended for balloting.

Barrier DD

A noise barrier on the east side of the proposed Heber Valley Corridor north of 650 North was evaluated where noise impacts are expected to 1 residential receptor (1362) with Alternative A or B. There is 1 front-row residential receptor in this area. The noise barrier would be located near the right-of-way line on the east side of the Heber Valley Corridor and would be about 698 feet long (see Attachment D, *Build Scenario Noise Walls*).

As summarized in Table 4-10, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-10. Noise-abatement Analysis for Barrier DD for Alternatives A and B

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	0%	No	NA	NA	NA	NA	NA	No
9	0%	No	NA	NA	NA	NA	NA	No
11	0%	No	NA	NA	NA	NA	NA	No
13	0%	No	NA	NA	NA	NA	NA	No
15	0%	No	NA	NA	NA	NA	NA	No
17	0%	No	NA	NA	NA	NA	NA	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

Barriers 7 to 17 feet tall are not acoustically feasible. Therefore, barriers are not recommended for balloting.

Barrier EE

A noise barrier on the west side of the proposed Heber Valley Corridor south of 650 South was evaluated where noise impacts are expected to 1 residential receptor (1363) with Alternative A or B. There is 1 front-row residential receptor in this area. The noise barrier would be located near the right-of-way line on the west side of the Heber Valley Corridor and would be about 978 feet long (see Attachment D, *Build Scenario Noise Walls*).

As summarized in Table 4-11, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-11. Noise-abatement Analysis for Barrier EE for Alternative A and B

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	0%	No	NA	NA	NA	NA	NA	No
9	0%	No	NA	NA	NA	NA	NA	No
11	0%	No	NA	NA	NA	NA	NA	No
13	0%	No	NA	NA	NA	NA	NA	No
15	0%	No	NA	NA	NA	NA	NA	No
17	0%	No	NA	NA	NA	NA	NA	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

Barriers 7 to 17 feet tall are not acoustically feasible. Therefore, barriers are not recommended for balloting.

Barrier FF

A noise barrier on the west side of the proposed Heber Valley Corridor north of 1200 South was evaluated where noise impacts are expected to 2 residential receptors (1364 and 1365) with Alternative A or B. There is 1 front-row residential receptor in this area. The noise barrier would be located near the right-of-way line on the west side of the Heber Valley Corridor and would be about 829 feet long (see Attachment D, *Build Scenario Noise Walls*).

As summarized in Table 4-12, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-12. Noise-abatement Analysis for Barrier FF for Alternatives A and B

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	0%	No	NA	NA	NA	NA	NA	No
9	0%	No	NA	NA	NA	NA	NA	No
11	0%	No	NA	NA	NA	NA	NA	No
13	100%	Yes	0%	No	NA	NA	NA	No
15	100%	Yes	0%	No	NA	NA	NA	No
17	100%	Yes	0%	No	NA	NA	NA	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

Barriers 7 to 11 feet tall are not acoustically feasible. Barriers 13 to 17 feet tall do not meet the noise-abatement design goal. Therefore, barriers are not recommended for balloting.

Barrier GG

A noise barrier on the east side of the proposed Heber Valley Corridor north of 1200 South was evaluated where noise impacts are expected to 9 residential receptors (1366 to 1374) with Alternative A or B. There are 2 front-row residential receptors in this area. The noise barrier would be located near the right-of-way line on the east side of the Heber Valley Corridor and would be about 610 feet long (see Attachment D, *Build Scenario Noise Walls*).

As summarized in Table 4-13, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-13. Noise-abatement Analysis for Barrier GG for Alternatives A and B

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	0%	No	NA	NA	NA	NA	NA	No
9	0%	No	NA	NA	NA	NA	NA	No
11	0%	No	NA	NA	NA	NA	NA	No
13	0%	No	NA	NA	NA	NA	NA	No
15	0%	No	NA	NA	NA	NA	NA	No
17	0%	No	NA	NA	NA	NA	NA	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

Barriers 7 to 17 feet tall are not acoustically feasible. Therefore, barriers are not recommended for balloting.

Barrier HH

A noise barrier on the north side of the proposed Heber Valley Corridor between 1000 West and Industrial Parkway was evaluated where noise impacts are expected to 17 residential receptors (1378 to 1391 and 1393 to 1395) with Alternative A or B. There are 15 front-row residential receptors in this area. The noise barrier would be located near the right-of-way line on the north side of the Heber Valley Corridor and would be about 2,113 feet long (for the 7-to-9-foot-tall barriers) or 1,499 feet tall (for the 11-to-17-foot-tall barriers) (see Attachment D, *Build Scenario Noise Walls*).

As summarized in Table 4-14, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-14. Noise-abatement Analysis for Barrier HH for Alternatives A and B

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable? (CPBR) ^d
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	13%	No	NA	NA	NA	NA	NA	No
9	27%	No	NA	NA	NA	NA	NA	No
11	87%	Yes	20%	No	NA	NA	NA	No
13	93%	Yes	40%	Yes	\$389,740	\$420,000 (14)	Yes	Yes (\$27,839)
15	100%	Yes	73%	Yes	\$449,700	\$450,000 (15)	Yes	Yes (\$29,980)
17	93%	Yes	80%	Yes	\$509,660	\$420,000 (14)	No	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

^d Definition: CPBR = cost per benefitted receptor. This is calculated as the anticipated cost divided by the number of benefitted receptors.

Barriers 7 to 9 feet tall are not acoustically feasible. A barrier 11 feet tall does not meet UDOT's noise-abatement design goal. Barriers 13 to 15 feet tall are acoustically feasible, meet UDOT's noise-abatement design goal, and are cost-reasonable. Barriers 17 feet tall or taller do not meet UDOT's cost-effective criterion for reasonableness. Because the CPBR is the lowest for the 13-foot-tall barrier, UDOT recommends a 1,499-foot-long noise barrier that is 13 feet tall for balloting.

Barrier II

A noise barrier on the north side of the proposed Heber Valley Corridor between Industrial Parkway and 300 West was evaluated where noise impacts are expected to 3 residential receptors (1421 to 1423) with Alternative A or B. There are 13 front-row residential receptors and 1 front-row recreational receptor in this area. The noise barrier would be located near the right-of-way line on the north side of the Heber Valley Corridor and would be about 853 feet long (see Attachment D, *Build Scenario Noise Walls*).

As summarized in Table 4-15, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-15. Noise-abatement Analysis for Barrier II for Alternatives A and B

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable? (CPBR) ^d
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	71%	Yes	29%	No	NA	NA	NA	No
9	93%	Yes	79%	Yes	\$153,540	\$390,000 (13)	Yes	Yes (\$11,811)
11	100%	Yes	86%	Yes	\$187,660	\$420,000 (14)	Yes	Yes (\$13,404)
13	100%	Yes	93%	Yes	\$221,780	\$420,000 (14)	Yes	Yes (\$15,841)
15	100%	Yes	93%	Yes	\$255,900	\$450,000 (15)	Yes	Yes (\$17,060)
17	100%	Yes	93%	Yes	\$290,020	\$450,000 (15)	Yes	Yes (\$19,335)

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

^d Definition: CPBR = cost per benefitted receptor. This is calculated as the anticipated cost divided by the number of benefitted receptors.

A barrier 7 feet tall does not meet UDOT's noise-abatement design goal. Barriers 9 to 17 feet tall are acoustically feasible, meet UDOT's noise-abatement design goal, and are cost-reasonable. Because the CPBR is the lowest for the 9-foot-tall barrier, UDOT recommends an 853-foot-long noise barrier that is 9 feet tall for balloting.

UDOT received comments from Heber City stating that they would prefer that Barrier II be located on the south side of the shared-use path (instead of on the right-of-way line). UDOT reviewed the noise analysis in this area and determined that the noise results described below would be the same if the noise wall was shifted to the south side of the shared-use path. During the final design of the selected alternative, UDOT will coordinate with Heber City regarding the location of Barrier II.

4.3 Barrier Analysis for Alternative A

The following sections describe 9 noise barriers (Barriers G through O) that were evaluated for Alternative A. One of these 9 barriers (Barrier M) was found to be both feasible and reasonable for Alternative A and is recommended for balloting.

Barrier G

A noise barrier on the east side of the proposed Heber Valley Corridor between University Avenue and Potter Lane/College Way was evaluated where noise impacts are expected to 13 residential receptors (667-2, 670-2, 673-2, 526-2, 529-2, 532-2, 535-2, 538-2, 541-2, 676-2, 703-2, 679-2, and 682-2) with Alternative A. There are 18 front-row residential receptors in this area. The noise barrier would be located near the right-of-way line on the east side of the Heber Valley Corridor and would be about 1,166 feet long (see Attachment D, *Build Scenario Noise Walls*). This barrier includes receptors in planned developments (based on information provided by Heber City and Wasatch County) that might not have final, formal building permits. Before the ROD for the Heber Valley Corridor Project is issued, UDOT will confirm the approval status of planned developments with Heber City and Wasatch County, and any unapproved developments will not be recommended for noise abatement in the ROD.

As summarized in Table 4-16, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-16. Noise-abatement Analysis for Barrier G for Alternative A

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	0%	No	NA	NA	NA	NA	NA	No
9	0%	No	NA	NA	NA	NA	NA	No
11	0%	No	NA	NA	NA	NA	NA	No
13	0%	No	NA	NA	NA	NA	NA	No
15	0%	No	NA	NA	NA	NA	NA	No
17	0%	No	NA	NA	NA	NA	NA	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

Barriers 7 to 17 feet tall are not acoustically feasible. Therefore, barriers are not recommended for balloting.

Barrier H

A noise barrier on the east side of the proposed Heber Valley Corridor between Potter Lane/College Way and Commons Boulevard was evaluated where noise impacts are expected to 54 residential receptors (748-4, 749-5, 751-4, 752-5, 754-4, 755-5, 757-4, 758-5, 772-4, 773-5, 775-4, 776-5, 778-4, 779-5, 781-4, 782-5, 785-5, 817-4, 818-5, 815-5, 821-5, 856-4, 857-5, 854-5, 904-3, 905-4, 906-5, 908-3, 909-4, 910-5, 920-3, 921-4, 922-5, 924-3, 925-4, 926-5, 936-3, 937-4, 938-5, 940-3, 941-4, 942-5, 952-3, 953-4, 954-5, 956-3, 957-4, 958-5, 968-3, 969-4, 970-5, 972-3, 973-4, and 974-5) with Alternative A. There are 5 front-row residential receptors in this area. The noise barrier would be located near the right-of-way line on the east side of the Heber Valley Corridor and would be about 2,262 feet long (see Attachment D, *Build Scenario Noise Walls*). This barrier includes receptors in planned developments (based on information provided by Heber City and Wasatch County) that might not have final, formal building permits. Before the ROD for the Heber Valley Corridor Project is issued, UDOT will confirm the approval status of planned developments with Heber City and Wasatch County, and any unapproved developments will not be recommended for noise abatement in the ROD.

As summarized in Table 4-17, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-17. Noise-abatement Analysis for Barrier H for Alternative A

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	0%	No	NA	NA	NA	NA	NA	No
9	0%	No	NA	NA	NA	NA	NA	No
11	0%	No	NA	NA	NA	NA	NA	No
13	0%	No	NA	NA	NA	NA	NA	No
15	0%	No	NA	NA	NA	NA	NA	No
17	40%	No	NA	NA	NA	NA	NA	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

Barriers 7 to 17 feet tall are not acoustically feasible. Therefore, barriers are not recommended for balloting.

Barrier I

A noise barrier on the east side of the proposed Heber Valley Corridor near 2500 North was evaluated where noise impacts are expected to 1 residential receptor (1011) with Alternative A. There is 1 front-row residential receptor in this area. The noise barrier would be located near the right-of-way line on the east side of the Heber Valley Corridor and would be about 529 feet long (see Attachment D, *Build Scenario Noise Walls*).

As summarized in Table 4-18, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-18. Noise-abatement Analysis for Barrier I for Alternative A

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	0%	No	NA	NA	NA	NA	NA	No
9	0%	No	NA	NA	NA	NA	NA	No
11	0%	No	NA	NA	NA	NA	NA	No
13	0%	No	NA	NA	NA	NA	NA	No
15	0%	No	NA	NA	NA	NA	NA	No
17	100%	Yes	0%	No	NA	NA	NA	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

Barriers 7 to 15 feet tall are not acoustically feasible. A barrier 17 feet tall does not meet the noise-abatement design goal. Therefore, barriers are not recommended for balloting.

Barrier J

A noise barrier on the east side of the proposed Heber Valley Corridor between Fitzgerald Road and 1610 North was evaluated where noise impacts are expected to 8 residential receptors (1060, 1090, 1092 to 1094, 1095, 1096, and 1175) with Alternative A. There are 15 front-row residential receptors in this area. The noise barrier would be located near the right-of-way line on the east side of the Heber Valley Corridor and would be about 2,666 feet long (see Attachment D, *Build Scenario Noise Walls*). This barrier includes receptors in planned developments (based on information provided by Heber City and Wasatch County) that might not have final, formal building permits. Before the ROD for the Heber Valley Corridor Project is issued, UDOT will confirm the approval status of planned developments with Heber City and Wasatch County, and any unapproved developments will not be recommended for noise abatement in the ROD.

As summarized in Table 4-19, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-19. Noise-abatement Analysis for Barrier J for Alternative A

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	7%	No	NA	NA	NA	NA	NA	No
9	13%	No	NA	NA	NA	NA	NA	No
11	20%	No	NA	NA	NA	NA	NA	No
13	20%	No	NA	NA	NA	NA	NA	No
15	27%	No	NA	NA	NA	NA	NA	No
17	27%	No	NA	NA	NA	NA	NA	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

Barriers 7 to 17 feet tall are not acoustically feasible. Therefore, barriers are not recommended for balloting.

Barrier K

A noise barrier on the east side of the proposed Heber Valley Corridor at 1200 North was evaluated where noise impacts are expected to 1 residential receptor (1240) with Alternative A. There is 1 front-row residential receptor in this area. The noise barrier would be located near the right-of-way line on the east side of the Heber Valley Corridor and would be about 225 feet long (for 7-to-9-foot-tall barriers) or 175 feet long (for 11-to-17-foot-tall barriers) (see Attachment D, *Build Scenario Noise Walls*).

As summarized in Table 4-20, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-20. Noise-abatement Analysis for Barrier K for Alternative A

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	0%	No	NA	NA	NA	NA	NA	No
9	100%	Yes	0%	No	NA	NA	NA	No
11	100%	Yes	100%	Yes	\$38,500	\$30,000 (1)	No	No
13	100%	Yes	100%	Yes	\$45,500	\$30,000 (1)	No	No
15	100%	Yes	100%	Yes	\$52,500	\$30,000 (1)	No	No
17	100%	Yes	100%	Yes	\$59,500	\$30,000 (1)	No	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

A barrier 7 feet tall is not acoustically feasible. A barrier 9 feet tall does not meet UDOT's design goal criterion for reasonableness. Barriers 11 to 17 feet tall do not meet UDOT's cost-effective criterion for reasonableness. Therefore, barriers are not recommended for balloting.

Barrier L

A noise barrier on the northwest quadrant of 900 North and US-40 was evaluated where noise impacts are expected to 1 residential receptor (1241) with Alternative A. There is 1 front-row residential receptor in this area. The noise barrier would be located near the right-of-way line on the north side of 900 North and would be about 1,046 feet long (for 7-to-11-foot-tall barriers), 399 feet long (for the 13-foot-tall barrier), 287 feet long (for the 15-foot-tall barrier), or 249 feet long (for the 17-foot-tall barrier) (see Attachment D, *Build Scenario Noise Walls*).

As summarized in Table 4-21, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-21. Noise-abatement Analysis for Barrier L for Alternative A

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	0%	No	NA	NA	NA	NA	NA	No
9	100%	Yes	0%	No	NA	NA	NA	No
11	100%	Yes	0%	No	NA	NA	NA	No
13	100%	Yes	100%	Yes	\$103,740	\$30,000 (1)	No	No
15	100%	Yes	100%	Yes	\$86,100	\$30,000 (1)	No	No
17	100%	Yes	100%	Yes	\$84,660	\$30,000 (1)	No	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

A barrier 7 feet tall is not acoustically feasible. Barriers 9 to 11 feet tall do not meet UDOT's design goal criterion for reasonableness. Barriers 13 to 17 feet tall do not meet UDOT's cost-effective criterion for reasonableness. Therefore, barriers are not recommended for balloting.

Barrier M

A noise barrier on the south side of the proposed Heber Valley Corridor between 250 West and US-40 was evaluated where noise impacts are expected to 29 residential receptors (1319-3, 1322-3, 1324-2, 1325-3, 1261-1, 1262-2, 1263-3, 1264-1, 1265-2, 1266-3, 1294-1, 1295-2, 1296-3, 1273-1, 1274-2, 1275-3, 1276-1, 1277-2, 1278-3, 1279-1, 1280-2, 1281-3, 1282-1, 1283-2, 1284-3, 1298-2, 1291-1, 1292-2, and 1293-3) and one recreational receptor (1338) with Alternative A. There are 2 front-row residential receptors and 1 front-row recreational receptor in this area. The noise barrier would be located near the right-of-way lines on the south side of the Heber Valley Corridor and would be about 1,600 feet long (650 feet adjacent to Muirfield Park and 950 feet adjacent to residential properties) (see Attachment D, *Build Scenario Noise Walls*).

As summarized in Table 4-22, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-22. Noise-abatement Analysis for Barrier M for Alternative A

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	0%	No	NA	NA	NA	NA	NA	No
9	0%	No	NA	NA	NA	NA	NA	No
11	67%	Yes	0%	No	NA	NA	NA	No
13	67%	Yes	0%	No	NA	NA	NA	No
15	67%	Yes	33%	No	NA	NA	NA	No
17	100%	Yes	67%	Yes	\$544,000	\$1,014,000 ^d (26)	Yes	Yes

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

^d Anticipated cost used \$20/ft² for residential land use and \$360/lineal foot for recreational land use

Barriers 7 to 9 feet tall are not acoustically feasible. Barriers 11 feet tall to 15 feet tall do not meet UDOT's design goal criterion for reasonableness. A barrier 17 feet tall is acoustically feasible, meets the noise-abatement design goal, and is cost-reasonable. UDOT recommends a 1,600-foot-long noise barrier that is 17 feet tall for balloting.

Barrier N

A noise barrier on the south side of the proposed Heber Valley Corridor between 600 West and 300 West was evaluated where noise impacts are expected to 1 recreational receptor (1339) with Alternative A. There is 1 front-row recreational receptor in this area. The noise barrier would be located near the right-of-way line on the south side of the Heber Valley Corridor and would be about 1,259 feet long (see Attachment D, *Build Scenario Noise Walls*).

As summarized in Table 4-23, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-23. Noise-abatement Analysis for Barrier N for Alternative A

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	0%	No	NA	NA	NA	NA	NA	No
9	0%	No	NA	NA	NA	NA	NA	No
11	0%	No	NA	NA	NA	NA	NA	No
13	0%	No	NA	NA	NA	NA	NA	No
15	0%	No	NA	NA	NA	NA	NA	No
17	0%	No	NA	NA	NA	NA	NA	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

Barriers 7 to 17 feet tall are not acoustically feasible. Therefore, barriers are not recommended for balloting.

Barrier O

A noise barrier on the east side of the proposed Heber Valley Corridor between 500 North and 200 North was evaluated where noise impacts are expected to 1 institutional (activity category C) receptor (1340) with Alternative A. There is 1 front-row institutional receptor in this area. The noise barrier would be located near the right-of-way line on the east side of the Heber Valley Corridor and would be about 1,607 feet long (see Attachment D, *Build Scenario Noise Walls*).

As summarized in Table 4-24, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-24. Noise-abatement Analysis for Barrier O for Alternative A

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	0%	No	NA	NA	NA	NA	NA	No
9	0%	No	NA	NA	NA	NA	NA	No
11	0%	No	NA	NA	NA	NA	NA	No
13	0%	No	NA	NA	NA	NA	NA	No
15	0%	No	NA	NA	NA	NA	NA	No
17	0%	No	NA	NA	NA	NA	NA	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

Barriers 7 to 17 feet tall are not acoustically feasible. Therefore, barriers are not recommended for balloting.

4.4 Barrier Analysis for Alternative B

The following sections describe 9 noise barriers (Barriers G through O) that were evaluated for Alternative B. None of these 9 barriers were found to be both feasible and reasonable for Alternative B.

Barrier G

A noise barrier on the east side of the proposed Heber Valley Corridor between about 3400 North and Potter Lane/College Way was evaluated where noise impacts are expected to 88 residential receptors (712-2, 644-2, 558-1, 559-2, 561-1, 562-2, 564-1, 565-2, 567-1, 568-2, 685-2, 666-1, 667-2, 669-1, 670-2, 673-2, 525-1, 526-2, 528-1, 529-2, 531-1, 532-2, 534-1, 535-2, 537-1, 538-2, 540-1, 541-2, 571-2, 574-2, 676-2, 702-1, 703-2, 556-2, 679-2, 706-2, 682-2, 709-2, 730-2, 727-2, 723-1, 724-2, 720-1, 721-2, 527-3, 530-3, 533-3, 536-3, 539-3, 542-3, 560-3, 563-3, 566-3, 569-3, 572-3, 575-3, 593-3, 590-3, 633-3, 636-3, 639-3, 713-3, 642-3, 645-3, 686-3, 668-3, 671-3, 674-3, 578-3, 581-3, 677-3, 704-3, 557-3, 584-3, 587-3, 680-3, 707-3, 683-3, 710-3, 630-3, 716-3, 719-3, 737-3, 734-3, 731-3, 728-3, 725-3, and 722-3) with Alternative B. There are 18 front-row residential receptors in this area. The noise barrier would be located near the right-of-way line on the east side of the Heber Valley Corridor and would be about 1,591 feet long (see Attachment D, *Build Scenario Noise Walls*).

As summarized in Table 4-25, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-25. Noise-abatement Analysis for Barrier G for Alternative B

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	0%	No	NA	NA	NA	NA	NA	No
9	11%	No	NA	NA	NA	NA	NA	No
11	17%	No	NA	NA	NA	NA	NA	No
13	22%	No	NA	NA	NA	NA	NA	No
15	22%	No	NA	NA	NA	NA	NA	No
17	39%	No	NA	NA	NA	NA	NA	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

Barriers 7 to 17 feet tall are not acoustically feasible. Therefore, barriers are not recommended for balloting.

Barrier H

A noise barrier on the east side of US-40 between Potter Lane/College Way and 2500 North was evaluated where noise impacts are expected to 66 residential receptors (1010, 745-4, 746-5, 747-3, 748-4, 749-5, 751-4, 752-5, 753-3, 754-4, 755-5, 756-3, 757-4, 758-5, 771-3, 772-4, 773-5, 774-3, 775-4, 776-5, 777-3, 778-4, 779-5, 780-3, 781-4, 782-5, 784-4, 785-5, 817-4, 818-5, 814-4, 815-5, 820-4, 821-5, 856-4, 857-5, 853-4, 854-5, 860-5, 904-3, 905-4, 906-5, 908-3, 909-4, 910-5, 920-3, 921-4, 922-5, 924-3, 925-4, 926-5, 936-3, 937-4, 938-5, 940-3, 941-4, 942-5, 953-4, 954-5, 957-4, 958-5, 968-3, 969-4, 970-5, 973-4, and 974-5) with Alternative B. There are 5 front-row commercial receptors and 1 front-row residential receptor in this area. The noise barrier would be located near the right-of-way line on the east side of US-40 and would be about 2,824 feet long (see Attachment D, *Build Scenario Noise Walls*).

As summarized in Table 4-26, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-26. Noise-abatement Analysis for Barrier H for Alternative B

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	0%	No	NA	NA	NA	NA	NA	No
9	17%	No	NA	NA	NA	NA	NA	No
11	17%	No	NA	NA	NA	NA	NA	No
13	17%	No	NA	NA	NA	NA	NA	No
15	50%	Yes	17%	No	NA	NA	NA	No
17	100%	Yes	17%	No	NA	NA	NA	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

Barriers 7 to 13 feet tall are not acoustically feasible. Barriers 15 to 17 feet tall do not meet UDOT's design goal criterion for reasonableness. Therefore, barriers are not recommended for balloting.

Barrier I

A noise barrier on the west side of US-40 near 1760 North was evaluated where noise impacts are expected to 1 residential receptor (1232) with Alternative B. There is 1 front-row residential receptor in this area. The noise barrier would be located near the right-of-way line on the west side of US-40 and would be about 156 feet long (see Attachment D, *Build Scenario Noise Walls*).

As summarized in Table 4-27, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-27. Noise-abatement Analysis for Barrier I for Alternative B

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	0%	No	NA	NA	NA	NA	NA	No
9	0%	No	NA	NA	NA	NA	NA	No
11	0%	No	NA	NA	NA	NA	NA	No
13	0%	No	NA	NA	NA	NA	NA	No
15	0%	No	NA	NA	NA	NA	NA	No
17	0%	No	NA	NA	NA	NA	NA	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

Barriers 7 to 17 feet tall are not acoustically feasible. Therefore, barriers are not recommended for balloting.

Barrier J

A noise barrier on the east side of US-40 between Coyote Canyon Parkway and 1610 North was evaluated where noise impacts are expected to 1 commercial receptor (1174) and 1 residential receptor (1175) with Alternative B. There are 2 front-row residential receptors and 1 front-row commercial receptor in this area. The noise barrier would be located near the right-of-way line on the east side of US-40 and would be about 835 feet long (see Attachment D, *Build Scenario Noise Walls*). This barrier includes receptors in planned developments (based on information provided by Heber City and Wasatch County) that might not have final, formal building permits. Before the ROD for the Heber Valley Corridor Project is issued, UDOT will confirm the approval status of planned developments with Heber City and Wasatch County, and any unapproved developments will not be recommended for noise abatement in the ROD.

As summarized in Table 4-28, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-28. Noise-abatement Analysis for Barrier J for Alternative B

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	33%	No	NA	NA	NA	NA	NA	No
9	67%	Yes	67%	Yes	\$150,300	\$60,000 (2)	No	No
11	67%	Yes	67%	Yes	\$183,700	\$60,000 (2)	No	No
13	67%	Yes	67%	Yes	\$217,100	\$60,000 (2)	No	No
15	67%	Yes	67%	Yes	\$250,500	\$60,000 (2)	No	No
17	67%	Yes	67%	Yes	\$283,900	\$180,000 (6)	No	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

A barrier 7 feet tall is not acoustically feasible. Barriers 9 to 17 feet tall do not meet UDOT's cost-effective criterion for reasonableness. Therefore, barriers are not recommended for balloting.

Barrier K

A noise barrier on the west side of US-40 south of 1610 North was evaluated where noise impacts are expected to 1 residential receptor (1233) with Alternative B. There is 1 front-row residential receptor in this area. The noise barrier would be located near the right-of-way line on the west side of US-40 and would be about 257 feet long (see Attachment D, *Build Scenario Noise Walls*).

As summarized in Table 4-29, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-29. Noise-abatement Analysis for Barrier K for Alternative B

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	0%	No	NA	NA	NA	NA	NA	No
9	100%	Yes	0%	No	NA	NA	NA	No
11	100%	Yes	0%	No	NA	NA	NA	No
13	100%	Yes	100%	Yes	\$66,820	\$30,000 (1)	No	No
15	100%	Yes	100%	Yes	\$77,100	\$30,000 (1)	No	No
17	100%	Yes	100%	Yes	\$87,380	\$30,000 (1)	No	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

A barrier 7 feet tall is not acoustically feasible. Barriers 9 to 11 feet tall do not meet UDOT's design goal criterion for reasonableness. Barriers 13 to 17 feet tall do not meet UDOT's cost-effective criterion for reasonableness. Therefore, barriers are not recommended for balloting.

Barrier L

A noise barrier on the east side of US-40 south of 1610 North was evaluated where noise impacts are expected to 1 residential receptor (1234) with Alternative B. There is 1 front-row residential receptor in this area. The noise barrier would be located near the right-of-way line on the east side of US-40 and would be about 239 feet long (see Attachment D, *Build Scenario Noise Walls*).

As summarized in Table 4-30, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-30. Noise-abatement Analysis for Barrier L for Alternative B

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	0%	No	NA	NA	NA	NA	NA	No
9	0%	No	NA	NA	NA	NA	NA	No
11	0%	No	NA	NA	NA	NA	NA	No
13	100%	Yes	0%	No	NA	NA	NA	No
15	100%	Yes	0%	No	NA	NA	NA	No
17	100%	Yes	0%	No	NA	NA	NA	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

Barriers 7 to 11 feet tall are not acoustically feasible. Barriers 13 to 17 feet tall do not meet UDOT's design goal criterion for reasonableness. Therefore, barriers are not recommended for balloting.

Barrier M

A noise barrier on the south side of the proposed Heber Valley Corridor between 250 West and US-40 was evaluated where noise impacts are expected to 21 residential receptors (1261-1, 1262-2, 1263-3, 1264-1, 1265-2, 1266-3, 1294-1, 1295-2, 1296-3, 1273-1, 1274-2, 1275-3, 1276-1, 1277-2, 1278-3, 1279-1, 1280-2, 1281-3, 1282-1, 1283-2, and 1284-3) and 1 recreational receptor (1338) with Alternative B. There are 2 front-row residential receptors and 1 front-row recreational receptor in this area. The noise barrier would be located near the right-of-way line on the south side of the Heber Valley Corridor and would be about 1,648 feet long (see Attachment D, *Build Scenario Noise Walls*).

As summarized in Table 4-31, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-31. Noise-abatement Analysis for Barrier M for Alternative B

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	0%	No	NA	NA	NA	NA	NA	No
9	0%	No	NA	NA	NA	NA	NA	No
11	0%	No	NA	NA	NA	NA	NA	No
13	67%	Yes	0%	No	NA	NA	NA	No
15	67%	Yes	0%	No	NA	NA	NA	No
17	67%	Yes	0%	No	NA	NA	NA	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

Barriers 7 to 11 feet tall are not acoustically feasible. Barriers 13 to 17 feet tall do not meet UDOT's design goal criterion for reasonableness. Therefore, barriers are not recommended for balloting.

Barrier N

A noise barrier on the south side of the proposed Heber Valley Corridor between 600 West and 300 West was evaluated where noise impacts are expected to 1 recreational receptor (1339) with Alternative B. There is 1 front-row recreational receptor in this area. The noise barrier would be located near the right-of-way line on the south side of the Heber Valley Corridor and would be about 1,271 feet long (see Attachment D, *Build Scenario Noise Walls*).

As summarized in Table 4-32, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-32. Noise-abatement Analysis for Barrier N for Alternative B

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	0%	No	NA	NA	NA	NA	NA	No
9	0%	No	NA	NA	NA	NA	NA	No
11	0%	No	NA	NA	NA	NA	NA	No
13	0%	No	NA	NA	NA	NA	NA	No
15	0%	No	NA	NA	NA	NA	NA	No
17	0%	No	NA	NA	NA	NA	NA	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

Barriers 7 to 17 feet tall are not acoustically feasible. Therefore, barriers are not recommended for balloting.

Barrier O

A noise barrier on the east side of the proposed Heber Valley Corridor between 500 North and 200 North was evaluated where noise impacts are expected to 1 institutional (activity category C) receptor (1340) with Alternative B. There is 1 front-row institutional receptor in this area. The noise barrier would be located near the right-of-way line on the east side of the Heber Valley Corridor and would be about 1,128 feet long (see Attachment D, *Build Scenario Noise Walls*).

As summarized in Table 4-33, UDOT evaluated the proposed barrier at heights varying from 7 to 17 feet (for detailed information, see Attachment E, *Noise Wall Analysis*).

Table 4-33. Noise-abatement Analysis for Barrier O for Alternative B

Barrier Height (feet)	Feasible		Reasonable					Is Barrier Feasible and Reasonable?
	% Front-row with 5-dBA Reduction	Acoustically Feasible? ^a	% Front-row with 7-dBA Reduction	Noise Abatement Design Goal? ^b	Anticipated Cost	Allowable Cost (No. of Benefitted Receptors)	Cost-effective? ^c	
7	0%	No	NA	NA	NA	NA	NA	No
9	0%	No	NA	NA	NA	NA	NA	No
11	0%	No	NA	NA	NA	NA	NA	No
13	0%	No	NA	NA	NA	NA	NA	No
15	0%	No	NA	NA	NA	NA	NA	No
17	0%	No	NA	NA	NA	NA	NA	No

^a 5-dBA reduction for at least 50% of front-row receptors

^b 7-dBA reduction for at least 35% of front-row receptors

^c Anticipated cost is less than allowable cost

Barriers 7 to 17 feet tall are not acoustically feasible. Therefore, barriers are not recommended for balloting.

5.0 Construction Impacts

Construction noise impacts are considered temporary and will be minimized by following UDOT Special Provision 01355M, Environmental Compliance, and Special Provision 00555, Prosecution and Progress. UDOT does not expect that normal activities would be disrupted for an extended time, since no receptors are expected to be exposed to construction noise for a long time.

6.0 Information for Local Officials

According to UDOT's noise-abatement policy, UDOT must provide to local governments an estimated distance from the edge of pavement to where the worst-hour $L_{eq}(h)$ levels of 66 dBA and 71 dBA occur for land uses with activity category G.

There are undeveloped areas near the project alternatives on both sides of US-40 north of Heber City, north of Heber City and south of River Road/SR-32, on the west side of Heber City, and on the southeast side of Heber City near US-189. Table 6-1 lists the distances from the edge of the roadway pavement to the locations where the worst-hour $L_{eq}(h)$ levels of 66 dBA and 71 dBA would occur. The 66-dBA contour line represents the areas that would have residential noise impacts under UDOT's noise-abatement policy. The 71-dBA contour line represents the areas that would have noise impacts at hotels, motels, offices, restaurants and bars, and other undeveloped lands, properties, or activities not included in activity categories A–D or F under UDOT's noise-abatement policy.

Table 6-1. Contour Distance to Future Noise Levels

Alternatives and Segments	Approximate Distance from Edge of Pavement to Noise-level Contour	
	66-dBA Noise-level Contour	71-dBA Noise-level Contour
Alternatives A and B Western Corridor segments (65 mph)	210 feet	45 feet
Alternatives A and B North US-40 segments (55 mph)	140 feet	45 feet

Definitions: mph = miles per hour

7.0 Conclusions

Table 7-1 summarizes the modeled noise levels and traffic noise impacts for existing conditions and the two action alternatives.

Table 7-1. Modeled Noise Levels and Traffic Noise Impacts for Existing Conditions and the No-action and Action Alternatives

Alternative	Total Receptors Modeled	Modeled Noise Levels	Existing Conditions and No-action Alternative Receptors with Modeled Noise Greater than UDOT NAC	Traffic Noise Impacts with Action Alternative
Alternative A	1,480	35–72 dBA	105 (104) ^{a, b}	230 (227) ^a
Alternative B	1,417	34–79 dBA	102 (101) ^{a, b}	277 (273) ^a

^a Impacts to land use activity category B (residential properties) are listed in parentheses.

^b For existing conditions, these are the number of receptors with modeled noise that is greater than the UDOT NAC.

Recommended noise barriers in the noise evaluation area that met the requirements of UDOT's noise-abatement policy are discussed below. UDOT would not make the final decision to build a noise barrier until the project design is completed and refined utility and right-of-way costs are available. UDOT would revisit reasonableness using refined costs before balloting residents whose residences would be benefited by a noise barrier. A barrier identified as recommended for balloting is a barrier that has been shown to be both feasible and reasonable. However, that finding is not a commitment to build a barrier.

7.1 Summary of Evaluation of Barriers for Alternative A

Table 7-2 summarizes the evaluated noise barriers for Alternative A. Four of the 24 evaluated barriers (Barriers F, M, HH, and II) are recommended for balloting.

Table 7-2. Alternative A Evaluated Noise Barriers

Proposed Barrier	Length (feet)	Minimum Height (feet)	Determination
A			Not recommended
B			Not recommended
C			Not recommended
D			Not recommended
E			Not recommended
F	383	11	Recommended for balloting
G			Not recommended
H			Not recommended
I			Not recommended
J			Not recommended
K			Not recommended
L			Not recommended
M	1,600	17	Recommended for balloting
N			Not recommended
O			Not recommended
AA			Not recommended
BB			Not recommended
CC			Not recommended
DD			Not recommended
EE			Not recommended
FF			Not recommended
GG			Not recommended
HH	1,499	13	Recommended for balloting
II	853	9	Recommended for balloting

7.2 Summary of Evaluation of Barriers for Alternative B

Table 7-3 summarizes the evaluated noise barriers for Alternative B. Three of the 24 evaluated barriers (Barriers F, HH, and II) are recommended for balloting.

Table 7-3. Alternative B Evaluated Noise Barriers

Proposed Barrier	Length (feet)	Minimum Height (feet)	Determination
A			Not recommended
B			Not recommended
C			Not recommended
D			Not recommended
E			Not recommended
F	383	11	Recommended for balloting
G			Not recommended
H			Not recommended
I			Not recommended
J			Not recommended
K			Not recommended
L			Not recommended
M			Not recommended
N			Not recommended
O			Not recommended
AA			Not recommended
BB			Not recommended
CC			Not recommended
DD			Not recommended
EE			Not recommended
FF			Not recommended
GG			Not recommended
HH	1,499	13	Recommended for balloting
II	853	9	Recommended for balloting

8.0 References

[CEQ] Council on Environmental Quality

1970 Environmental Quality: The First Annual Report of the Council on Environmental Quality.

[FHWA] Federal Highway Administration

2011 Highway Traffic Noise: Analysis and Abatement Guidance. FHWA-HEP-10-025.
https://www.fhwa.dot.gov/environment/noise/regulations_and_guidance/analysis_and_abatement_guidance/revguidance.pdf. December.

Parametrix

2023 Level of Service and Fleet Mix Data for Noise Analysis. August 8.

[UDOT] Utah Department of Transportation

2020 UDOT Policy 08A2-01, Noise Abatement. Revised May 8, 2020.
<https://drive.google.com/file/d/1B6-c6CCTFMuE-KMcVM9OhjggEhqn37g/view>.

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ATTACHMENT A

Noise Monitoring Data Sheets and Existing Noise Receptor Maps

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**SHORT-TERM TRAFFIC NOISE MONITORING LOG SHEET**

Reading: ML-1

Project Description: Heber EISNoise Source: Vehicles Date: 7/7/2022 Personnel: JM & MCP

Equipment	Type	Serial #
Sound Level Meter	Larson Davis	824A2636
Microphone/Preamp	Larson Davis 2541; PRM902	7490; 2618
Calibrator	Larson Davis CAL200	3669

SLM SETTINGS (circle one) FAST SLOWWEIGHTING (circle one) A Lin.Location Description: 40° 33' 21" N 111° 25' 27" W**SITE SKETCH:** Including noise source, receptors, reference distances, North arrow, wind direction arrow, terrain and shielding, roadway profile, and direct lines of sight:**Minimum :** 49.6 dBA**Maximum :** 80.6 dBA**Leq :** 68.3 dBA**Datafile number :** 3

Start Time:	Stop Time:	Duration:
<u>1:20 PM</u>	<u>1:40 PM</u>	<u>20 minutes</u>

Wind Speed/Direction: 4-8 mph NE Percentiles:Temperature: 91° Fahrenheit Humidity: 15%Calibration results before: 113.8 dBA and after: 113.8 dBATraffic Count Roadway: 100 feet from Highway 40

Direction	Autos	Medium Trucks	Heavy Trucks	Buses	Motorcycles
North	276	18	21	2	1
South	298	6	15	1	1



ML-1a



ML-1b

**SHORT-TERM TRAFFIC NOISE MONITORING LOG SHEET**

Reading: ML-2

Project Description: Heber EISNoise Source: Vehicles Date: 7/7/2022 Personnel: JM & MCP

Equipment	Type	Serial #
Sound Level Meter	Larson Davis	824A2636
Microphone/Preamp	Larson Davis 2541; PRM902	7490; 2618
Calibrator	Larson Davis CAL200	3669

SLM SETTINGS (circle one) FAST SLOWWEIGHTING (circle one) A Lin.Location Description: 40° 33' 24" N 111° 25' 49" W**SITE SKETCH:** Including noise source, receptors, reference distances, North arrow, wind direction arrow, terrain and shielding, roadway profile, and direct lines of sight:**Minimum :** 47.4 dBA**Maximum :** 82.3 dBA**Leq :** 66.8 dBA**Datafile number :** 2

Start Time:	Stop Time:	Duration:
<u>12:30 PM</u>	<u>12:50 PM</u>	<u>20 minutes</u>

Wind Speed/Direction: 2-3 mph NW Percentiles:Temperature: 91° Fahrenheit Humidity: 19%Calibration results before: 114.0 dBA and after: 113.8 dBATraffic Count Roadway: 20 feet from River Road

Direction	Autos	Medium Trucks	Heavy Trucks	Buses	Motorcycles
East	64	2	1	0	1
West	79	2	0	0	1



ML-2a



ML-2b

**SHORT-TERM TRAFFIC NOISE MONITORING LOG SHEET**

Reading: ML-3

Project Description: Heber EISNoise Source: Vehicles Date: 7/16/2022 Personnel: JM

Equipment	Type	Serial #
Sound Level Meter	Larson Davis	824A2636
Microphone/Preamp	Larson Davis 2541; PRM902	7490; 2618
Calibrator	Larson Davis CAL200	3669

SLM SETTINGS (circle one) FAST SLOWWEIGHTING (circle one) A Lin.Location Description: 40° 33' 15" N 111° 25' 55" W

SITE SKETCH: Including noise source, receptors, reference distances, North arrow, wind direction arrow, terrain and shielding, roadway profile, and direct lines of sight: Parking lot to NE, people walked by @ 20th minute.

Minimum : 41.8 dBA**Maximum :** 55.5 dBA**Leq :** 46.0 dBA**Datafile number :** 29

Start Time: Stop Time: Duration:
3:15 PM 3:35 PM 20 minutes

Wind Speed/Direction: 4-6 mph S Percentiles:Temperature: 90° Fahrenheit Humidity: 17%Calibration results before: 113.8 dBA and after: 113.8 dBATraffic Count Roadway: River Road

Direction	Autos	Medium Trucks	Heavy Trucks	Buses	Motorcycles
Northeast	83	0	0	0	2
Southwest	69	0	0	0	4



ML-3a



ML-3b

**SHORT-TERM TRAFFIC NOISE MONITORING LOG SHEET**

Reading: ML-4

Project Description: Heber EISNoise Source: Vehicles Date: 7/14/2022 Personnel: JM & MCP

Equipment	Type	Serial #
Sound Level Meter	Larson Davis	824A2636
Microphone/Preamp	Larson Davis 2541; PRM902	7490; 2618
Calibrator	Larson Davis CAL200	3669

SLM SETTINGS (circle one) FAST SLOWWEIGHTING (circle one) A Lin.Location Description: 40° 32' 39" N 111° 25' 42" W**SITE SKETCH:** Including noise source, receptors, reference distances, North arrow, wind direction arrow, terrain and shielding, roadway profile, and direct lines of sight:**Minimum :** 32.8 dBA**Maximum :** 76.4 dBA**Leq :** 50.7 dBA**Datafile number :** 24

Start Time:	Stop Time:	Duration:
<u>11:48 PM</u>	<u>12:08 PM</u>	<u>20 minutes</u>

Wind Speed/Direction: 2-4 mph N Percentiles:Temperature: 78° Fahrenheit Humidity: 41%Calibration results before: 113.9 dBA and after: 113.9 dBATraffic Count Roadway: Potter Lane

Direction	Autos	Medium Trucks	Heavy Trucks	Buses	Motorcycles
East	0	0	1	0	0
West	1	0	0	0	0



ML-4a



ML-4b

**SHORT-TERM TRAFFIC NOISE MONITORING LOG SHEET**

Reading: ML-5

Project Description: Heber EISNoise Source: Vehicles Date: 7/13/2022 Personnel: JM

Equipment	Type	Serial #
Sound Level Meter	Larson Davis	824A2636
Microphone/Preamp	Larson Davis 2541; PRM902	7490; 2618
Calibrator	Larson Davis CAL200	3669

SLM SETTINGS (circle one) FAST SLOWWEIGHTING (circle one) A Lin.Location Description: 40° 31' 45" N 111° 25' 32" W

SITE SKETCH: Including noise source, receptors, reference distances, North arrow, wind direction arrow, terrain and shielding, roadway profile, and direct lines of sight: Adjacent to horse pasture. North Field Road had one car that was heading south.

Minimum : 33.0 dBA**Maximum :** 77.6 dBA**Leq :** 52.6 dBA**Datafile number :** 10

Start Time:	Stop Time:	Duration:
<u>10:42 PM</u>	<u>11:02 PM</u>	<u>20 minutes</u>

Wind Speed/Direction: 0-1 mph

Percentiles:

Temperature: 80° FahrenheitHumidity: 29%Calibration results before: 114.0 dBA and after: 114.0 dBATraffic Count Roadway: 1800 North Street

Direction	Autos	Medium Trucks	Heavy Trucks	Buses	Motorcycles
East	1	0	0	0	0
West	1	0	0	0	0



ML-5a



ML-5b

**SHORT-TERM TRAFFIC NOISE MONITORING LOG SHEET**

Reading: ML-6

Project Description: Heber EISNoise Source: Vehicles Date: 7/16/2022 Personnel: JM

Equipment	Type	Serial #
Sound Level Meter	Larson Davis	824A2636
Microphone/Preamp	Larson Davis 2541; PRM902	7490; 2618
Calibrator	Larson Davis CAL200	3669

SLM SETTINGS (circle one) FAST SLOWWEIGHTING (circle one) A Lin.Location Description: 40° 30' 25" N 111° 26' 11" W**SITE SKETCH:** Including noise source, receptors, reference distances, North arrow, wind direction arrow, terrain and shielding, roadway profile, and direct lines of sight:**Minimum :** 35.2 dBA**Maximum :** 85.7 dBA**Leq :** 69.0 dBA**Datafile number :** 27

Start Time:	Stop Time:	Duration:
<u>1:58 PM</u>	<u>2:18 PM</u>	<u>20 minutes</u>

Wind Speed/Direction: 3-5 mph E

Percentiles:

Temperature: 89° FahrenheitHumidity: 17%Calibration results before: 113.6 dBA and after: 113.8 dBATraffic Count Roadway: Midway Lane

Direction	Autos	Medium Trucks	Heavy Trucks	Buses	Motorcycles
East	136	1	0	0	1
West	143	1	0	0	9



ML-6a



ML-6b

**SHORT-TERM TRAFFIC NOISE MONITORING LOG SHEET**

Reading: ML-7

Project Description: Heber EISNoise Source: Vehicles Date: 7/13/2022 Personnel: JM

Equipment	Type	Serial #
Sound Level Meter	Larson Davis	824A2636
Microphone/Preamp	Larson Davis 2541; PRM902	7490; 2618
Calibrator	Larson Davis CAL200	3669

SLM SETTINGS (circle one) FAST SLOWWEIGHTING (circle one) A Lin.Location Description: 40° 30' 22" N 111° 25' 57" W**SITE SKETCH:** Including noise source, receptors, reference distances, North arrow, wind direction arrow, terrain and shielding, roadway profile, and direct lines of sight:**Minimum :** 41.5 dBA**Maximum :** 69.5 dBA**Leq :** 55.1 dBA**Datafile number :** 11

Start Time:	Stop Time:	Duration:
<u>11:24 AM</u>	<u>11:44 AM</u>	<u>20 minutes</u>

Wind Speed/Direction: 4-8 mph NE

Percentiles:

Temperature: 86° FahrenheitHumidity: 24%Calibration results before: 113.9 dBA and after: 113.6 dBATraffic Count Roadway: 1140 West Street & Midway Lane

Direction	Autos	Medium Trucks	Heavy Trucks	Buses	Motorcycles
North (1140 W St)	18	0	3	0	0
South (1140 W St)	14	3	2	0	0
West (Midway Lane)	126	2	2	0	0
East (Midway Lane)	156	3	3	0	1



ML-7a



ML-7b

**SHORT-TERM TRAFFIC NOISE MONITORING LOG SHEET**

Reading: ML-8

Project Description: Heber EISNoise Source: Vehicles Date: 7/16/2022 Personnel: JM

Equipment	Type	Serial #
Sound Level Meter	Larson Davis	824A2636
Microphone/Preamp	Larson Davis 2541; PRM902	7490; 2618
Calibrator	Larson Davis CAL200	3669

SLM SETTINGS (circle one) FAST SLOWWEIGHTING (circle one) A Lin.Location Description: 40° 30' 24" N 111° 26' 18" W**SITE SKETCH:** Including noise source, receptors, reference distances, North arrow, wind direction arrow, terrain and shielding, roadway profile, and direct lines of sight:**Minimum :** 37.3 dBA**Maximum :** 84.4 dBA**Leq :** 70.7 dBA**Datafile number :** 28

Start Time:	Stop Time:	Duration:
<u>2:28 PM</u>	<u>2:48 PM</u>	<u>20 minutes</u>

Wind Speed/Direction: 5 mph S

Percentiles:

Temperature: 90° FahrenheitHumidity: 17%Calibration results before: 113.8 dBA and after: 113.8 dBATraffic Count Roadway: Midway Lane

Direction	Autos	Medium Trucks	Heavy Trucks	Buses	Motorcycles
West	135	0	0	0	1
East	154	1	0	0	0



ML-8a



ML-8b

**SHORT-TERM TRAFFIC NOISE MONITORING LOG SHEET**

Reading: ML-9

Project Description: Heber EISNoise Source: Vehicles Date: 7/13/2022 Personnel: JM

Equipment	Type	Serial #
Sound Level Meter	Larson Davis	824A2636
Microphone/Preamp	Larson Davis 2541; PRM902	7490; 2618
Calibrator	Larson Davis CAL200	3669

SLM SETTINGS (circle one) FAST SLOWWEIGHTING (circle one) A Lin.Location Description: 40° 29' 58" N 111° 26' 10" W

SITE SKETCH: Including noise source, receptors, reference distances, North arrow, wind direction arrow, terrain and shielding, roadway profile, and direct lines of sight: Landowner interaction 15 minutes into measurement.

Minimum : 35.0 dBA**Maximum :** 77.2 dBA**Leq :** 55.7 dBA**Datafile number :** 12

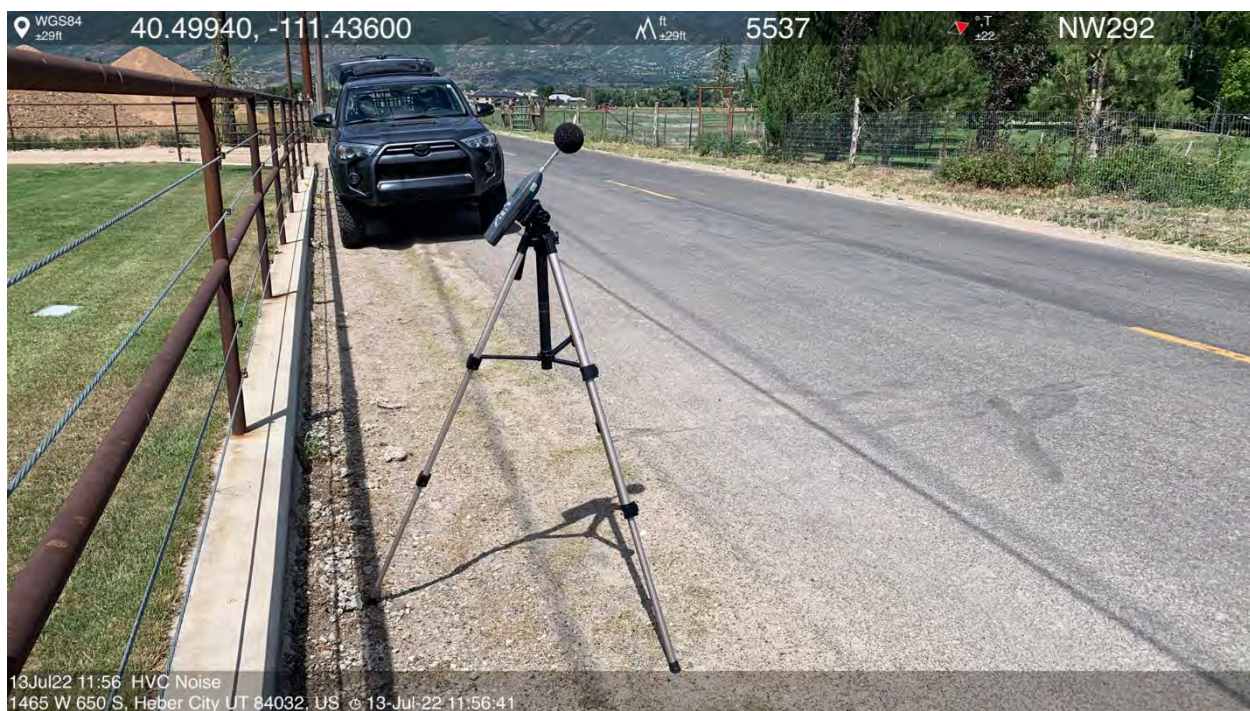
Start Time: Stop Time: Duration:
11:58 AM 12:18 PM 20 minutes

Wind Speed/Direction: 8-12 mph NE Percentiles:Temperature: 89° Fahrenheit Humidity: 21%Calibration results before: 113.6 dBA and after: 113.7 dBATraffic Count Roadway: 650 South

Direction	Autos	Medium Trucks	Heavy Trucks	Buses	Motorcycles
West	5	0	0	0	0
East	6	0	0	0	0



ML-9a



ML-9b

**SHORT-TERM TRAFFIC NOISE MONITORING LOG SHEET**

Reading: ML-10

Project Description: Heber EISNoise Source: Vehicles Date: 7/13/2022 Personnel: JM

Equipment	Type	Serial #
Sound Level Meter	Larson Davis	824A2636
Microphone/Preamp	Larson Davis 2541; PRM902	7490; 2618
Calibrator	Larson Davis CAL200	3669

SLM SETTINGS (circle one) FAST SLOWWEIGHTING (circle one) A Lin.Location Description: 40° 29' 34" N 111° 26' 26" W**SITE SKETCH:** Including noise source, receptors, reference distances, North arrow, wind direction arrow, terrain and shielding, roadway profile, and direct lines of sight: 10 feet off roadway.**Minimum :** 37.5 dBA**Maximum :** 85.1 dBA**Leq :** 61.6 dBA**Datafile number :** 13

Start Time:	Stop Time:	Duration:
<u>12:29 PM</u>	<u>12:49 PM</u>	<u>20 minutes</u>

Wind Speed/Direction: 8-12 mph NE

Percentiles:

Temperature: 91° FahrenheitHumidity: 16%Calibration results before: 113.7 dBA and after: 113.6 dBATraffic Count Roadway: 1200 South

Direction	Autos	Medium Trucks	Heavy Trucks	Buses	Motorcycles
West	6	1	0	0	1
East	8	0	0	0	0



ML-10a



ML-10b

**SHORT-TERM TRAFFIC NOISE MONITORING LOG SHEET**

Reading: ML-11

Project Description: Heber EISNoise Source: Vehicles Date: 7/13/2022 Personnel: JM

Equipment	Type	Serial #
Sound Level Meter	Larson Davis	824A2636
Microphone/Preamp	Larson Davis 2541; PRM902	7490; 2618
Calibrator	Larson Davis CAL200	3669

SLM SETTINGS (circle one) FAST SLOWWEIGHTING (circle one) A Lin.Location Description: 40° 29' 31" N 111° 26' 0" W**SITE SKETCH:** Including noise source, receptors, reference distances, North arrow, wind direction arrow, terrain and shielding, roadway profile, and direct lines of sight: 10 feet off roadway.**Minimum :** 38.8 dBA**Maximum :** 77.1 dBA**Leq :** 57.4 dBA**Datafile number :** 14

Start Time:	Stop Time:	Duration:
<u>12:59 PM</u>	<u>1:19 PM</u>	<u>20 minutes</u>

Wind Speed/Direction: 12-14 mph NE

Percentiles:

Temperature: 91° FahrenheitHumidity: 17%Calibration results before: 113.7 dBA and after: 113.8 dBATraffic Count Roadway: South Field Road

Direction	Autos	Medium Trucks	Heavy Trucks	Buses	Motorcycles
North	9	0	0	0	0
South	7	0	0	0	0



ML-11a



ML-11b

**SHORT-TERM TRAFFIC NOISE MONITORING LOG SHEET**

Reading: ML-12

Project Description: Heber EISNoise Source: Vehicles Date: 7/13/2022 Personnel: JM

Equipment	Type	Serial #
Sound Level Meter	Larson Davis	824A2636
Microphone/Preamp	Larson Davis 2541; PRM902	7490; 2618
Calibrator	Larson Davis CAL200	3669

SLM SETTINGS (circle one) FAST SLOWWEIGHTING (circle one) A Lin.Location Description: 40° 29' 0" N 111° 26' 36" W

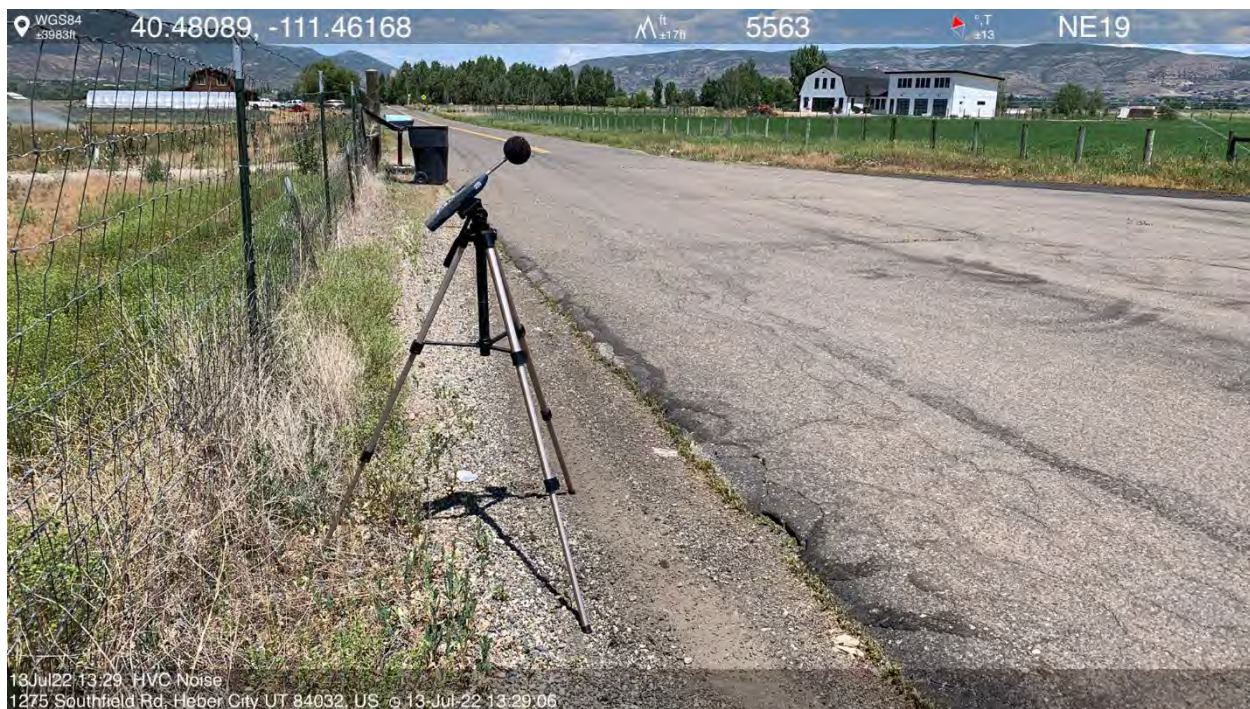
SITE SKETCH: Including noise source, receptors, reference distances, North arrow, wind direction arrow, terrain and shielding, roadway profile, and direct lines of sight: Plane flew over near end of measurement.

Minimum : 40.7 dBA**Maximum :** 72.2 dBA**Leq :** 56.7 dBA**Datafile number :** 15

Start Time: Stop Time: Duration:
1:30 PM 1:50 PM 20 minutes

Wind Speed/Direction: 8-12 mph NE Percentiles:Temperature: 94° Fahrenheit Humidity: 14%Calibration results before: 113.8 dBA and after: 113.9 dBATraffic Count Roadway: Highway 189

Direction	Autos	Medium Trucks	Heavy Trucks	Buses	Motorcycles
Northeast	211	10	11	0	1
Southwest	232	9	9	0	3



ML-12a



ML-12b

**SHORT-TERM TRAFFIC NOISE MONITORING LOG SHEET**

Reading: ML-13

Project Description: Heber EISNoise Source: Vehicles Date: 7/13/2022 Personnel: JM

Equipment	Type	Serial #
Sound Level Meter	Larson Davis	824A2636
Microphone/Preamp	Larson Davis 2541; PRM902	7490; 2618
Calibrator	Larson Davis CAL200	3669

SLM SETTINGS (circle one) FAST SLOWWEIGHTING (circle one) A Lin.Location Description: 40° 28' 41" N 111° 26' 34" W**SITE SKETCH:** Including noise source, receptors, reference distances, North arrow, wind direction arrow, terrain and shielding, roadway profile, and direct lines of sight:**Minimum :** 47.3 dBA**Maximum :** 80.7 dBA**Leq :** 62.8 dBA**Datafile number :** 16

Start Time:	Stop Time:	Duration:
<u>2:15 PM</u>	<u>2:35 PM</u>	<u>20 minutes</u>

Wind Speed/Direction: 8-12 mph NE

Percentiles:

Temperature: 94° FahrenheitHumidity: 14%Calibration results before: 113.9 dBA and after: 113.8 dBATraffic Count Roadway: 2400 South

Direction	Autos	Medium Trucks	Heavy Trucks	Buses	Motorcycles
West	15	0	0	0	0
East	9	0	1	0	0



ML-13a



ML-13b

**SHORT-TERM TRAFFIC NOISE MONITORING LOG SHEET**

Reading: ML-14

Project Description: Heber EISNoise Source: Vehicles Date: 7/14/2022 Personnel: JM

Equipment	Type	Serial #
Sound Level Meter	Larson Davis	824A2636
Microphone/Preamp	Larson Davis 2541; PRM902	7490; 2618
Calibrator	Larson Davis CAL200	3669

SLM SETTINGS (circle one) FAST SLOWWEIGHTING (circle one) A Lin.Location Description: 40° 28' 21" N 111° 26' 41" W**SITE SKETCH:** Including noise source, receptors, reference distances, North arrow, wind direction arrow, terrain and shielding, roadway profile, and direct lines of sight: 15 feet off roadway.**Minimum :** 52.5 dBA**Maximum :** 100.5 dBA**Leq :** 80.1 dBA**Datafile number :** 20

Start Time:	Stop Time:	Duration:
<u>8:51 AM</u>	<u>9:11 AM</u>	<u>20 minutes</u>

Wind Speed/Direction: 1 mph N

Percentiles:

Temperature: 64° FahrenheitHumidity: 73%Calibration results before: 113.9 dBA and after: 113.9 dBATraffic Count Roadway: Highway 189

Direction	Autos	Medium Trucks	Heavy Trucks	Buses	Motorcycles
Northeast	240	7	11	0	1
Southwest	135	12	7	0	0



ML-14a



ML-14b

**SHORT-TERM TRAFFIC NOISE MONITORING LOG SHEET**

Reading: ML-15

Project Description: Heber EISNoise Source: Vehicles Date: 7/14/2022 Personnel: JM & MCP

Equipment	Type	Serial #
Sound Level Meter	Larson Davis	824A2636
Microphone/Preamp	Larson Davis 2541; PRM902	7490; 2618
Calibrator	Larson Davis CAL200	3669

SLM SETTINGS (circle one) FAST SLOWWEIGHTING (circle one) A Lin.Location Description: 40° 28' 15" N 111° 26' 42" W**SITE SKETCH:** Including noise source, receptors, reference distances, North arrow, wind direction arrow, terrain and shielding, roadway profile, and direct lines of sight: Airport nearby.**Minimum :** 41.0 dBA**Maximum :** 78.6 dBA**Leq :** 63.0 dBA**Datafile number :** 19

Start Time:	Stop Time:	Duration:
<u>8:21 AM</u>	<u>8:41 AM</u>	<u>20 minutes</u>

Wind Speed/Direction: 0-2 mph N Percentiles:Temperature: 63° Fahrenheit Humidity: 75%Calibration results before: 113.8 dBA and after: 113.9 dBATraffic Count Roadway: Highway 189 & 3000 South

Direction	Autos	Medium Trucks	Heavy Trucks	Buses	Motorcycles
Northeast (Highway 189)	259	14	12	0	0
Southwest (Highway 189)	145	8	9	1	1
East (3000 South)	13	1	0	0	0
West (3000 South)	16	1	0	0	0



ML-15a



ML-15b

**SHORT-TERM TRAFFIC NOISE MONITORING LOG SHEET**

Reading: ML-16

Project Description: Heber EISNoise Source: Vehicles Date: 7/14/2022 Personnel: JM & MCP

Equipment	Type	Serial #
Sound Level Meter	Larson Davis	824A2636
Microphone/Preamp	Larson Davis 2541; PRM902	7490; 2618
Calibrator	Larson Davis CAL200	3669

SLM SETTINGS (circle one) FAST SLOWWEIGHTING (circle one) A Lin.Location Description: 40° 29' 38" N 111° 25' 50" W

SITE SKETCH: Including noise source, receptors, reference distances, North arrow, wind direction arrow, terrain and shielding, roadway profile, and direct lines of sight: Landowner interaction 15 minutes in. Moved location north off of private property.

Minimum : 33.4 dBA**Maximum :** 64.4 dBA**Leq :** 43.2 dBA**Datafile number :** 21

Start Time: Stop Time: Duration:
9:25 AM 9:45 AM 20 minutes

Wind Speed/Direction: 0-1 mph Percentiles:Temperature: 66° Fahrenheit Humidity: 66%Calibration results before: 113.7 dBA and after: 113.7 dBATraffic Count Roadway: S Field Road & 1060 South

Direction	Autos	Medium Trucks	Heavy Trucks	Buses	Motorcycles
North (S Field Road)	6	0	0	0	0
South (S Field Road)	14	0	0	0	0
East (1060 South)	2	0	0	0	0
West (1060 South)	3	0	0	0	0



ML-16a



ML-16b

**SHORT-TERM TRAFFIC NOISE MONITORING LOG SHEET**

Reading: ML-17

Project Description: Heber EISNoise Source: Vehicles Date: 7/13/2022 Personnel: JM

Equipment	Type	Serial #
Sound Level Meter	Larson Davis	824A2636
Microphone/Preamp	Larson Davis 2541; PRM902	7490; 2618
Calibrator	Larson Davis CAL200	3669

SLM SETTINGS (circle one) FAST SLOWWEIGHTING (circle one) A Lin.Location Description: 40° 29' 30" N 111° 25' 19" W**SITE SKETCH:** Including noise source, receptors, reference distances, North arrow, wind direction arrow, terrain and shielding, roadway profile, and direct lines of sight:**Minimum :** 37.6 dBA**Maximum :** 70.4 dBA**Leq :** 54.0 dBA**Datafile number :** 17

Start Time:	Stop Time:	Duration:
<u>3:11 PM</u>	<u>3:31 PM</u>	<u>20 minutes</u>

Wind Speed/Direction: 4-8 mph S Percentiles:Temperature: 94° Fahrenheit Humidity: 15%Calibration results before: 113.8 dBA and after: 113.8 dBATraffic Count Roadway: Industrial Parkway & 1300 South

Direction	Autos	Medium Trucks	Heavy Trucks	Buses	Motorcycles
North (Industrial Parkway)	12	0	0	0	0
South (Industrial Parkway)	20	0	0	0	0
East (1300 South)	6	0	0	0	0
West (1300 South)	9	0	0	0	0



ML-17a



ML-17b

**SHORT-TERM TRAFFIC NOISE MONITORING LOG SHEET**

Reading: ML-18

Project Description: Heber EISNoise Source: Vehicles Date: 7/14/2022 Personnel: JM

Equipment	Type	Serial #
Sound Level Meter	Larson Davis	824A2636
Microphone/Preamp	Larson Davis 2541; PRM902	7490; 2618
Calibrator	Larson Davis CAL200	3669

SLM SETTINGS (circle one) FAST SLOWWEIGHTING (circle one) A Lin.Location Description: 40° 29' 28" N 111° 24' 52" W

SITE SKETCH: Including noise source, receptors, reference distances, North arrow, wind direction arrow, terrain and shielding, roadway profile, and direct lines of sight: Near Betty's Cafe, 10 minutes into measurement there were fire trucks nearby.

Minimum : 44.6 dBA**Maximum :** 83.2 dBA**Leq :** 62.0 dBA**Datafile number :** 22

Start Time: Stop Time: Duration:
10:03 AM 10:23 AM 20 minutes

Wind Speed/Direction: 0-1 mph Percentiles:Temperature: 67° Fahrenheit Humidity: 65%Calibration results before: 113.9 dBA and after: 113.9 dBATraffic Count Roadway: Daniels Canyons Road

Direction	Autos	Medium Trucks	Heavy Trucks	Buses	Motorcycles
North	31	0	2	0	0
South	3	1	0	0	0



ML-18a



ML-18b

**SHORT-TERM TRAFFIC NOISE MONITORING LOG SHEET**

Reading: ML-19

Project Description: Heber EISNoise Source: Vehicles Date: 7/13/2022 Personnel: JM

Equipment	Type	Serial #
Sound Level Meter	Larson Davis	824A2636
Microphone/Preamp	Larson Davis 2541; PRM902	7490; 2618
Calibrator	Larson Davis CAL200	3669

SLM SETTINGS (circle one) FAST SLOWWEIGHTING (circle one) A Lin.Location Description: 40° 29' 20" N 111° 24' 51" WSITE SKETCH: Including noise source, receptors, reference distances, North arrow, wind direction arrow, terrain and shielding, roadway profile, and direct lines of sight: Near parking lot.**Minimum** : 42.3 dBA**Maximum** : 71.6 dBA**Leq** : 61.2 dBA**Datafile number** : 18

Start Time:	Stop Time:	Duration:
<u>3:42 PM</u>	<u>4:02 PM</u>	<u>20 minutes</u>

Wind Speed/Direction: 4-8 mph E Percentiles:Temperature: 95° Fahrenheit Humidity: 14%Calibration results before: 113.8 dBA and after: 113.8 dBATraffic Count Roadway: Daniels Canyons Road

Direction	Autos	Medium Trucks	Heavy Trucks	Buses	Motorcycles
North	69	3	0	0	0
South	49	4	1	0	1



ML-19a



ML-19b

**SHORT-TERM TRAFFIC NOISE MONITORING LOG SHEET**

Reading: ML-20

Project Description: Heber EISNoise Source: Vehicles Date: 7/14/2022 Personnel: JM & MCP

Equipment	Type	Serial #
Sound Level Meter	Larson Davis	824A2636
Microphone/Preamp	Larson Davis 2541; PRM902	7490; 2618
Calibrator	Larson Davis CAL200	3669

SLM SETTINGS (circle one) FAST SLOWWEIGHTING (circle one) A Lin.Location Description: 40° 29' 26" N 111° 24' 41" W**SITE SKETCH:** Including noise source, receptors, reference distances, North arrow, wind direction arrow, terrain and shielding, roadway profile, and direct lines of sight: Near parking lot.**Minimum :** 44.2 dBA**Maximum :** 78.9 dBA**Leq :** 63.6 dBA**Datafile number :** 23

Start Time:	Stop Time:	Duration:
<u>10:35 AM</u>	<u>10:55 AM</u>	<u>20 minutes</u>

Wind Speed/Direction: 0-2 mph NE

Percentiles:

Temperature: 72° FahrenheitHumidity: 50%Calibration results before: 113.9 dBA and after: 113.8 dBATraffic Count Roadway: Main Street

Direction	Autos	Medium Trucks	Heavy Trucks	Buses	Motorcycles
North	149	7	15	0	3
South	0	0	0	0	0



ML-20a



ML-20b

**SHORT-TERM TRAFFIC NOISE MONITORING LOG SHEET**

Reading: ML-21

Project Description: Heber EISNoise Source: Vehicles Date: 7/7/2022 Personnel: JM & MCP

Equipment	Type	Serial #
Sound Level Meter	Larson Davis	824A2636
Microphone/Preamp	Larson Davis 2541; PRM902	7490; 2618
Calibrator	Larson Davis CAL200	3669

SLM SETTINGS (circle one) FAST SLOWWEIGHTING (circle one) A Lin.Location Description: 40° 33' 9" N 111° 25' 9" W**SITE SKETCH:** Including noise source, receptors, reference distances, North arrow, wind direction arrow, terrain and shielding, roadway profile, and direct lines of sight:**Minimum :** 41.1 dBA**Maximum :** 66.5 dBA**Leq :** 50.8 dBA**Datafile number :** 5

Start Time:	Stop Time:	Duration:
<u>3:03 PM</u>	<u>3:23 PM</u>	<u>20 minutes</u>

Wind Speed/Direction: 4-8 mph NE Percentiles:Temperature: 91° Fahrenheit Humidity: 15%Calibration results before: 113.9 dBA and after: 113.8 dBATraffic Count Roadway: Highway 40 & Moulton Lane

Direction	Autos	Medium Trucks	Heavy Trucks	Buses	Motorcycles
North (Highway 40)	275	15	14	0	0
South (Highway 40)	332	14	14	0	0
East (Moulton Lane)	0	0	0	0	0
West (Moulton Lane)	2	0	0	0	0



ML-21a



ML-21b

**SHORT-TERM TRAFFIC NOISE MONITORING LOG SHEET**

Reading: ML-22

Project Description: Heber EISNoise Source: Vehicles Date: 7/7/2022 Personnel: JM & MCP

Equipment	Type	Serial #
Sound Level Meter	Larson Davis	824A2636
Microphone/Preamp	Larson Davis 2541; PRM902	7490; 2618
Calibrator	Larson Davis CAL200	3669

SLM SETTINGS (circle one) FAST SLOWWEIGHTING (circle one) A Lin.Location Description: 40° 32' 26" N 111° 24' 46" W**SITE SKETCH:** Including noise source, receptors, reference distances, North arrow, wind direction arrow, terrain and shielding, roadway profile, and direct lines of sight:**Minimum :** 48.3 dBA**Maximum :** 83.0 dBA**Leq :** 60.5 dBA**Datafile number :** 4

Start Time:	Stop Time:	Duration:
<u>2:18 PM</u>	<u>2:38 PM</u>	<u>20 minutes</u>

Wind Speed/Direction: 8-11 mph N Percentiles:Temperature: 91° Fahrenheit Humidity: 15%Calibration results before: 113.9 dBA and after: 113.8 dBATraffic Count Roadway: Highway 40

Direction	Autos	Medium Trucks	Heavy Trucks	Buses	Motorcycles
North (Highway 40)	344	19	21	0	2
South (Highway 40)	351	10	23	0	3



ML-22a



ML-22b

**SHORT-TERM TRAFFIC NOISE MONITORING LOG SHEET**

Reading: ML-23

Project Description: Heber EISNoise Source: Vehicles Date: 7/14/2022 Personnel: JM & MCP

Equipment	Type	Serial #
Sound Level Meter	Larson Davis	824A2636
Microphone/Preamp	Larson Davis 2541; PRM902	7490; 2618
Calibrator	Larson Davis CAL200	3669

SLM SETTINGS (circle one) FAST SLOWWEIGHTING (circle one) A Lin.Location Description: 40° 31' 18" N 111° 24' 38" W**SITE SKETCH:** Including noise source, receptors, reference distances, North arrow, wind direction arrow, terrain and shielding, roadway profile, and direct lines of sight: 30-40 feet off road.**Minimum :** 58.5 dBA**Maximum :** 88.5 dBA**Leq :** 77.3 dBA**Datafile number :** 26

Start Time:	Stop Time:	Duration:
<u>3:33 PM</u>	<u>3:53 PM</u>	<u>20 minutes</u>

Wind Speed/Direction: 8-12 mph NE Percentiles:Temperature: 90° Fahrenheit Humidity: 19%Calibration results before: 113.8 dBA and after: 113.8 dBATraffic Count Roadway: Highway 40

Direction	Autos	Medium Trucks	Heavy Trucks	Buses	Motorcycles
North	380	7	22	0	4
South	349	15	17	1	3



ML-23a



ML-23b

**SHORT-TERM TRAFFIC NOISE MONITORING LOG SHEET**

Reading: ML-24

Project Description: Heber EISNoise Source: Vehicles Date: 7/14/2022 Personnel: JM & MCP

Equipment	Type	Serial #
Sound Level Meter	Larson Davis	824A2636
Microphone/Preamp	Larson Davis 2541; PRM902	7490; 2618
Calibrator	Larson Davis CAL200	3669

SLM SETTINGS (circle one) FAST SLOWWEIGHTING (circle one) A Lin.Location Description: 40° 30' 60" N 111° 24' 52" W**SITE SKETCH:** Including noise source, receptors, reference distances, North arrow, wind direction arrow, terrain and shielding, roadway profile, and direct lines of sight: 30-40 feet off road.**Minimum :** 42.6 dBA**Maximum :** 67.6 dBA**Leq :** 50.1 dBA**Datafile number :** 25

Start Time:	Stop Time:	Duration:
<u>3:01 PM</u>	<u>3:21 PM</u>	<u>20 minutes</u>

Wind Speed/Direction: 4-8 mph NE

Percentiles:

Temperature: 90° FahrenheitHumidity: 19%Calibration results before: 114.0 dBA and after: 113.8 dBATraffic Count Roadway: 750 North

Direction	Autos	Medium Trucks	Heavy Trucks	Buses	Motorcycles
West	5	0	0	0	0
East	6	0	0	0	0



ML-24a



ML-24b



EXISTING NOISE LEVELS

- Noise Study Area Alt A
- Noise Study Area Alt B

- Noise Receptor with value above NAC
- Noise Receptor with value below NAC





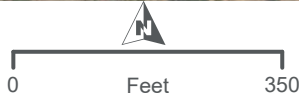
EXISTING NOISE LEVELS

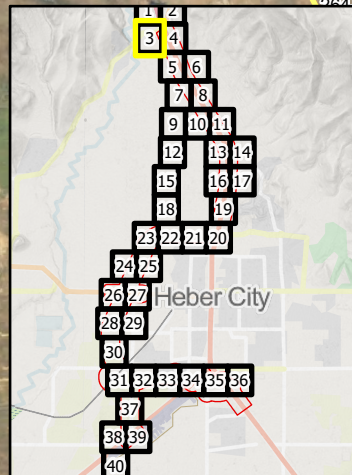
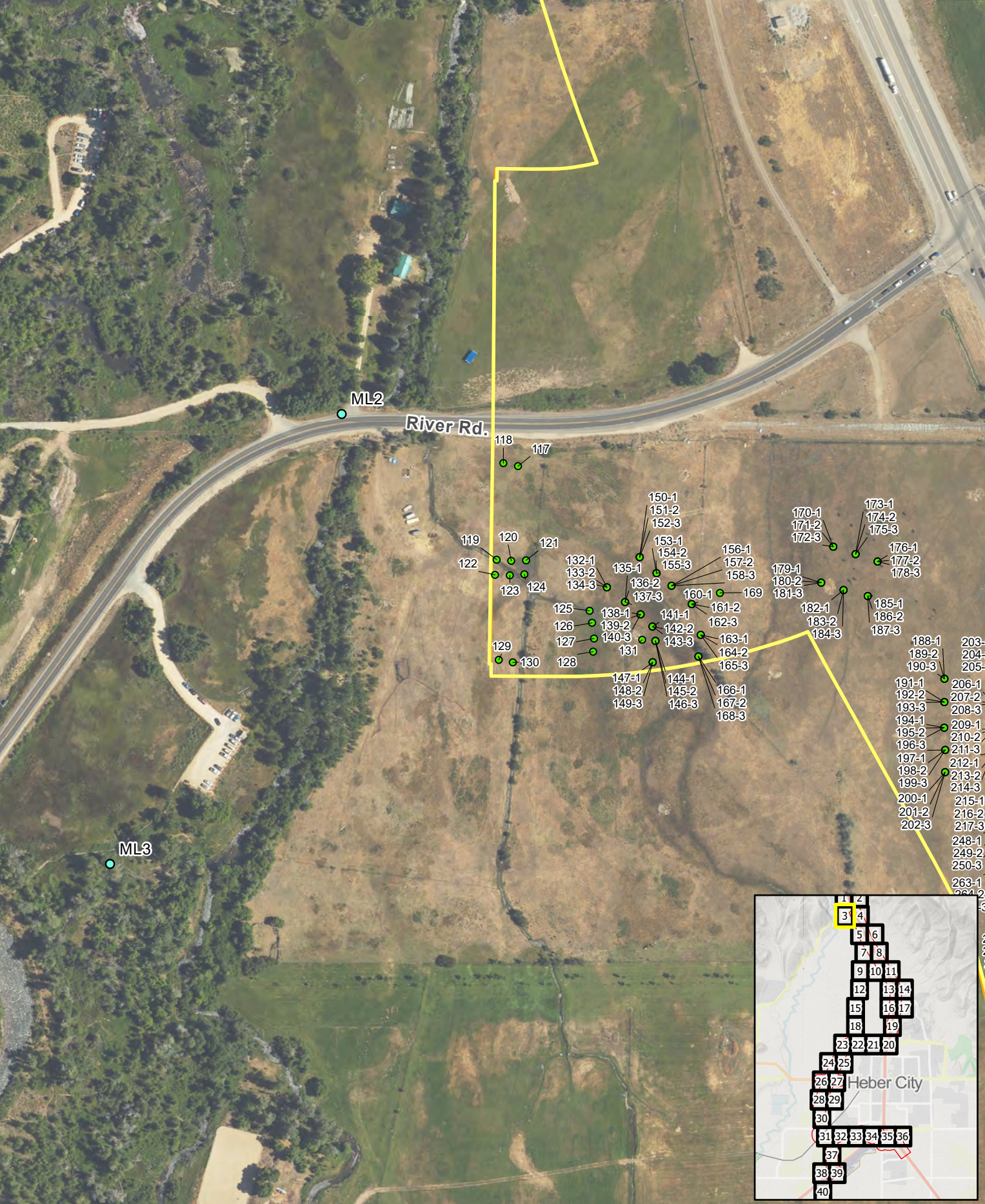
 Noise Study Area Alt A

 Noise Study Area Alt B

● Noise Receptor with value above NAC

● Noise Receptor with value below NAC





EXISTING NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Monitoring Location

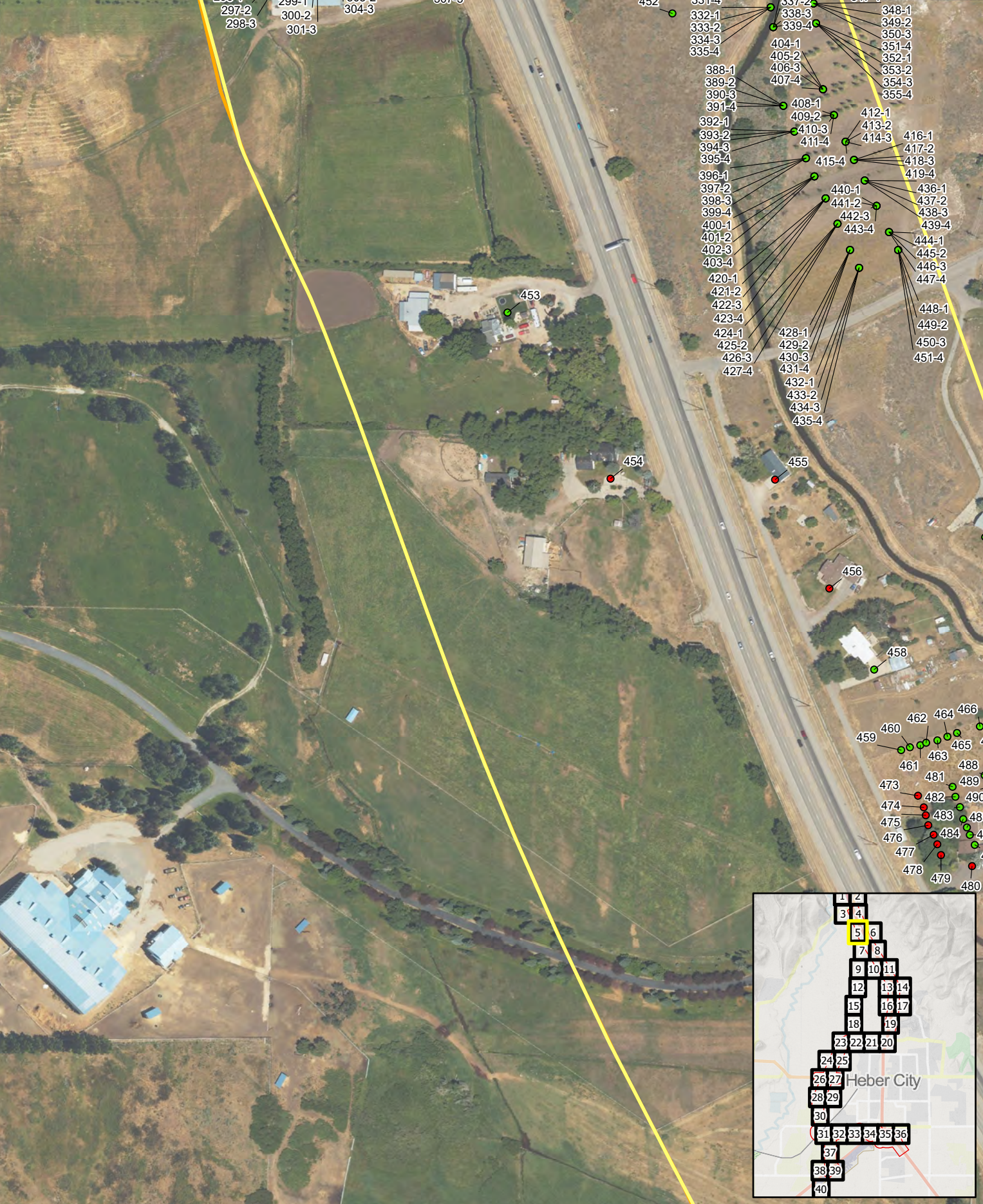
Noise Study Area Alt A

Noise Study Area Alt B

Noise Receptor with value above NAC

Noise Receptor with value below NAC





EXISTING NOISE LEVELS

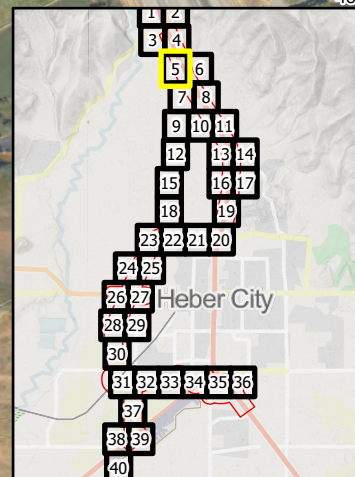
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ENVIRONMENTAL
IMPACT STATEMENT

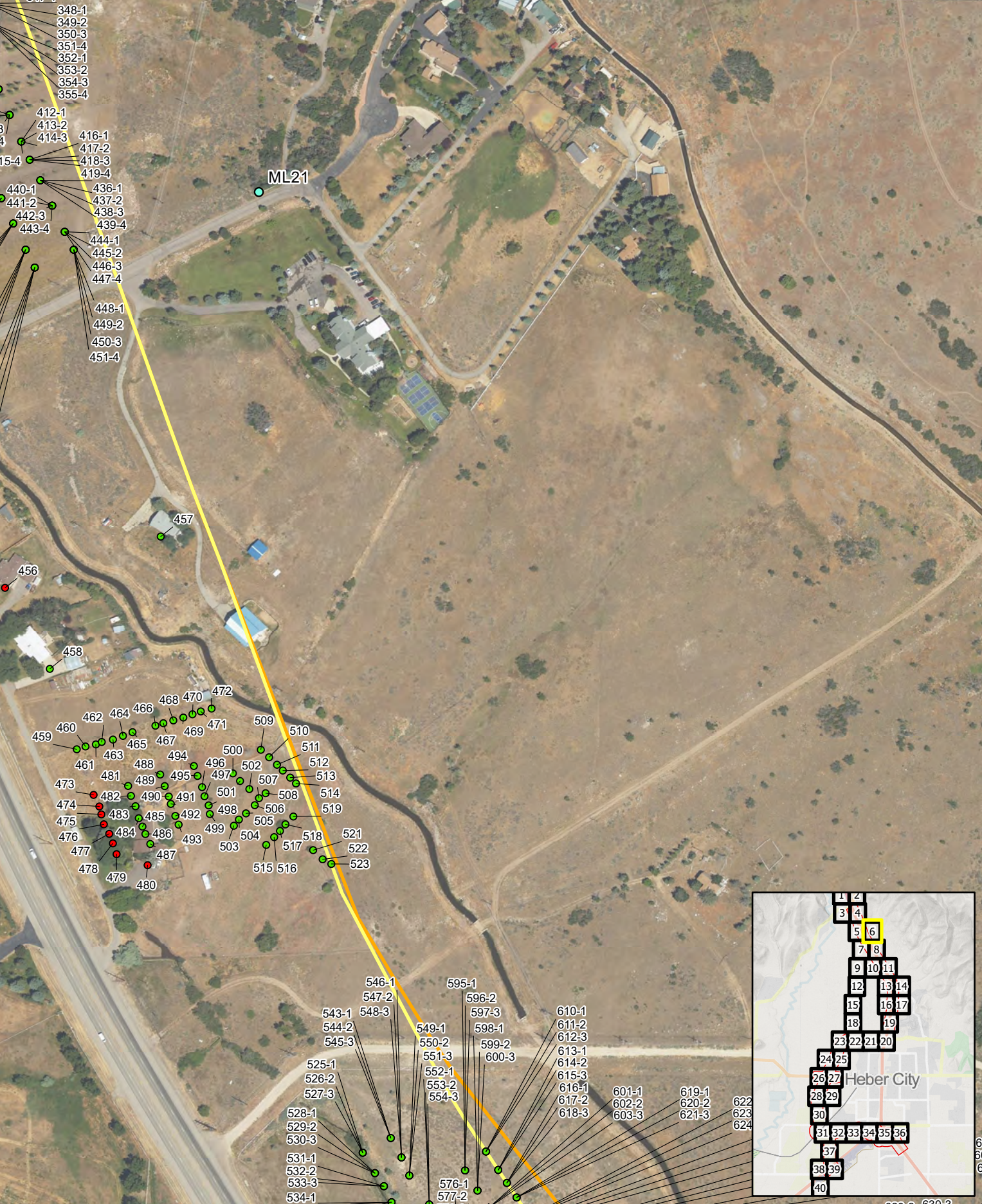
 Noise Study Area Alt A

 Noise Study Area Alt B

 Noise Receptor with value above NAC

 Noise Receptor with value below NAC





EXISTING NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

● Monitoring Location

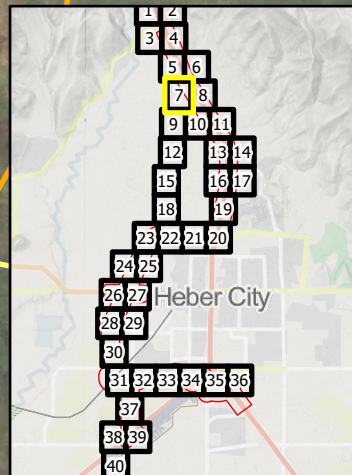
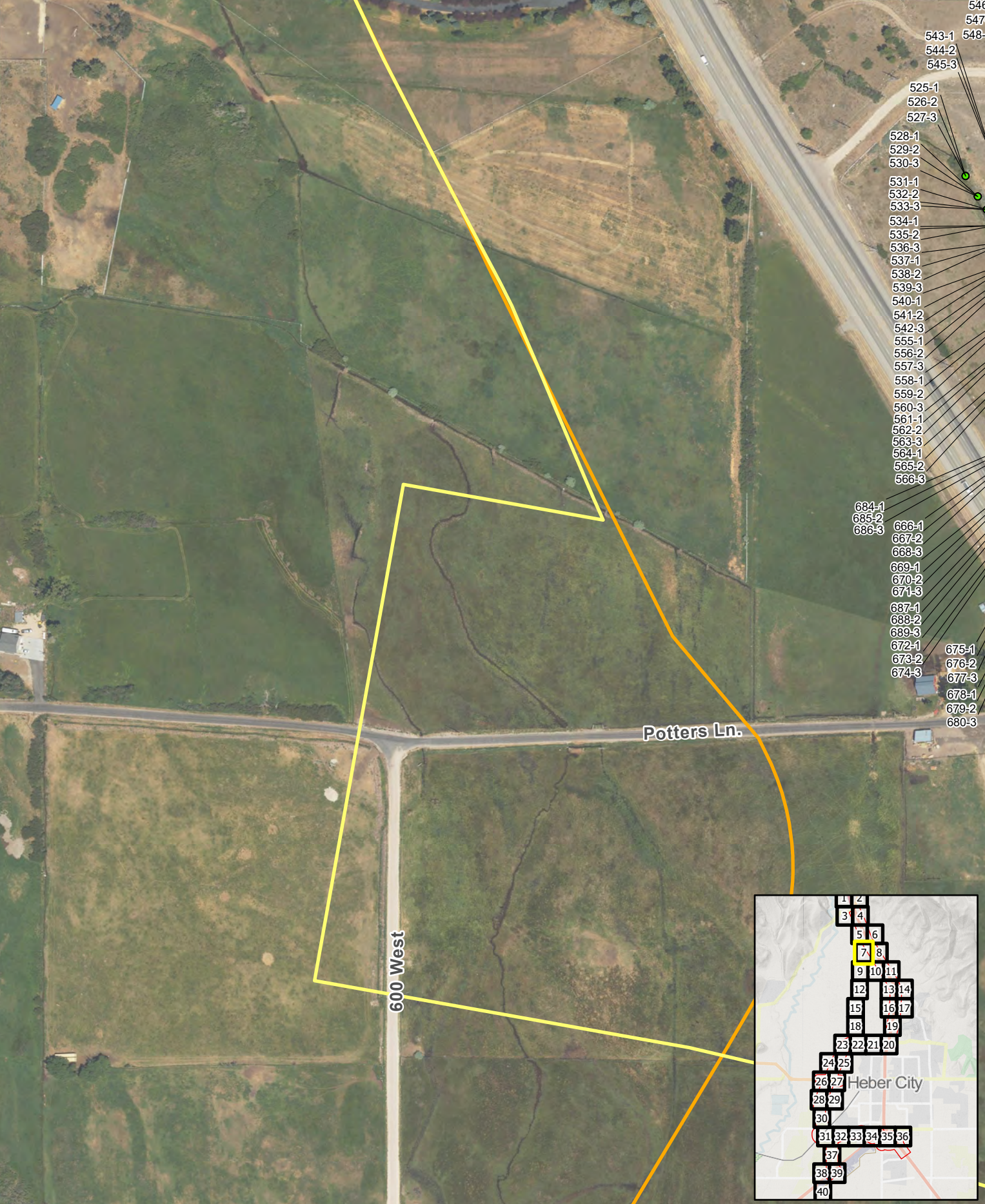
■ Noise Study Area Alt A

■ Noise Study Area Alt B

● Noise Receptor with value above NAC

● Noise Receptor with value below NAC



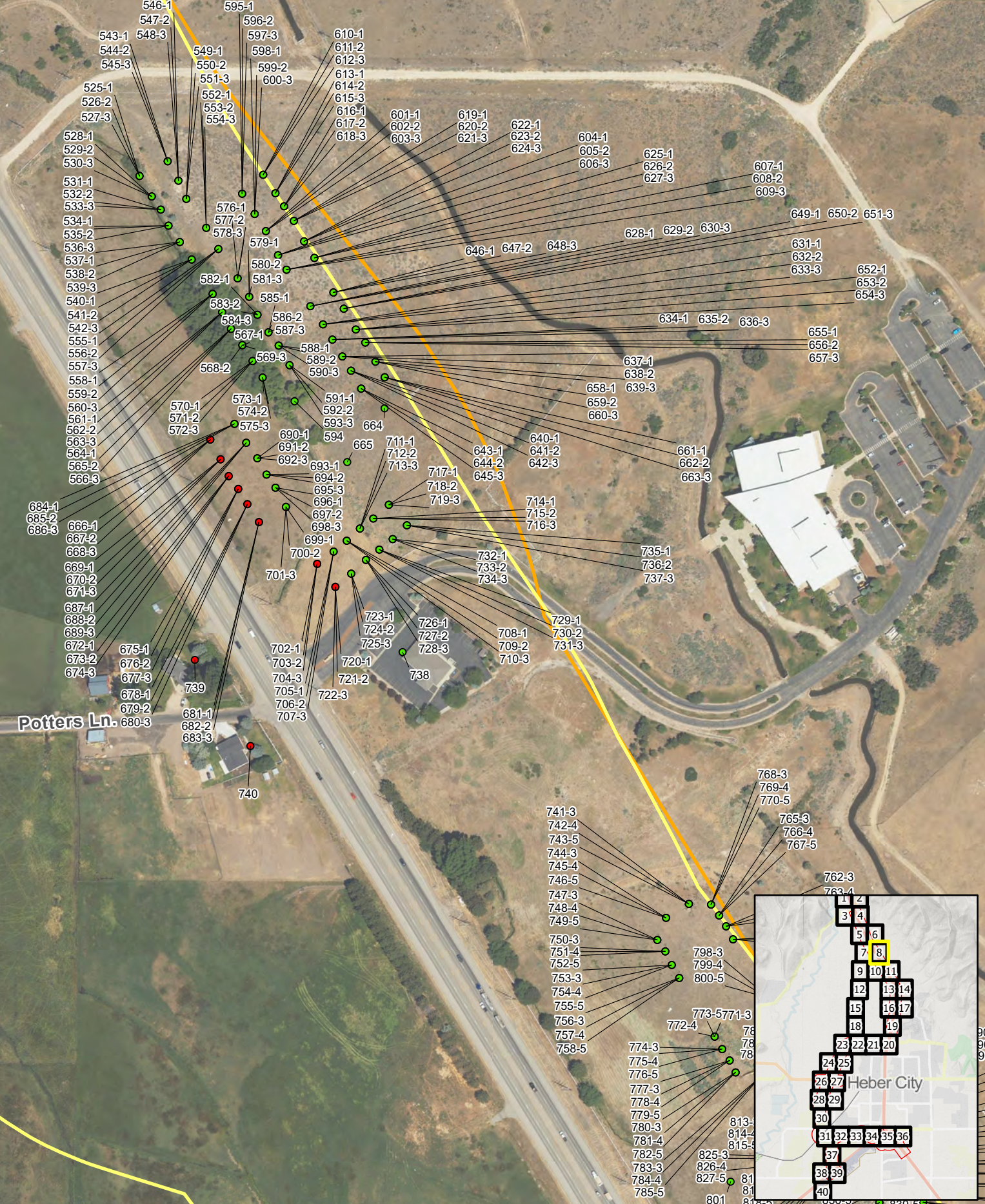


EXISTING NOISE LEVELS

- Noise Study Area Alt A
- Noise Study Area Alt B

- Noise Receptor with value above NAC
- Noise Receptor with value below NAC

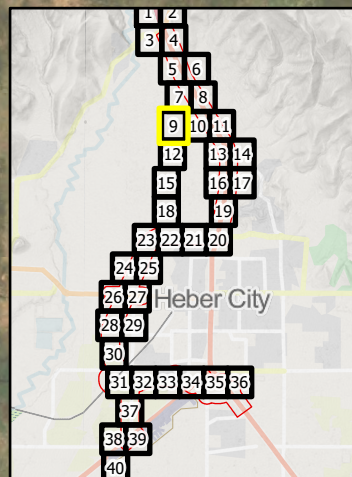




EXISTING NOISE LEVELS

- Noise Study Area Alt A
- Noise Study Area Alt B

- Noise Receptor with value above NAC
- Noise Receptor with value below NAC

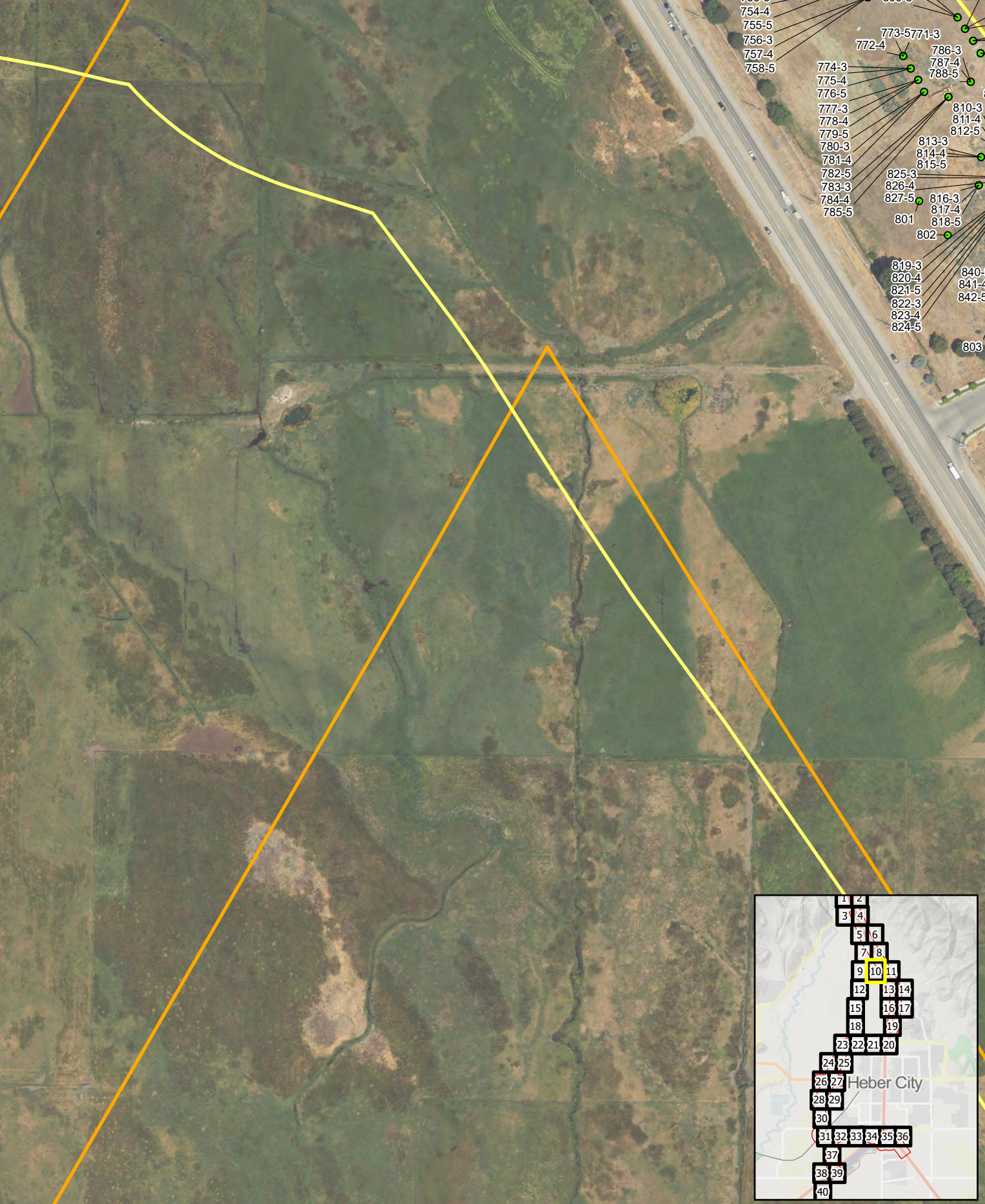


EXISTING NOISE LEVELS

- Noise Study Area Alt A
- Noise Study Area Alt B

- Noise Receptor with value above NAC
- Noise Receptor with value below NAC

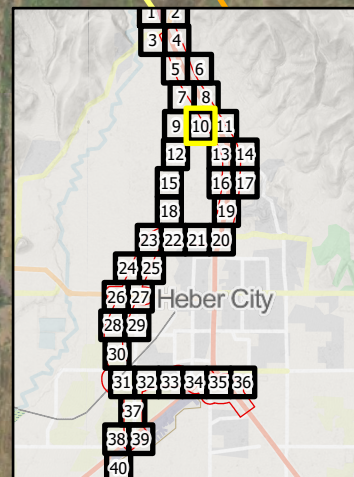


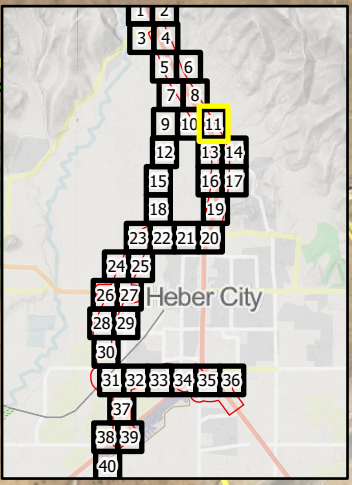


EXISTING NOISE LEVELS

-  Noise Study Area Alt A
-  Noise Study Area Alt B

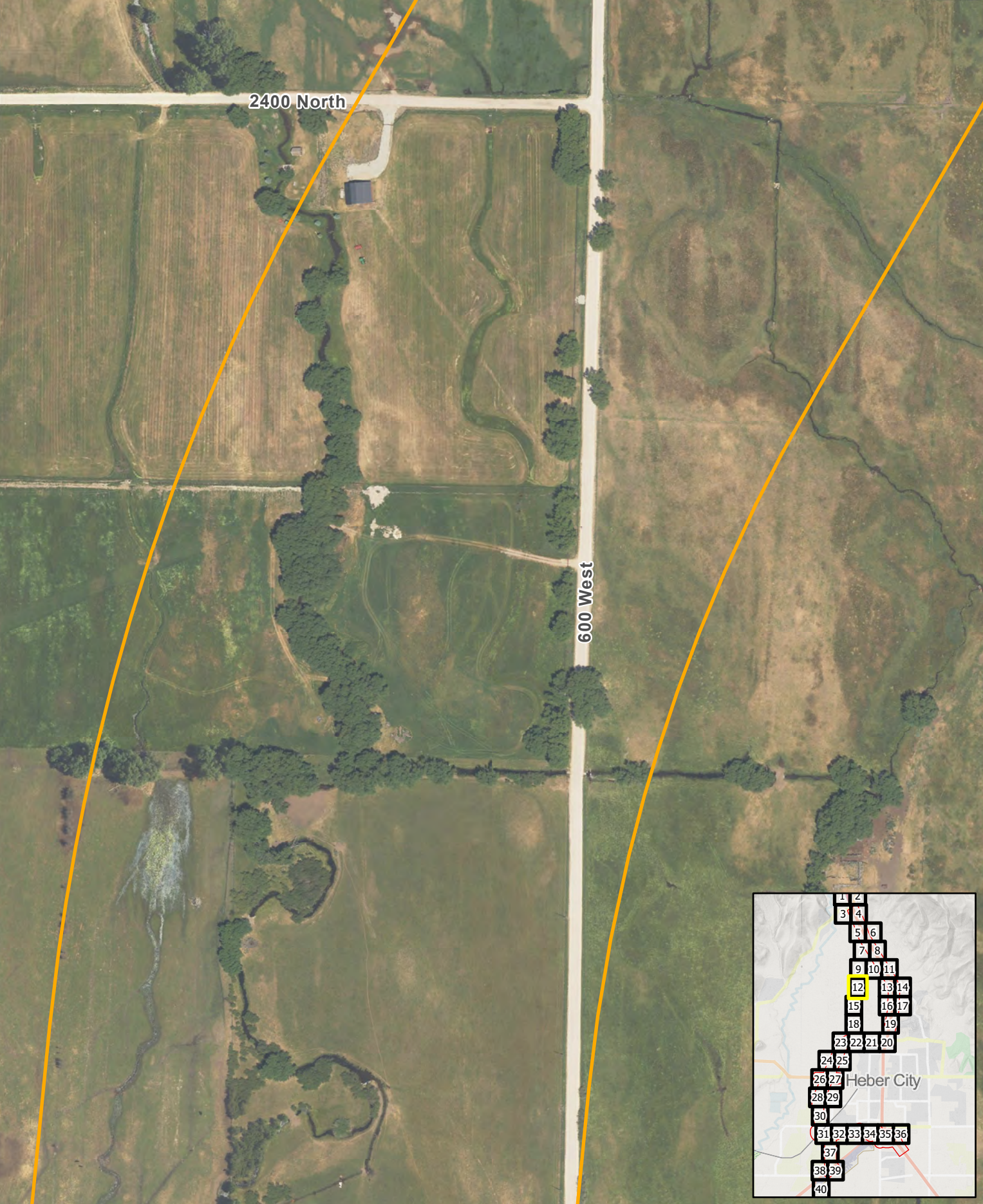
-  Noise Receptor with value above NAC
-  Noise Receptor with value below NAC





Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

-



EXISTING NOISE LEVELS



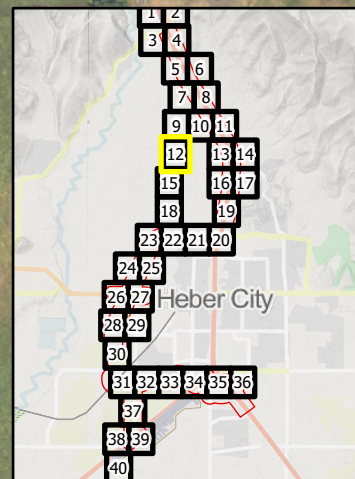
Noise Study Area Alt B

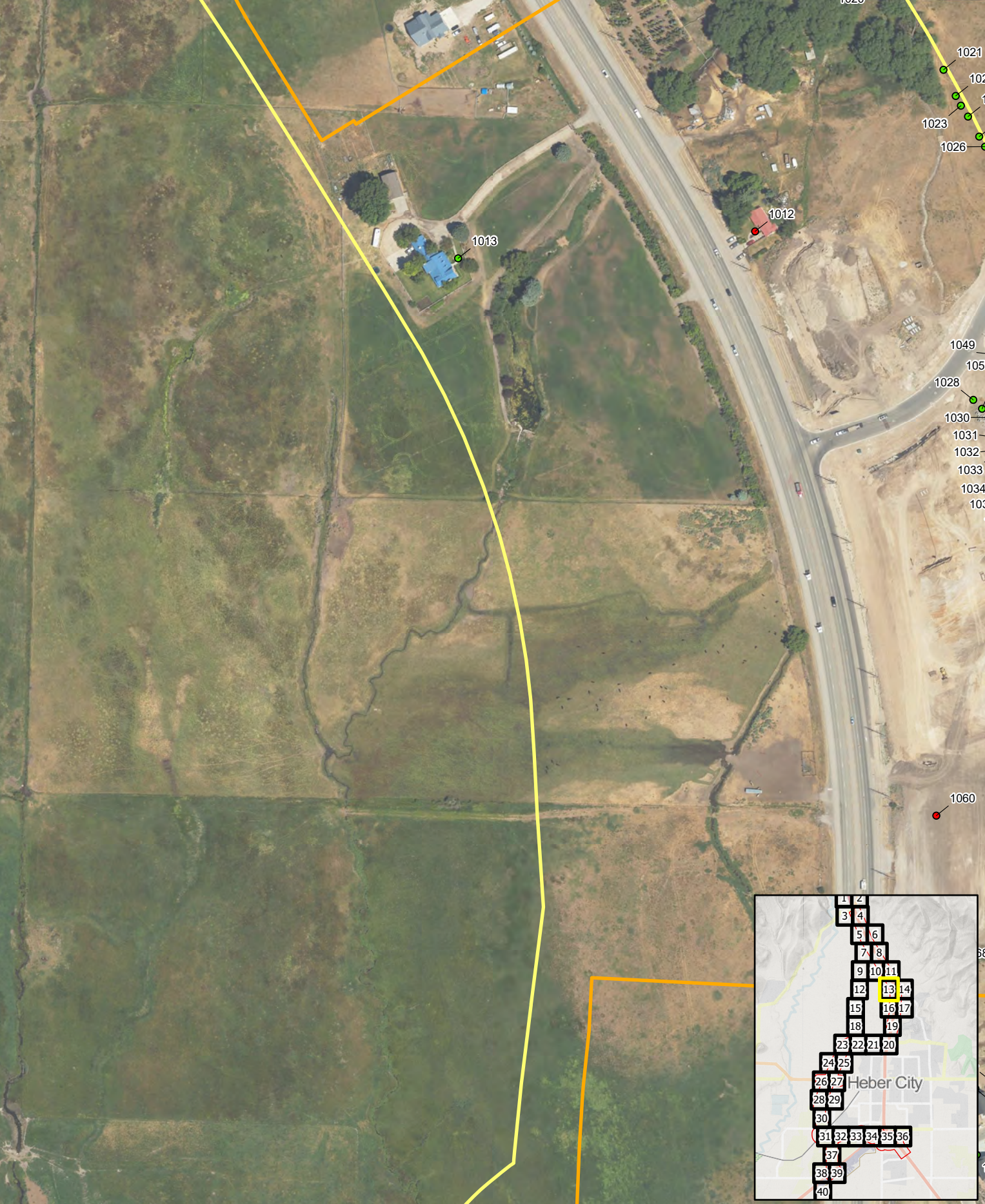


Noise Receptor with value above NAC



Noise Receptor with value below NAC



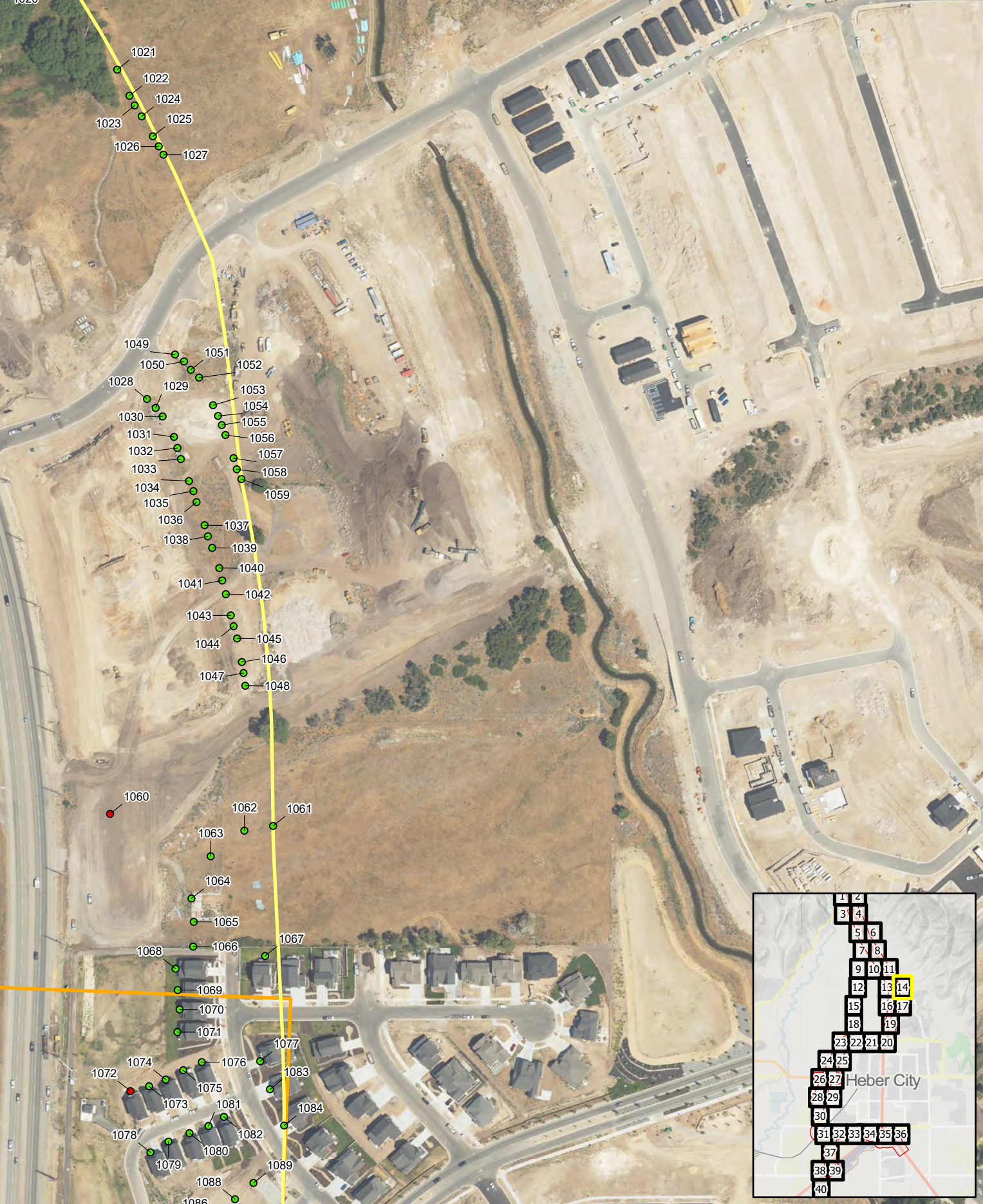


EXISTING NOISE LEVELS

-  Noise Study Area Alt A
-  Noise Study Area Alt B

-  Noise Receptor with value above NAC
-  Noise Receptor with value below NAC





EXISTING NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

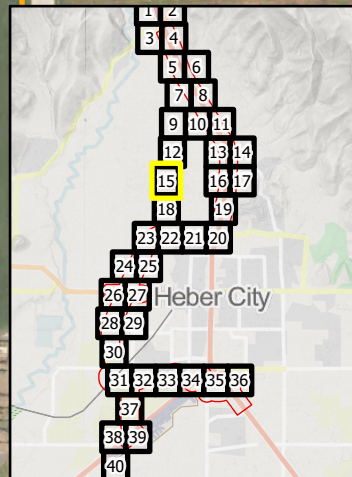
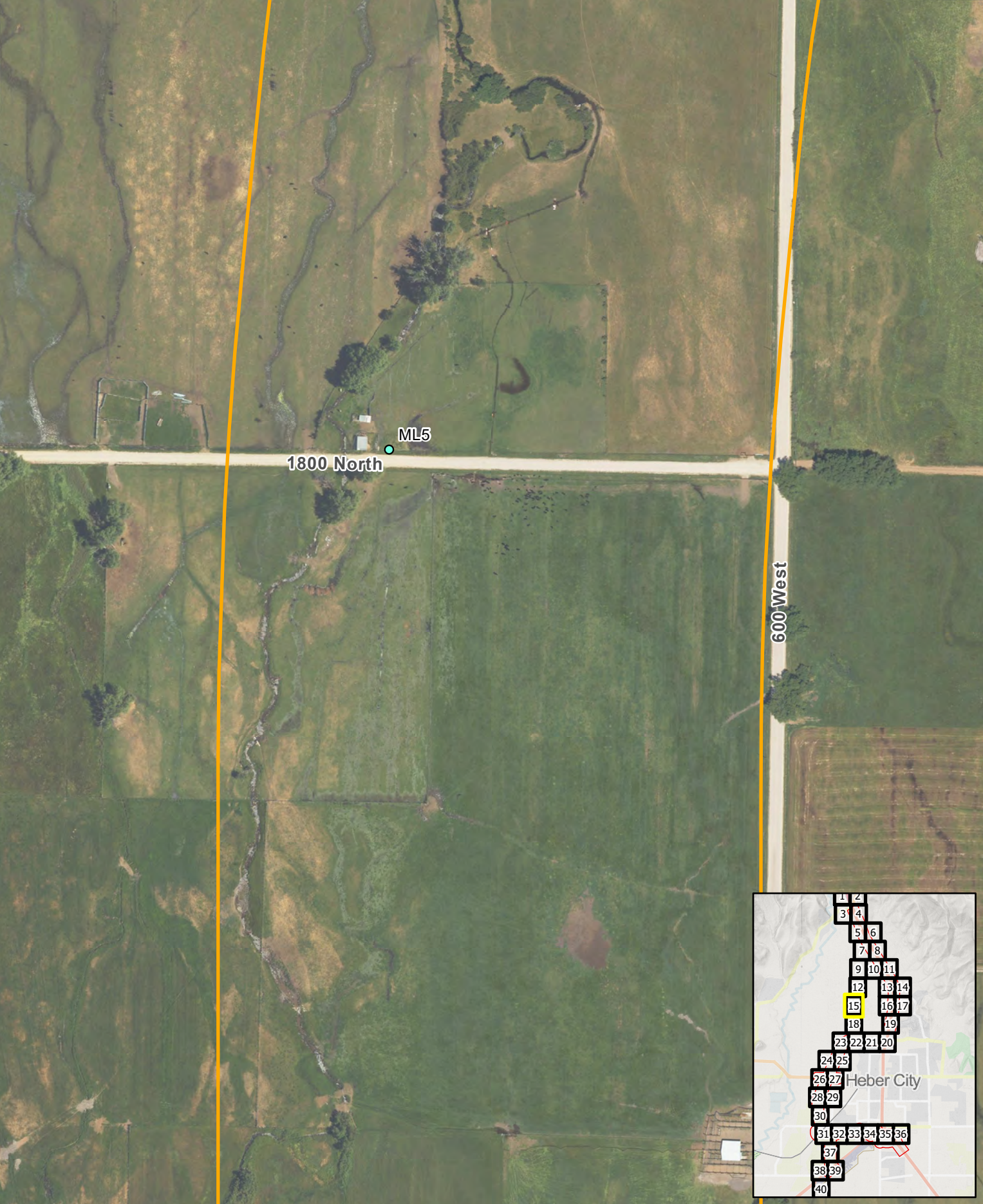
 Noise Study Area Alt A

 Noise Study Area Alt B

 Noise Receptor with value above NAC

 Noise Receptor with value below NAC

0 Feet 350



EXISTING NOISE LEVELS

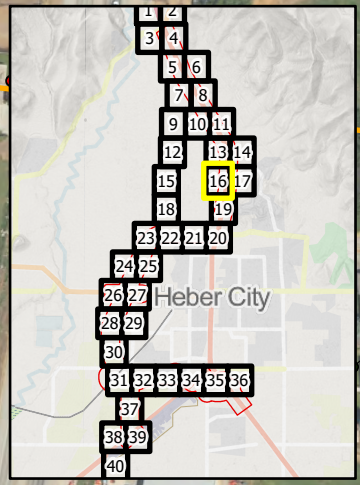
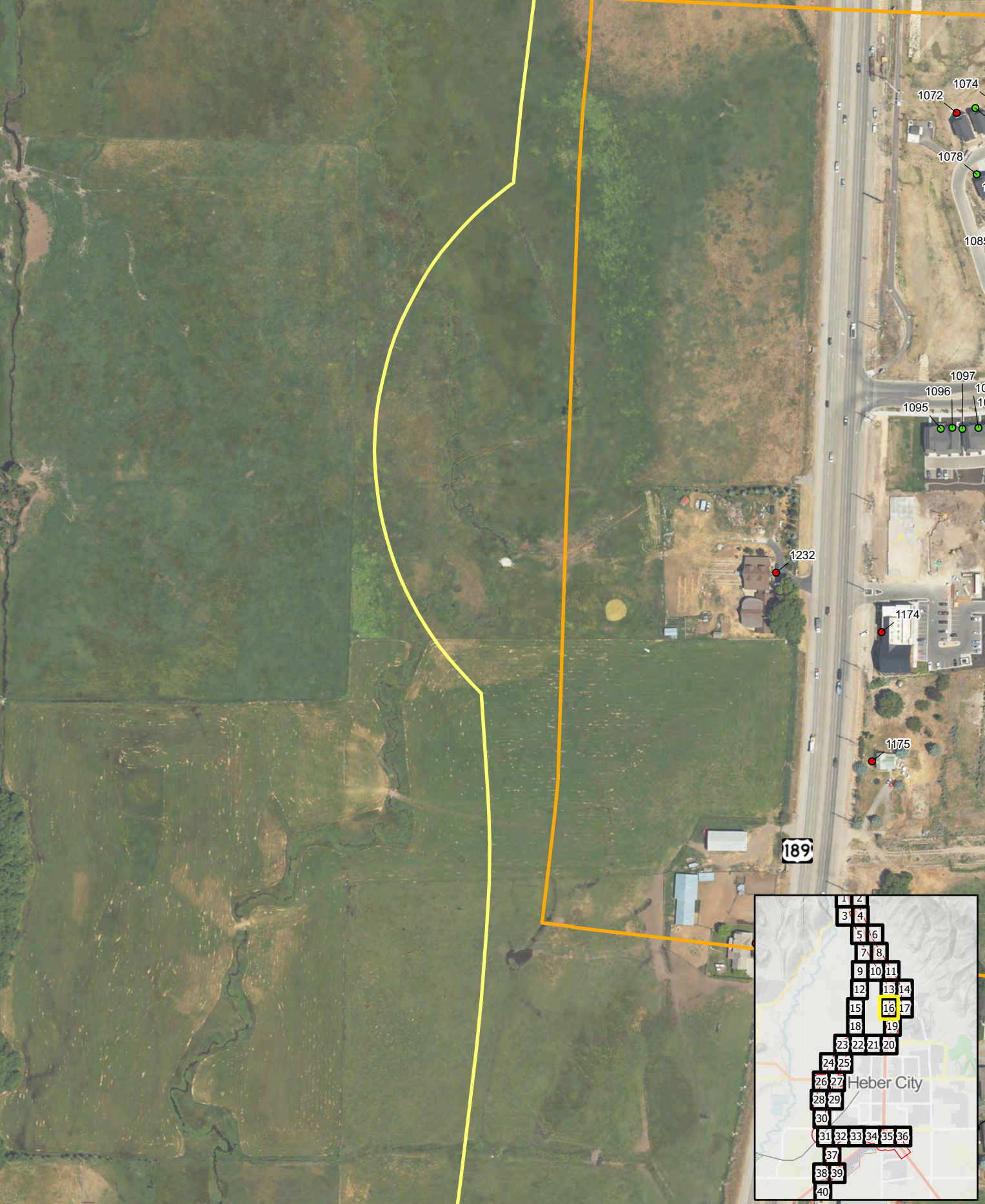
● Monitoring Location

■ Noise Study Area Alt B

● Noise Receptor with value above NAC

● Noise Receptor with value below NAC



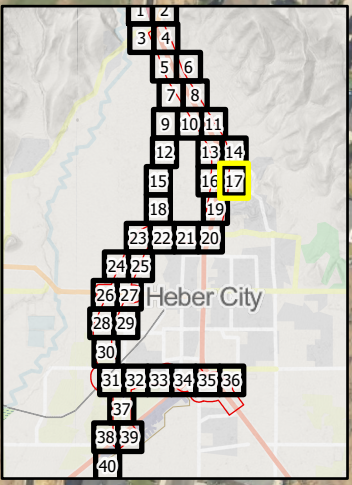
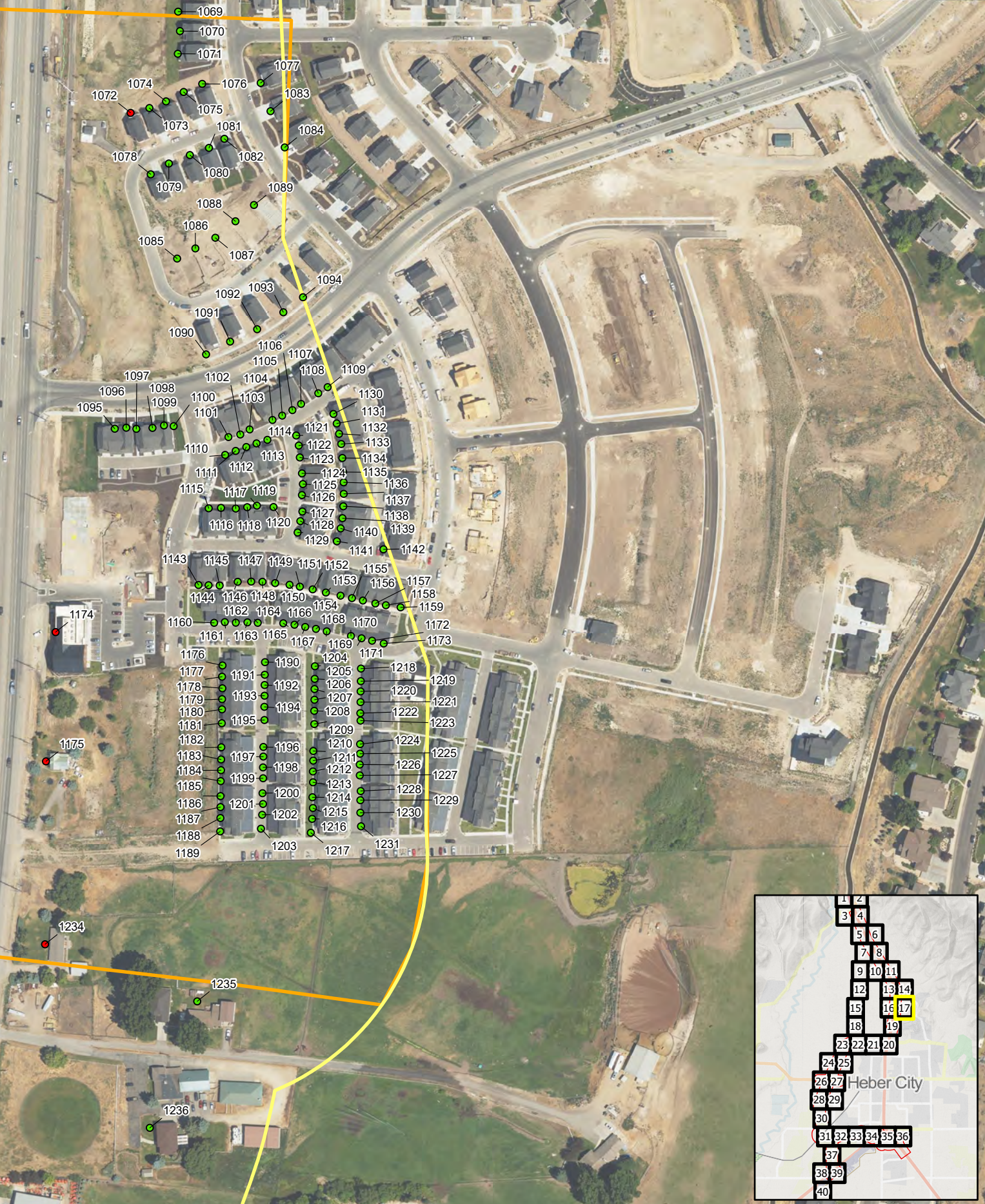


EXISTING NOISE LEVELS

-  Noise Study Area Alt A
-  Noise Study Area Alt B

-  Noise Receptor with value above NAC
-  Noise Receptor with value below NAC





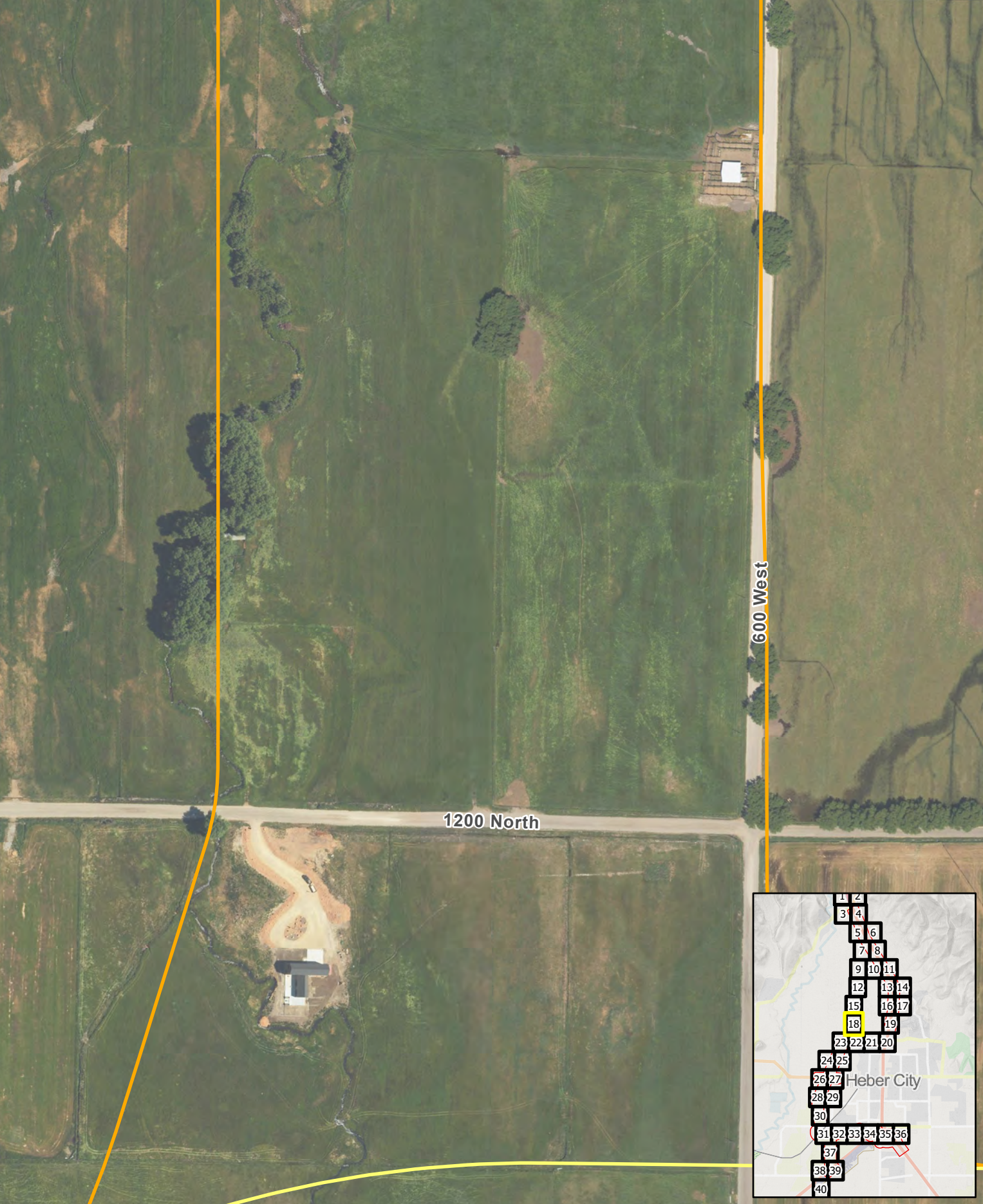
EXISTING NOISE LEVELS



- Noise Study Area Alt A
- Noise Study Area Alt B

- Noise Receptor with value above NAC
- Noise Receptor with value below NAC





EXISTING NOISE LEVELS

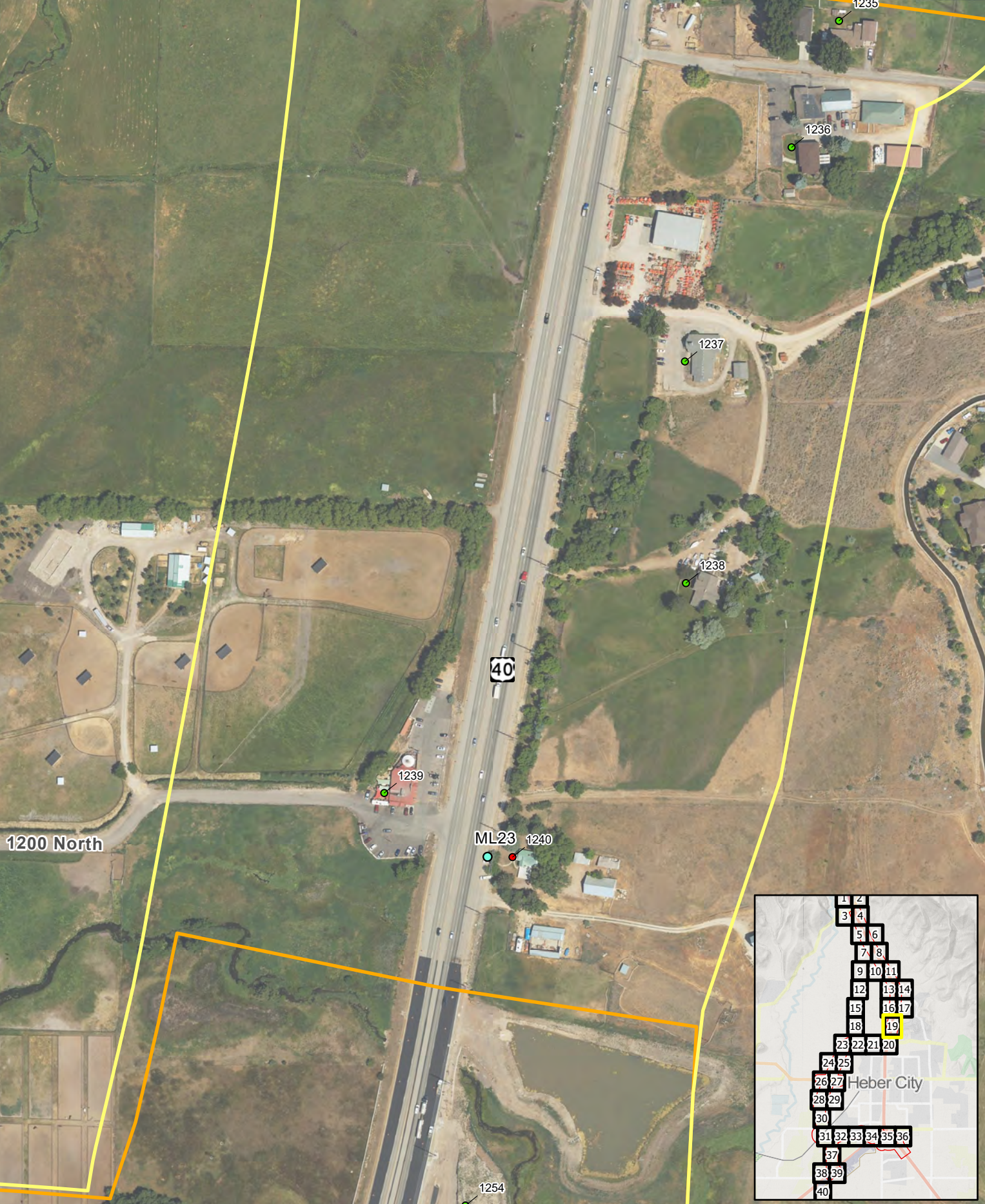
 Noise Study Area Alt A

 Noise Study Area Alt B

 Noise Receptor with value above NAC

 Noise Receptor with value below NAC





EXISTING NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

● Monitoring Location

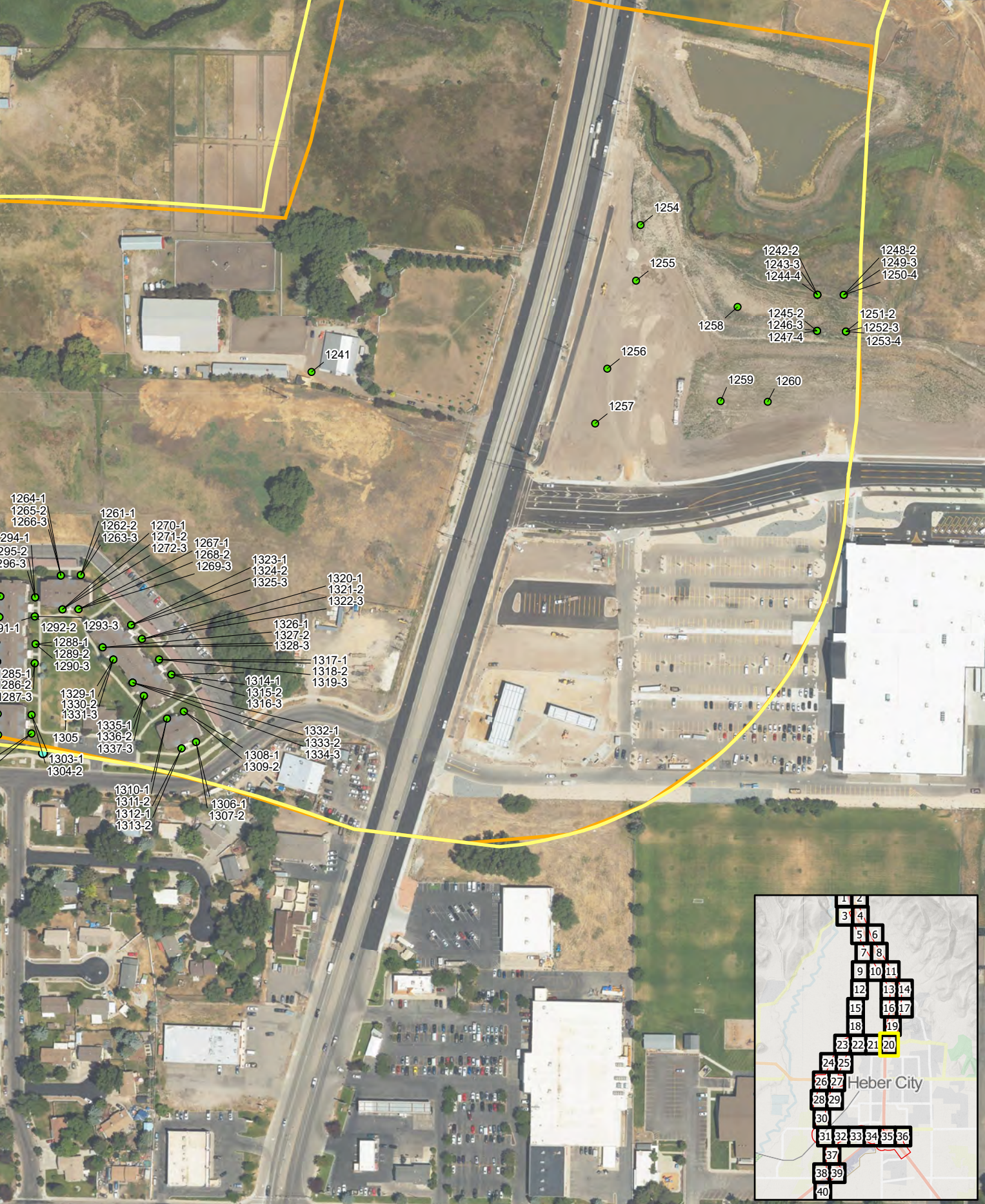
■ Noise Study Area Alt A

■ Noise Study Area Alt B

● Noise Receptor with value above NAC

● Noise Receptor with value below NAC





EXISTING NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

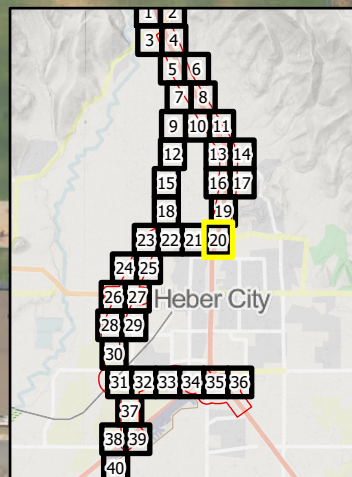
● Monitoring Location

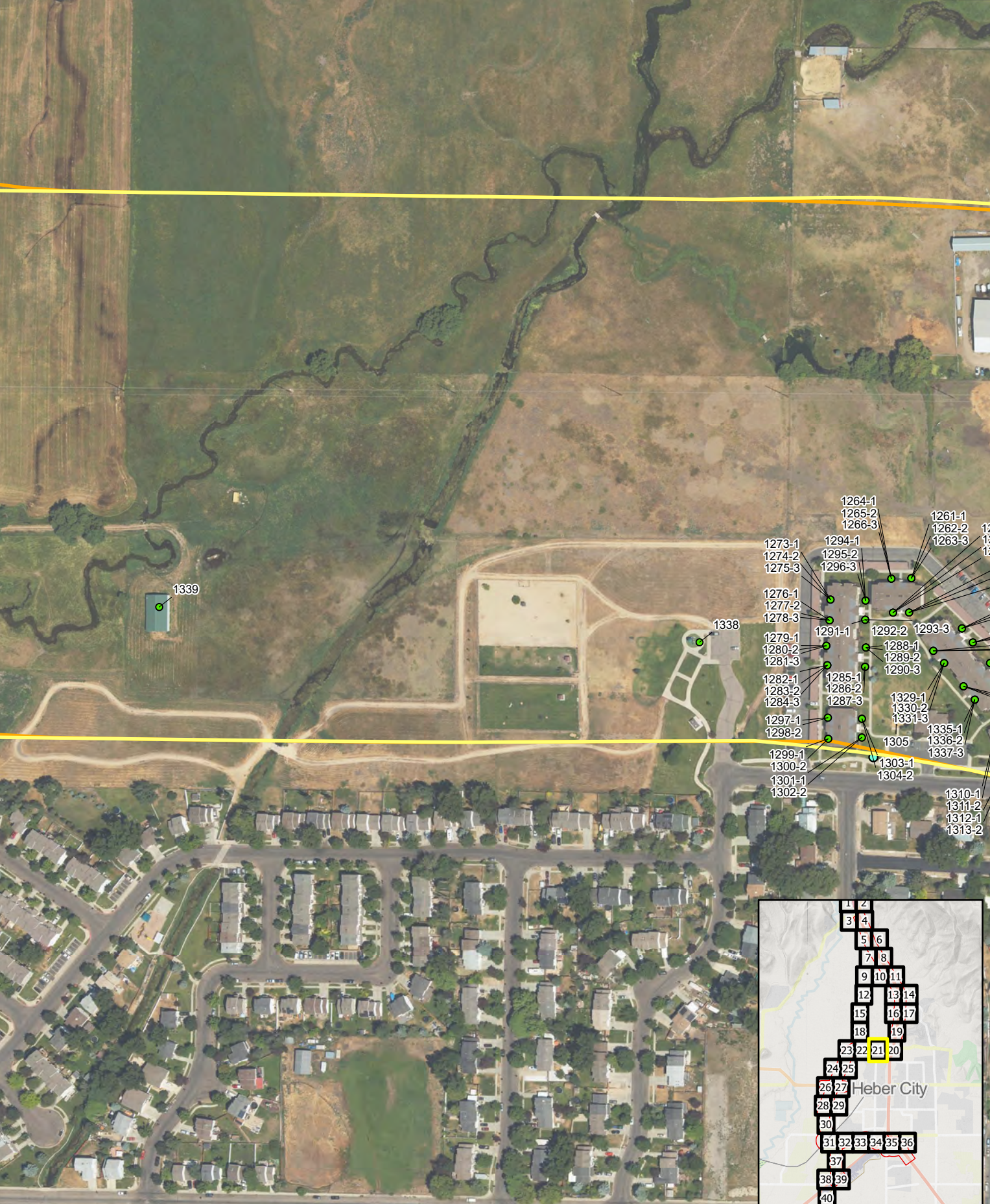
■ Noise Study Area Alt A

■ Noise Study Area Alt B

● Noise Receptor with value above NAC

● Noise Receptor with value below NAC





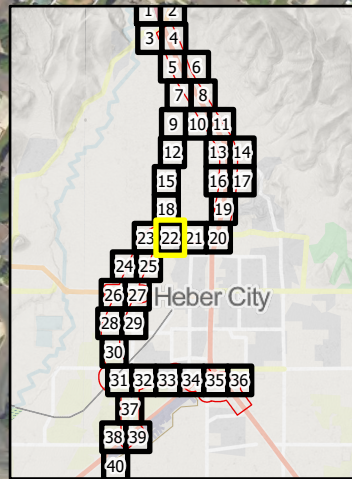
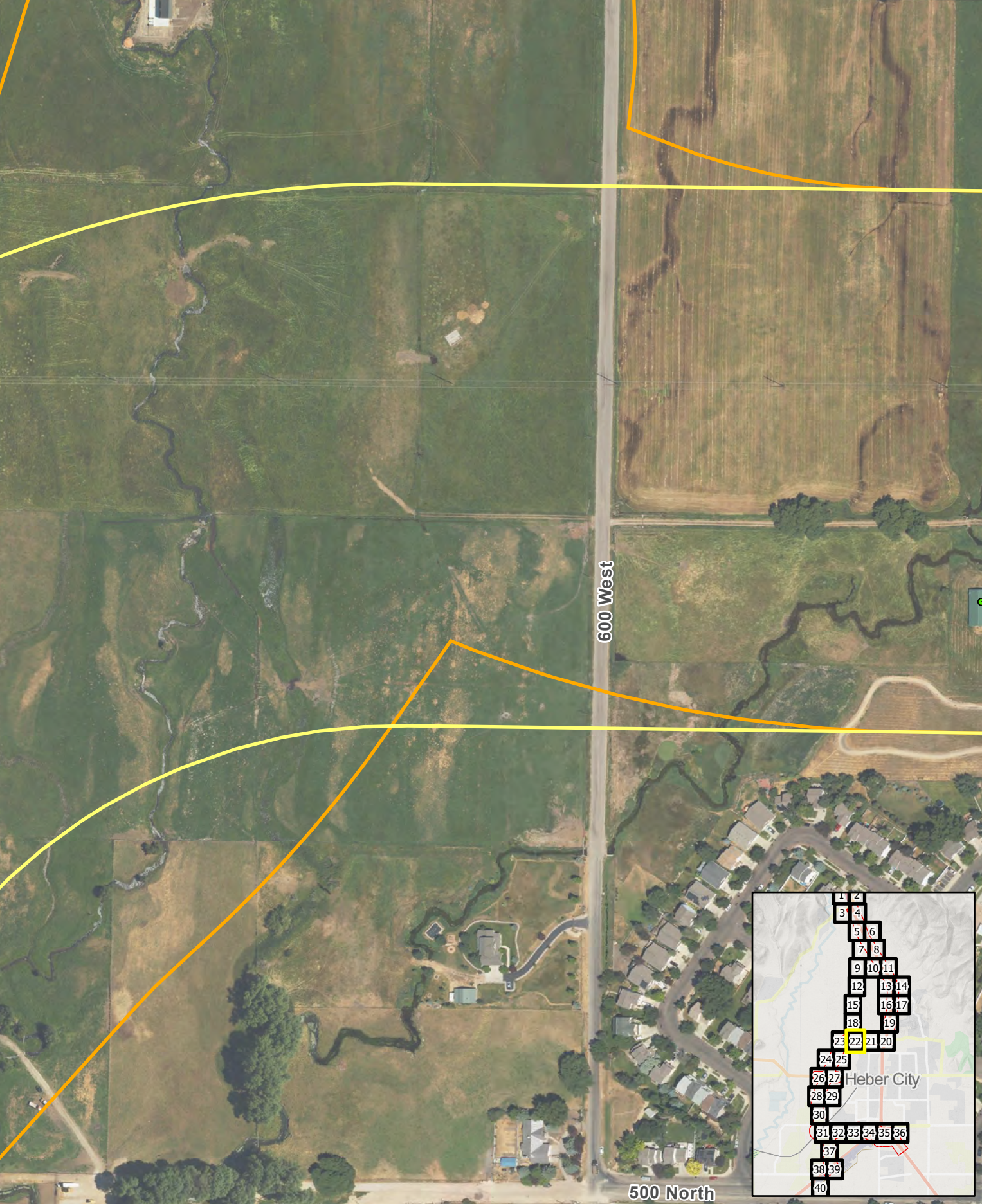
EXISTING NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

- Monitoring Location
- Noise Study Area Alt A
- Noise Study Area Alt B

- Noise Receptor with value above NAC
- Noise Receptor with value below NAC



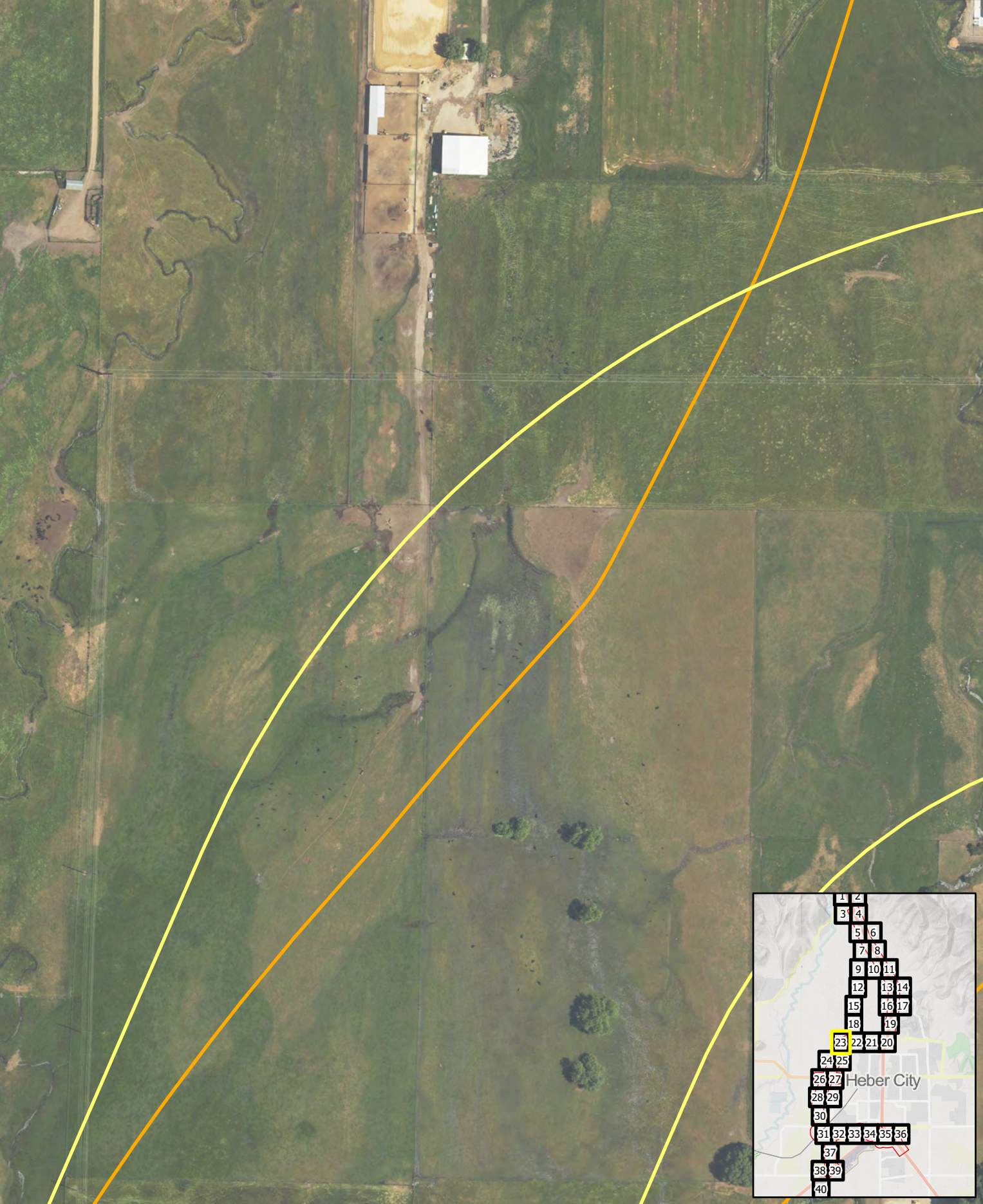


EXISTING NOISE LEVELS

- Noise Study Area Alt A
- Noise Study Area Alt B

- Noise Receptor with value above NAC
- Noise Receptor with value below NAC

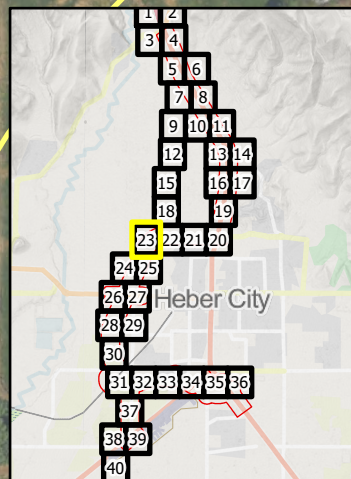


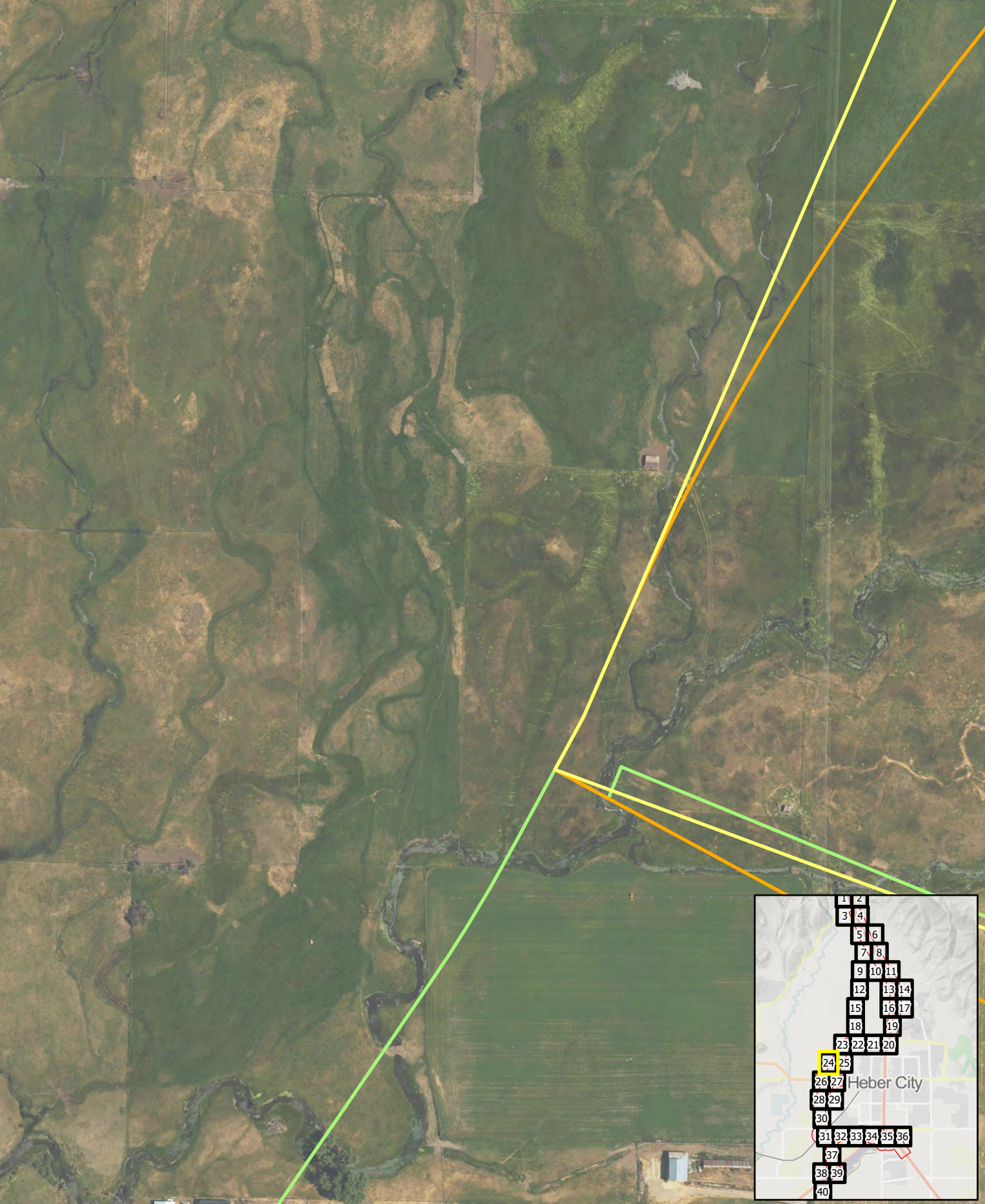


EXISTING NOISE LEVELS

- Noise Study Area Alt A
- Noise Study Area Alt B

- Noise Receptor with value above NAC
- Noise Receptor with value below NAC

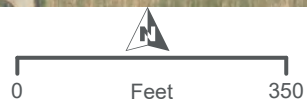


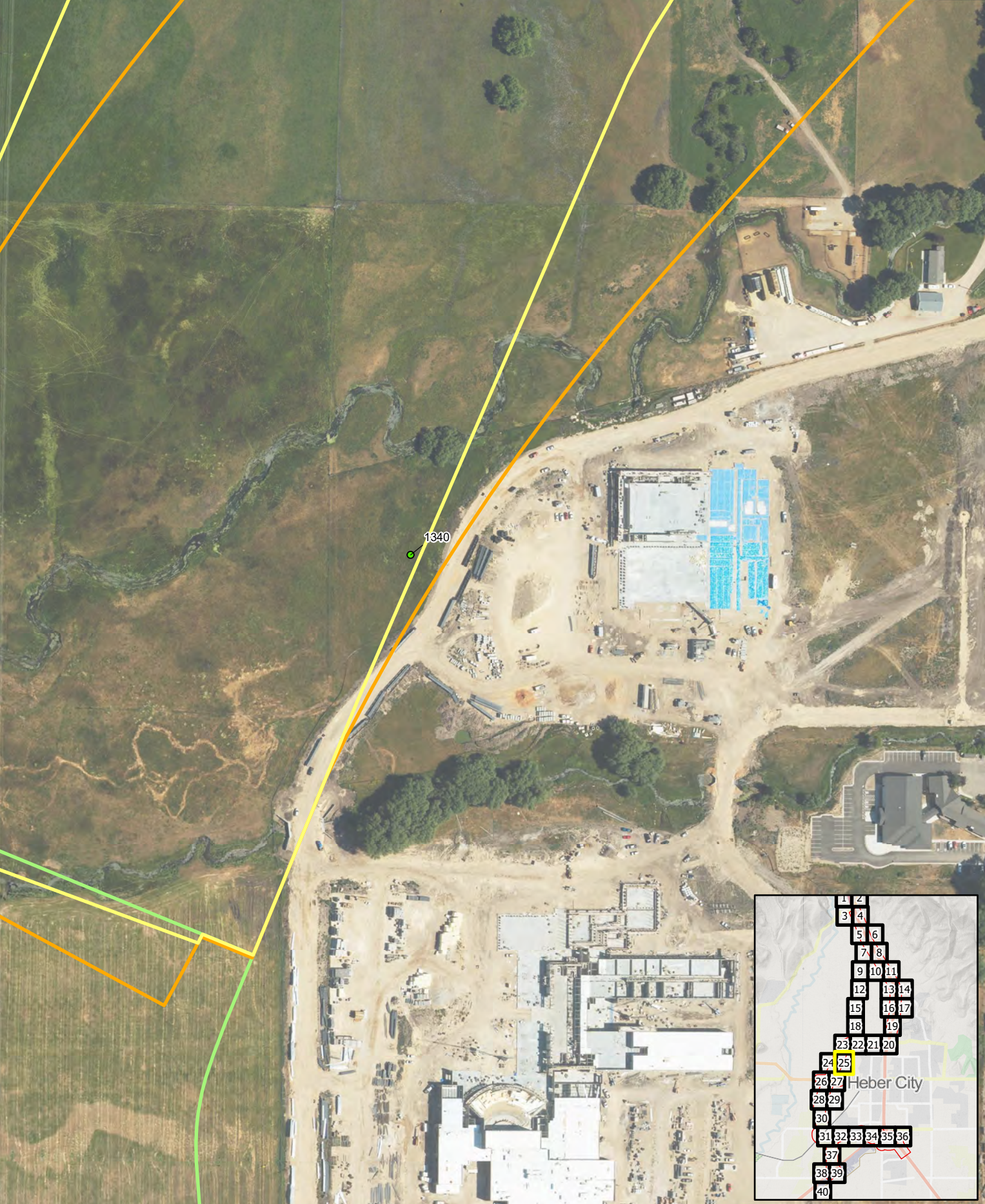


EXISTING NOISE LEVELS

- Noise Study Area Alt A
- Noise Study Area Alt B
- Noise Study Area South

- Noise Receptor with value above NAC
- Noise Receptor with value below NAC



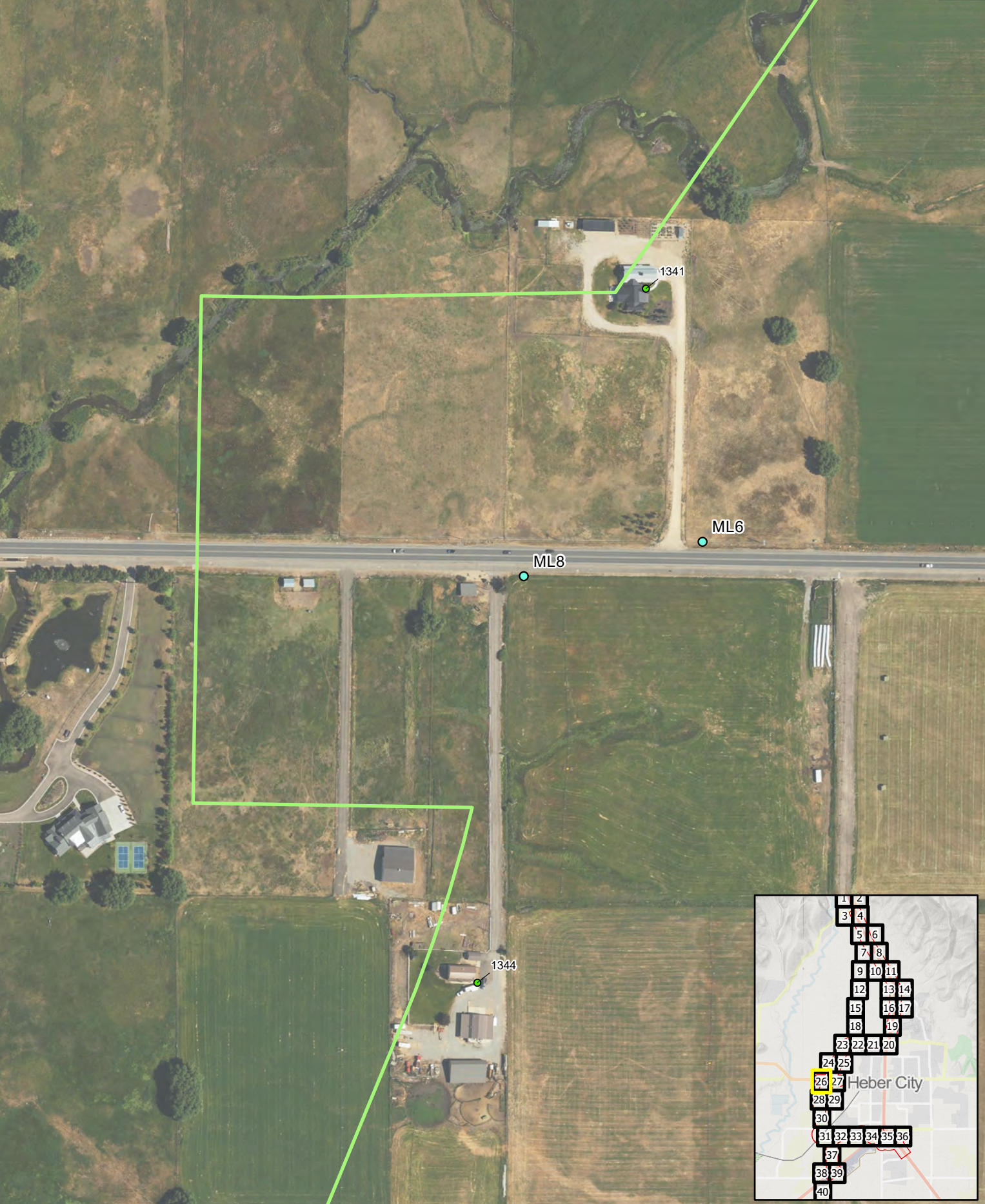


EXISTING NOISE LEVELS

- Noise Study Area Alt A
- Noise Study Area Alt B
- Noise Study Area South

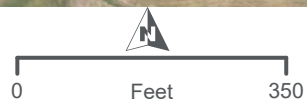
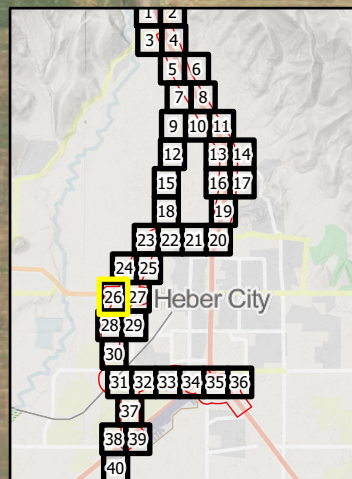
- Noise Receptor with value above NAC
- Noise Receptor with value below NAC

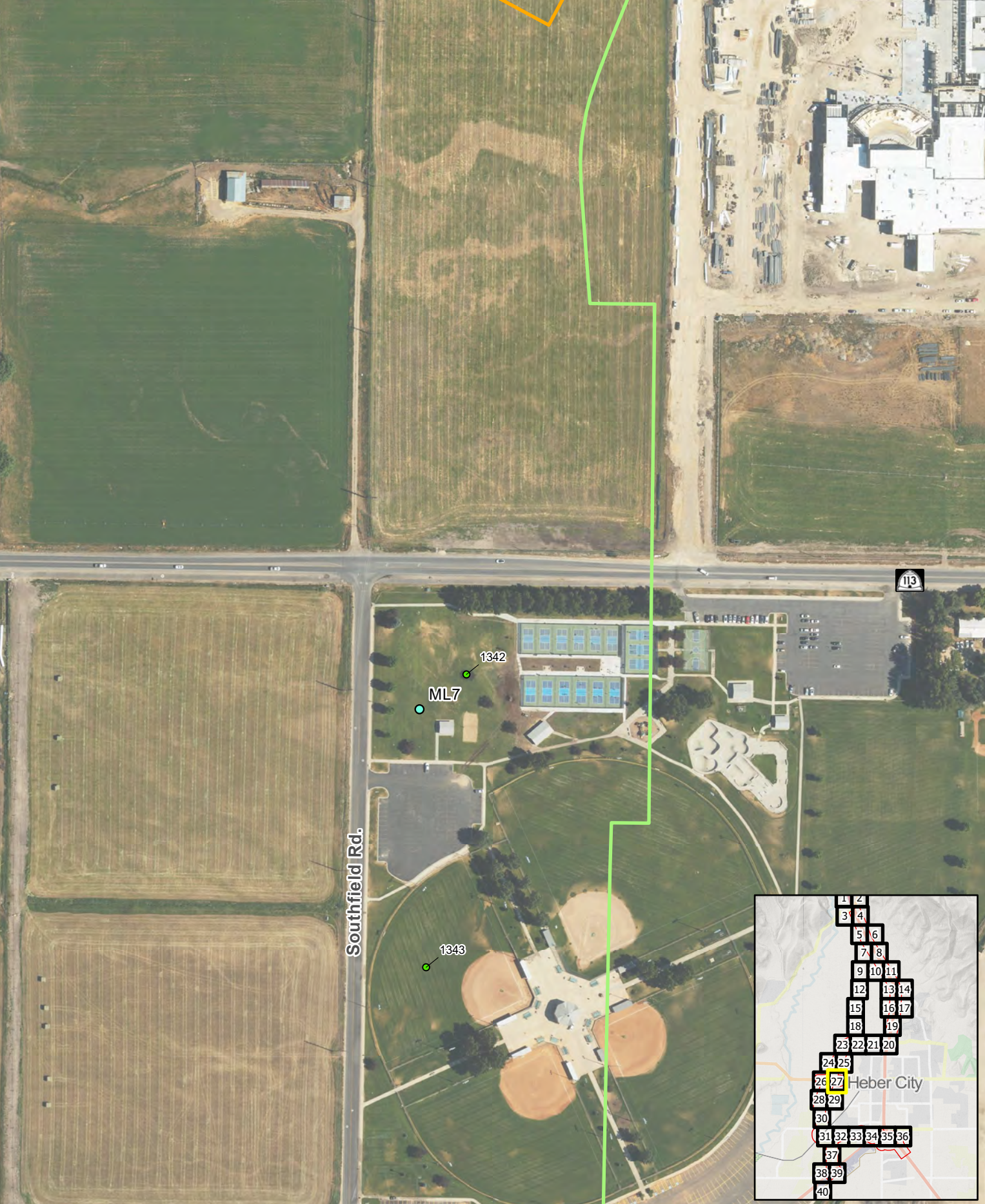




EXISTING NOISE LEVELS

- Monitoring Location
- Noise Study Area South
- Noise Receptor with value above NAC
- Noise Receptor with value below NAC

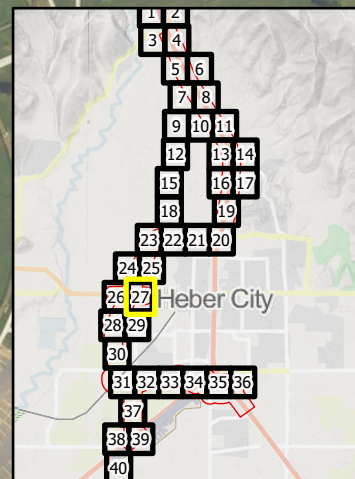


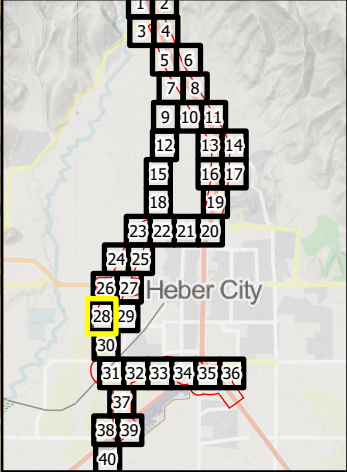


EXISTING NOISE LEVELS

-  Monitoring Location
-  Noise Study Area Alt B
-  Noise Study Area South

-  Noise Receptor with value above NAC
-  Noise Receptor with value below NAC





EXISTING NOISE LEVELS

- Monitoring Location
- Noise Study Area South

- Noise Receptor with value above NAC
- Noise Receptor with value below NAC



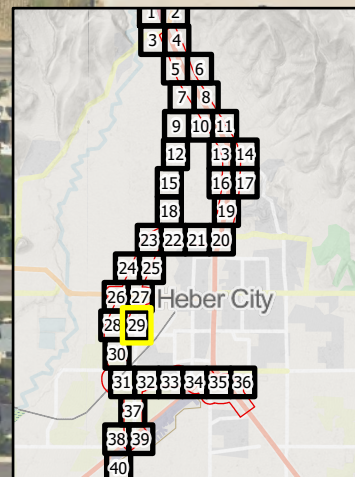


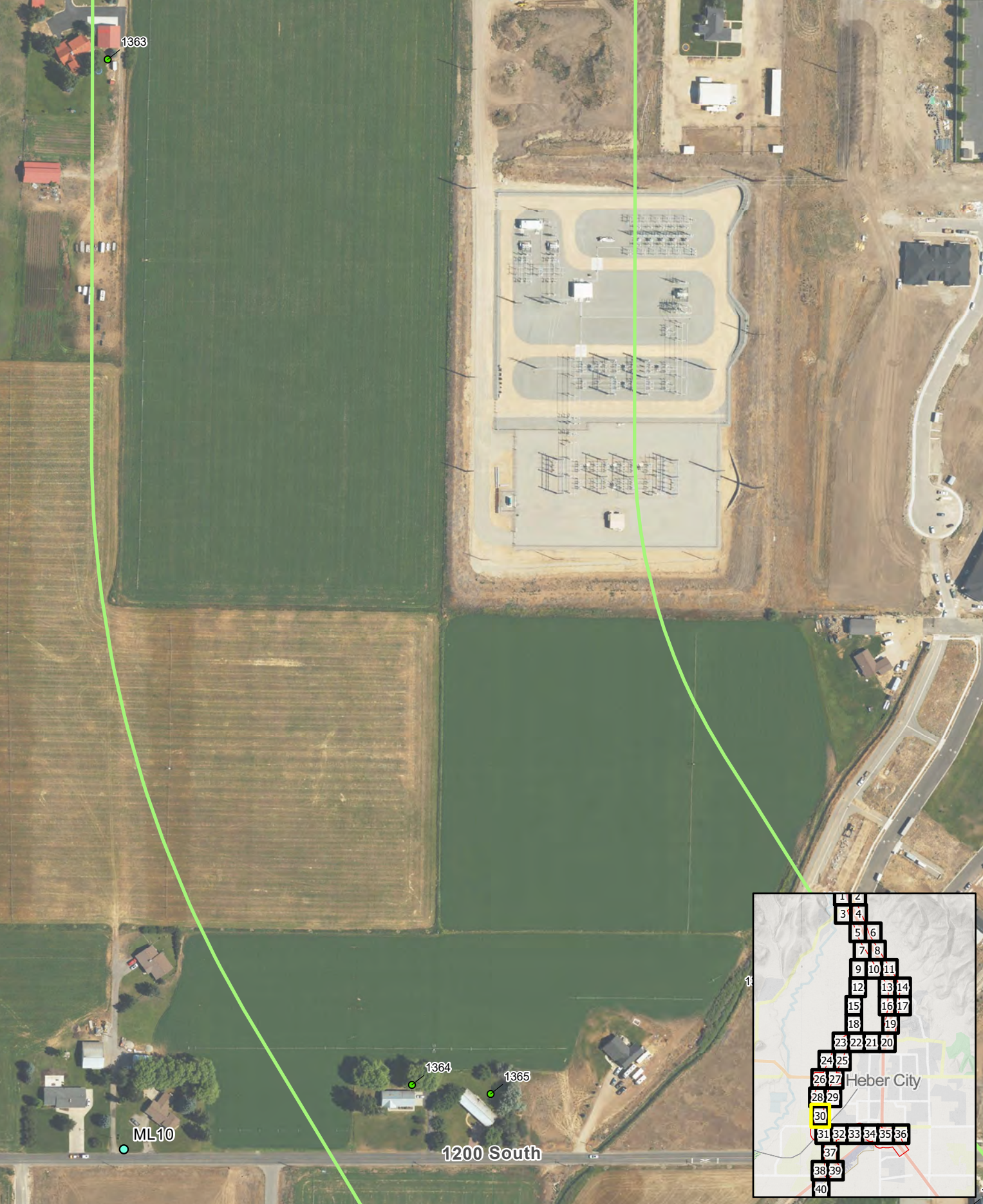
EXISTING NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

- Monitoring Location
- Noise Study Area South

- Noise Receptor with value above NAC
- Noise Receptor with value below NAC





EXISTING NOISE LEVELS

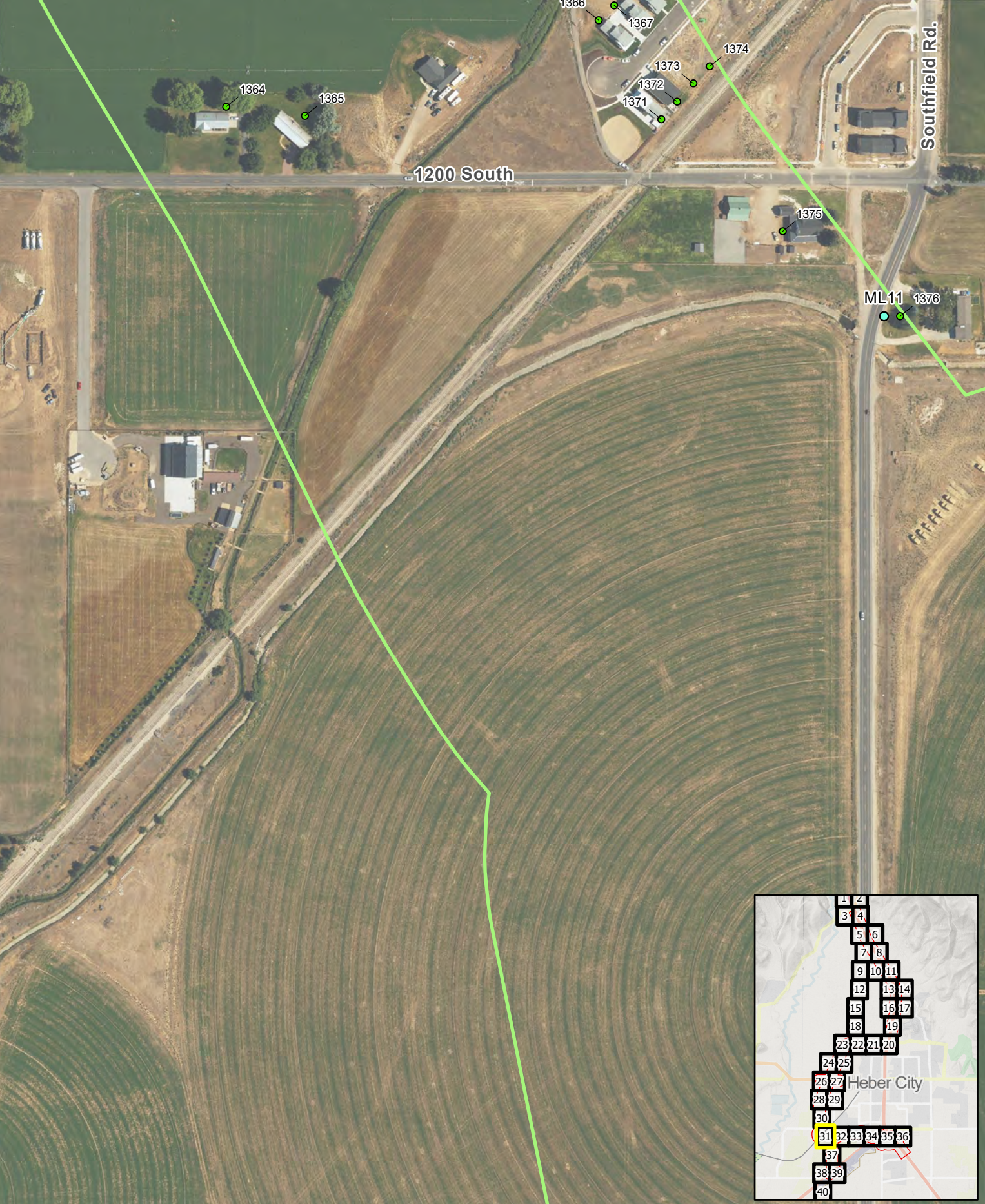
● Monitoring Location

■ Noise Study Area South

● Noise Receptor with value above NAC

● Noise Receptor with value below NAC

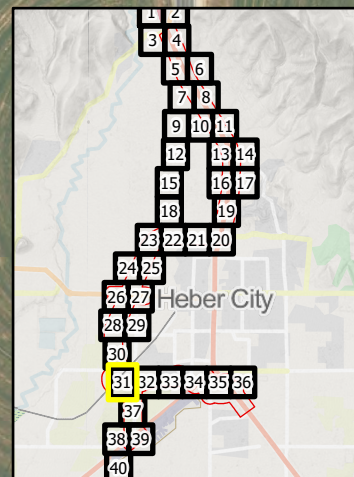


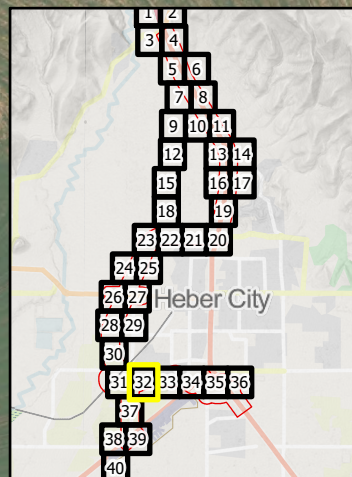
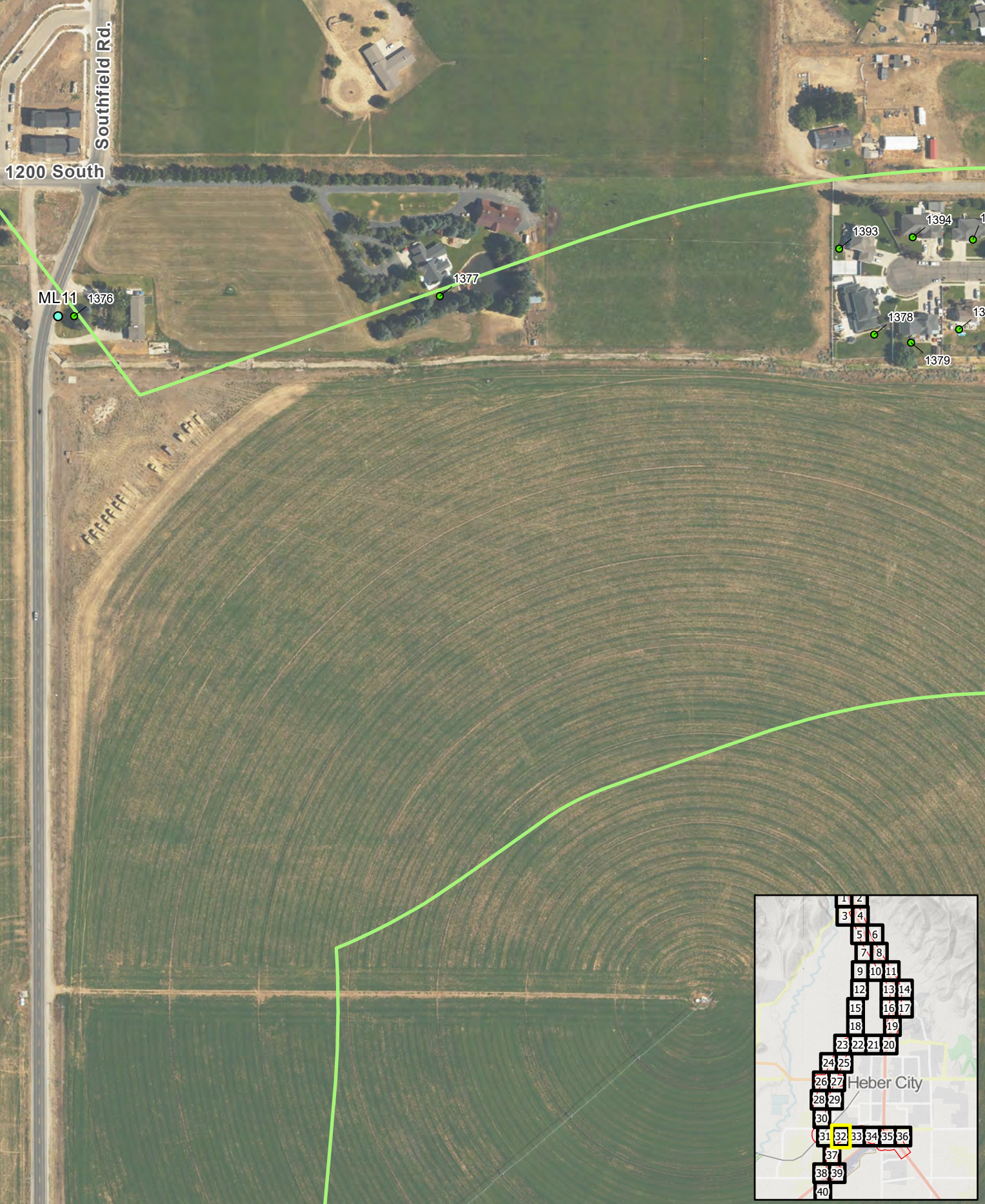


EXISTING NOISE LEVELS

- Monitoring Location
- Noise Study Area South

- Noise Receptor with value above NAC
- Noise Receptor with value below NAC





EXISTING NOISE LEVELS

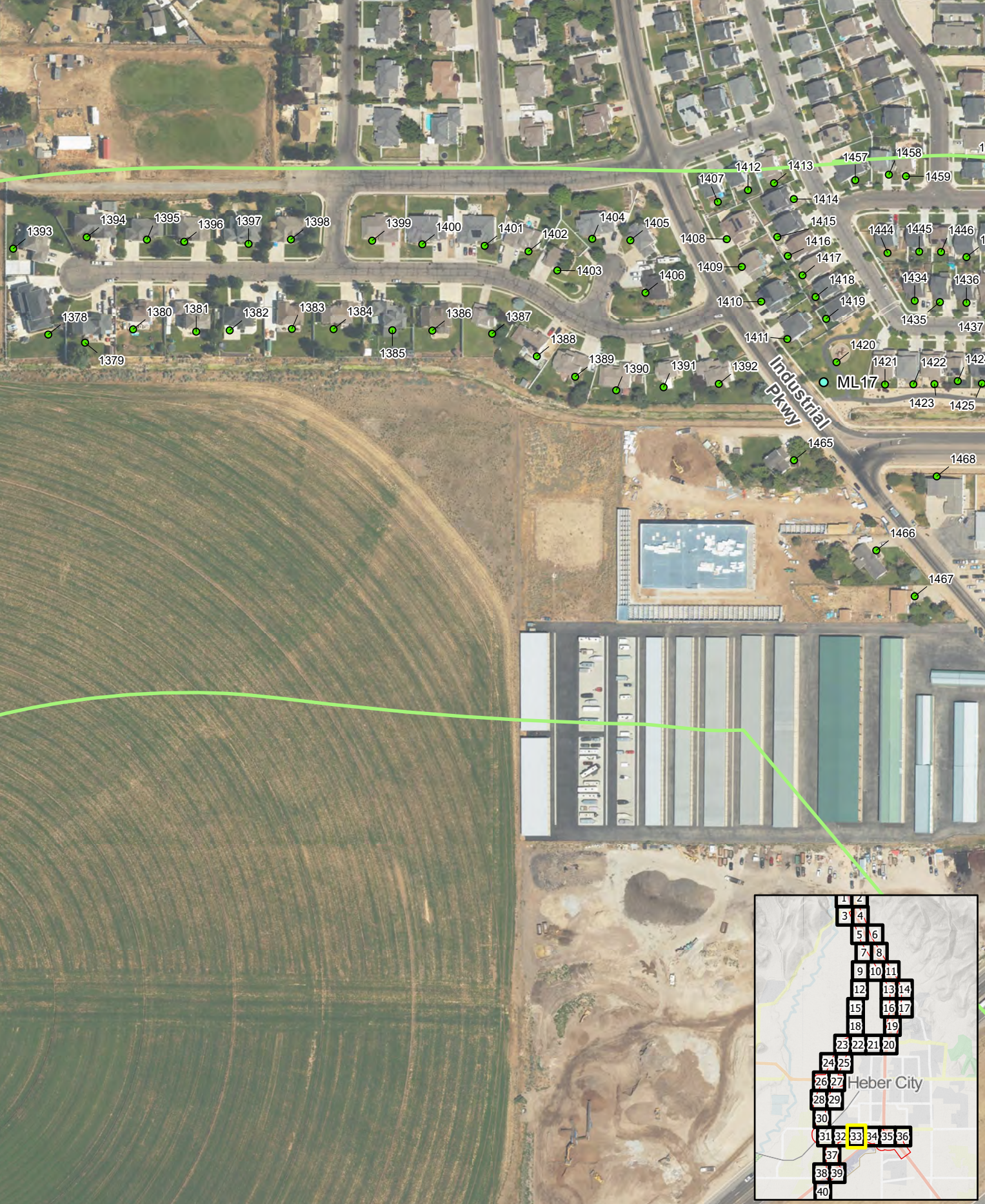
● Monitoring Location

▭ Noise Study Area South

● Noise Receptor with value above NAC

● Noise Receptor with value below NAC



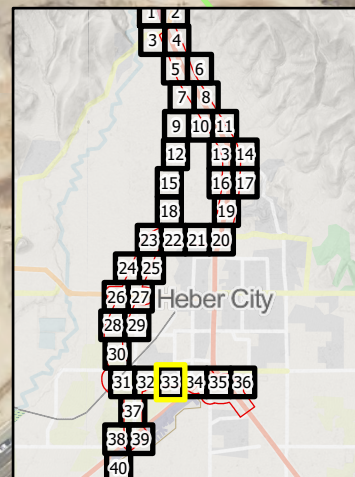


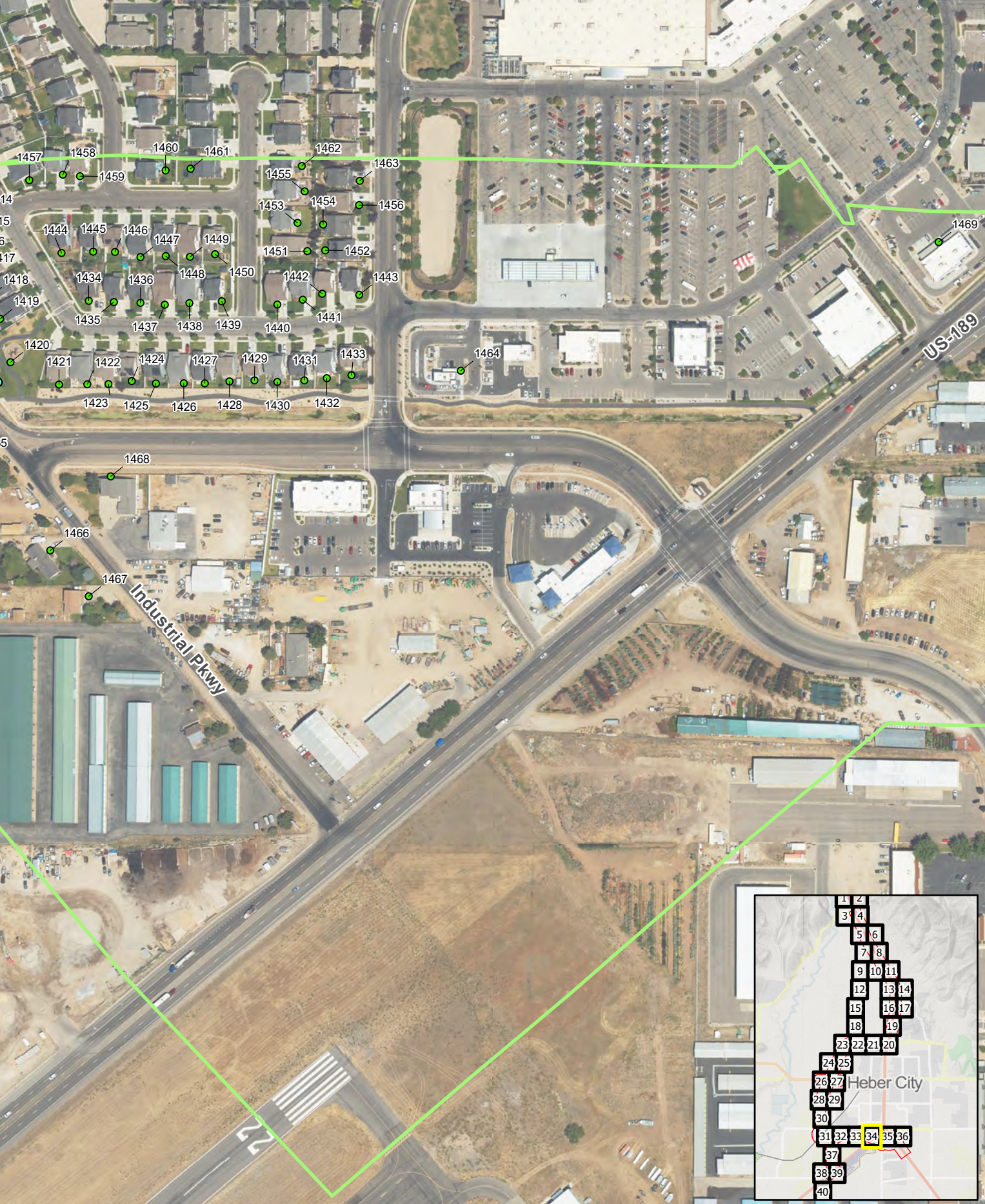
EXISTING NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

- Monitoring Location
- Noise Study Area South

- Noise Receptor with value above NAC
- Noise Receptor with value below NAC





EXISTING NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

- Monitoring Location
- Noise Study Area South

- Noise Receptor with value above NAC
- Noise Receptor with value below NAC



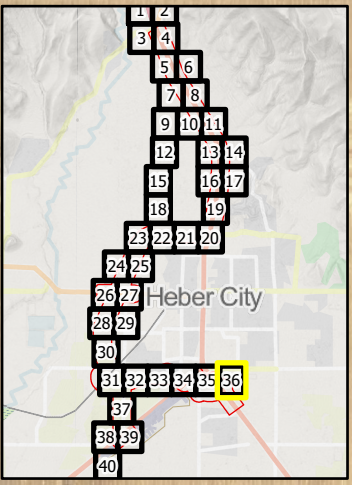


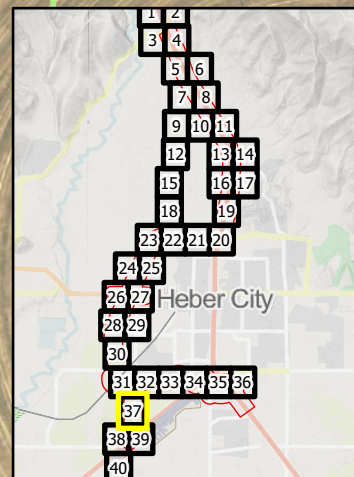
EXISTING NOISE LEVELS

- Monitoring Location
- Noise Study Area South

- Noise Receptor with value above NAC
- Noise Receptor with value below NAC







EXISTING NOISE LEVELS



Noise Study Area South



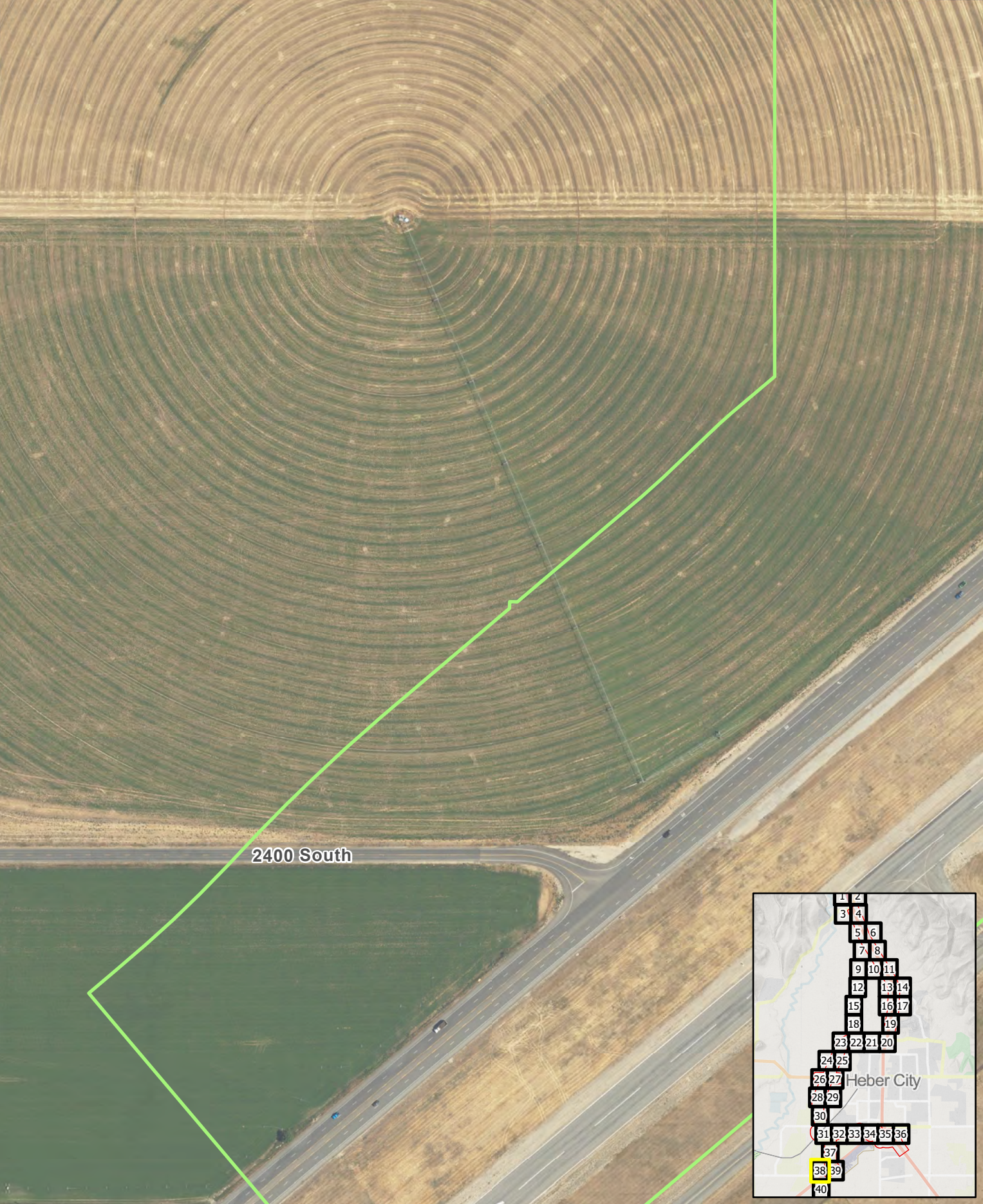
Noise Receptor with value above NAC



Noise Receptor with value below NAC



0 Feet 350



EXISTING NOISE LEVELS



Noise Study Area South



Noise Receptor with value above NAC



Noise Receptor with value below NAC

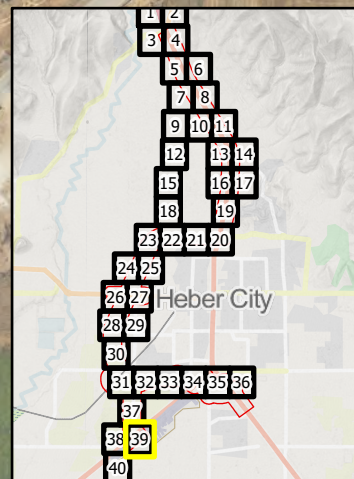


EXISTING NOISE LEVELS

 Noise Study Area South

 Noise Receptor with value above NAC

 Noise Receptor with value below NAC





EXISTING NOISE LEVELS



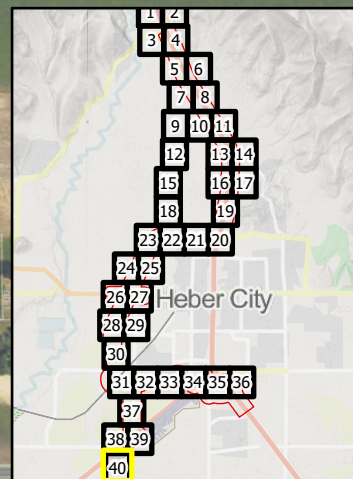
Noise Study Area South



Noise Receptor with value above NAC



Noise Receptor with value below NAC



0 Feet 350

ATTACHMENT B

Alternative A Build Noise Levels and Build Receptor Maps

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Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
1	E	71	60	No	62	No	No	2
2-1	B	66	57	No	59	No	No	2
3-2	B	66	58	No	61	No	No	3
4-3	B	66	59	No	62	No	No	3
5-4	B	66	60	No	63	No	No	3
6-1	B	66	58	No	60	No	No	2
7-2	B	66	59	No	61	No	No	2
8-3	B	66	60	No	62	No	No	2
9-4	B	66	60	No	63	No	No	3
10-1	B	66	58	No	60	No	No	2
11-2	B	66	59	No	62	No	No	3
12-3	B	66	60	No	62	No	No	2
13-4	B	66	61	No	63	No	No	2
14-1	B	66	58	No	60	No	No	2
15-2	B	66	59	No	62	No	No	3
16-3	B	66	60	No	63	No	No	3
17-4	B	66	61	No	63	No	No	2
18-1	B	66	46	No	50	No	No	4
19-2	B	66	48	No	52	No	No	4
20-3	B	66	49	No	53	No	No	4
21-4	B	66	50	No	54	No	No	4
22-1	B	66	44	No	45	No	No	1
23-2	B	66	46	No	47	No	No	1
24-3	B	66	47	No	48	No	No	1
25-4	B	66	48	No	49	No	No	1
26-1	B	66	44	No	45	No	No	1
27-2	B	66	47	No	47	No	No	0
28-3	B	66	47	No	48	No	No	1
29-4	B	66	49	No	50	No	No	1
30-1	B	66	55	No	57	No	No	2
31-2	B	66	56	No	58	No	No	2
32-3	B	66	57	No	59	No	No	2
33-4	B	66	58	No	60	No	No	2
34-1	B	66	59	No	61	No	No	2
35-2	B	66	60	No	62	No	No	2
36-3	B	66	61	No	63	No	No	2
37-4	B	66	62	No	64	No	No	2
38-1	B	66	59	No	62	No	No	3
39-2	B	66	60	No	63	No	No	3
40-3	B	66	61	No	64	No	No	3
41-4	B	66	62	No	64	No	No	2
42-1	B	66	60	No	62	No	No	2
43-2	B	66	61	No	63	No	No	2
44-3	B	66	62	No	64	No	No	2
45-4	B	66	62	No	65	No	No	3
46-1	B	66	60	No	62	No	No	2

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
47-2	B	66	61	No	63	No	No	2
48-3	B	66	62	No	64	No	No	2
49-4	B	66	62	No	65	No	No	3
50-1	B	66	54	No	56	No	No	2
51-2	B	66	55	No	57	No	No	2
52-3	B	66	56	No	58	No	No	2
53-4	B	66	57	No	59	No	No	2
54-1	B	66	47	No	48	No	No	1
55-2	B	66	49	No	49	No	No	0
56-3	B	66	50	No	51	No	No	1
57-4	B	66	51	No	53	No	No	2
58-1	B	66	47	No	49	No	No	2
59-2	B	66	50	No	51	No	No	1
60-3	B	66	51	No	53	No	No	2
61-4	B	66	54	No	55	No	No	1
62-1	B	66	56	No	59	No	No	3
63-2	B	66	57	No	60	No	No	3
64-3	B	66	58	No	61	No	No	3
65-4	B	66	59	No	62	No	No	3
66-1	B	66	61	No	64	No	No	3
67-2	B	66	63	No	65	No	No	2
68-3	B	66	64	No	66	Yes	No	2
69-4	B	66	64	No	67	Yes	No	3
70-1	B	66	61	No	63	No	No	2
71-2	B	66	63	No	65	No	No	2
72-3	B	66	63	No	66	Yes	No	3
73-4	B	66	64	No	66	Yes	No	2
74-1	B	66	60	No	63	No	No	3
75-2	B	66	62	No	64	No	No	2
76-3	B	66	63	No	65	No	No	2
77-4	B	66	64	No	66	Yes	No	2
78-1	B	66	60	No	63	No	No	3
79-2	B	66	62	No	64	No	No	2
80-3	B	66	63	No	65	No	No	2
81-4	B	66	63	No	66	Yes	No	3
82-1	B	66	59	No	61	No	No	2
83-2	B	66	60	No	62	No	No	2
84-3	B	66	61	No	63	No	No	2
85-4	B	66	62	No	64	No	No	2
86-1	B	66	51	No	53	No	No	2
87-2	B	66	53	No	55	No	No	2
88-3	B	66	55	No	57	No	No	2
89-4	B	66	56	No	58	No	No	2
90-1	B	66	49	No	50	No	No	1
91-2	B	66	51	No	52	No	No	1
92-3	B	66	52	No	54	No	No	2

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
93-4	B	66	54	No	55	No	No	1
94-1	B	66	54	No	54	No	No	0
95-2	B	66	55	No	56	No	No	1
96-3	B	66	56	No	57	No	No	1
97-4	B	66	57	No	58	No	No	1
98-1	B	66	58	No	61	No	No	3
99-2	B	66	61	No	62	No	No	1
100-3	B	66	62	No	63	No	No	1
101-4	B	66	62	No	64	No	No	2
102-1	B	66	58	No	61	No	No	3
103-2	B	66	61	No	62	No	No	1
104-3	B	66	62	No	63	No	No	1
105-4	B	66	63	No	64	No	No	1
106-1	B	66	59	No	61	No	No	2
107-2	B	66	62	No	62	No	No	0
108-3	B	66	62	No	63	No	No	1
109-4	B	66	63	No	64	No	No	1
110-1	B	66	59	No	61	No	No	2
111-2	B	66	62	No	63	No	No	1
112-3	B	66	62	No	64	No	No	2
113-4	B	66	63	No	64	No	No	1
114	B	66	65	No	64	No	No	-1
115	B	66	66	Yes	65	No	No	-1
116	B	66	63	No	64	No	No	1
117	B	66	60	No	67	Yes	No	7
118	B	66	61	No	68	Yes	No	7
119	B	66	52	No	57	No	No	5
120	B	66	52	No	57	No	No	5
121	B	66	52	No	57	No	No	5
122	B	66	48	No	53	No	No	5
123	B	66	47	No	49	No	No	2
124	B	66	49	No	53	No	No	4
125	B	66	50	No	54	No	No	4
126	B	66	49	No	52	No	No	3
127	B	66	49	No	50	No	No	1
128	B	66	49	No	50	No	No	1
129	B	66	49	No	53	No	No	4
130	B	66	50	No	53	No	No	3
131	C	66	47	No	48	No	No	1
132-1	B	66	51	No	55	No	No	4
133-2	B	66	54	No	59	No	No	5
134-3	B	66	56	No	61	No	No	5
135-1	B	66	46	No	48	No	No	2
136-2	B	66	48	No	51	No	No	3
137-3	B	66	50	No	54	No	No	4
138-1	B	66	46	No	47	No	No	1

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
139-2	B	66	47	No	49	No	No	2
140-3	B	66	49	No	52	No	No	3
141-1	B	66	46	No	47	No	No	1
142-2	B	66	48	No	49	No	No	1
143-3	B	66	50	No	52	No	No	2
144-1	B	66	47	No	48	No	No	1
145-2	B	66	48	No	50	No	No	2
146-3	B	66	50	No	52	No	No	2
147-1	B	66	48	No	49	No	No	1
148-2	B	66	50	No	51	No	No	1
149-3	B	66	51	No	54	No	No	3
150-1	B	66	53	No	58	No	No	5
151-2	B	66	57	No	61	No	No	4
152-3	B	66	59	No	63	No	No	4
153-1	B	66	53	No	57	No	No	4
154-2	B	66	57	No	60	No	No	3
155-3	B	66	59	No	62	No	No	3
156-1	B	66	52	No	56	No	No	4
157-2	B	66	56	No	60	No	No	4
158-3	B	66	58	No	61	No	No	3
160-1	B	66	53	No	56	No	No	3
161-2	B	66	56	No	59	No	No	3
162-3	B	66	58	No	61	No	No	3
163-1	B	66	52	No	55	No	No	3
164-2	B	66	56	No	57	No	No	1
165-3	B	66	57	No	59	No	No	2
166-1	B	66	52	No	54	No	No	2
167-2	B	66	55	No	57	No	No	2
168-3	B	66	57	No	58	No	No	1
169	E	71	53	No	57	No	No	4
170-1	B	66	57	No	60	No	No	3
171-2	B	66	61	No	62	No	No	1
172-3	B	66	62	No	64	No	No	2
173-1	B	66	58	No	61	No	No	3
174-2	B	66	62	No	63	No	No	1
175-3	B	66	63	No	65	No	No	2
176-1	B	66	58	No	61	No	No	3
177-2	B	66	62	No	63	No	No	1
178-3	B	66	63	No	65	No	No	2
179-1	B	66	48	No	50	No	No	2
180-2	B	66	51	No	53	No	No	2
181-3	B	66	53	No	55	No	No	2
182-1	B	66	49	No	50	No	No	1
183-2	B	66	53	No	53	No	No	0
184-3	B	66	54	No	55	No	No	1
185-1	B	66	55	No	59	No	No	4

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
186-2	B	66	60	No	60	No	No	0
187-3	B	66	61	No	62	No	No	1
188-1	B	66	56	No	60	No	No	4
189-2	B	66	60	No	61	No	No	1
190-3	B	66	61	No	63	No	No	2
191-1	B	66	53	No	55	No	No	2
192-2	B	66	55	No	56	No	No	1
193-3	B	66	56	No	58	No	No	2
194-1	B	66	52	No	53	No	No	1
195-2	B	66	53	No	55	No	No	2
196-3	B	66	54	No	56	No	No	2
197-1	B	66	51	No	52	No	No	1
198-2	B	66	52	No	54	No	No	2
199-3	B	66	53	No	55	No	No	2
200-1	B	66	52	No	53	No	No	1
201-2	B	66	54	No	55	No	No	1
202-3	B	66	55	No	56	No	No	1
203-1	B	66	59	No	62	No	No	3
204-2	B	66	63	No	64	No	No	1
205-3	B	66	64	No	66	Yes	No	2
206-1	B	66	57	No	60	No	No	3
207-2	B	66	61	No	62	No	No	1
208-3	B	66	62	No	65	No	No	3
209-1	B	66	56	No	59	No	No	3
210-2	B	66	59	No	61	No	No	2
211-3	B	66	60	No	63	No	No	3
212-1	B	66	55	No	58	No	No	3
213-2	B	66	59	No	60	No	No	1
214-3	B	66	60	No	62	No	No	2
215-1	B	66	55	No	58	No	No	3
216-2	B	66	59	No	60	No	No	1
217-3	B	66	60	No	62	No	No	2
218-1	B	66	57	No	60	No	No	3
219-2	B	66	62	No	62	No	No	0
220-3	B	66	63	No	65	No	No	2
221-1	B	66	52	No	54	No	No	2
222-2	B	66	54	No	55	No	No	1
223-3	B	66	55	No	56	No	No	1
224-1	B	66	50	No	52	No	No	2
225-2	B	66	50	No	52	No	No	2
226-3	B	66	53	No	55	No	No	2
227-1	B	66	50	No	52	No	No	2
228-2	B	66	51	No	54	No	No	3
229-3	B	66	53	No	56	No	No	3
230-1	B	66	57	No	60	No	No	3
231-2	B	66	61	No	63	No	No	2

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
232-3	B	66	62	No	64	No	No	2
233-1	B	66	64	No	66	Yes	No	2
234-2	B	66	69	Yes	70	Yes	No	1
235-3	B	66	69	Yes	71	Yes	No	2
236-1	B	66	64	No	65	No	No	1
237-2	B	66	69	Yes	70	Yes	No	1
238-3	B	66	69	Yes	71	Yes	No	2
239-1	B	66	64	No	65	No	No	1
240-2	B	66	69	Yes	70	Yes	No	1
241-3	B	66	69	Yes	71	Yes	No	2
242-1	B	66	64	No	65	No	No	1
243-2	B	66	69	Yes	70	Yes	No	1
244-3	B	66	69	Yes	71	Yes	No	2
245-1	B	66	64	No	65	No	No	1
246-2	B	66	69	Yes	70	Yes	No	1
247-3	B	66	69	Yes	71	Yes	No	2
248-1	B	66	56	No	58	No	No	2
249-2	B	66	60	No	60	No	No	0
250-3	B	66	61	No	62	No	No	1
251-1	B	66	57	No	59	No	No	2
252-2	B	66	61	No	62	No	No	1
253-3	B	66	62	No	63	No	No	1
254-1	B	66	58	No	60	No	No	2
255-2	B	66	63	No	63	No	No	0
256-3	B	66	63	No	65	No	No	2
257-1	B	66	60	No	62	No	No	2
258-2	B	66	65	No	66	Yes	No	1
259-3	B	66	66	Yes	67	Yes	No	1
260-1	B	66	62	No	64	No	No	2
261-2	B	66	67	Yes	69	Yes	No	2
262-3	B	66	68	Yes	70	Yes	No	2
263-1	B	66	51	No	53	No	No	2
264-2	B	66	55	No	57	No	No	2
265-3	B	66	56	No	57	No	No	1
266-1	B	66	53	No	55	No	No	2
267-2	B	66	56	No	58	No	No	2
268-3	B	66	57	No	59	No	No	2
269-1	B	66	54	No	56	No	No	2
270-2	B	66	58	No	60	No	No	2
271-3	B	66	58	No	61	No	No	3
272-1	B	66	55	No	58	No	No	3
273-2	B	66	60	No	62	No	No	2
274-3	B	66	61	No	63	No	No	2
275-1	B	66	58	No	61	No	No	3
276-2	B	66	63	No	65	No	No	2
277-3	B	66	63	No	66	Yes	No	3

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
278-1	B	66	54	No	56	No	No	2
279-2	B	66	58	No	60	No	No	2
280-3	B	66	59	No	61	No	No	2
281-1	B	66	55	No	58	No	No	3
282-2	B	66	60	No	62	No	No	2
283-3	B	66	61	No	63	No	No	2
284-1	B	66	57	No	61	No	No	4
285-2	B	66	62	No	64	No	No	2
286-3	B	66	63	No	65	No	No	2
287-1	B	66	60	No	62	No	No	2
288-2	B	66	65	No	66	Yes	No	1
289-3	B	66	66	Yes	68	Yes	No	2
290-1	B	66	63	No	65	No	No	2
291-2	B	66	67	Yes	69	Yes	No	2
292-3	B	66	68	Yes	70	Yes	No	2
293-1	B	66	55	No	56	No	No	1
294-2	B	66	59	No	60	No	No	1
295-3	B	66	60	No	61	No	No	1
296-1	B	66	56	No	57	No	No	1
297-2	B	66	60	No	61	No	No	1
298-3	B	66	60	No	62	No	No	2
299-1	B	66	57	No	58	No	No	1
300-2	B	66	61	No	62	No	No	1
301-3	B	66	62	No	63	No	No	1
302-1	B	66	58	No	59	No	No	1
303-2	B	66	62	No	64	No	No	2
304-3	B	66	63	No	65	No	No	2
305-1	B	66	60	No	62	No	No	2
306-2	B	66	65	No	66	Yes	No	1
307-3	B	66	65	No	68	Yes	No	3
308-1	B	66	59	No	60	No	No	1
309-2	B	66	62	No	62	No	No	0
310-3	B	66	62	No	63	No	No	1
311-4	B	66	63	No	64	No	No	1
312-1	B	66	59	No	60	No	No	1
313-2	B	66	62	No	62	No	No	0
314-3	B	66	62	No	63	No	No	1
315-4	B	66	63	No	64	No	No	1
316-1	B	66	59	No	60	No	No	1
317-2	B	66	62	No	62	No	No	0
318-3	B	66	62	No	63	No	No	1
319-4	B	66	63	No	64	No	No	1
320-1	B	66	59	No	60	No	No	1
321-2	B	66	62	No	62	No	No	0
322-3	B	66	62	No	63	No	No	1
323-4	B	66	63	No	64	No	No	1

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
324-1	B	66	59	No	60	No	No	1
325-2	B	66	62	No	62	No	No	0
326-3	B	66	63	No	63	No	No	0
327-4	B	66	63	No	64	No	No	1
328-1	B	66	60	No	60	No	No	0
329-2	B	66	62	No	62	No	No	0
330-3	B	66	63	No	64	No	No	1
331-4	B	66	63	No	64	No	No	1
332-1	B	66	60	No	60	No	No	0
333-2	B	66	63	No	63	No	No	0
334-3	B	66	63	No	64	No	No	1
335-4	B	66	64	No	65	No	No	1
336-1	B	66	60	No	60	No	No	0
337-2	B	66	63	No	63	No	No	0
338-3	B	66	63	No	64	No	No	1
339-4	B	66	64	No	65	No	No	1
340-1	B	66	53	No	55	No	No	2
341-2	B	66	56	No	57	No	No	1
342-3	B	66	57	No	58	No	No	1
343-4	B	66	58	No	59	No	No	1
344-1	B	66	43	No	43	No	No	0
345-2	B	66	44	No	45	No	No	1
346-3	B	66	45	No	45	No	No	0
347-4	B	66	47	No	47	No	No	0
348-1	B	66	43	No	43	No	No	0
349-2	B	66	44	No	45	No	No	1
350-3	B	66	45	No	45	No	No	0
351-4	B	66	47	No	47	No	No	0
352-1	B	66	56	No	55	No	No	-1
353-2	B	66	58	No	58	No	No	0
354-3	B	66	59	No	59	No	No	0
355-4	B	66	59	No	60	No	No	1
388-1	B	66	61	No	61	No	No	0
389-2	B	66	63	No	64	No	No	1
390-3	B	66	64	No	65	No	No	1
391-4	B	66	64	No	66	Yes	No	2
392-1	B	66	61	No	61	No	No	0
393-2	B	66	63	No	63	No	No	0
394-3	B	66	64	No	65	No	No	1
395-4	B	66	64	No	66	Yes	No	2
396-1	B	66	61	No	61	No	No	0
397-2	B	66	63	No	63	No	No	0
398-3	B	66	64	No	65	No	No	1
399-4	B	66	64	No	66	Yes	No	2
400-1	B	66	61	No	61	No	No	0
401-2	B	66	63	No	63	No	No	0

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
402-3	B	66	64	No	65	No	No	1
403-4	B	66	64	No	65	No	No	1
404-1	B	66	56	No	57	No	No	1
405-2	B	66	59	No	60	No	No	1
406-3	B	66	60	No	61	No	No	1
407-4	B	66	60	No	62	No	No	2
408-1	B	66	48	No	49	No	No	1
409-2	B	66	50	No	51	No	No	1
410-3	B	66	51	No	52	No	No	1
411-4	B	66	52	No	52	No	No	0
412-1	B	66	46	No	46	No	No	0
413-2	B	66	47	No	47	No	No	0
414-3	B	66	49	No	48	No	No	-1
415-4	B	66	50	No	50	No	No	0
416-1	B	66	46	No	46	No	No	0
417-2	B	66	48	No	47	No	No	-1
418-3	B	66	50	No	49	No	No	-1
419-4	B	66	51	No	51	No	No	0
420-1	B	66	61	No	61	No	No	0
421-2	B	66	63	No	63	No	No	0
422-3	B	66	64	No	64	No	No	0
423-4	B	66	64	No	65	No	No	1
424-1	B	66	61	No	60	No	No	-1
425-2	B	66	63	No	63	No	No	0
426-3	B	66	64	No	64	No	No	0
427-4	B	66	64	No	65	No	No	1
428-1	B	66	61	No	60	No	No	-1
429-2	B	66	63	No	63	No	No	0
430-3	B	66	64	No	64	No	No	0
431-4	B	66	64	No	65	No	No	1
432-1	B	66	62	No	60	No	No	-2
433-2	B	66	64	No	63	No	No	-1
434-3	B	66	65	No	64	No	No	-1
435-4	B	66	65	No	65	No	No	0
436-1	B	66	47	No	46	No	No	-1
437-2	B	66	49	No	48	No	No	-1
438-3	B	66	51	No	50	No	No	-1
439-4	B	66	52	No	51	No	No	-1
440-1	B	66	48	No	47	No	No	-1
441-2	B	66	51	No	49	No	No	-2
442-3	B	66	53	No	51	No	No	-2
443-4	B	66	54	No	52	No	No	-2
444-1	B	66	51	No	49	No	No	-2
445-2	B	66	55	No	52	No	No	-3
446-3	B	66	55	No	53	No	No	-2
447-4	B	66	56	No	53	No	No	-3

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
448-1	B	66	57	No	55	No	No	-2
449-2	B	66	60	No	57	No	No	-3
450-3	B	66	60	No	58	No	No	-2
451-4	B	66	60	No	59	No	No	-1
452	E	71	64	No	64	No	No	0
453	B	66	64	No	64	No	No	0
454	B	66	66	Yes	68	Yes	No	2
455	B	66	69	Yes	68	Yes	No	-1
456	B	66	67	Yes	66	Yes	No	-1
457	B	66	56	No	54	No	No	-2
458	B	66	63	No	63	No	No	0
459	B	66	65	No	65	No	No	0
460	B	66	61	No	62	No	No	1
461	B	66	59	No	59	No	No	0
462	B	66	58	No	58	No	No	0
463	B	66	56	No	56	No	No	0
464	B	66	55	No	56	No	No	1
465	B	66	55	No	55	No	No	0
466	B	66	57	No	57	No	No	0
467	B	66	55	No	55	No	No	0
468	B	66	54	No	54	No	No	0
469	B	66	53	No	53	No	No	0
470	B	66	53	No	53	No	No	0
471	B	66	53	No	52	No	No	-1
472	B	66	53	No	52	No	No	-1
473	B	66	66	Yes	67	Yes	No	1
474	B	66	66	Yes	67	Yes	No	1
475	B	66	67	Yes	67	Yes	No	0
476	B	66	67	Yes	68	Yes	No	1
477	B	66	68	Yes	68	Yes	No	0
478	B	66	68	Yes	68	Yes	No	0
479	B	66	68	Yes	68	Yes	No	0
480	B	66	66	Yes	66	Yes	No	0
481	B	66	57	No	58	No	No	1
482	B	66	57	No	58	No	No	1
483	B	66	57	No	59	No	No	2
484	B	66	58	No	59	No	No	1
485	B	66	59	No	60	No	No	1
486	B	66	61	No	61	No	No	0
487	B	66	64	No	63	No	No	-1
488	B	66	55	No	55	No	No	0
489	B	66	54	No	55	No	No	1
490	B	66	55	No	56	No	No	1
491	B	66	56	No	57	No	No	1
492	B	66	58	No	59	No	No	1
493	B	66	60	No	60	No	No	0

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
494	B	66	53	No	54	No	No	1
495	B	66	54	No	55	No	No	1
496	B	66	55	No	56	No	No	1
497	B	66	56	No	57	No	No	1
498	B	66	58	No	58	No	No	0
499	B	66	61	No	60	No	No	-1
500	B	66	56	No	57	No	No	1
501	B	66	57	No	57	No	No	0
502	B	66	58	No	57	No	No	-1
503	B	66	61	No	60	No	No	-1
504	B	66	60	No	59	No	No	-1
505	B	66	59	No	58	No	No	-1
506	B	66	58	No	57	No	No	-1
507	B	66	58	No	56	No	No	-2
508	B	66	57	No	56	No	No	-1
509	B	66	51	No	51	No	No	0
510	B	66	51	No	52	No	No	1
511	B	66	53	No	55	No	No	2
512	B	66	56	No	56	No	No	0
513	B	66	57	No	56	No	No	-1
514	B	66	57	No	57	No	No	0
515	B	66	60	No	59	No	No	-1
516	B	66	59	No	59	No	No	0
517	B	66	59	No	58	No	No	-1
518	B	66	58	No	58	No	No	0
519	B	66	57	No	57	No	No	0
521	B	66	58	No	58	No	No	0
522	B	66	58	No	58	No	No	0
523	B	66	58	No	58	No	No	0
525-1	B	66	64	No	64	No	No	0
526-2	B	66	66	Yes	66	Yes	No	0
527-3	B	66	66	Yes	67	Yes	No	1
528-1	B	66	64	No	64	No	No	0
529-2	B	66	66	Yes	66	Yes	No	0
530-3	B	66	66	Yes	67	Yes	No	1
531-1	B	66	64	No	64	No	No	0
532-2	B	66	66	Yes	66	Yes	No	0
533-3	B	66	66	Yes	67	Yes	No	1
534-1	B	66	64	No	64	No	No	0
535-2	B	66	66	Yes	66	Yes	No	0
536-3	B	66	66	Yes	67	Yes	No	1
537-1	B	66	64	No	63	No	No	-1
538-2	B	66	65	No	66	Yes	No	1
539-3	B	66	66	Yes	67	Yes	No	1
540-1	B	66	64	No	64	No	No	0
541-2	B	66	66	Yes	66	Yes	No	0

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
542-3	B	66	66	Yes	67	Yes	No	1
543-1	B	66	58	No	58	No	No	0
544-2	B	66	60	No	60	No	No	0
545-3	B	66	61	No	63	No	No	2
546-1	B	66	49	No	51	No	No	2
547-2	B	66	51	No	53	No	No	2
548-3	B	66	57	No	60	No	No	3
549-1	B	66	49	No	51	No	No	2
550-2	B	66	50	No	52	No	No	2
551-3	B	66	57	No	60	No	No	3
552-1	B	66	48	No	50	No	No	2
553-2	B	66	50	No	52	No	No	2
554-3	B	66	56	No	58	No	No	2
555-1	B	66	60	No	60	No	No	0
556-2	B	66	62	No	62	No	No	0
557-3	B	66	62	No	64	No	No	2
558-1	B	66	64	No	63	No	No	-1
559-2	B	66	65	No	65	No	No	0
560-3	B	66	66	Yes	67	Yes	No	1
561-1	B	66	64	No	63	No	No	-1
562-2	B	66	65	No	65	No	No	0
563-3	B	66	66	Yes	67	Yes	No	1
564-1	B	66	63	No	63	No	No	0
565-2	B	66	65	No	65	No	No	0
566-3	B	66	66	Yes	67	Yes	No	1
567-1	B	66	63	No	62	No	No	-1
568-2	B	66	65	No	65	No	No	0
569-3	B	66	66	Yes	67	Yes	No	1
570-1	B	66	63	No	62	No	No	-1
571-2	B	66	65	No	64	No	No	-1
572-3	B	66	65	No	67	Yes	No	2
573-1	B	66	62	No	61	No	No	-1
574-2	B	66	64	No	63	No	No	-1
575-3	B	66	65	No	66	Yes	No	1
576-1	B	66	58	No	59	No	No	1
577-2	B	66	60	No	61	No	No	1
578-3	B	66	63	No	65	No	No	2
579-1	B	66	49	No	52	No	No	3
580-2	B	66	52	No	56	No	No	4
581-3	B	66	62	No	65	No	No	3
582-1	B	66	50	No	52	No	No	2
583-2	B	66	53	No	57	No	No	4
584-3	B	66	64	No	66	Yes	No	2
585-1	B	66	50	No	53	No	No	3
586-2	B	66	54	No	60	No	No	6
587-3	B	66	64	No	66	Yes	No	2

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
588-1	B	66	50	No	53	No	No	3
589-2	B	66	54	No	59	No	No	5
590-3	B	66	64	No	66	Yes	No	2
591-1	B	66	54	No	56	No	No	2
592-2	B	66	56	No	60	No	No	4
593-3	B	66	64	No	66	Yes	No	2
594	C	66	61	No	60	No	No	-1
595-1	B	66	54	No	55	No	No	1
596-2	B	66	56	No	57	No	No	1
597-3	B	66	58	No	60	No	No	2
598-1	B	66	55	No	56	No	No	1
599-2	B	66	57	No	58	No	No	1
600-3	B	66	58	No	61	No	No	3
601-1	B	66	56	No	57	No	No	1
602-2	B	66	58	No	59	No	No	1
603-3	B	66	59	No	62	No	No	3
604-1	B	66	55	No	57	No	No	2
605-2	B	66	58	No	59	No	No	1
606-3	B	66	59	No	63	No	No	4
607-1	B	66	55	No	57	No	No	2
608-2	B	66	57	No	60	No	No	3
609-3	B	66	59	No	63	No	No	4
610-1	B	66	53	No	53	No	No	0
611-2	B	66	55	No	55	No	No	0
612-3	B	66	56	No	57	No	No	1
613-1	B	66	44	No	46	No	No	2
614-2	B	66	44	No	47	No	No	3
615-3	B	66	49	No	52	No	No	3
616-1	B	66	44	No	46	No	No	2
617-2	B	66	44	No	46	No	No	2
618-3	B	66	49	No	52	No	No	3
619-1	B	66	44	No	46	No	No	2
620-2	B	66	44	No	46	No	No	2
621-3	B	66	48	No	51	No	No	3
622-1	B	66	43	No	46	No	No	3
623-2	B	66	44	No	47	No	No	3
624-3	B	66	49	No	51	No	No	2
625-1	B	66	50	No	55	No	No	5
626-2	B	66	52	No	58	No	No	6
627-3	B	66	54	No	60	No	No	6
628-1	B	66	55	No	58	No	No	3
629-2	B	66	56	No	62	No	No	6
630-3	B	66	61	No	64	No	No	3
631-1	B	66	55	No	60	No	No	5
632-2	B	66	57	No	62	No	No	5
633-3	B	66	62	No	64	No	No	2

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
634-1	B	66	56	No	61	No	No	5
635-2	B	66	59	No	63	No	No	4
636-3	B	66	62	No	64	No	No	2
637-1	B	66	57	No	61	No	No	4
638-2	B	66	60	No	63	No	No	3
639-3	B	66	62	No	64	No	No	2
640-1	B	66	57	No	61	No	No	4
641-2	B	66	60	No	63	No	No	3
642-3	B	66	62	No	65	No	No	3
643-1	B	66	57	No	61	No	No	4
644-2	B	66	61	No	63	No	No	2
645-3	B	66	62	No	65	No	No	3
646-1	B	66	49	No	51	No	No	2
647-2	B	66	52	No	53	No	No	1
648-3	B	66	54	No	56	No	No	2
649-1	B	66	45	No	47	No	No	2
650-2	B	66	47	No	49	No	No	2
651-3	B	66	52	No	55	No	No	3
652-1	B	66	46	No	48	No	No	2
653-2	B	66	48	No	50	No	No	2
654-3	B	66	56	No	59	No	No	3
655-1	B	66	47	No	49	No	No	2
656-2	B	66	48	No	50	No	No	2
657-3	B	66	56	No	58	No	No	2
658-1	B	66	47	No	49	No	No	2
659-2	B	66	49	No	51	No	No	2
660-3	B	66	54	No	57	No	No	3
661-1	B	66	53	No	57	No	No	4
662-2	B	66	56	No	58	No	No	2
663-3	B	66	58	No	61	No	No	3
664	C	66	57	No	61	No	No	4
665	C	66	59	No	61	No	No	2
666-1	B	66	67	Yes	64	No	No	-3
667-2	B	66	71	Yes	67	Yes	No	-4
668-3	B	66	71	Yes	69	Yes	No	-2
669-1	B	66	67	Yes	64	No	No	-3
670-2	B	66	71	Yes	66	Yes	No	-5
671-3	B	66	71	Yes	69	Yes	No	-2
672-1	B	66	68	Yes	64	No	No	-4
673-2	B	66	71	Yes	66	Yes	No	-5
674-3	B	66	71	Yes	69	Yes	No	-2
675-1	B	66	68	Yes	64	No	No	-4
676-2	B	66	71	Yes	66	Yes	No	-5
677-3	B	66	71	Yes	68	Yes	No	-3
678-1	B	66	68	Yes	64	No	No	-4
679-2	B	66	71	Yes	66	Yes	No	-5

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
680-3	B	66	71	Yes	68	Yes	No	-3
681-1	B	66	68	Yes	64	No	No	-4
682-2	B	66	71	Yes	66	Yes	No	-5
683-3	B	66	71	Yes	68	Yes	No	-3
684-1	B	66	62	No	60	No	No	-2
685-2	B	66	65	No	63	No	No	-2
686-3	B	66	65	No	65	No	No	0
687-1	B	66	55	No	54	No	No	-1
688-2	B	66	57	No	57	No	No	0
689-3	B	66	59	No	61	No	No	2
690-1	B	66	54	No	53	No	No	-1
691-2	B	66	55	No	55	No	No	0
692-3	B	66	58	No	60	No	No	2
693-1	B	66	52	No	52	No	No	0
694-2	B	66	54	No	54	No	No	0
695-3	B	66	57	No	60	No	No	3
696-1	B	66	53	No	52	No	No	-1
697-2	B	66	54	No	54	No	No	0
698-3	B	66	57	No	60	No	No	3
699-1	B	66	55	No	52	No	No	-3
700-2	B	66	58	No	55	No	No	-3
701-3	B	66	59	No	60	No	No	1
702-1	B	66	67	Yes	64	No	No	-3
703-2	B	66	68	Yes	66	Yes	No	-2
704-3	B	66	69	Yes	68	Yes	No	-1
705-1	B	66	63	No	61	No	No	-2
706-2	B	66	65	No	63	No	No	-2
707-3	B	66	65	No	65	No	No	0
708-1	B	66	61	No	60	No	No	-1
709-2	B	66	63	No	62	No	No	-1
710-3	B	66	64	No	64	No	No	0
711-1	B	66	60	No	60	No	No	0
712-2	B	66	62	No	61	No	No	-1
713-3	B	66	63	No	64	No	No	1
714-1	B	66	59	No	59	No	No	0
715-2	B	66	61	No	61	No	No	0
716-3	B	66	62	No	64	No	No	2
717-1	B	66	58	No	60	No	No	2
718-2	B	66	60	No	62	No	No	2
719-3	B	66	61	No	64	No	No	3
720-1	B	66	67	Yes	65	No	No	-2
721-2	B	66	68	Yes	68	Yes	No	0
722-3	B	66	69	Yes	68	Yes	No	-1
723-1	B	66	64	No	63	No	No	-1
724-2	B	66	65	No	65	No	No	0
725-3	B	66	65	No	66	Yes	No	1

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
726-1	B	66	62	No	62	No	No	0
727-2	B	66	63	No	64	No	No	1
728-3	B	66	64	No	65	No	No	1
729-1	B	66	61	No	62	No	No	1
730-2	B	66	62	No	63	No	No	1
731-3	B	66	63	No	64	No	No	1
732-1	B	66	60	No	61	No	No	1
733-2	B	66	61	No	63	No	No	2
734-3	B	66	62	No	64	No	No	2
735-1	B	66	59	No	60	No	No	1
736-2	B	66	61	No	62	No	No	1
737-3	B	66	61	No	64	No	No	3
738	D	51	40	No	39	No	No	-1
739	B	66	68	Yes	NA ^b	—	—	—
740	B	66	70	Yes	NA ^b	—	—	—
741-3	B	66	61	No	61	No	No	0
742-4	B	66	61	No	62	No	No	1
743-5	B	66	62	No	63	No	No	1
744-3	B	66	63	No	63	No	No	0
745-4	B	66	64	No	64	No	No	0
746-5	B	66	64	No	65	No	No	1
747-3	B	66	65	No	65	No	No	0
748-4	B	66	65	No	66	Yes	No	1
749-5	B	66	66	Yes	66	Yes	No	0
750-3	B	66	65	No	65	No	No	0
751-4	B	66	65	No	66	Yes	No	1
752-5	B	66	66	Yes	66	Yes	No	0
753-3	B	66	65	No	65	No	No	0
754-4	B	66	65	No	66	Yes	No	1
755-5	B	66	66	Yes	66	Yes	No	0
756-3	B	66	65	No	65	No	No	0
757-4	B	66	65	No	66	Yes	No	1
758-5	B	66	66	Yes	66	Yes	No	0
759-3	B	66	44	No	47	No	No	3
760-4	B	66	44	No	48	No	No	4
761-5	B	66	46	No	50	No	No	4
762-3	B	66	45	No	48	No	No	3
763-4	B	66	46	No	50	No	No	4
764-5	B	66	48	No	51	No	No	3
765-3	B	66	53	No	53	No	No	0
766-4	B	66	53	No	54	No	No	1
767-5	B	66	54	No	55	No	No	1
768-3	B	66	59	No	59	No	No	0
769-4	B	66	60	No	60	No	No	0
770-5	B	66	60	No	61	No	No	1
771-3	B	66	65	No	65	No	No	0

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
772-4	B	66	66	Yes	66	Yes	No	0
773-5	B	66	66	Yes	66	Yes	No	0
774-3	B	66	65	No	65	No	No	0
775-4	B	66	66	Yes	66	Yes	No	0
776-5	B	66	66	Yes	66	Yes	No	0
777-3	B	66	65	No	65	No	No	0
778-4	B	66	65	No	66	Yes	No	1
779-5	B	66	66	Yes	66	Yes	No	0
780-3	B	66	65	No	65	No	No	0
781-4	B	66	66	Yes	66	Yes	No	0
782-5	B	66	66	Yes	66	Yes	No	0
783-3	B	66	64	No	64	No	No	0
784-4	B	66	65	No	65	No	No	0
785-5	B	66	65	No	66	Yes	No	1
786-3	B	66	60	No	61	No	No	1
787-4	B	66	61	No	62	No	No	1
788-5	B	66	62	No	63	No	No	1
789-3	B	66	51	No	52	No	No	1
790-4	B	66	52	No	53	No	No	1
791-5	B	66	55	No	55	No	No	0
792-3	B	66	44	No	46	No	No	2
793-4	B	66	44	No	47	No	No	3
794-5	B	66	46	No	49	No	No	3
795-3	B	66	44	No	46	No	No	2
796-4	B	66	44	No	47	No	No	3
797-5	B	66	47	No	49	No	No	2
798-3	B	66	54	No	54	No	No	0
799-4	B	66	54	No	55	No	No	1
800-5	B	66	55	No	56	No	No	1
801	E	71	65	No	64	No	No	-1
802	E	71	65	No	63	No	No	-2
803	E	71	68	No	67	No	No	-1
804-3	B	66	59	No	59	No	No	0
805-4	B	66	60	No	60	No	No	0
806-5	B	66	60	No	61	No	No	1
807-3	B	66	61	No	60	No	No	-1
808-4	B	66	61	No	61	No	No	0
809-5	B	66	61	No	62	No	No	1
810-3	B	66	62	No	62	No	No	0
811-4	B	66	63	No	63	No	No	0
812-5	B	66	63	No	64	No	No	1
813-3	B	66	64	No	64	No	No	0
814-4	B	66	65	No	65	No	No	0
815-5	B	66	65	No	66	Yes	No	1
816-3	B	66	64	No	64	No	No	0
817-4	B	66	66	Yes	66	Yes	No	0

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
818-5	B	66	66	Yes	67	Yes	No	1
819-3	B	66	64	No	64	No	No	0
820-4	B	66	65	No	65	No	No	0
821-5	B	66	65	No	66	Yes	No	1
822-3	B	66	61	No	61	No	No	0
823-4	B	66	62	No	63	No	No	1
824-5	B	66	63	No	64	No	No	1
825-3	B	66	59	No	59	No	No	0
826-4	B	66	60	No	61	No	No	1
827-5	B	66	61	No	62	No	No	1
828-3	B	66	59	No	59	No	No	0
829-4	B	66	60	No	61	No	No	1
830-5	B	66	62	No	62	No	No	0
831-3	B	66	60	No	60	No	No	0
832-4	B	66	61	No	62	No	No	1
833-5	B	66	62	No	63	No	No	1
834-3	B	66	60	No	60	No	No	0
835-4	B	66	61	No	62	No	No	1
836-5	B	66	62	No	63	No	No	1
837-3	B	66	60	No	60	No	No	0
838-4	B	66	61	No	62	No	No	1
839-5	B	66	62	No	63	No	No	1
840-3	B	66	60	No	60	No	No	0
841-4	B	66	61	No	62	No	No	1
842-5	B	66	62	No	63	No	No	1
843-3	B	66	60	No	60	No	No	0
844-4	B	66	61	No	61	No	No	0
845-5	B	66	62	No	62	No	No	0
846-3	B	66	60	No	60	No	No	0
847-4	B	66	61	No	62	No	No	1
848-5	B	66	62	No	62	No	No	0
849-3	B	66	61	No	61	No	No	0
850-4	B	66	62	No	63	No	No	1
851-5	B	66	63	No	64	No	No	1
852-3	B	66	63	No	63	No	No	0
853-4	B	66	65	No	65	No	No	0
854-5	B	66	65	No	66	Yes	No	1
855-3	B	66	64	No	65	No	No	1
856-4	B	66	66	Yes	66	Yes	No	0
857-5	B	66	66	Yes	67	Yes	No	1
858-3	B	66	63	No	63	No	No	0
859-4	B	66	64	No	64	No	No	0
860-5	B	66	64	No	65	No	No	1
861-3	B	66	61	No	61	No	No	0
862-4	B	66	62	No	62	No	No	0
863-5	B	66	63	No	63	No	No	0

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
864-3	B	66	60	No	60	No	No	0
865-4	B	66	61	No	61	No	No	0
866-5	B	66	62	No	62	No	No	0
867-3	B	66	60	No	59	No	No	-1
868-4	B	66	60	No	60	No	No	0
869-5	B	66	61	No	61	No	No	0
870-3	B	66	42	No	43	No	No	1
871-4	B	66	44	No	46	No	No	2
872-5	B	66	46	No	48	No	No	2
873-3	B	66	42	No	43	No	No	1
874-4	B	66	44	No	45	No	No	1
875-5	B	66	45	No	47	No	No	2
876-3	B	66	42	No	43	No	No	1
877-4	B	66	43	No	45	No	No	2
878-5	B	66	45	No	47	No	No	2
879-3	B	66	41	No	43	No	No	2
880-4	B	66	43	No	44	No	No	1
881-5	B	66	45	No	47	No	No	2
882-3	B	66	41	No	43	No	No	2
883-4	B	66	43	No	45	No	No	2
884-5	B	66	45	No	46	No	No	1
885-3	B	66	41	No	43	No	No	2
886-4	B	66	43	No	45	No	No	2
887-5	B	66	45	No	46	No	No	1
888-3	B	66	41	No	43	No	No	2
889-4	B	66	43	No	45	No	No	2
890-5	B	66	45	No	46	No	No	1
891-3	B	66	42	No	43	No	No	1
892-4	B	66	43	No	45	No	No	2
893-5	B	66	45	No	47	No	No	2
894-3	B	66	44	No	45	No	No	1
895-4	B	66	46	No	47	No	No	1
896-5	B	66	47	No	48	No	No	1
897-3	B	66	51	No	51	No	No	0
898-4	B	66	52	No	52	No	No	0
899-5	B	66	52	No	53	No	No	1
900-3	B	66	56	No	55	No	No	-1
901-4	B	66	57	No	56	No	No	-1
902-5	B	66	57	No	57	No	No	0
903-2	B	66	64	No	64	No	No	0
904-3	B	66	65	No	66	Yes	No	1
905-4	B	66	66	Yes	67	Yes	No	1
906-5	B	66	66	Yes	67	Yes	No	1
907-2	B	66	64	No	64	No	No	0
908-3	B	66	65	No	66	Yes	No	1
909-4	B	66	65	No	67	Yes	No	2

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
910-5	B	66	66	Yes	67	Yes	No	1
911-2	B	66	49	No	49	No	No	0
912-3	B	66	49	No	50	No	No	1
913-4	B	66	50	No	51	No	No	1
914-5	B	66	52	No	53	No	No	1
915-2	B	66	44	No	45	No	No	1
916-3	B	66	44	No	45	No	No	1
917-4	B	66	46	No	47	No	No	1
918-5	B	66	49	No	50	No	No	1
919-2	B	66	64	No	64	No	No	0
920-3	B	66	65	No	66	Yes	No	1
921-4	B	66	65	No	67	Yes	No	2
922-5	B	66	66	Yes	67	Yes	No	1
923-2	B	66	64	No	64	No	No	0
924-3	B	66	65	No	66	Yes	No	1
925-4	B	66	65	No	67	Yes	No	2
926-5	B	66	66	Yes	67	Yes	No	1
927-2	B	66	44	No	45	No	No	1
928-3	B	66	44	No	45	No	No	1
929-4	B	66	47	No	48	No	No	1
930-5	B	66	49	No	50	No	No	1
931-2	B	66	43	No	45	No	No	2
932-3	B	66	44	No	45	No	No	1
933-4	B	66	46	No	48	No	No	2
934-5	B	66	48	No	50	No	No	2
935-2	B	66	63	No	64	No	No	1
936-3	B	66	65	No	66	Yes	No	1
937-4	B	66	65	No	67	Yes	No	2
938-5	B	66	66	Yes	67	Yes	No	1
939-2	B	66	63	No	63	No	No	0
940-3	B	66	65	No	66	Yes	No	1
941-4	B	66	65	No	67	Yes	No	2
942-5	B	66	66	Yes	67	Yes	No	1
943-2	B	66	44	No	45	No	No	1
944-3	B	66	42	No	44	No	No	2
945-4	B	66	46	No	47	No	No	1
946-5	B	66	47	No	49	No	No	2
947-2	B	66	44	No	45	No	No	1
948-3	B	66	43	No	44	No	No	1
949-4	B	66	45	No	47	No	No	2
950-5	B	66	47	No	49	No	No	2
951-2	B	66	62	No	62	No	No	0
952-3	B	66	65	No	66	Yes	No	1
953-4	B	66	65	No	67	Yes	No	2
954-5	B	66	66	Yes	67	Yes	No	1
955-2	B	66	62	No	63	No	No	1

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
956-3	B	66	65	No	66	Yes	No	1
957-4	B	66	65	No	67	Yes	No	2
958-5	B	66	66	Yes	67	Yes	No	1
959-2	B	66	44	No	45	No	No	1
960-3	B	66	42	No	44	No	No	2
961-4	B	66	45	No	47	No	No	2
962-5	B	66	47	No	49	No	No	2
963-2	B	66	44	No	45	No	No	1
964-3	B	66	42	No	44	No	No	2
965-4	B	66	46	No	47	No	No	1
966-5	B	66	47	No	49	No	No	2
967-2	B	66	63	No	64	No	No	1
968-3	B	66	65	No	66	Yes	No	1
969-4	B	66	65	No	67	Yes	No	2
970-5	B	66	66	Yes	67	Yes	No	1
971-2	B	66	63	No	64	No	No	1
972-3	B	66	65	No	66	Yes	No	1
973-4	B	66	65	No	67	Yes	No	2
974-5	B	66	66	Yes	67	Yes	No	1
975-2	B	66	44	No	45	No	No	1
976-3	B	66	42	No	44	No	No	2
977-4	B	66	46	No	48	No	No	2
978-5	B	66	48	No	49	No	No	1
979-2	B	66	49	No	50	No	No	1
980-3	B	66	52	No	54	No	No	2
981-4	B	66	53	No	55	No	No	2
982-5	B	66	54	No	55	No	No	1
983	E	71	66	No	67	No	No	1
984	E	71	66	No	67	No	No	1
985	C	66	50	No	51	No	No	1
986-2	B	66	52	No	53	No	No	1
987-3	B	66	55	No	56	No	No	1
988-4	B	66	56	No	58	No	No	2
989-5	B	66	57	No	58	No	No	1
990-2	B	66	55	No	56	No	No	1
991-3	B	66	56	No	57	No	No	1
992-4	B	66	57	No	58	No	No	1
993-5	B	66	57	No	59	No	No	2
994-2	B	66	55	No	56	No	No	1
995-3	B	66	57	No	58	No	No	1
996-4	B	66	58	No	59	No	No	1
997-5	B	66	58	No	60	No	No	2
998-2	B	66	56	No	57	No	No	1
999-3	B	66	58	No	59	No	No	1
1000-4	B	66	59	No	60	No	No	1
1001-5	B	66	59	No	61	No	No	2

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
1002-2	B	66	58	No	59	No	No	1
1003-3	B	66	59	No	60	No	No	1
1004-4	B	66	60	No	61	No	No	1
1005-5	B	66	60	No	62	No	No	2
1006-2	B	66	59	No	60	No	No	1
1007-3	B	66	60	No	61	No	No	1
1008-4	B	66	61	No	62	No	No	1
1009-5	B	66	61	No	63	No	No	2
1010	B	66	72	Yes	NA ^b	—	—	—
1011	B	66	65	No	66	Yes	No	1
1012	B	66	71	Yes	NA ^b	—	—	—
1013	B	66	59	No	59	No	No	0
1014	B	66	56	No	58	No	No	2
1015	B	66	57	No	59	No	No	2
1016	B	66	57	No	59	No	No	2
1017	B	66	57	No	59	No	No	2
1018	B	66	57	No	59	No	No	2
1019	B	66	57	No	59	No	No	2
1020	B	66	57	No	59	No	No	2
1021	B	66	57	No	58	No	No	1
1022	B	66	57	No	58	No	No	1
1023	B	66	57	No	58	No	No	1
1024	B	66	57	No	58	No	No	1
1025	B	66	57	No	58	No	No	1
1026	B	66	57	No	58	No	No	1
1027	B	66	57	No	58	No	No	1
1028	B	66	62	No	62	No	No	0
1029	B	66	61	No	62	No	No	1
1030	B	66	61	No	62	No	No	1
1031	B	66	61	No	61	No	No	0
1032	B	66	61	No	61	No	No	0
1033	B	66	61	No	61	No	No	0
1034	B	66	61	No	61	No	No	0
1035	B	66	61	No	61	No	No	0
1036	B	66	61	No	61	No	No	0
1037	B	66	61	No	61	No	No	0
1038	B	66	61	No	61	No	No	0
1039	B	66	61	No	61	No	No	0
1040	B	66	60	No	61	No	No	1
1041	B	66	60	No	61	No	No	1
1042	B	66	60	No	61	No	No	1
1043	B	66	60	No	61	No	No	1
1044	B	66	60	No	61	No	No	1
1045	B	66	60	No	61	No	No	1
1046	B	66	60	No	60	No	No	0
1047	B	66	60	No	60	No	No	0

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
1048	B	66	60	No	60	No	No	0
1049	B	66	59	No	60	No	No	1
1050	B	66	58	No	59	No	No	1
1051	B	66	57	No	58	No	No	1
1052	B	66	56	No	57	No	No	1
1053	B	66	55	No	56	No	No	1
1054	B	66	54	No	55	No	No	1
1055	B	66	54	No	55	No	No	1
1056	B	66	53	No	54	No	No	1
1057	B	66	54	No	55	No	No	1
1058	B	66	52	No	53	No	No	1
1059	B	66	52	No	54	No	No	2
1060	B	66	69	Yes	67	Yes	No	-2
1061	B	66	54	No	55	No	No	1
1062	B	66	59	No	58	No	No	-1
1063	B	66	62	No	60	No	No	-2
1064	B	66	63	No	61	No	No	-2
1065	B	66	63	No	61	No	No	-2
1066	B	66	62	No	60	No	No	-2
1067	B	66	53	No	53	No	No	0
1068	B	66	64	No	62	No	No	-2
1069	B	66	64	No	62	No	No	-2
1070	B	66	64	No	62	No	No	-2
1071	B	66	64	No	62	No	No	-2
1072	B	66	67	Yes	65	No	No	-2
1073	B	66	65	No	63	No	No	-2
1074	B	66	63	No	62	No	No	-1
1075	B	66	62	No	61	No	No	-1
1076	B	66	60	No	59	No	No	-1
1077	B	66	55	No	55	No	No	0
1078	B	66	65	No	64	No	No	-1
1079	B	66	63	No	61	No	No	-2
1080	B	66	60	No	59	No	No	-1
1081	B	66	58	No	57	No	No	-1
1082	B	66	56	No	56	No	No	0
1083	B	66	53	No	54	No	No	1
1084	B	66	52	No	55	No	No	3
1085	B	66	63	No	62	No	No	-1
1086	B	66	59	No	59	No	No	0
1087	B	66	57	No	58	No	No	1
1088	B	66	56	No	57	No	No	1
1089	B	66	54	No	56	No	No	2
1090	B	66	61	No	66	Yes	No	5
1091	B	66	55	No	64	No	No	9
1092	B	66	53	No	65	No	Yes	12
1093	B	66	50	No	65	No	Yes	15

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
1094	B	66	48	No	65	No	Yes	17
1095	B	66	65	No	66	Yes	No	1
1096	B	66	64	No	66	Yes	No	2
1097	B	66	63	No	65	No	No	2
1098	B	66	62	No	65	No	No	3
1099	B	66	62	No	65	No	No	3
1100	B	66	61	No	64	No	No	3
1101	B	66	58	No	59	No	No	1
1102	B	66	55	No	56	No	No	1
1103	B	66	53	No	54	No	No	1
1104	B	66	52	No	53	No	No	1
1105	B	66	51	No	52	No	No	1
1106	B	66	49	No	51	No	No	2
1107	B	66	48	No	51	No	No	3
1108	B	66	48	No	52	No	No	4
1109	B	66	46	No	48	No	No	2
1110	B	66	60	No	60	No	No	0
1111	B	66	58	No	59	No	No	1
1112	B	66	56	No	57	No	No	1
1113	B	66	54	No	56	No	No	2
1114	B	66	52	No	54	No	No	2
1115	B	66	59	No	60	No	No	1
1116	B	66	58	No	58	No	No	0
1117	B	66	56	No	57	No	No	1
1118	B	66	55	No	56	No	No	1
1119	B	66	53	No	55	No	No	2
1120	B	66	51	No	53	No	No	2
1121	B	66	48	No	50	No	No	2
1122	B	66	45	No	47	No	No	2
1123	B	66	47	No	49	No	No	2
1124	B	66	48	No	50	No	No	2
1125	B	66	49	No	51	No	No	2
1126	B	66	50	No	52	No	No	2
1127	B	66	48	No	51	No	No	3
1128	B	66	36	No	38	No	No	2
1129	B	66	46	No	48	No	No	2
1130	B	66	45	No	49	No	No	4
1131	B	66	41	No	46	No	No	5
1132	B	66	40	No	44	No	No	4
1133	B	66	37	No	41	No	No	4
1134	B	66	40	No	44	No	No	4
1135	B	66	36	No	37	No	No	1
1136	B	66	34	No	36	No	No	2
1137	B	66	35	No	36	No	No	1
1138	B	66	46	No	49	No	No	3
1139	B	66	33	No	35	No	No	2

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
1140	B	66	32	No	35	No	No	3
1141	B	66	33	No	35	No	No	2
1142	B	66	33	No	40	No	No	7
1143	B	66	60	No	61	No	No	1
1144	B	66	58	No	58	No	No	0
1145	B	66	53	No	54	No	No	1
1146	B	66	49	No	50	No	No	1
1147	B	66	48	No	49	No	No	1
1148	B	66	47	No	49	No	No	2
1149	B	66	46	No	48	No	No	2
1150	B	66	46	No	48	No	No	2
1151	B	66	46	No	48	No	No	2
1152	B	66	45	No	47	No	No	2
1153	B	66	43	No	46	No	No	3
1154	B	66	41	No	43	No	No	2
1155	B	66	39	No	41	No	No	2
1156	B	66	37	No	40	No	No	3
1157	B	66	35	No	37	No	No	2
1158	B	66	34	No	36	No	No	2
1159	B	66	38	No	39	No	No	1
1160	B	66	58	No	59	No	No	1
1161	B	66	56	No	57	No	No	1
1162	B	66	55	No	56	No	No	1
1163	B	66	53	No	54	No	No	1
1164	B	66	52	No	52	No	No	0
1165	B	66	49	No	50	No	No	1
1166	B	66	47	No	48	No	No	1
1167	B	66	46	No	47	No	No	1
1168	B	66	44	No	46	No	No	2
1169	B	66	43	No	45	No	No	2
1170	B	66	40	No	43	No	No	3
1171	B	66	39	No	42	No	No	3
1172	B	66	39	No	42	No	No	3
1173	B	66	39	No	42	No	No	3
1174	E	71	72	Yes	69	No	No	-3
1175	B	66	72	Yes	69	Yes	No	-3
1176	B	66	59	No	60	No	No	1
1177	B	66	59	No	60	No	No	1
1178	B	66	59	No	60	No	No	1
1179	B	66	59	No	60	No	No	1
1180	B	66	59	No	60	No	No	1
1181	B	66	59	No	60	No	No	1
1182	B	66	59	No	61	No	No	2
1183	B	66	59	No	61	No	No	2
1184	B	66	59	No	61	No	No	2
1185	B	66	59	No	61	No	No	2

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
1186	B	66	59	No	61	No	No	2
1187	B	66	59	No	61	No	No	2
1188	B	66	59	No	61	No	No	2
1189	B	66	59	No	61	No	No	2
1190	B	66	50	No	52	No	No	2
1191	B	66	40	No	42	No	No	2
1192	B	66	40	No	42	No	No	2
1193	B	66	40	No	42	No	No	2
1194	B	66	40	No	41	No	No	1
1195	B	66	51	No	52	No	No	1
1196	B	66	41	No	45	No	No	4
1197	B	66	39	No	41	No	No	2
1198	B	66	40	No	41	No	No	1
1199	B	66	47	No	48	No	No	1
1200	B	66	43	No	45	No	No	2
1201	B	66	43	No	44	No	No	1
1202	B	66	45	No	46	No	No	1
1203	B	66	52	No	53	No	No	1
1204	B	66	36	No	37	No	No	1
1205	B	66	36	No	38	No	No	2
1206	B	66	36	No	38	No	No	2
1207	B	66	36	No	37	No	No	1
1208	B	66	36	No	37	No	No	1
1209	B	66	40	No	42	No	No	2
1210	B	66	37	No	38	No	No	1
1211	B	66	37	No	39	No	No	2
1212	B	66	38	No	39	No	No	1
1213	B	66	43	No	45	No	No	2
1214	B	66	40	No	42	No	No	2
1215	B	66	42	No	44	No	No	2
1216	B	66	47	No	49	No	No	2
1217	B	66	52	No	54	No	No	2
1218	B	66	42	No	45	No	No	3
1219	B	66	34	No	36	No	No	2
1220	B	66	34	No	36	No	No	2
1221	B	66	34	No	35	No	No	1
1222	B	66	34	No	36	No	No	2
1223	B	66	35	No	36	No	No	1
1224	B	66	36	No	37	No	No	1
1225	B	66	36	No	37	No	No	1
1226	B	66	36	No	38	No	No	2
1227	B	66	37	No	38	No	No	1
1228	B	66	41	No	42	No	No	1
1229	B	66	42	No	43	No	No	1
1230	B	66	44	No	46	No	No	2
1231	B	66	48	No	50	No	No	2

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
1232	B	66	69	Yes	NA ^b	—	—	—
1233	B	66	72	Yes	NA ^b	—	—	—
1234	B	66	70	Yes	NA ^b	—	—	—
1235	B	66	59	No	59	No	No	0
1236	E	71	60	No	60	No	No	0
1237	D	51	40	No	40	No	No	0
1238	B	66	63	No	65	No	No	2
1239	E	71	67	No	66	No	No	-1
1240	B	66	72	Yes	72	Yes	No	0
1241	B	66	58	No	68	Yes	Yes	10
1242-2	B	66	59	No	58	No	No	-1
1243-3	B	66	60	No	61	No	No	1
1244-4	B	66	61	No	62	No	No	1
1245-2	B	66	56	No	55	No	No	-1
1246-3	B	66	58	No	59	No	No	1
1247-4	B	66	59	No	61	No	No	2
1248-2	B	66	58	No	58	No	No	0
1249-3	B	66	59	No	59	No	No	0
1250-4	B	66	60	No	60	No	No	0
1251-2	B	66	53	No	52	No	No	-1
1252-3	B	66	55	No	56	No	No	1
1253-4	B	66	57	No	59	No	No	2
1254	E	71	69	No	67	No	No	-2
1255	E	71	68	No	64	No	No	-4
1256	E	71	69	No	NA ^b	—	—	—
1257	E	71	68	No	NA ^b	—	—	—
1258	E	71	60	No	59	No	No	-1
1259	E	71	59	No	58	No	No	-1
1260	E	71	55	No	56	No	No	1
1261-1	B	66	52	No	67	Yes	Yes	15
1262-2	B	66	56	No	71	Yes	Yes	15
1263-3	B	66	57	No	72	Yes	Yes	15
1264-1	B	66	51	No	67	Yes	Yes	16
1265-2	B	66	55	No	70	Yes	Yes	15
1266-3	B	66	56	No	72	Yes	Yes	16
1267-1	B	66	49	No	52	No	No	3
1268-2	B	66	54	No	55	No	No	1
1269-3	B	66	55	No	56	No	No	1
1270-1	B	66	48	No	51	No	No	3
1271-2	B	66	52	No	53	No	No	1
1272-3	B	66	53	No	54	No	No	1
1273-1	B	66	42	No	64	No	Yes	22
1274-2	B	66	43	No	67	Yes	Yes	24
1275-3	B	66	44	No	69	Yes	Yes	25
1276-1	B	66	42	No	62	No	Yes	20
1277-2	B	66	43	No	66	Yes	Yes	23

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
1278-3	B	66	45	No	67	Yes	Yes	22
1279-1	B	66	43	No	61	No	Yes	18
1280-2	B	66	45	No	64	No	Yes	19
1281-3	B	66	46	No	66	Yes	Yes	20
1282-1	B	66	43	No	60	No	Yes	17
1283-2	B	66	46	No	63	No	Yes	17
1284-3	B	66	48	No	65	No	Yes	17
1285-1	B	66	47	No	56	No	No	9
1286-2	B	66	51	No	59	No	No	8
1287-3	B	66	53	No	60	No	No	7
1288-1	B	66	47	No	56	No	No	9
1289-2	B	66	51	No	59	No	No	8
1290-3	B	66	53	No	61	No	No	8
1291-1	B	66	47	No	58	No	Yes	11
1292-2	B	66	51	No	61	No	Yes	10
1293-3	B	66	52	No	63	No	Yes	11
1294-1	B	66	46	No	62	No	Yes	16
1295-2	B	66	48	No	65	No	Yes	17
1296-3	B	66	50	No	67	Yes	Yes	17
1297-1	B	66	48	No	57	No	No	9
1298-2	B	66	52	No	62	No	Yes	10
1299-1	B	66	53	No	58	No	No	5
1300-2	B	66	55	No	62	No	No	7
1301-1	B	66	54	No	57	No	No	3
1302-2	B	66	56	No	59	No	No	3
1303-1	B	66	51	No	56	No	No	5
1304-2	B	66	54	No	58	No	No	4
1305	C	66	50	No	56	No	No	6
1306-1	B	66	60	No	61	No	No	1
1307-2	B	66	62	No	63	No	No	1
1308-1	B	66	56	No	58	No	No	2
1309-2	B	66	59	No	61	No	No	2
1310-1	B	66	54	No	54	No	No	0
1311-2	B	66	57	No	57	No	No	0
1312-1	B	66	59	No	60	No	No	1
1313-2	B	66	61	No	62	No	No	1
1315-3	B	66	60	No	65	No	No	5
1314-1	B	66	57	No	61	No	No	4
1315-2	B	66	59	No	63	No	No	4
1317-1	B	66	56	No	61	No	No	5
1318-2	B	66	59	No	64	No	No	5
1319-3	B	66	60	No	66	Yes	No	6
1320-1	B	66	55	No	62	No	No	7
1321-2	B	66	58	No	65	No	No	7
1322-3	B	66	59	No	67	Yes	No	8
1323-1	B	66	55	No	63	No	No	8

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
1324-2	B	66	58	No	66	Yes	No	8
1325-3	B	66	59	No	68	Yes	No	9
1326-1	B	66	46	No	50	No	No	4
1327-2	B	66	48	No	52	No	No	4
1328-3	B	66	49	No	53	No	No	4
1329-1	B	66	46	No	50	No	No	4
1330-2	B	66	48	No	52	No	No	4
1331-3	B	66	50	No	53	No	No	3
1332-1	B	66	47	No	50	No	No	3
1333-2	B	66	50	No	53	No	No	3
1334-3	B	66	51	No	54	No	No	3
1335-1	B	66	48	No	50	No	No	2
1336-2	B	66	51	No	53	No	No	2
1337-3	B	66	52	No	55	No	No	3
1338	C	66	48	No	63	No	Yes	15
1339	C	66	45	No	65	No	Yes	20
1340	C	66	41	No	58	No	Yes	17
1341	B	66	46	No	59	No	Yes	13
1342	C	66	55	No	60	No	No	5
1343	C	66	50	No	57	No	No	7
1344	B	66	43	No	61	No	Yes	18
1345	B	66	42	No	58	No	Yes	16
1346	B	66	42	No	57	No	Yes	15
1347	B	66	43	No	56	No	Yes	13
1348	B	66	44	No	55	No	Yes	11
1349	B	66	46	No	55	No	No	9
1350	B	66	42	No	50	No	No	8
1351	B	66	38	No	50	No	Yes	12
1352	B	66	38	No	51	No	Yes	13
1353	B	66	38	No	54	No	Yes	16
1354	B	66	41	No	59	No	Yes	18
1355	B	66	40	No	58	No	Yes	18
1356	B	66	40	No	58	No	Yes	18
1357	B	66	40	No	58	No	Yes	18
1358	B	66	40	No	52	No	Yes	12
1359	B	66	39	No	50	No	Yes	11
1360	B	66	39	No	50	No	Yes	11
1361	B	66	40	No	49	No	No	9
1362	B	66	45	No	61	No	Yes	16
1363	B	66	43	No	60	No	Yes	17
1364	B	66	47	No	62	No	Yes	15
1365	B	66	48	No	64	No	Yes	16
1366	B	66	41	No	63	No	Yes	22
1367	B	66	39	No	61	No	Yes	22
1368	B	66	39	No	60	No	Yes	21
1369	B	66	39	No	61	No	Yes	22

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
1370	B	66	39	No	60	No	Yes	21
1371	B	66	51	No	61	No	Yes	10
1372	B	66	49	No	59	No	Yes	10
1373	B	66	48	No	58	No	Yes	10
1374	B	66	47	No	57	No	Yes	10
1375	B	66	50	No	58	No	No	8
1376	B	66	59	No	60	No	No	1
1377	B	66	45	No	54	No	No	9
1378	B	66	44	No	60	No	Yes	16
1379	B	66	44	No	60	No	Yes	16
1380	B	66	44	No	59	No	Yes	15
1381	B	66	44	No	60	No	Yes	16
1382	B	66	44	No	60	No	Yes	16
1383	B	66	44	No	59	No	Yes	15
1384	B	66	45	No	59	No	Yes	14
1385	B	66	45	No	58	No	Yes	13
1386	B	66	45	No	58	No	Yes	13
1387	B	66	44	No	58	No	Yes	14
1388	B	66	45	No	60	No	Yes	15
1389	B	66	46	No	62	No	Yes	16
1390	B	66	49	No	64	No	Yes	15
1391	B	66	51	No	64	No	Yes	13
1392	B	66	54	No	63	No	No	9
1393	B	66	42	No	53	No	Yes	11
1394	B	66	40	No	50	No	Yes	10
1395	B	66	40	No	51	No	Yes	11
1396	B	66	41	No	50	No	No	9
1397	B	66	41	No	49	No	No	8
1398	B	66	42	No	50	No	No	8
1399	B	66	42	No	50	No	No	8
1400	B	66	42	No	49	No	No	7
1401	B	66	43	No	50	No	No	7
1402	B	66	42	No	49	No	No	7
1403	B	66	45	No	51	No	No	6
1404	B	66	43	No	49	No	No	6
1405	B	66	40	No	48	No	No	8
1406	B	66	49	No	54	No	No	5
1407	B	66	56	No	59	No	No	3
1408	B	66	59	No	62	No	No	3
1409	B	66	59	No	62	No	No	3
1410	B	66	59	No	63	No	No	4
1411	B	66	60	No	64	No	No	4
1412	B	66	48	No	51	No	No	3
1413	B	66	43	No	47	No	No	4
1414	B	66	41	No	45	No	No	4
1415	B	66	48	No	51	No	No	3

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
1416	B	66	48	No	50	No	No	2
1417	B	66	49	No	51	No	No	2
1418	B	66	50	No	53	No	No	3
1419	B	66	53	No	57	No	No	4
1420	C	66	57	No	62	No	No	5
1421	B	66	59	No	66	Yes	No	7
1422	B	66	59	No	66	Yes	No	7
1423	B	66	59	No	66	Yes	No	7
1424	B	66	58	No	64	No	No	6
1425	B	66	59	No	65	No	No	6
1426	B	66	59	No	65	No	No	6
1427	B	66	59	No	65	No	No	6
1428	B	66	58	No	64	No	No	6
1429	B	66	58	No	64	No	No	6
1430	B	66	58	No	65	No	No	7
1431	B	66	58	No	64	No	No	6
1432	B	66	58	No	64	No	No	6
1433	B	66	58	No	64	No	No	6
1434	B	66	47	No	53	No	No	6
1435	B	66	47	No	52	No	No	5
1436	B	66	47	No	52	No	No	5
1437	B	66	46	No	51	No	No	5
1438	B	66	46	No	52	No	No	6
1439	B	66	47	No	52	No	No	5
1440	B	66	49	No	53	No	No	4
1441	B	66	51	No	54	No	No	3
1442	B	66	51	No	55	No	No	4
1443	B	66	53	No	61	No	No	8
1444	B	66	45	No	49	No	No	4
1445	B	66	44	No	49	No	No	5
1446	B	66	41	No	46	No	No	5
1447	B	66	40	No	45	No	No	5
1448	B	66	40	No	44	No	No	4
1449	B	66	41	No	46	No	No	5
1450	B	66	42	No	47	No	No	5
1451	B	66	42	No	46	No	No	4
1452	B	66	41	No	46	No	No	5
1453	B	66	40	No	43	No	No	3
1454	B	66	39	No	44	No	No	5
1455	B	66	45	No	46	No	No	1
1456	B	66	52	No	58	No	No	6
1457	B	66	44	No	46	No	No	2
1458	B	66	42	No	46	No	No	4
1459	B	66	42	No	46	No	No	4
1460	B	66	42	No	45	No	No	3
1461	B	66	41	No	46	No	No	5

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
1462	B	66	45	No	46	No	No	1
1463	B	66	51	No	55	No	No	4
1464	E	71	58	No	60	No	No	2
1465	B	66	60	No	NA ^b	—	—	—
1466	B	66	60	No	62	No	No	2
1467	B	66	59	No	62	No	No	3
1468	E	71	65	No	67	No	No	2
1469	E	71	51	No	52	No	No	1
1470	E	71	59	No	58	No	No	-1
1471	E	71	65	No	69	No	No	4
1472	E	71	57	No	62	No	No	5
1473	E	71	63	No	69	No	No	6
1474	B	66	50	No	53	No	No	3
1475	B	66	55	No	61	No	No	6
1476	B	66	56	No	62	No	No	6
1477	B	66	58	No	63	No	No	5
1478	B	66	60	No	65	No	No	5
1479	B	66	60	No	60	No	No	0
1480	B	66	55	No	56	No	No	1
1481	B	66	53	No	55	No	No	2
1482	B	66	51	No	54	No	No	3
1483	B	66	51	No	53	No	No	2
1484	B	66	51	No	53	No	No	2
1485	B	66	51	No	54	No	No	3
1486	B	66	51	No	54	No	No	3
1487	B	66	51	No	55	No	No	4
1488	B	66	51	No	55	No	No	4
1489	B	66	48	No	50	No	No	2
1490	B	66	48	No	49	No	No	1
1491	B	66	46	No	48	No	No	2
1492	B	66	46	No	51	No	No	5
1493	B	66	55	No	59	No	No	4
1494	B	66	53	No	57	No	No	4
1495	B	66	48	No	49	No	No	1
1496	B	66	46	No	48	No	No	2
1497	B	66	48	No	51	No	No	3
1498	B	66	50	No	55	No	No	5
1499	B	66	53	No	57	No	No	4
1500	B	66	45	No	46	No	No	1
1501	B	66	43	No	47	No	No	4
1502	B	66	45	No	50	No	No	5
1503	B	66	51	No	55	No	No	4
1504	B	66	47	No	47	No	No	0
1505	B	66	43	No	46	No	No	3
1506	B	66	45	No	49	No	No	4
1507	B	66	51	No	55	No	No	4

Table B-1. Alternative A Build Noise Levels

Receptor ^a	Existing				With Alternative A			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level (dBA)	Existing over NAC?	Alt A Noise Level (dBA)	Alt A ≥ UDOT NAC?	Alt A ≥ 10 dBA over Existing?	Alt A Difference (dBA)
1508	B	66	46	No	46	No	No	0
1509	B	66	45	No	48	No	No	3
1510	B	66	48	No	52	No	No	4
1511	B	66	45	No	46	No	No	1
1512	B	66	44	No	46	No	No	2
1513	B	66	46	No	48	No	No	2
1514	E	71	65	No	66	No	No	1
1515	E	71	54	No	55	No	No	1

Definitions: dBA = A-weighted decibels; L_{eq}(h) = equivalent sound level over a 1-hour period; NAC = noise-abatement criterion

^a Receptors with a dash number (for example, 135-1, 136-2) are for apartments or condominiums with multiple floors. X-1 indicates a receptor modeled at the ground level, X-2 indicates a receptor modeled on the second floor, etc.

^b Alternative A noise level is not applicable (NA) because the entire parcel would be acquired.

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ALTERNATIVE A NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area Alt A





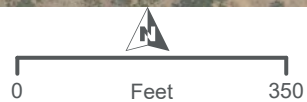
ALTERNATIVE A NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

 Noise Study Area Alt A

 Impacted

 Not Impacted





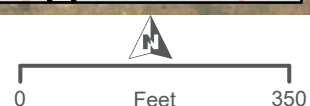
ALTERNATIVE A NOISE LEVELS

Heber Valley Corridor
**ENVIRONMENTAL
IMPACT STATEMENT**

Noise Study Area Alt A

● Impacted

● Not Impacted





ALTERNATIVE A NOISE LEVELS

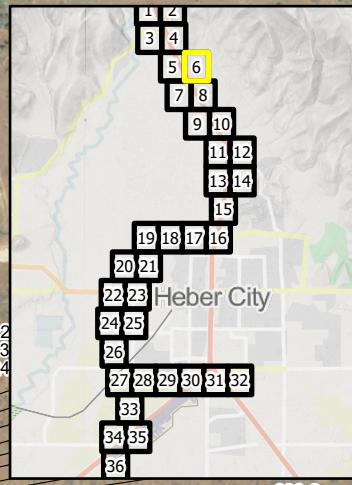
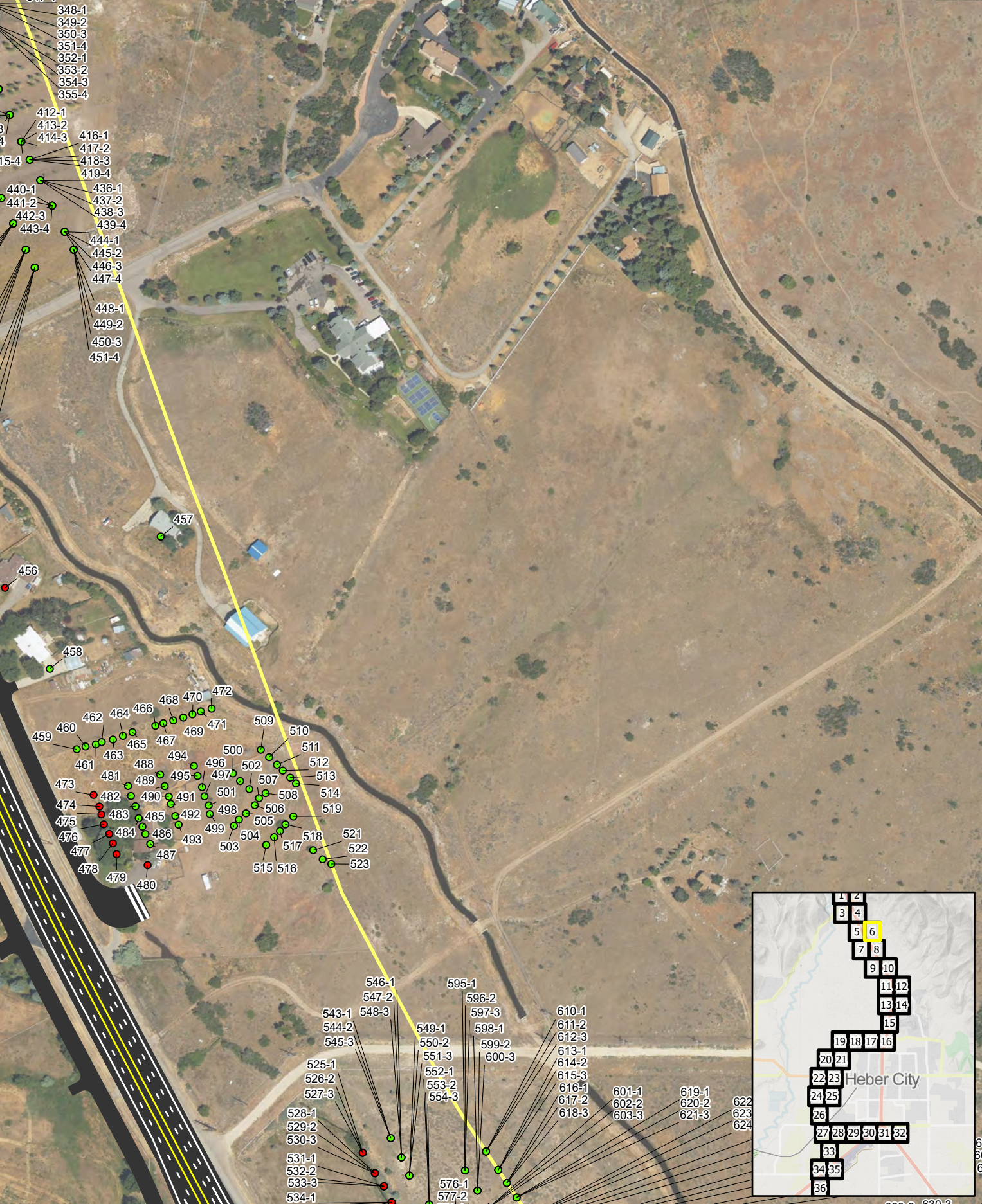
Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area Alt A

● Impacted

● Not Impacted





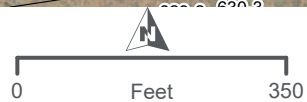
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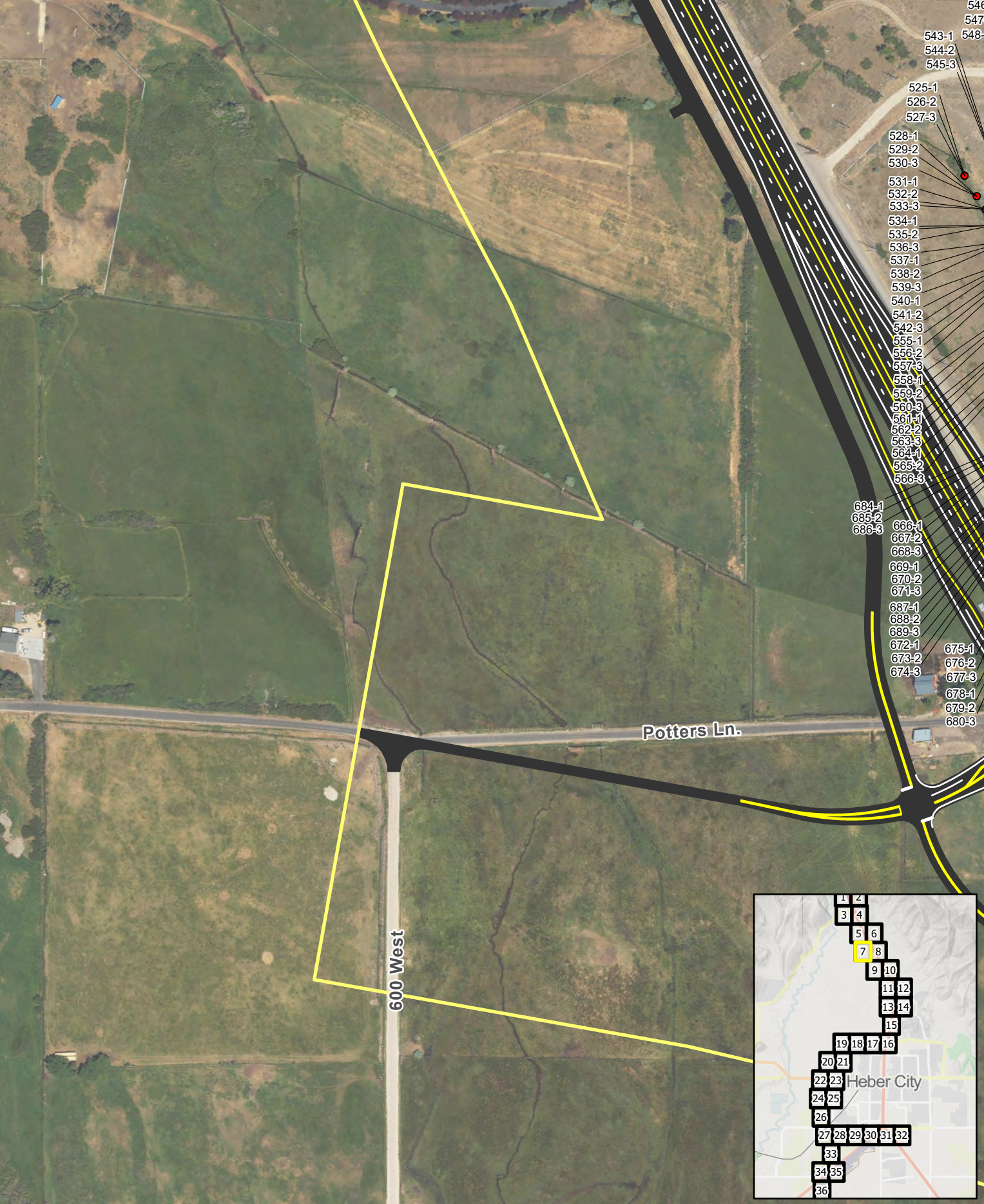
Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area Alt A

● Impacted

● Not Impacted





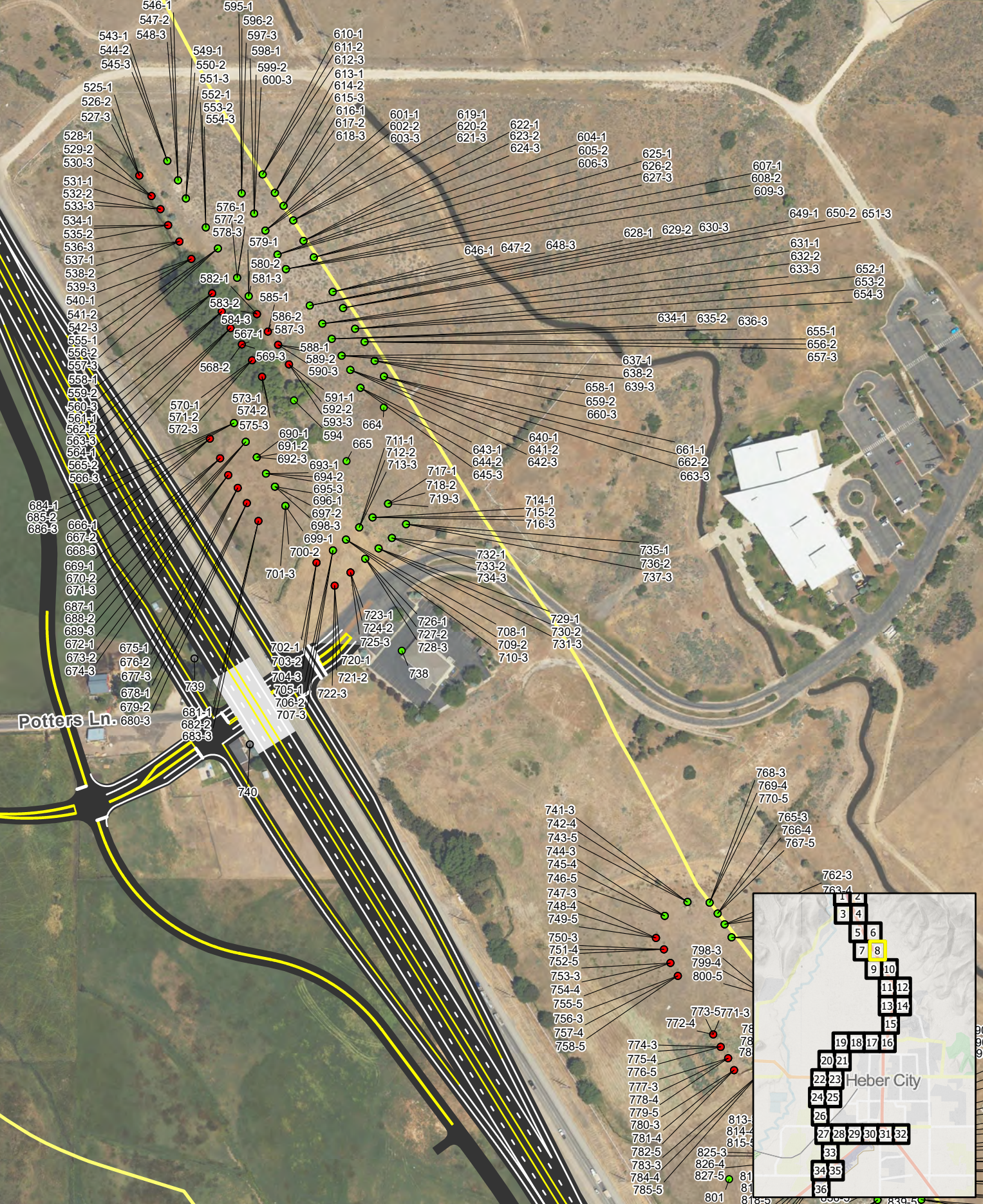
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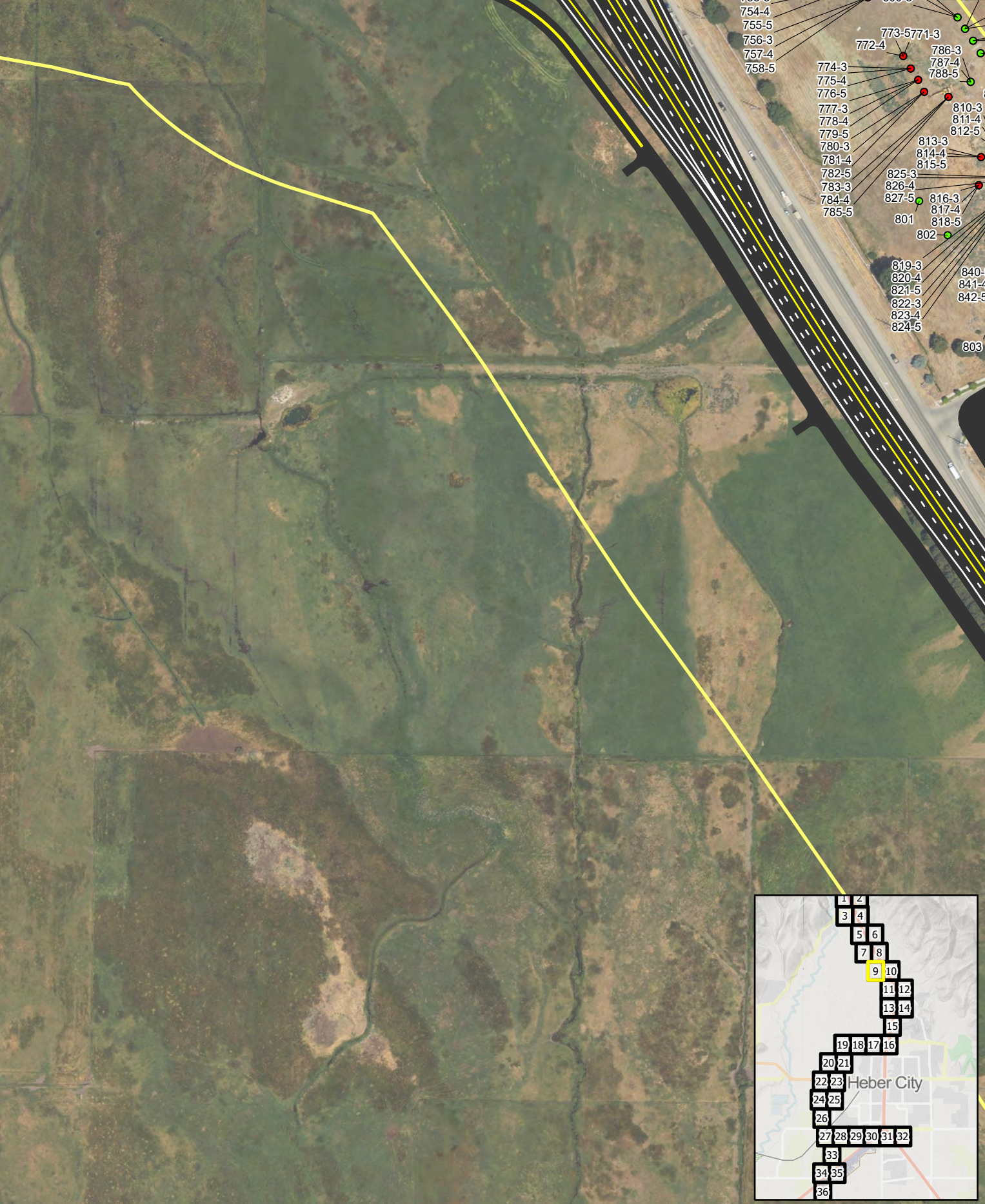
Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area Alt A

- Impacted
- Not Impacted







ALTERNATIVE A NOISE LEVELS

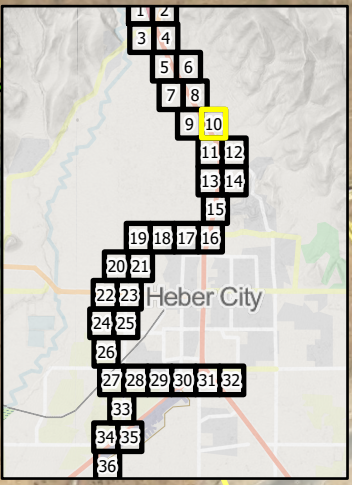
Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

 Noise Study Area Alt A

 Impacted

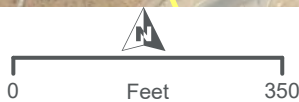
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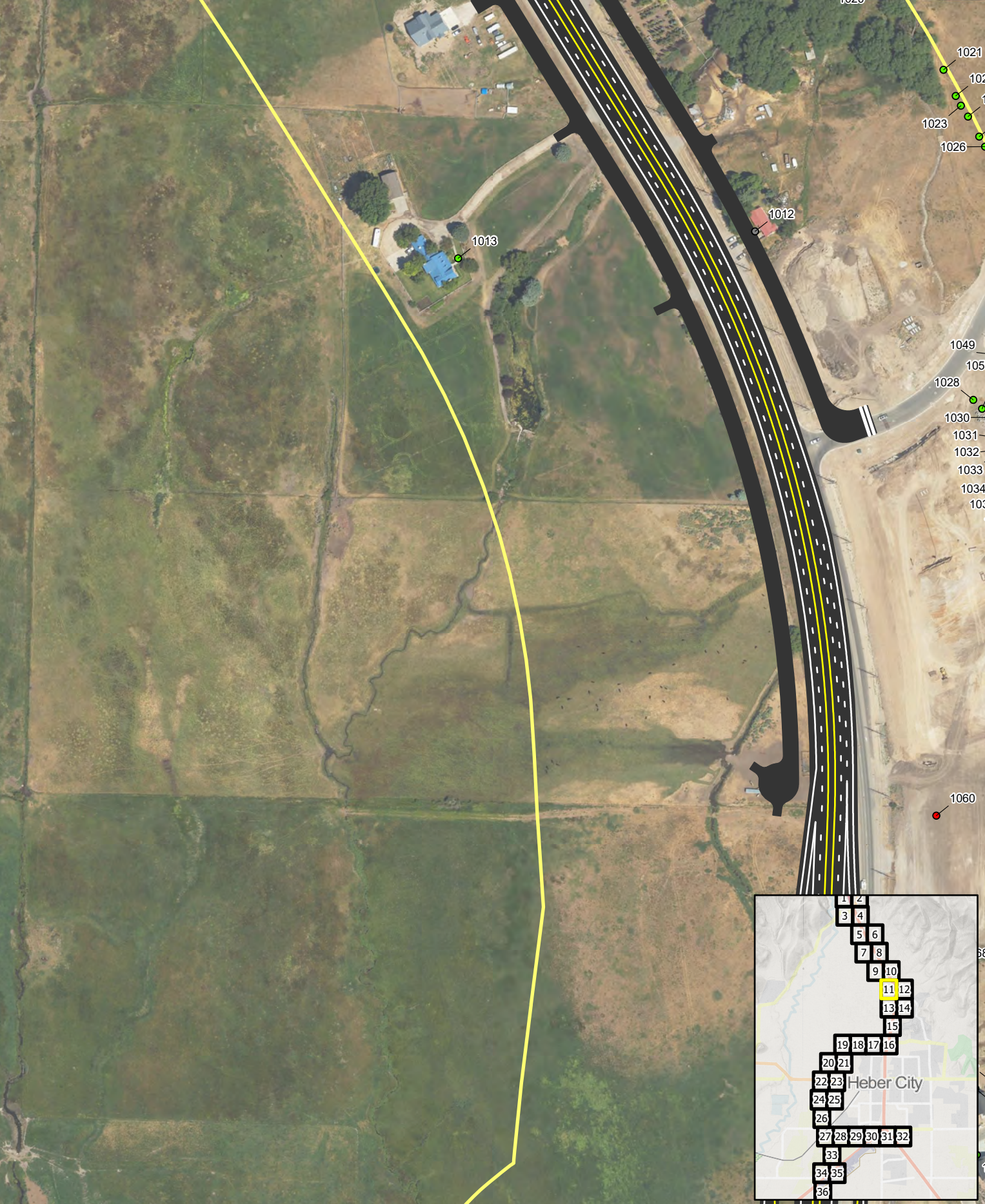




 Noise Study Area Alt A

- Noise Receptor removed by Action Alternative
- Impacted
- Not Impacted

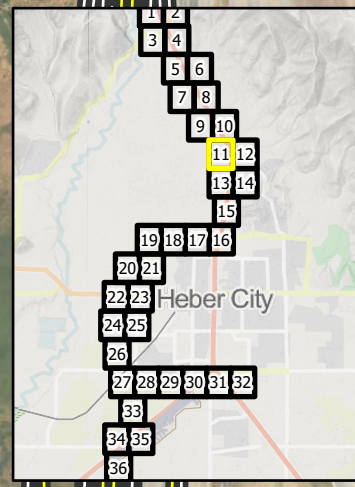




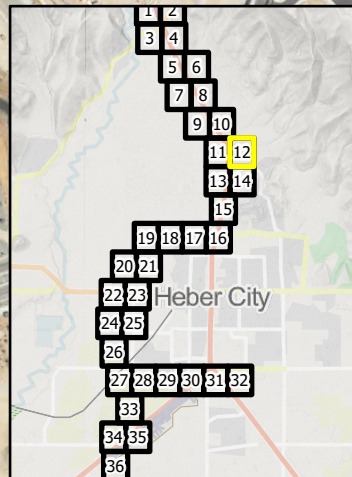
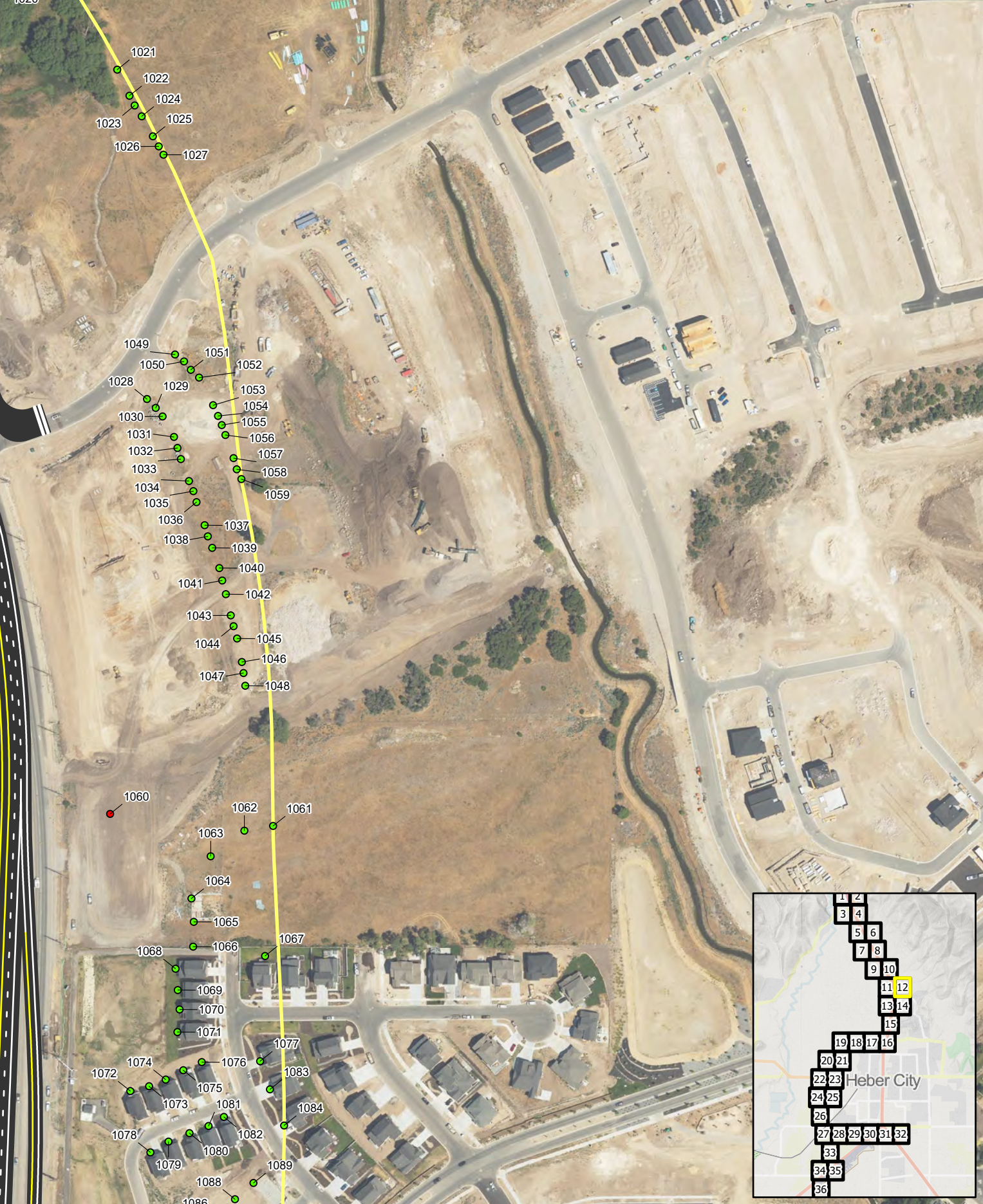
ALTERNATIVE A NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

- Noise Study Area Alt A
- Noise Receptor removed by Action Alternative
- Impacted
- Not Impacted



0 Feet 350



ALTERNATIVE A NOISE LEVELS

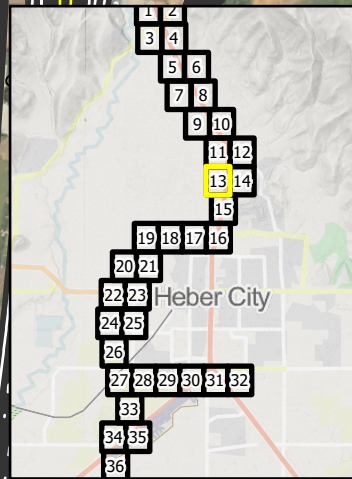
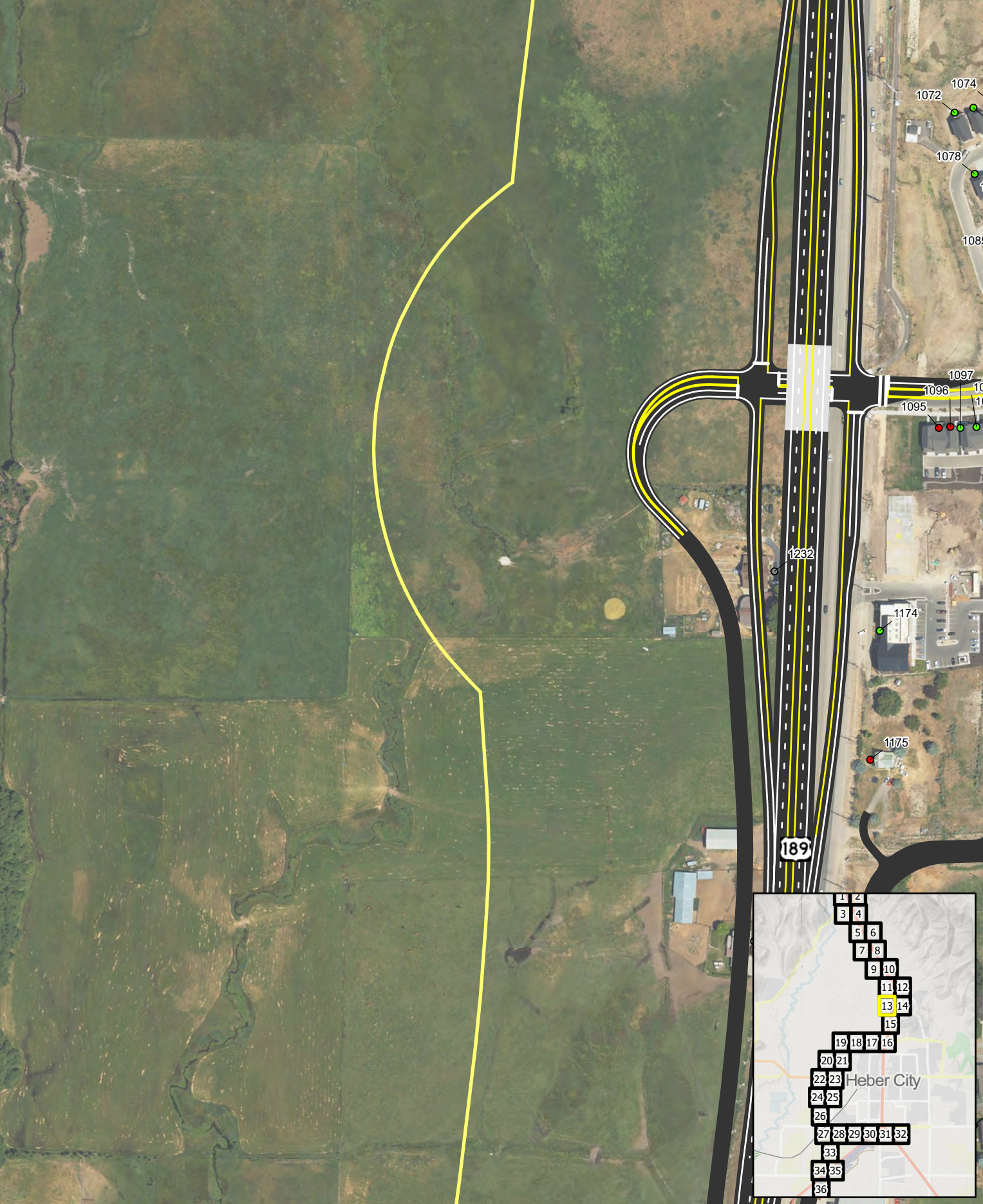
Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area Alt A

● Impacted

● Not Impacted

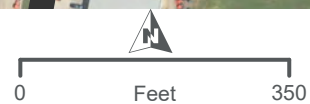


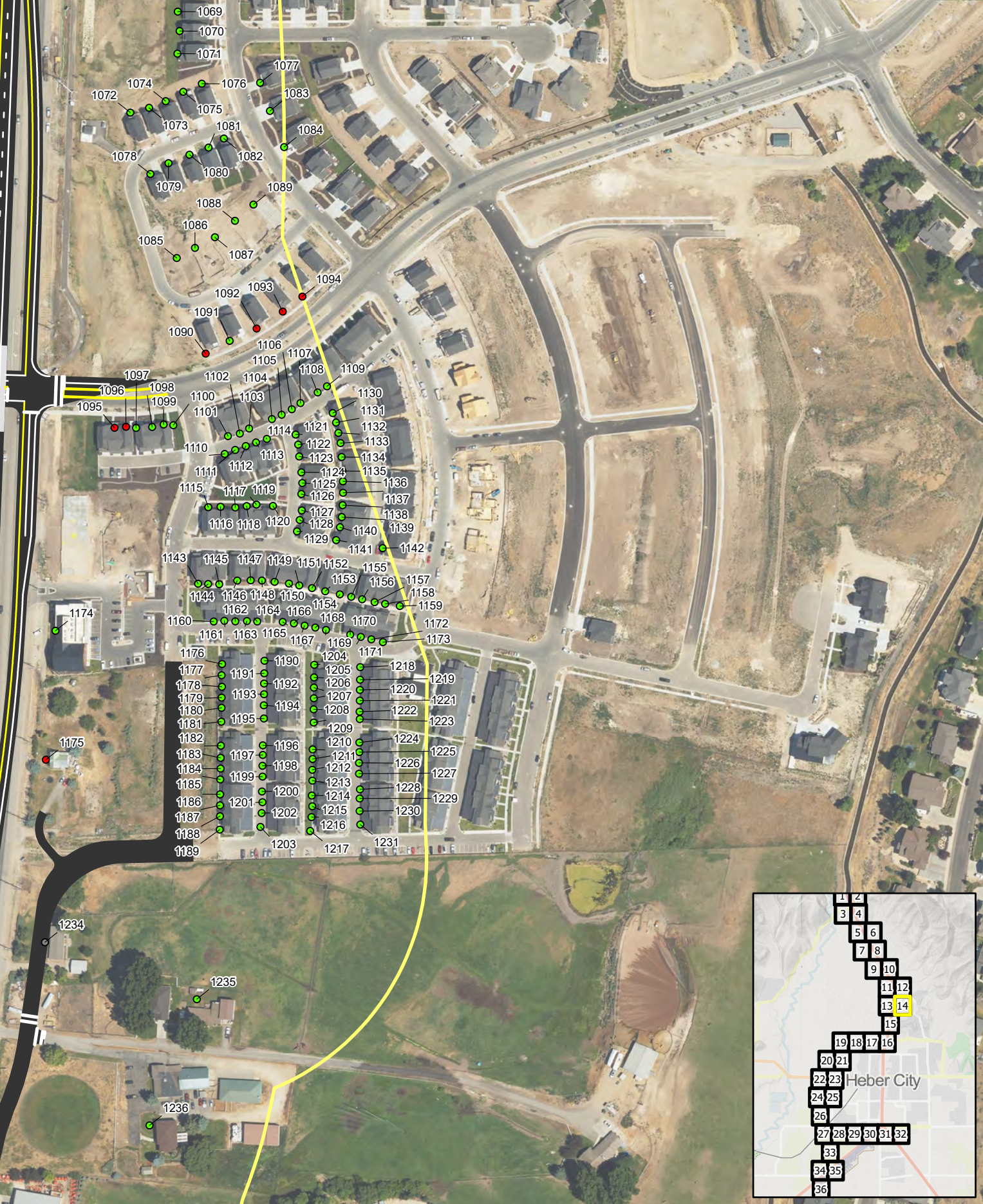


ALTERNATIVE A NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

- Noise Study Area Alt A
- Noise Receptor removed by Action Alternative
- Impacted
- Not Impacted





ALTERNATIVE A NOISE LEVELS

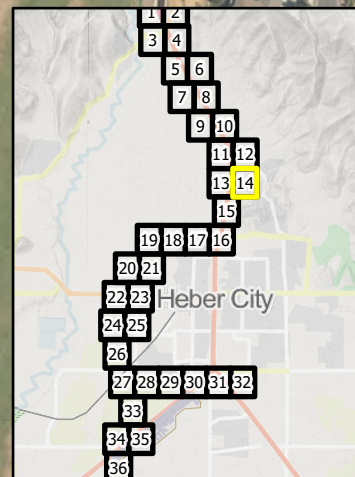
Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

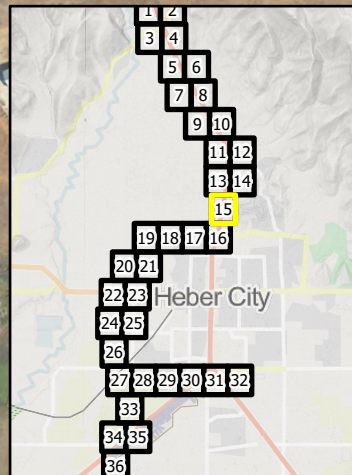
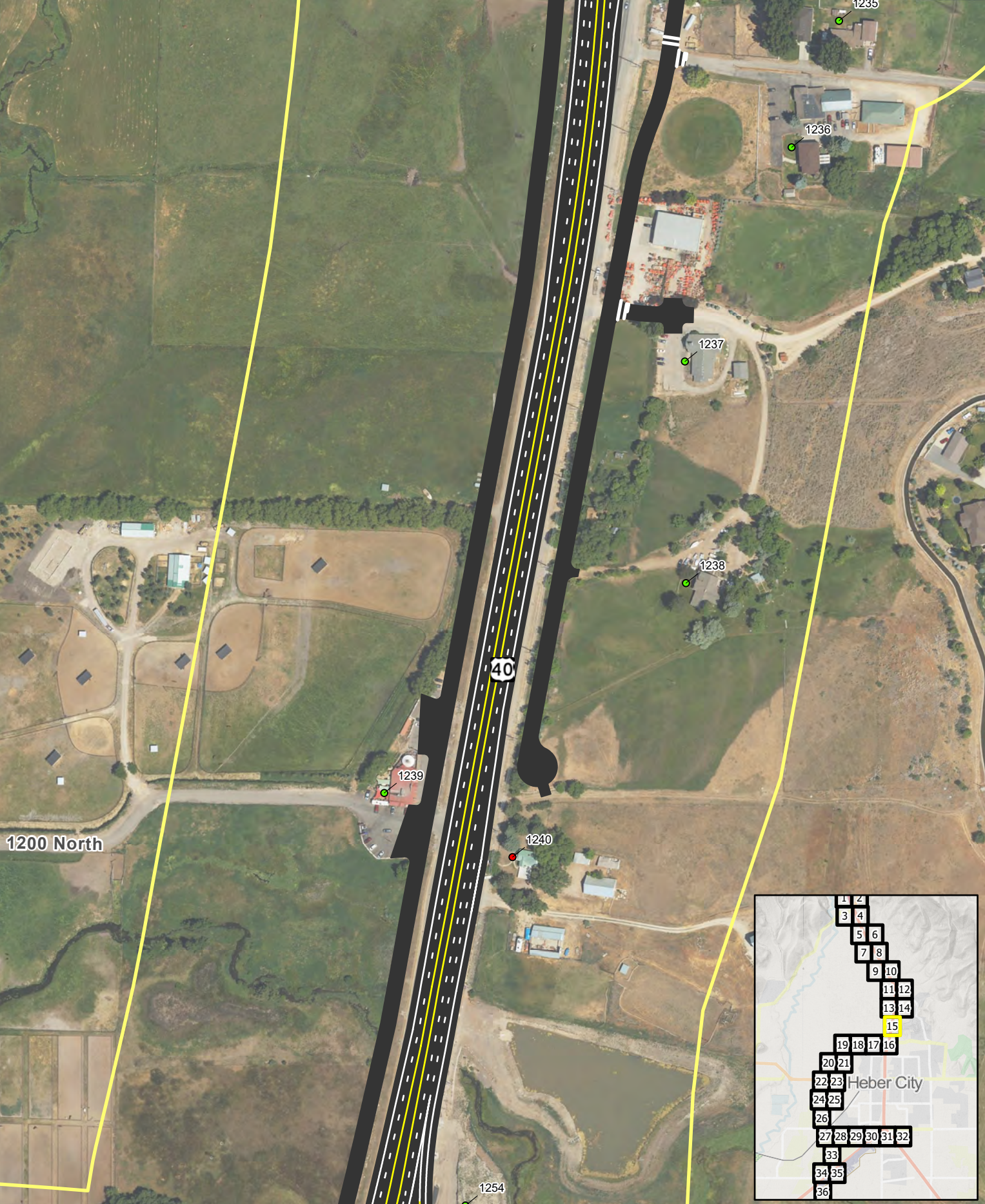
 Noise Study Area Alt A

● Noise Receptor removed by Action Alternative

● Impacted

● Not Impacted





ALTERNATIVE A NOISE LEVELS

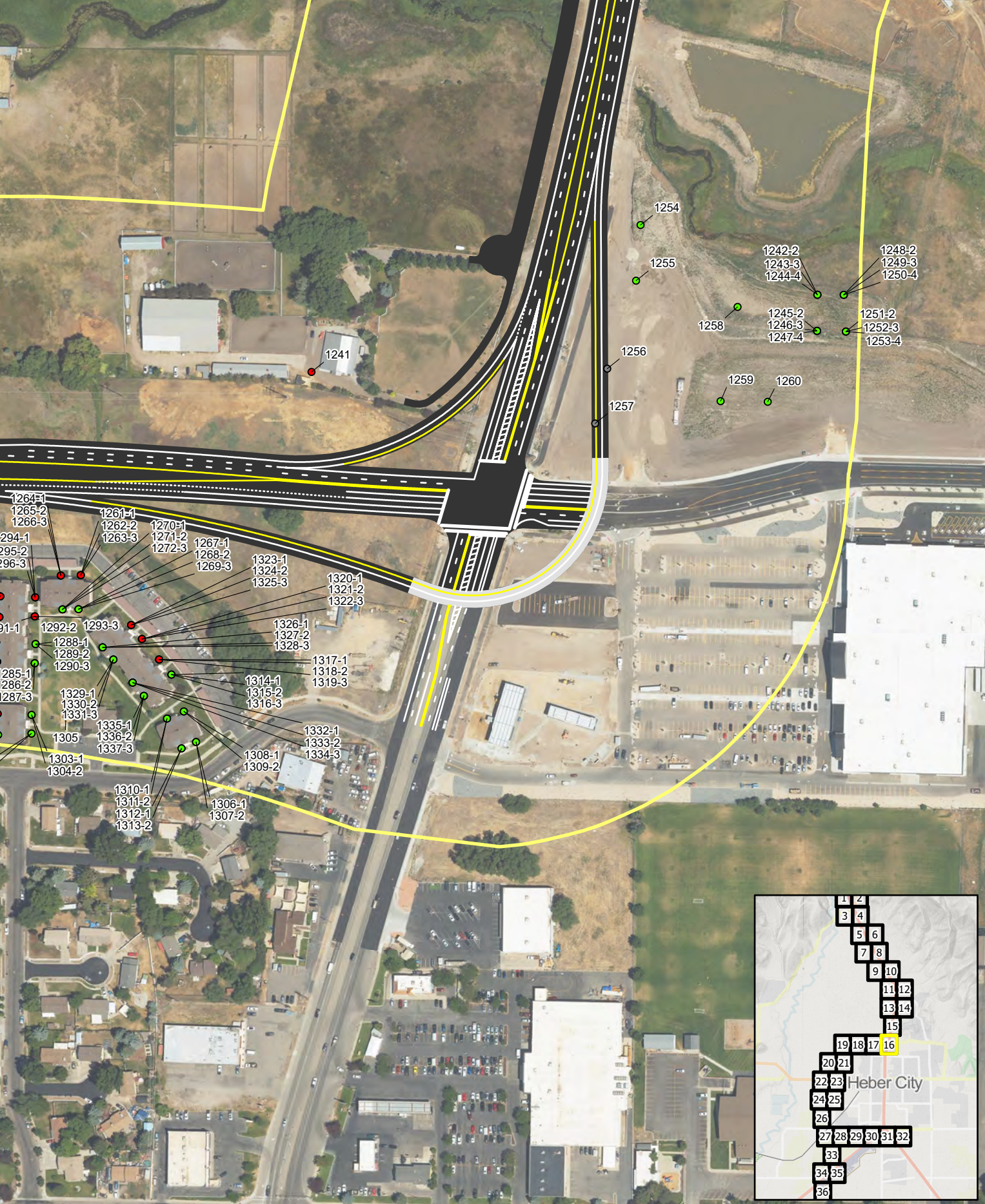
Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

 Noise Study Area Alt A

 Impacted

 Not Impacted





ALTERNATIVE A NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

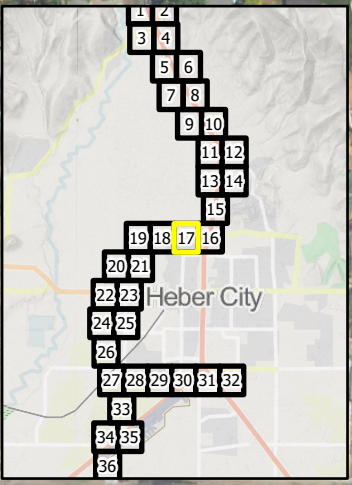
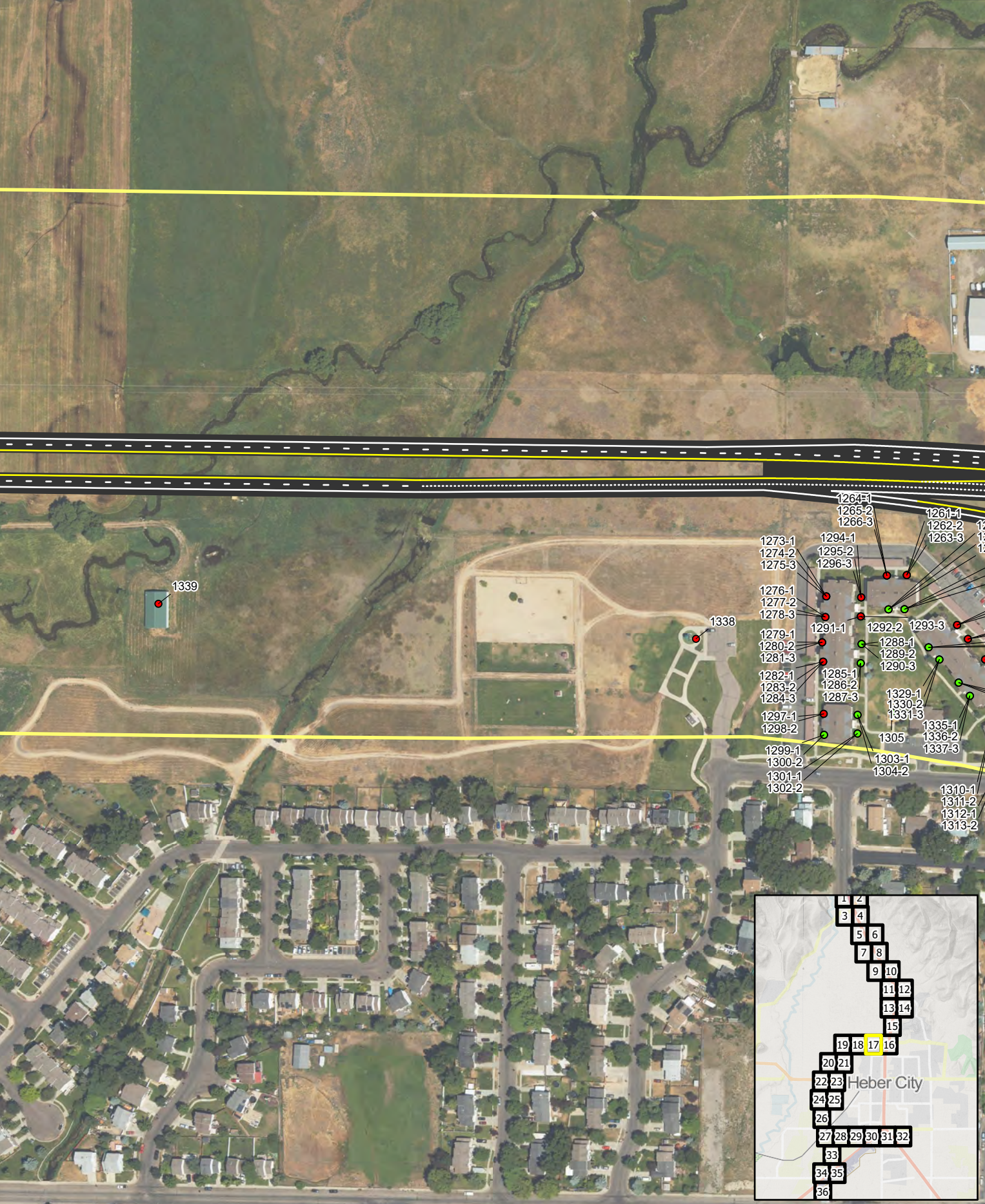
 Noise Study Area Alt A

 Noise Receptor removed by Action Alternative

 Impacted

 Not Impacted





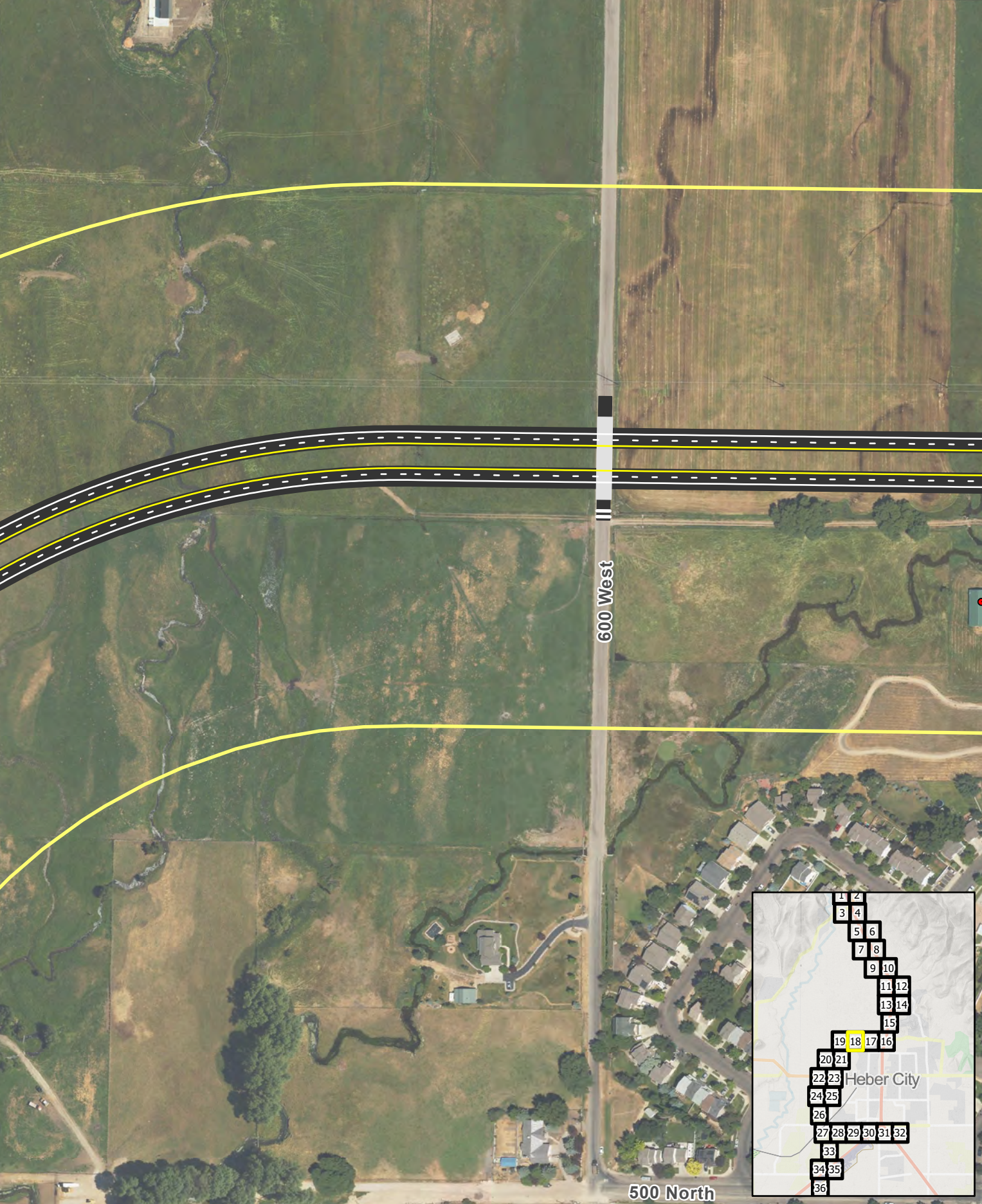
ALTERNATIVE A NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area Alt A

- Impacted
- Not Impacted





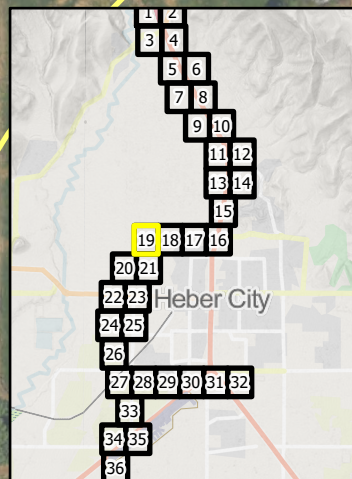
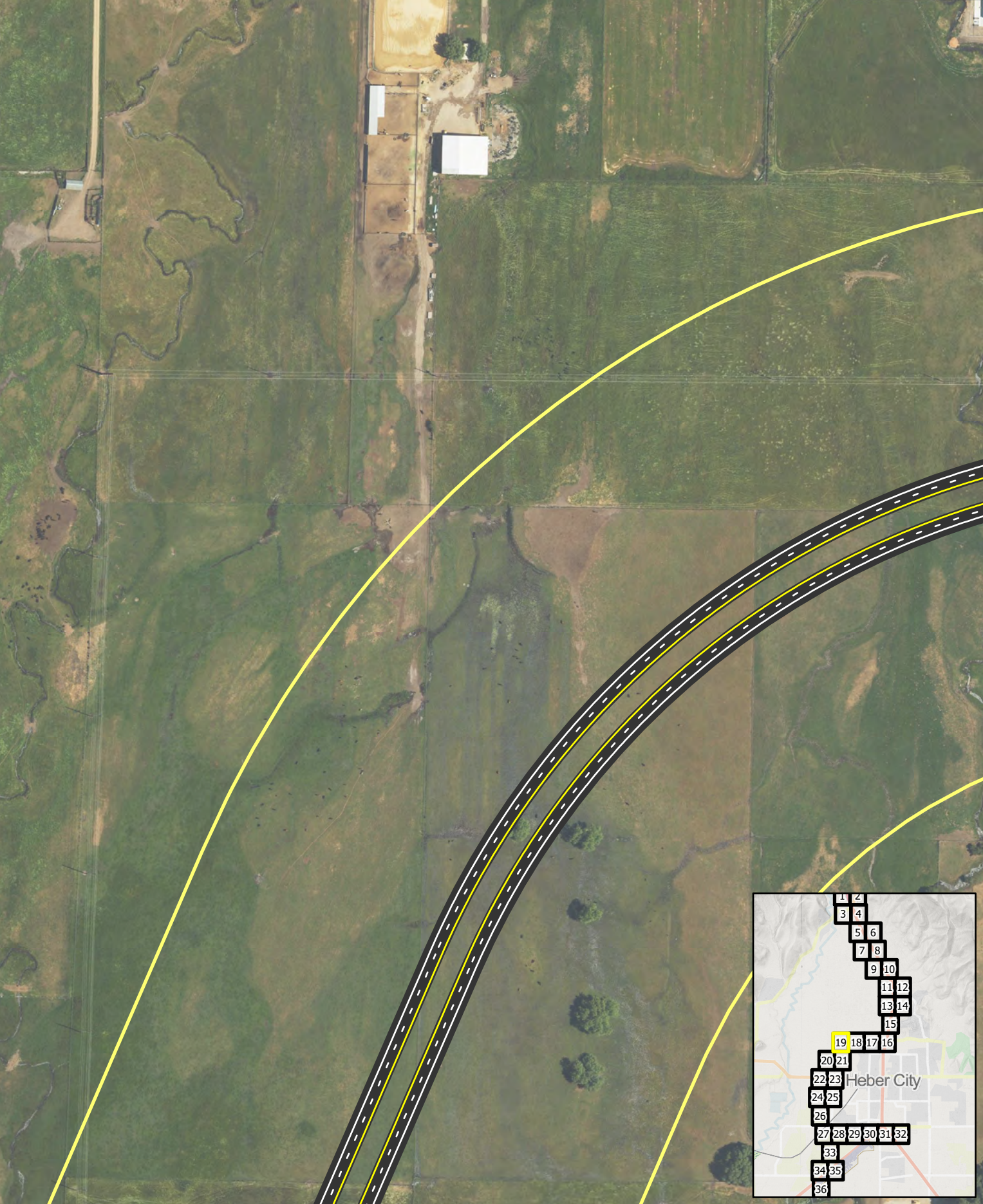
ALTERNATIVE A NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area Alt A

● Impacted



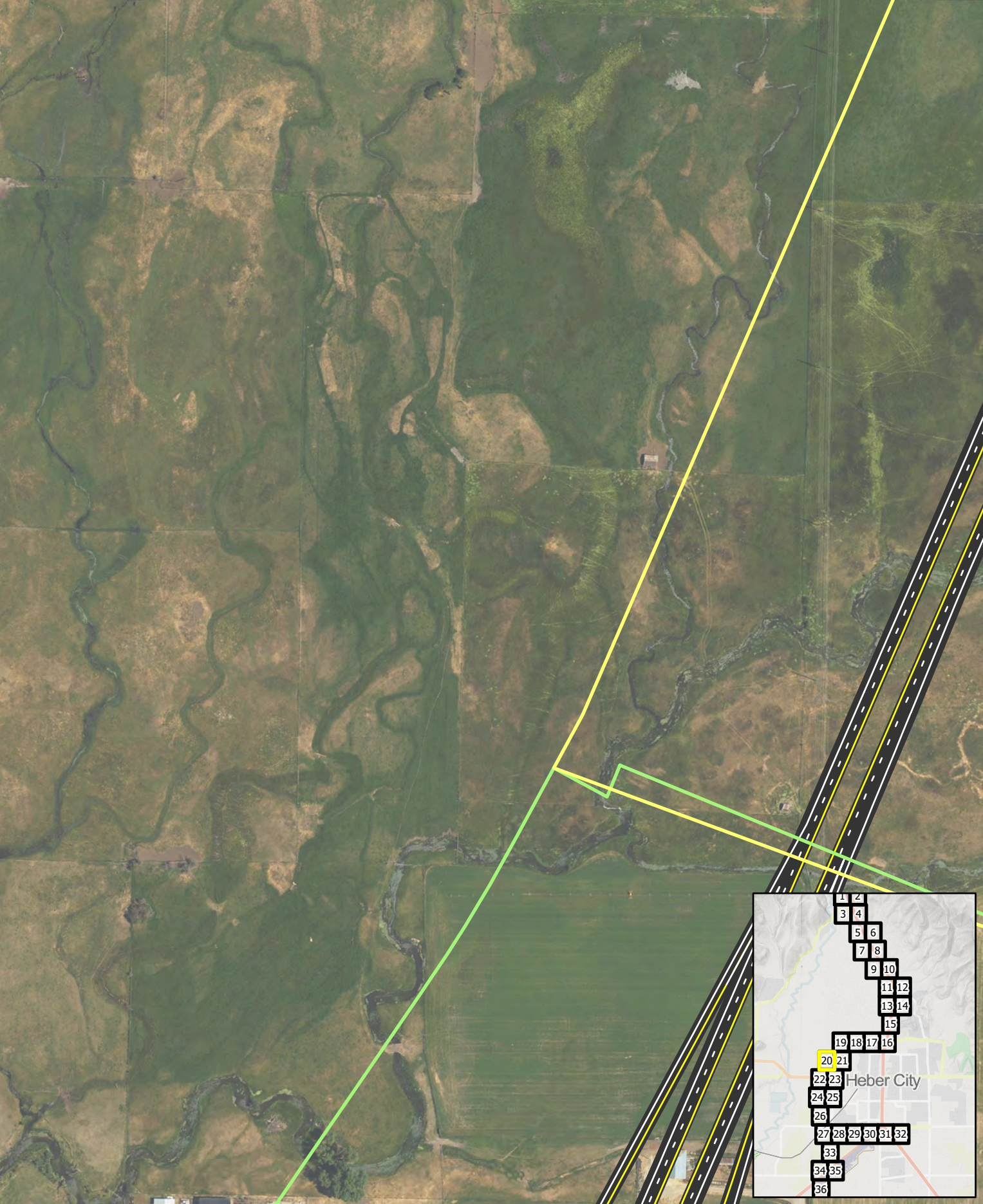


ALTERNATIVE A NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

 Noise Study Area Alt A





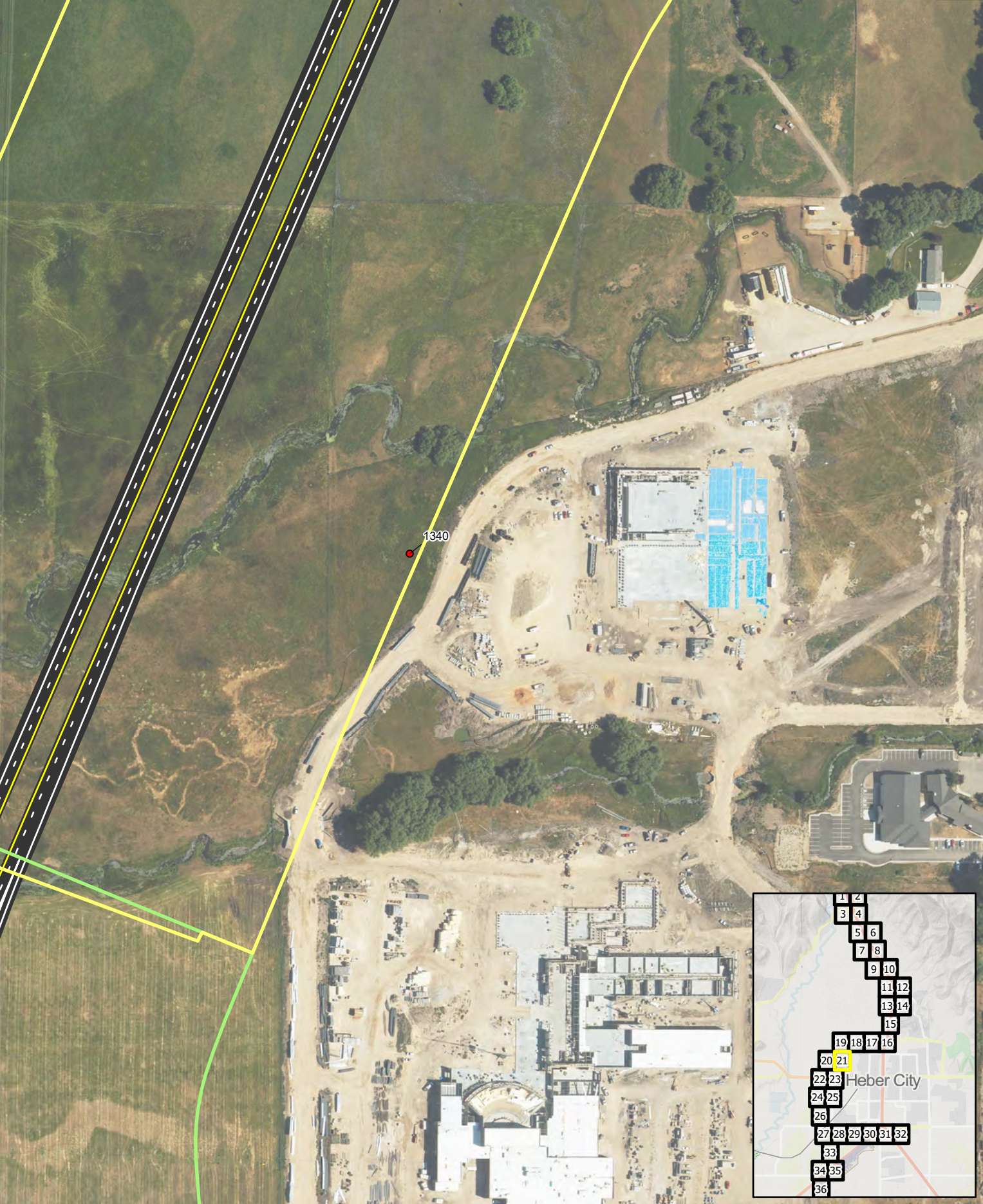
ALTERNATIVE A NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

 Noise Study Area Alt A

 Noise Study Area South





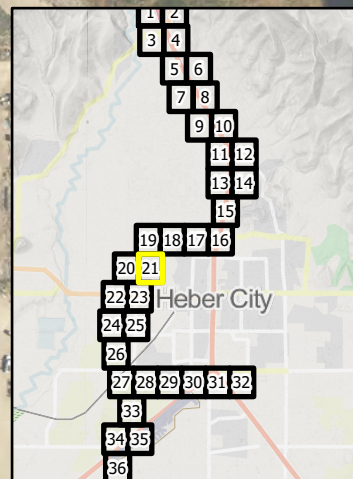
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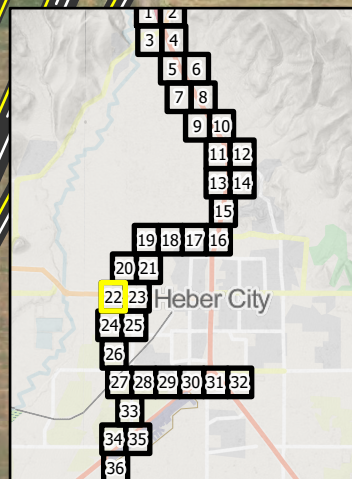
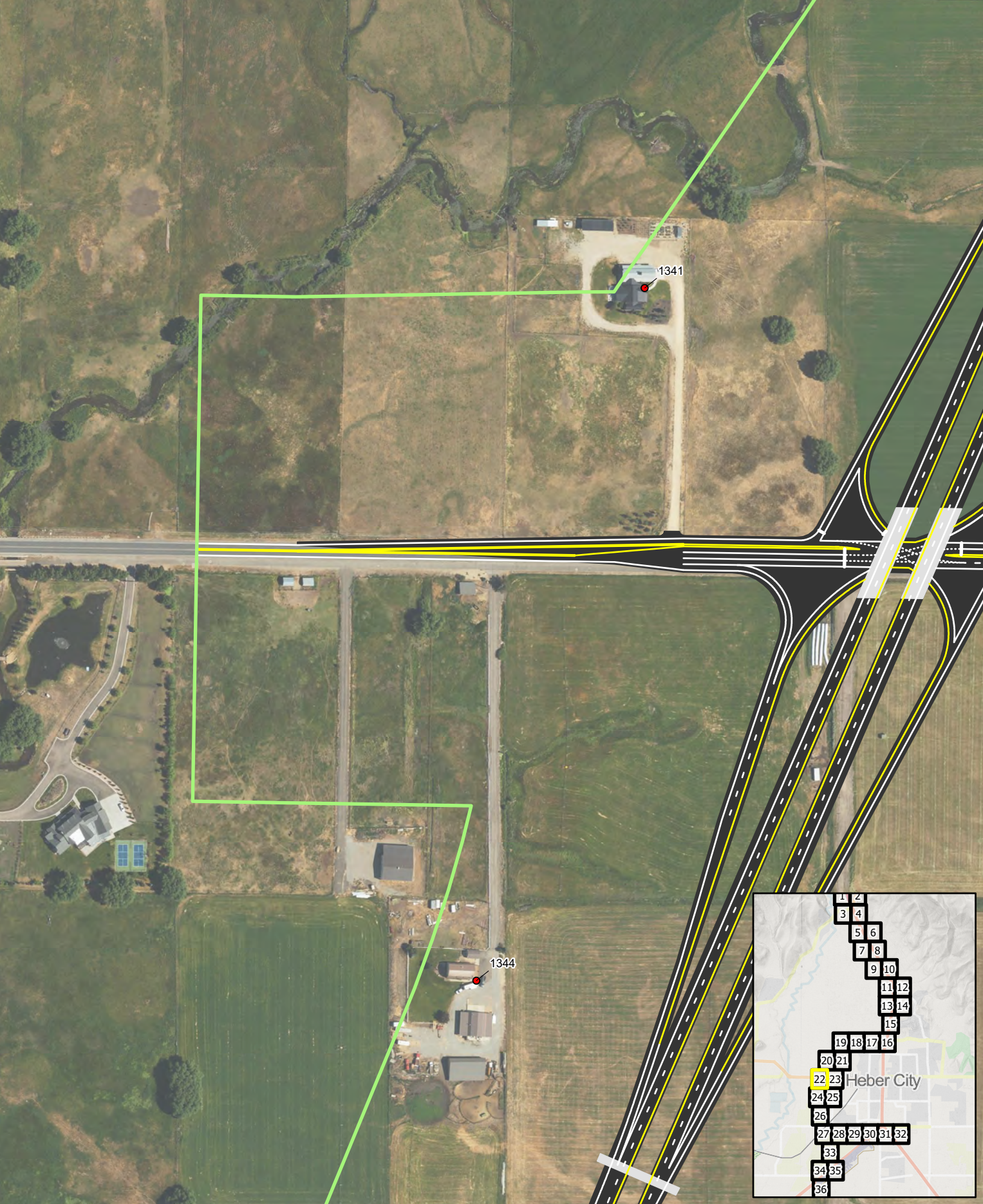
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ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area Alt A

Noise Study Area South

• Impacted





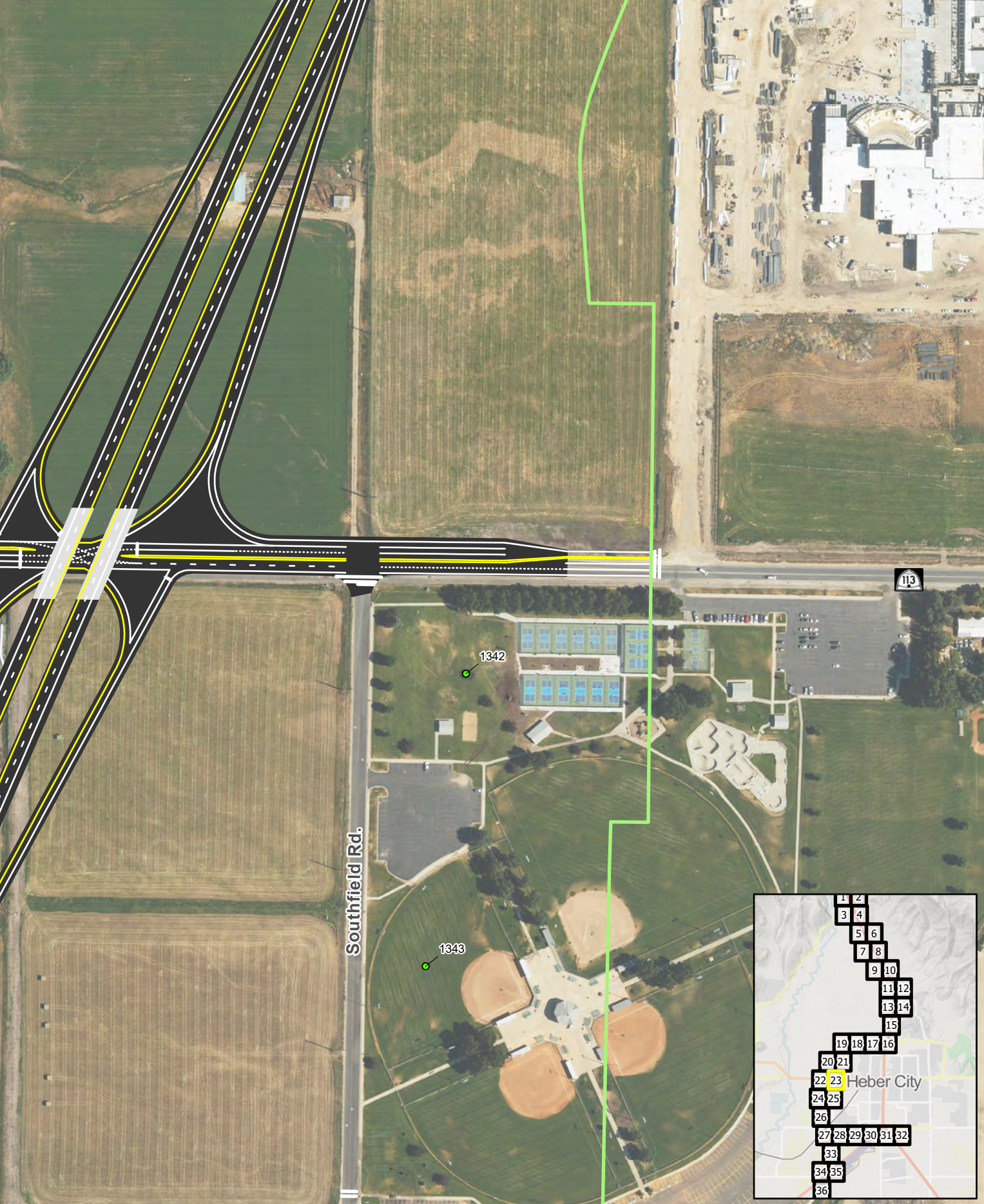
ALTERNATIVE A NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

 Noise Study Area South

 Impacted





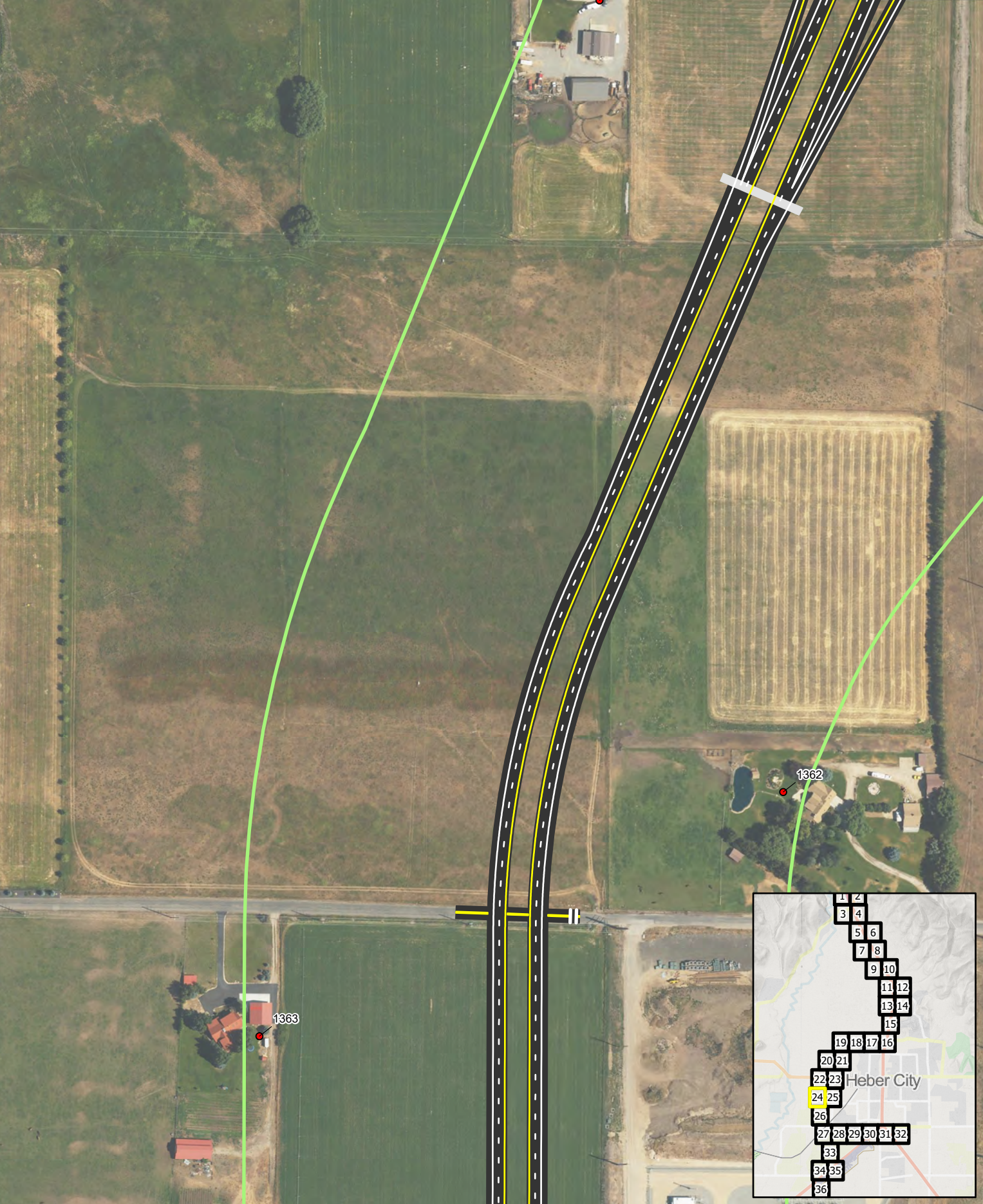
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Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area South

● Not Impacted





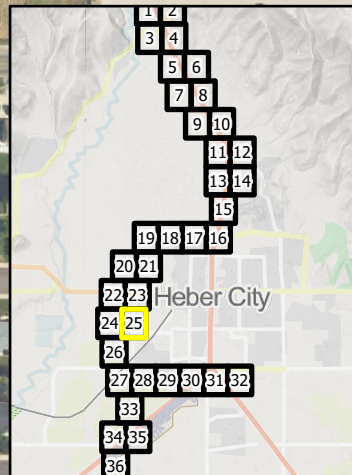
ALTERNATIVE A NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area South

● Impacted





ALTERNATIVE A NOISE LEVELS

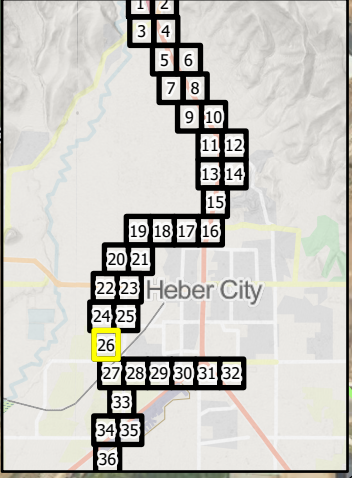
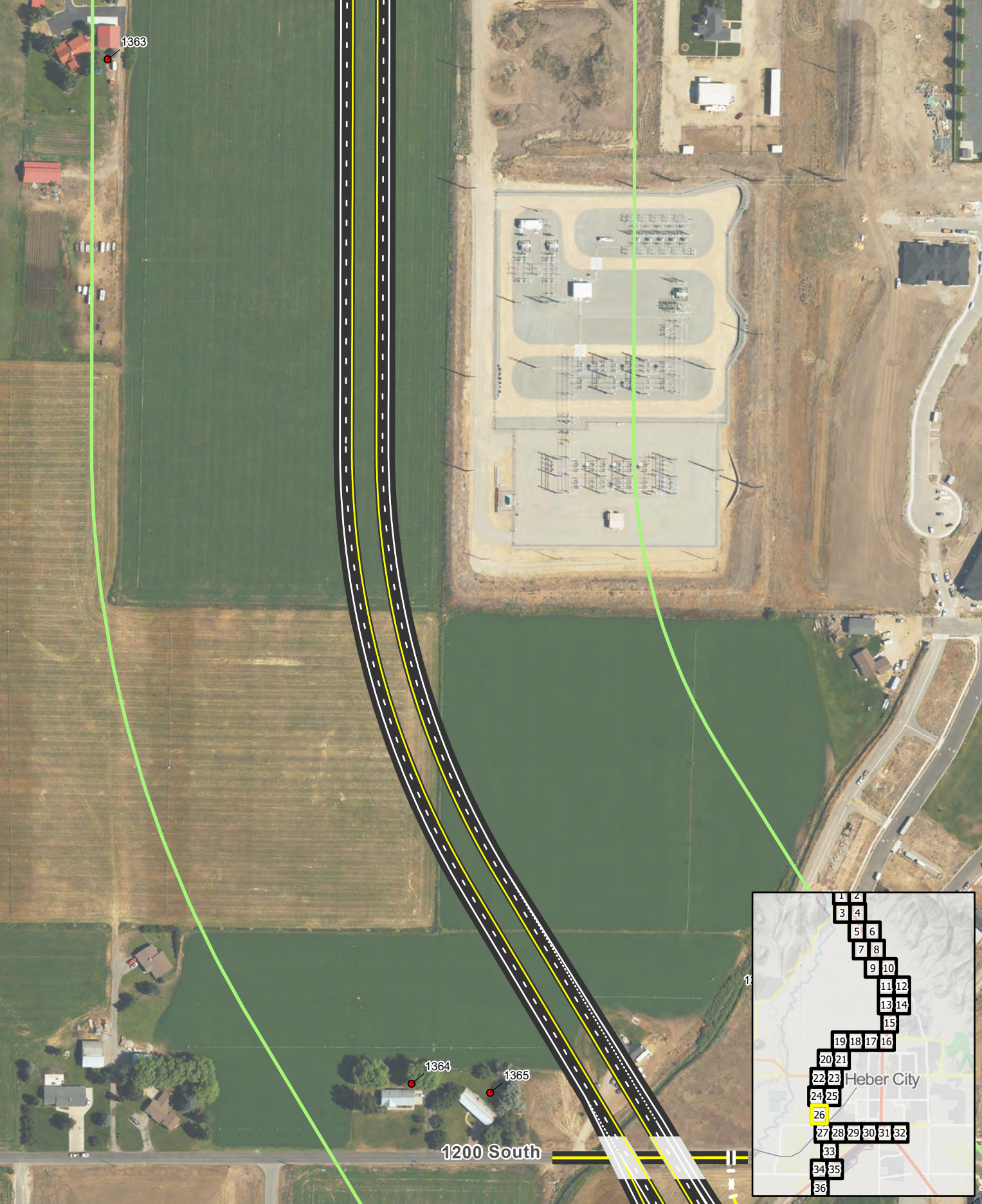
Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area South

● Impacted

● Not Impacted





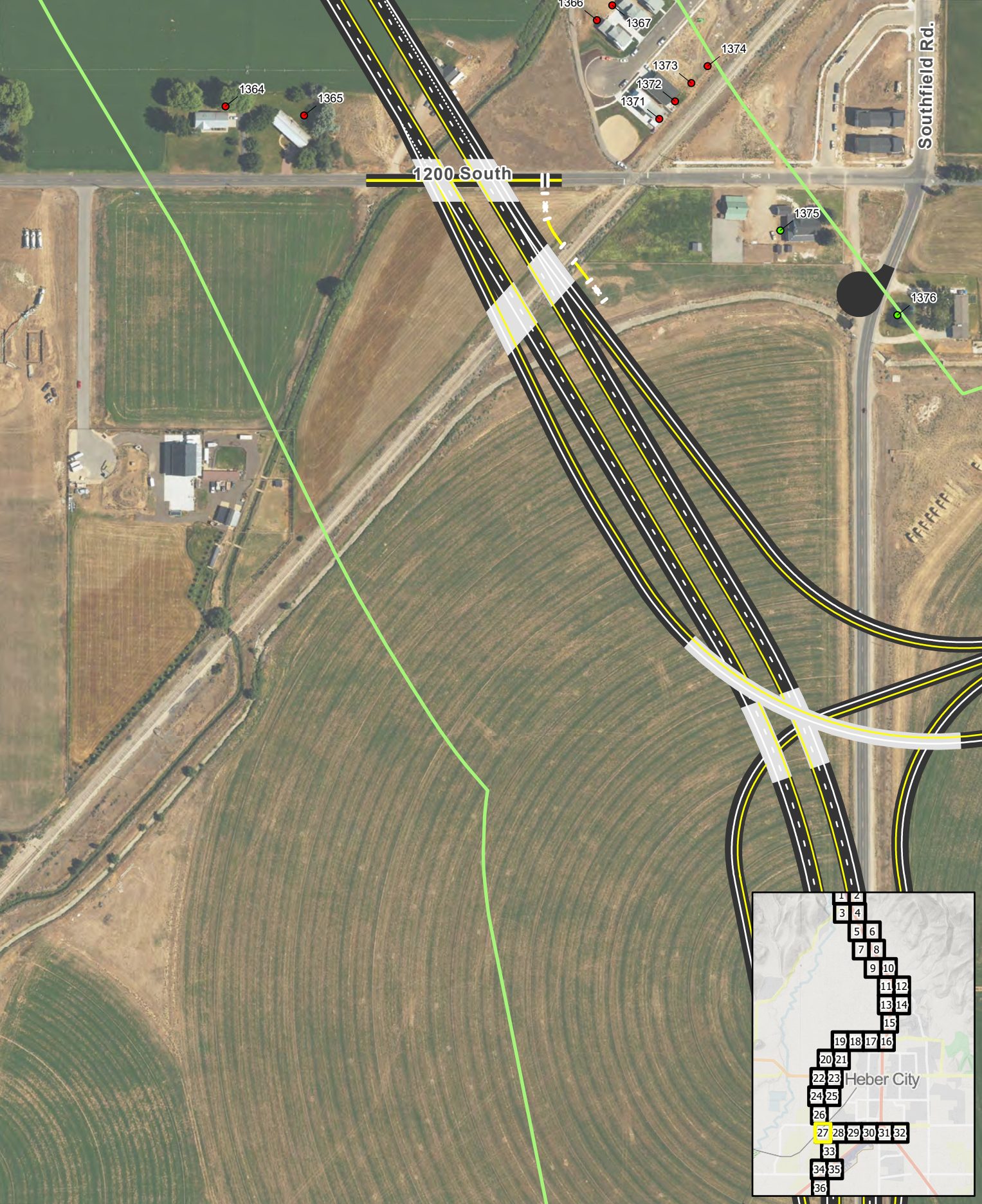
**ALTERNATIVE A
NOISE LEVELS**

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

 Noise Study Area South

 Impacted





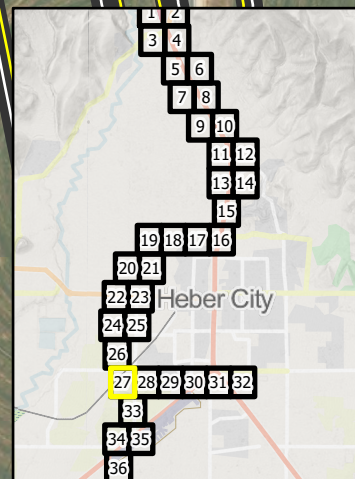
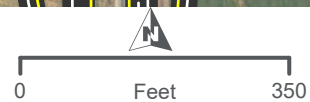
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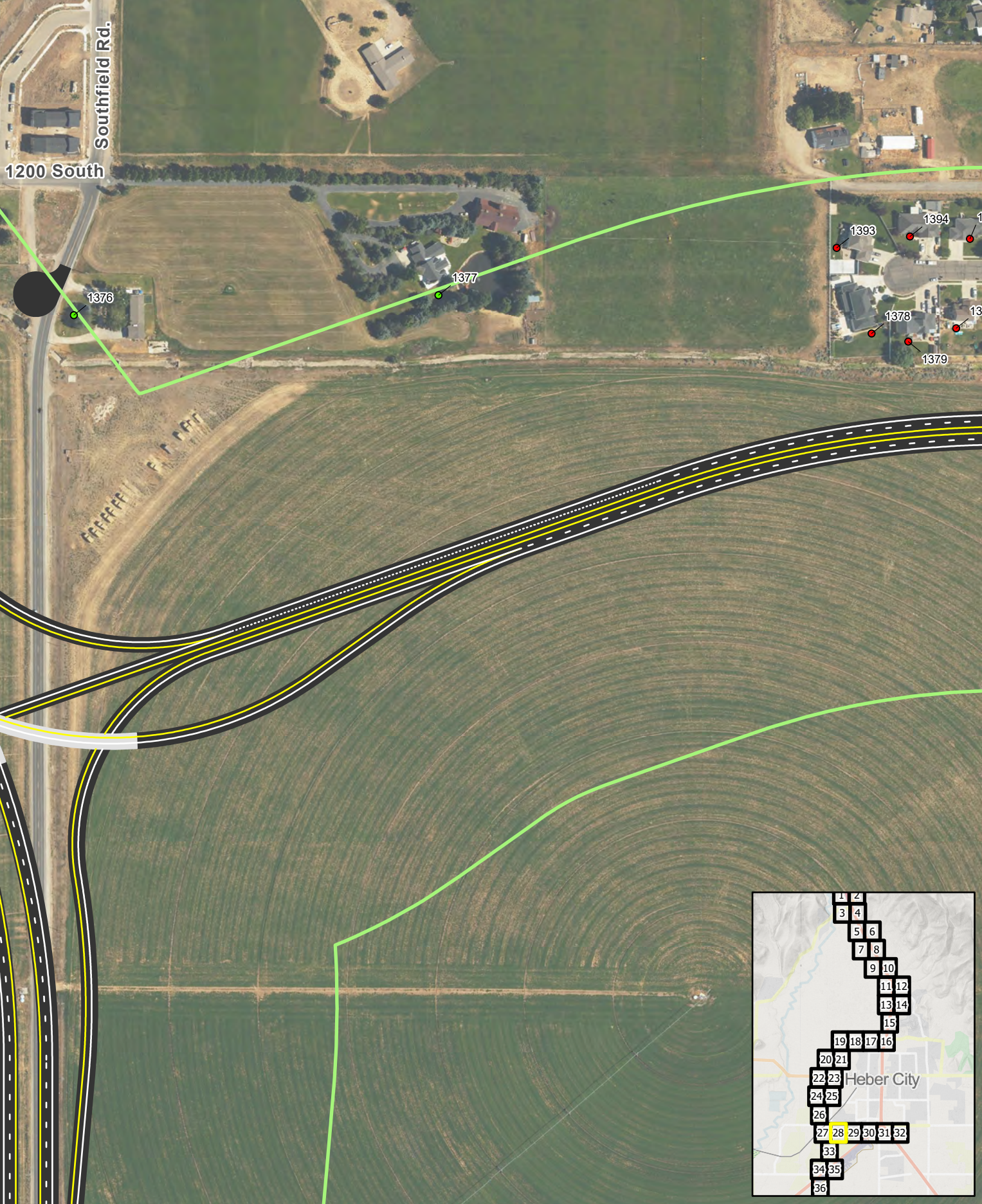
Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

 Noise Study Area South

 Impacted

 Not Impacted





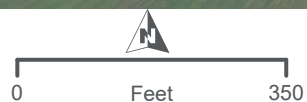
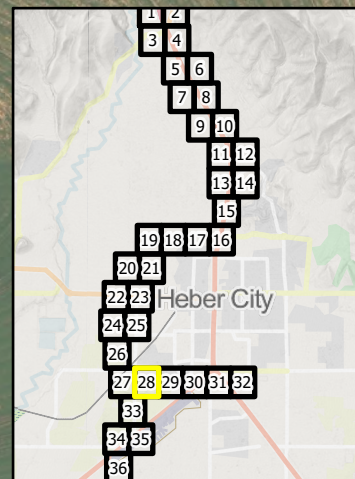
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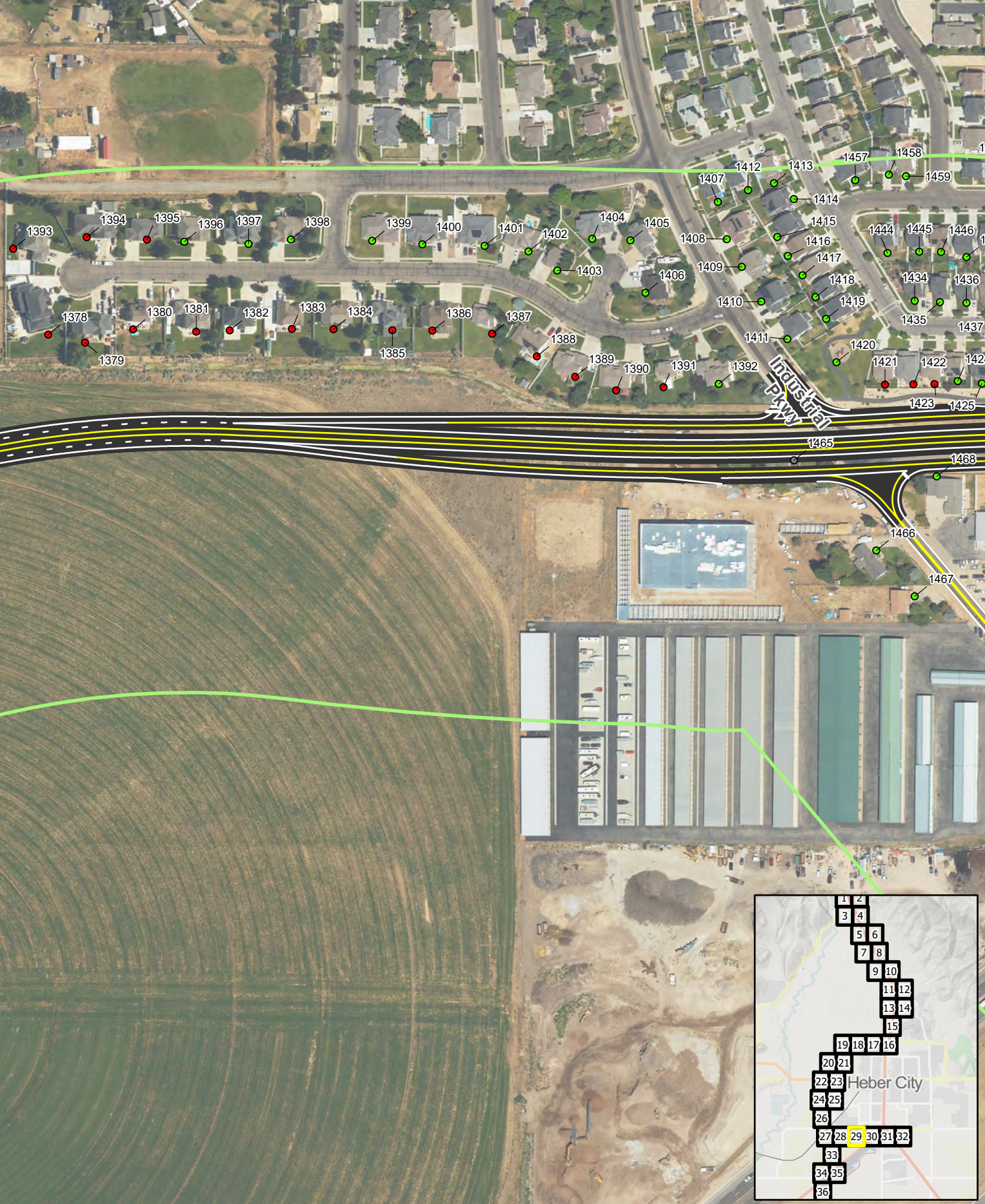
Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area South

● Impacted

● Not Impacted





ALTERNATIVE A NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

- ▬ Noise Study Area South
- Noise Receptor removed by Action Alternative
- Impacted
- Not Impacted





ALTERNATIVE A NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area South

● Impacted

● Not Impacted



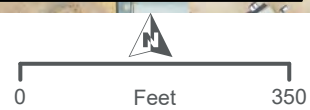


ALTERNATIVE A NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area South

● Not Impacted



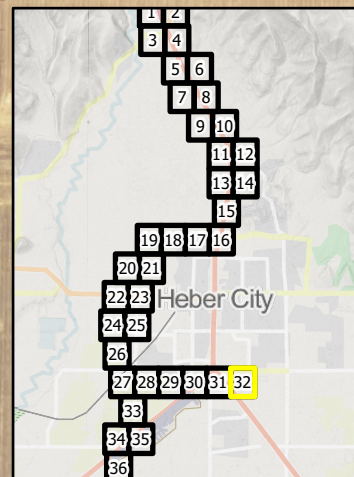


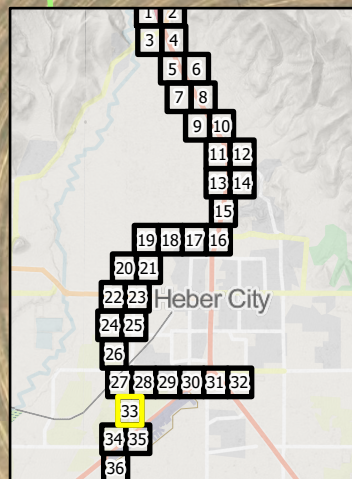
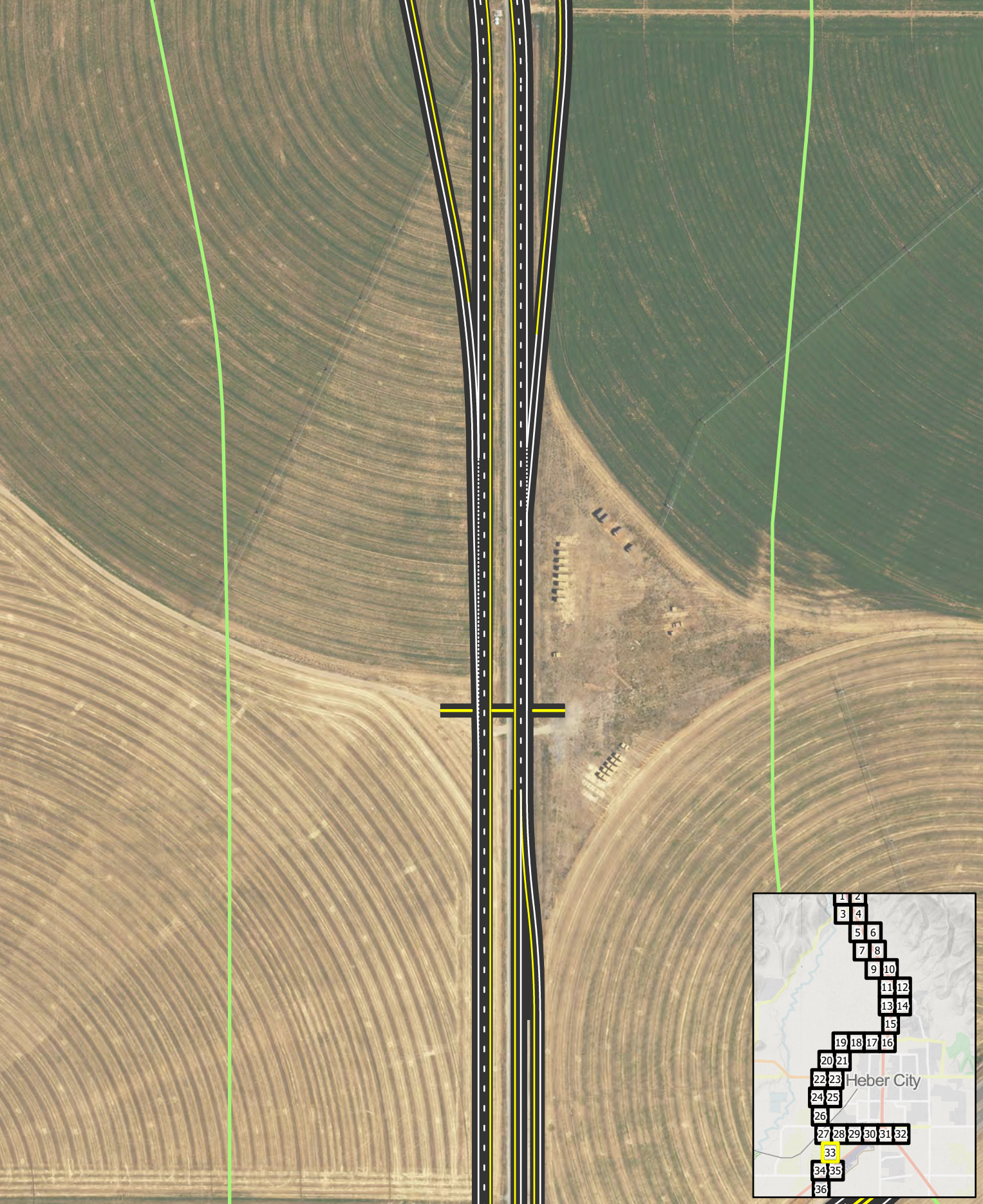
ALTERNATIVE A NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area South

● Not Impacted

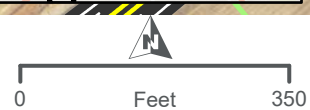


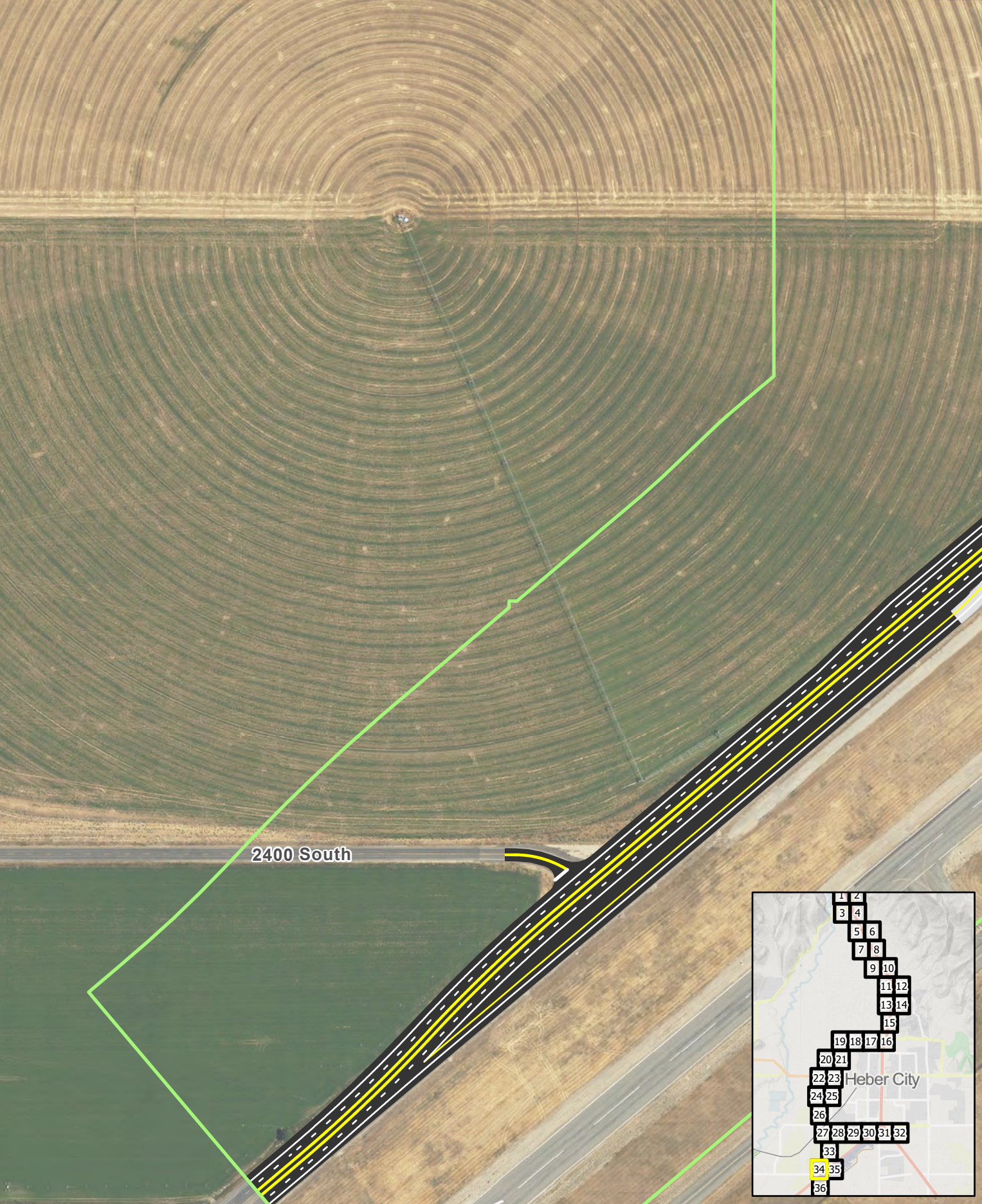


ALTERNATIVE A NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area South



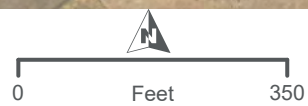
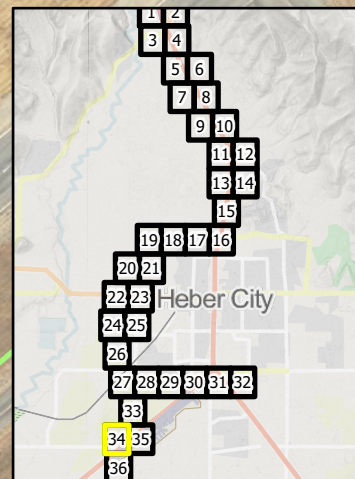


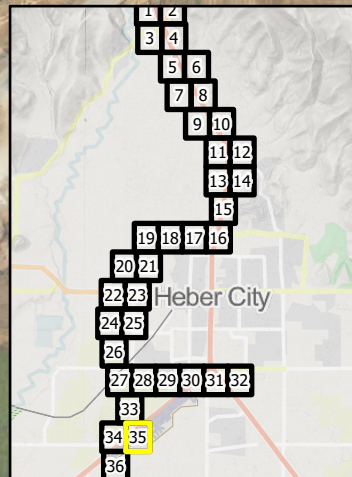
2400 South

 Noise Study Area South

ALTERNATIVE A NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT



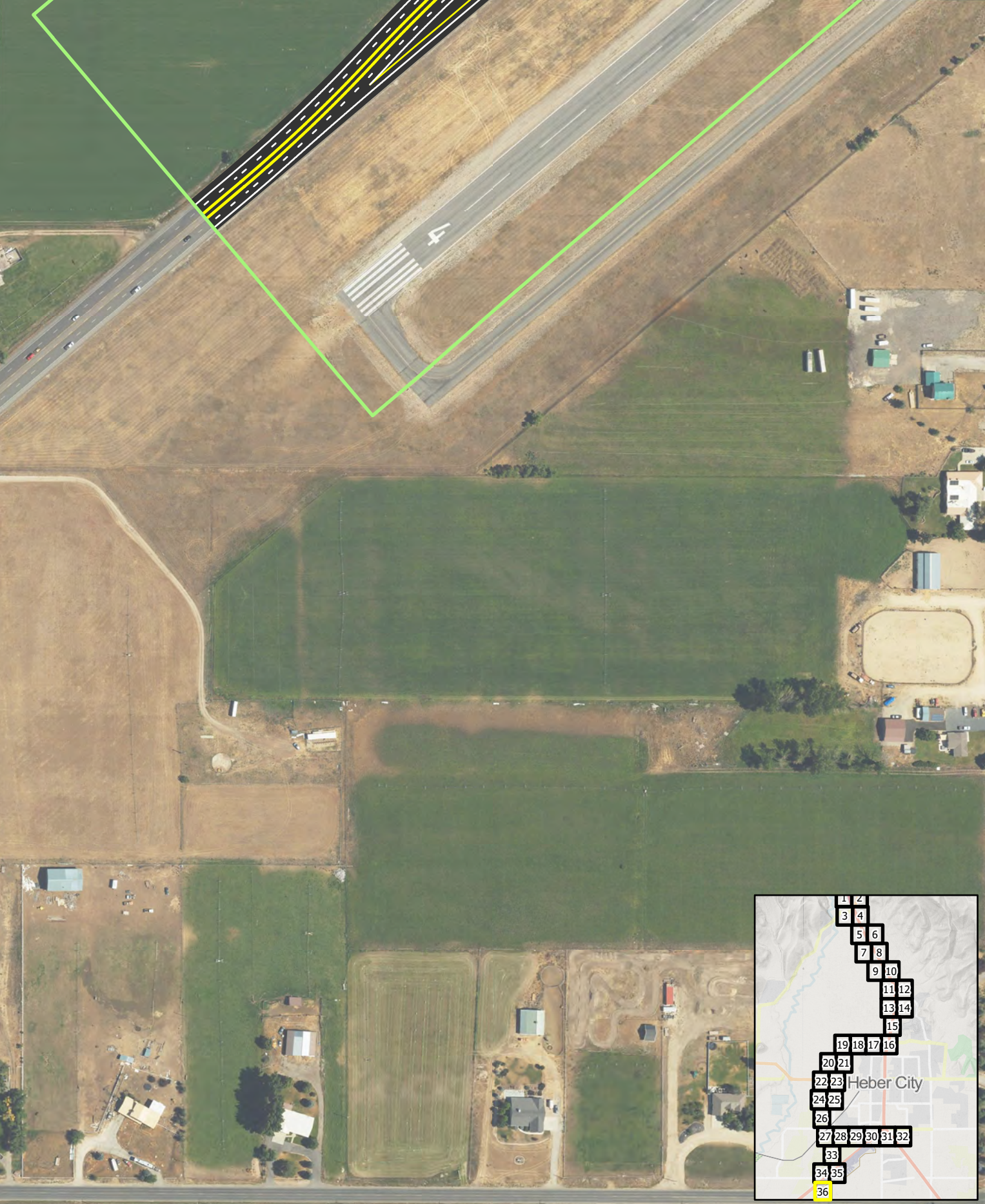


ALTERNATIVE A NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area South





ALTERNATIVE A NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

 Noise Study Area South



ATTACHMENT C

Alternative B Build Noise Levels and Build Receptor Maps

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Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
1	E	71	60	No	62	No	No	2
2-1	B	66	57	No	59	No	No	2
3-2	B	66	58	No	61	No	No	3
4-3	B	66	59	No	62	No	No	3
5-4	B	66	60	No	63	No	No	3
6-1	B	66	58	No	60	No	No	2
7-2	B	66	59	No	61	No	No	2
8-3	B	66	60	No	62	No	No	2
9-4	B	66	60	No	63	No	No	3
10-1	B	66	58	No	60	No	No	2
11-2	B	66	59	No	62	No	No	3
12-3	B	66	60	No	62	No	No	2
13-4	B	66	61	No	63	No	No	2
14-1	B	66	58	No	60	No	No	2
15-2	B	66	59	No	62	No	No	3
16-3	B	66	60	No	63	No	No	3
17-4	B	66	61	No	63	No	No	2
18-1	B	66	46	No	50	No	No	4
19-2	B	66	48	No	52	No	No	4
20-3	B	66	49	No	53	No	No	4
21-4	B	66	50	No	54	No	No	4
22-1	B	66	44	No	45	No	No	1
23-2	B	66	46	No	47	No	No	1
24-3	B	66	47	No	48	No	No	1
25-4	B	66	48	No	49	No	No	1
26-1	B	66	44	No	45	No	No	1
27-2	B	66	47	No	47	No	No	0
28-3	B	66	47	No	48	No	No	1
29-4	B	66	49	No	50	No	No	1
30-1	B	66	55	No	57	No	No	2
31-2	B	66	56	No	58	No	No	2
32-3	B	66	57	No	59	No	No	2
33-4	B	66	58	No	60	No	No	2
34-1	B	66	59	No	61	No	No	2
35-2	B	66	60	No	62	No	No	2
36-3	B	66	61	No	63	No	No	2
37-4	B	66	62	No	64	No	No	2
38-1	B	66	59	No	62	No	No	3
39-2	B	66	60	No	63	No	No	3
40-3	B	66	61	No	64	No	No	3
41-4	B	66	62	No	64	No	No	2
42-1	B	66	60	No	62	No	No	2
43-2	B	66	61	No	63	No	No	2
44-3	B	66	62	No	64	No	No	2
45-4	B	66	62	No	65	No	No	3
46-1	B	66	60	No	62	No	No	2

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
47-2	B	66	61	No	63	No	No	2
48-3	B	66	62	No	64	No	No	2
49-4	B	66	62	No	65	No	No	3
50-1	B	66	54	No	56	No	No	2
51-2	B	66	55	No	57	No	No	2
52-3	B	66	56	No	58	No	No	2
53-4	B	66	57	No	59	No	No	2
54-1	B	66	47	No	48	No	No	1
55-2	B	66	49	No	49	No	No	0
56-3	B	66	50	No	51	No	No	1
57-4	B	66	51	No	53	No	No	2
58-1	B	66	47	No	49	No	No	2
59-2	B	66	50	No	51	No	No	1
60-3	B	66	51	No	53	No	No	2
61-4	B	66	54	No	55	No	No	1
62-1	B	66	56	No	59	No	No	3
63-2	B	66	57	No	60	No	No	3
64-3	B	66	58	No	61	No	No	3
65-4	B	66	59	No	62	No	No	3
66-1	B	66	61	No	64	No	No	3
67-2	B	66	63	No	65	No	No	2
68-3	B	66	64	No	66	Yes	No	2
69-4	B	66	64	No	67	Yes	No	3
70-1	B	66	61	No	63	No	No	2
71-2	B	66	63	No	65	No	No	2
72-3	B	66	63	No	66	Yes	No	3
73-4	B	66	64	No	66	Yes	No	2
74-1	B	66	60	No	63	No	No	3
75-2	B	66	62	No	64	No	No	2
76-3	B	66	63	No	65	No	No	2
77-4	B	66	64	No	66	Yes	No	2
78-1	B	66	60	No	63	No	No	3
79-2	B	66	62	No	64	No	No	2
80-3	B	66	63	No	65	No	No	2
81-4	B	66	63	No	66	Yes	No	3
82-1	B	66	59	No	61	No	No	2
83-2	B	66	60	No	62	No	No	2
84-3	B	66	61	No	63	No	No	2
85-4	B	66	62	No	64	No	No	2
86-1	B	66	51	No	53	No	No	2
87-2	B	66	53	No	55	No	No	2
88-3	B	66	55	No	57	No	No	2
89-4	B	66	56	No	58	No	No	2
90-1	B	66	49	No	50	No	No	1
91-2	B	66	51	No	52	No	No	1
92-3	B	66	52	No	54	No	No	2

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
93-4	B	66	54	No	55	No	No	1
94-1	B	66	54	No	54	No	No	0
95-2	B	66	55	No	56	No	No	1
96-3	B	66	56	No	57	No	No	1
97-4	B	66	57	No	58	No	No	1
98-1	B	66	58	No	61	No	No	3
99-2	B	66	61	No	62	No	No	1
100-3	B	66	62	No	63	No	No	1
101-4	B	66	62	No	64	No	No	2
102-1	B	66	58	No	61	No	No	3
103-2	B	66	61	No	62	No	No	1
104-3	B	66	62	No	63	No	No	1
105-4	B	66	63	No	64	No	No	1
106-1	B	66	59	No	61	No	No	2
107-2	B	66	62	No	62	No	No	0
108-3	B	66	62	No	63	No	No	1
109-4	B	66	63	No	64	No	No	1
110-1	B	66	59	No	61	No	No	2
111-2	B	66	62	No	63	No	No	1
112-3	B	66	62	No	64	No	No	2
113-4	B	66	63	No	64	No	No	1
114	B	66	65	No	64	No	No	-1
115	B	66	66	Yes	65	No	No	-1
116	B	66	63	No	64	No	No	1
117	B	66	60	No	67	Yes	No	7
118	B	66	61	No	68	Yes	No	7
119	B	66	52	No	57	No	No	5
120	B	66	52	No	57	No	No	5
121	B	66	52	No	57	No	No	5
122	B	66	48	No	53	No	No	5
123	B	66	47	No	49	No	No	2
124	B	66	49	No	53	No	No	4
125	B	66	50	No	54	No	No	4
126	B	66	49	No	52	No	No	3
127	B	66	49	No	50	No	No	1
128	B	66	49	No	50	No	No	1
129	B	66	49	No	53	No	No	4
130	B	66	50	No	53	No	No	3
131	C	66	47	No	48	No	No	1
132-1	B	66	51	No	55	No	No	4
133-2	B	66	54	No	59	No	No	5
134-3	B	66	56	No	61	No	No	5
135-1	B	66	46	No	48	No	No	2
136-2	B	66	48	No	51	No	No	3
137-3	B	66	50	No	54	No	No	4
138-1	B	66	46	No	47	No	No	1

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
139-2	B	66	47	No	49	No	No	2
140-3	B	66	49	No	52	No	No	3
141-1	B	66	46	No	47	No	No	1
142-2	B	66	48	No	49	No	No	1
143-3	B	66	50	No	52	No	No	2
144-1	B	66	47	No	48	No	No	1
145-2	B	66	48	No	50	No	No	2
146-3	B	66	50	No	52	No	No	2
147-1	B	66	48	No	49	No	No	1
148-2	B	66	50	No	51	No	No	1
149-3	B	66	51	No	54	No	No	3
150-1	B	66	53	No	58	No	No	5
151-2	B	66	57	No	61	No	No	4
152-3	B	66	59	No	63	No	No	4
153-1	B	66	53	No	57	No	No	4
154-2	B	66	57	No	60	No	No	3
155-3	B	66	59	No	62	No	No	3
156-1	B	66	52	No	56	No	No	4
157-2	B	66	56	No	60	No	No	4
158-3	B	66	58	No	61	No	No	3
160-1	B	66	53	No	56	No	No	3
161-2	B	66	56	No	59	No	No	3
162-3	B	66	58	No	61	No	No	3
163-1	B	66	52	No	55	No	No	3
164-2	B	66	56	No	57	No	No	1
165-3	B	66	57	No	59	No	No	2
166-1	B	66	52	No	54	No	No	2
167-2	B	66	55	No	57	No	No	2
168-3	B	66	57	No	58	No	No	1
169	E	71	53	No	57	No	No	4
170-1	B	66	57	No	60	No	No	3
171-2	B	66	61	No	62	No	No	1
172-3	B	66	62	No	64	No	No	2
173-1	B	66	58	No	61	No	No	3
174-2	B	66	62	No	63	No	No	1
175-3	B	66	63	No	65	No	No	2
176-1	B	66	58	No	61	No	No	3
177-2	B	66	62	No	63	No	No	1
178-3	B	66	63	No	65	No	No	2
179-1	B	66	48	No	50	No	No	2
180-2	B	66	51	No	53	No	No	2
181-3	B	66	53	No	55	No	No	2
182-1	B	66	49	No	50	No	No	1
183-2	B	66	53	No	53	No	No	0
184-3	B	66	54	No	55	No	No	1
185-1	B	66	55	No	59	No	No	4

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
186-2	B	66	60	No	60	No	No	0
187-3	B	66	61	No	62	No	No	1
188-1	B	66	56	No	60	No	No	4
189-2	B	66	60	No	61	No	No	1
190-3	B	66	61	No	63	No	No	2
191-1	B	66	53	No	55	No	No	2
192-2	B	66	55	No	56	No	No	1
193-3	B	66	56	No	58	No	No	2
194-1	B	66	52	No	53	No	No	1
195-2	B	66	53	No	55	No	No	2
196-3	B	66	54	No	56	No	No	2
197-1	B	66	51	No	52	No	No	1
198-2	B	66	52	No	54	No	No	2
199-3	B	66	53	No	55	No	No	2
200-1	B	66	52	No	53	No	No	1
201-2	B	66	54	No	55	No	No	1
202-3	B	66	55	No	56	No	No	1
203-1	B	66	59	No	62	No	No	3
204-2	B	66	63	No	64	No	No	1
205-3	B	66	64	No	66	Yes	No	2
206-1	B	66	57	No	60	No	No	3
207-2	B	66	61	No	62	No	No	1
208-3	B	66	62	No	65	No	No	3
209-1	B	66	56	No	59	No	No	3
210-2	B	66	59	No	61	No	No	2
211-3	B	66	60	No	63	No	No	3
212-1	B	66	55	No	58	No	No	3
213-2	B	66	59	No	60	No	No	1
214-3	B	66	60	No	62	No	No	2
215-1	B	66	55	No	58	No	No	3
216-2	B	66	59	No	60	No	No	1
217-3	B	66	60	No	62	No	No	2
218-1	B	66	57	No	60	No	No	3
219-2	B	66	62	No	62	No	No	0
220-3	B	66	63	No	65	No	No	2
221-1	B	66	52	No	54	No	No	2
222-2	B	66	54	No	55	No	No	1
223-3	B	66	55	No	56	No	No	1
224-1	B	66	50	No	52	No	No	2
225-2	B	66	50	No	52	No	No	2
226-3	B	66	53	No	55	No	No	2
227-1	B	66	50	No	52	No	No	2
228-2	B	66	51	No	54	No	No	3
229-3	B	66	53	No	56	No	No	3
230-1	B	66	57	No	60	No	No	3
231-2	B	66	61	No	63	No	No	2

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
232-3	B	66	62	No	64	No	No	2
233-1	B	66	64	No	66	Yes	No	2
234-2	B	66	69	Yes	70	Yes	No	1
235-3	B	66	69	Yes	71	Yes	No	2
236-1	B	66	64	No	65	No	No	1
237-2	B	66	69	Yes	70	Yes	No	1
238-3	B	66	69	Yes	71	Yes	No	2
239-1	B	66	64	No	65	No	No	1
240-2	B	66	69	Yes	70	Yes	No	1
241-3	B	66	69	Yes	71	Yes	No	2
242-1	B	66	64	No	65	No	No	1
243-2	B	66	69	Yes	70	Yes	No	1
244-3	B	66	69	Yes	71	Yes	No	2
245-1	B	66	64	No	65	No	No	1
246-2	B	66	69	Yes	70	Yes	No	1
247-3	B	66	69	Yes	71	Yes	No	2
248-1	B	66	56	No	58	No	No	2
249-2	B	66	60	No	60	No	No	0
250-3	B	66	61	No	62	No	No	1
251-1	B	66	57	No	59	No	No	2
252-2	B	66	61	No	62	No	No	1
253-3	B	66	62	No	63	No	No	1
254-1	B	66	58	No	60	No	No	2
255-2	B	66	63	No	63	No	No	0
256-3	B	66	63	No	65	No	No	2
257-1	B	66	60	No	62	No	No	2
258-2	B	66	65	No	66	Yes	No	1
259-3	B	66	66	Yes	67	Yes	No	1
260-1	B	66	62	No	64	No	No	2
261-2	B	66	67	Yes	69	Yes	No	2
262-3	B	66	68	Yes	70	Yes	No	2
263-1	B	66	51	No	53	No	No	2
264-2	B	66	55	No	57	No	No	2
265-3	B	66	56	No	57	No	No	1
266-1	B	66	53	No	55	No	No	2
267-2	B	66	56	No	58	No	No	2
268-3	B	66	57	No	59	No	No	2
269-1	B	66	54	No	56	No	No	2
270-2	B	66	58	No	60	No	No	2
271-3	B	66	58	No	61	No	No	3
272-1	B	66	55	No	58	No	No	3
273-2	B	66	60	No	62	No	No	2
274-3	B	66	61	No	63	No	No	2
275-1	B	66	58	No	61	No	No	3
276-2	B	66	63	No	65	No	No	2
277-3	B	66	63	No	66	Yes	No	3

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
278-1	B	66	54	No	56	No	No	2
279-2	B	66	58	No	60	No	No	2
280-3	B	66	59	No	61	No	No	2
281-1	B	66	55	No	58	No	No	3
282-2	B	66	60	No	62	No	No	2
283-3	B	66	61	No	63	No	No	2
284-1	B	66	57	No	61	No	No	4
285-2	B	66	62	No	64	No	No	2
286-3	B	66	63	No	65	No	No	2
287-1	B	66	60	No	62	No	No	2
288-2	B	66	65	No	66	Yes	No	1
289-3	B	66	66	Yes	68	Yes	No	2
290-1	B	66	63	No	65	No	No	2
291-2	B	66	67	Yes	69	Yes	No	2
292-3	B	66	68	Yes	70	Yes	No	2
293-1	B	66	55	No	56	No	No	1
294-2	B	66	59	No	60	No	No	1
295-3	B	66	60	No	61	No	No	1
296-1	B	66	56	No	57	No	No	1
297-2	B	66	60	No	61	No	No	1
298-3	B	66	60	No	62	No	No	2
299-1	B	66	57	No	58	No	No	1
300-2	B	66	61	No	62	No	No	1
301-3	B	66	62	No	63	No	No	1
302-1	B	66	58	No	59	No	No	1
303-2	B	66	62	No	64	No	No	2
304-3	B	66	63	No	65	No	No	2
305-1	B	66	60	No	62	No	No	2
306-2	B	66	65	No	66	Yes	No	1
307-3	B	66	65	No	68	Yes	No	3
308-1	B	66	59	No	60	No	No	1
309-2	B	66	62	No	62	No	No	0
310-3	B	66	62	No	63	No	No	1
311-4	B	66	63	No	64	No	No	1
312-1	B	66	59	No	60	No	No	1
313-2	B	66	62	No	62	No	No	0
314-3	B	66	62	No	63	No	No	1
315-4	B	66	63	No	64	No	No	1
316-1	B	66	59	No	60	No	No	1
317-2	B	66	62	No	62	No	No	0
318-3	B	66	62	No	63	No	No	1
319-4	B	66	63	No	64	No	No	1
320-1	B	66	59	No	60	No	No	1
321-2	B	66	62	No	62	No	No	0
322-3	B	66	62	No	63	No	No	1
323-4	B	66	63	No	64	No	No	1

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
324-1	B	66	59	No	60	No	No	1
325-2	B	66	62	No	62	No	No	0
326-3	B	66	63	No	63	No	No	0
327-4	B	66	63	No	64	No	No	1
328-1	B	66	60	No	60	No	No	0
329-2	B	66	62	No	62	No	No	0
330-3	B	66	63	No	64	No	No	1
331-4	B	66	63	No	64	No	No	1
332-1	B	66	60	No	60	No	No	0
333-2	B	66	63	No	63	No	No	0
334-3	B	66	63	No	64	No	No	1
335-4	B	66	64	No	65	No	No	1
336-1	B	66	60	No	60	No	No	0
337-2	B	66	63	No	63	No	No	0
338-3	B	66	63	No	64	No	No	1
339-4	B	66	64	No	65	No	No	1
340-1	B	66	53	No	55	No	No	2
341-2	B	66	56	No	57	No	No	1
342-3	B	66	57	No	58	No	No	1
343-4	B	66	58	No	59	No	No	1
344-1	B	66	43	No	43	No	No	0
345-2	B	66	44	No	45	No	No	1
346-3	B	66	45	No	45	No	No	0
347-4	B	66	47	No	47	No	No	0
348-1	B	66	43	No	43	No	No	0
349-2	B	66	44	No	45	No	No	1
350-3	B	66	45	No	45	No	No	0
351-4	B	66	47	No	47	No	No	0
352-1	B	66	56	No	55	No	No	-1
353-2	B	66	58	No	58	No	No	0
354-3	B	66	59	No	59	No	No	0
355-4	B	66	59	No	60	No	No	1
388-1	B	66	61	No	61	No	No	0
389-2	B	66	63	No	64	No	No	1
390-3	B	66	64	No	65	No	No	1
391-4	B	66	64	No	66	Yes	No	2
392-1	B	66	61	No	61	No	No	0
393-2	B	66	63	No	63	No	No	0
394-3	B	66	64	No	65	No	No	1
395-4	B	66	64	No	66	Yes	No	2
396-1	B	66	61	No	61	No	No	0
397-2	B	66	63	No	63	No	No	0
398-3	B	66	64	No	65	No	No	1
399-4	B	66	64	No	66	Yes	No	2
400-1	B	66	61	No	61	No	No	0
401-2	B	66	63	No	63	No	No	0

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
402-3	B	66	64	No	65	No	No	1
403-4	B	66	64	No	65	No	No	1
404-1	B	66	56	No	57	No	No	1
405-2	B	66	59	No	60	No	No	1
406-3	B	66	60	No	61	No	No	1
407-4	B	66	60	No	62	No	No	2
408-1	B	66	48	No	49	No	No	1
409-2	B	66	50	No	51	No	No	1
410-3	B	66	51	No	52	No	No	1
411-4	B	66	52	No	52	No	No	0
412-1	B	66	46	No	46	No	No	0
413-2	B	66	47	No	47	No	No	0
414-3	B	66	49	No	48	No	No	-1
415-4	B	66	50	No	50	No	No	0
416-1	B	66	46	No	46	No	No	0
417-2	B	66	48	No	47	No	No	-1
418-3	B	66	50	No	49	No	No	-1
419-4	B	66	51	No	51	No	No	0
420-1	B	66	61	No	61	No	No	0
421-2	B	66	63	No	63	No	No	0
422-3	B	66	64	No	64	No	No	0
423-4	B	66	64	No	65	No	No	1
424-1	B	66	61	No	60	No	No	-1
425-2	B	66	63	No	63	No	No	0
426-3	B	66	64	No	64	No	No	0
427-4	B	66	64	No	65	No	No	1
428-1	B	66	61	No	60	No	No	-1
429-2	B	66	63	No	63	No	No	0
430-3	B	66	64	No	64	No	No	0
431-4	B	66	64	No	65	No	No	1
432-1	B	66	62	No	60	No	No	-2
433-2	B	66	64	No	63	No	No	-1
434-3	B	66	65	No	64	No	No	-1
435-4	B	66	65	No	65	No	No	0
436-1	B	66	47	No	46	No	No	-1
437-2	B	66	49	No	48	No	No	-1
438-3	B	66	51	No	50	No	No	-1
439-4	B	66	52	No	51	No	No	-1
440-1	B	66	48	No	47	No	No	-1
441-2	B	66	51	No	49	No	No	-2
442-3	B	66	53	No	51	No	No	-2
443-4	B	66	54	No	52	No	No	-2
444-1	B	66	51	No	49	No	No	-2
445-2	B	66	55	No	52	No	No	-3
446-3	B	66	55	No	53	No	No	-2
447-4	B	66	56	No	53	No	No	-3

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
448-1	B	66	57	No	55	No	No	-2
449-2	B	66	60	No	57	No	No	-3
450-3	B	66	60	No	58	No	No	-2
451-4	B	66	60	No	59	No	No	-1
452	E	71	64	No	64	No	No	0
453	B	66	64	No	64	No	No	0
454	B	66	66	Yes	68	Yes	No	2
455	B	66	69	Yes	68	Yes	No	-1
456	B	66	67	Yes	66	Yes	No	-1
457	B	66	56	No	54	No	No	-2
458	B	66	63	No	63	No	No	0
459	B	66	65	No	65	No	No	0
460	B	66	61	No	62	No	No	1
461	B	66	58	No	59	No	No	1
462	B	66	58	No	58	No	No	0
463	B	66	56	No	57	No	No	1
464	B	66	55	No	56	No	No	1
465	B	66	55	No	55	No	No	0
466	B	66	57	No	58	No	No	1
467	B	66	55	No	55	No	No	0
468	B	66	54	No	54	No	No	0
469	B	66	53	No	53	No	No	0
470	B	66	53	No	53	No	No	0
471	B	66	53	No	52	No	No	-1
472	B	66	53	No	52	No	No	-1
473	B	66	66	Yes	67	Yes	No	1
474	B	66	66	Yes	67	Yes	No	1
475	B	66	67	Yes	68	Yes	No	1
476	B	66	67	Yes	68	Yes	No	1
477	B	66	68	Yes	69	Yes	No	1
478	B	66	68	Yes	69	Yes	No	1
479	B	66	68	Yes	69	Yes	No	1
480	B	66	66	Yes	67	Yes	No	1
481	B	66	57	No	60	No	No	3
482	B	66	57	No	60	No	No	3
483	B	66	57	No	61	No	No	4
484	B	66	58	No	62	No	No	4
485	B	66	59	No	63	No	No	4
486	B	66	61	No	64	No	No	3
487	B	66	64	No	65	No	No	1
488	B	66	55	No	57	No	No	2
489	B	66	54	No	58	No	No	4
490	B	66	55	No	59	No	No	4
491	B	66	56	No	60	No	No	4
492	B	66	58	No	62	No	No	4
493	B	66	60	No	63	No	No	3

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
494	B	66	53	No	57	No	No	4
495	B	66	54	No	57	No	No	3
496	B	66	55	No	59	No	No	4
497	B	66	56	No	60	No	No	4
498	B	66	58	No	61	No	No	3
499	B	66	61	No	62	No	No	1
500	B	66	56	No	59	No	No	3
501	B	66	57	No	59	No	No	2
502	B	66	58	No	59	No	No	1
503	B	66	61	No	62	No	No	1
504	B	66	60	No	62	No	No	2
505	B	66	59	No	60	No	No	1
506	B	66	58	No	59	No	No	1
507	B	66	58	No	58	No	No	0
508	B	66	57	No	57	No	No	0
509	B	66	51	No	52	No	No	1
510	B	66	51	No	54	No	No	3
511	B	66	53	No	57	No	No	4
512	B	66	56	No	58	No	No	2
513	B	66	57	No	59	No	No	2
514	B	66	57	No	59	No	No	2
515	B	66	60	No	62	No	No	2
516	B	66	59	No	61	No	No	2
517	B	66	59	No	61	No	No	2
518	B	66	58	No	60	No	No	2
519	B	66	57	No	60	No	No	3
520	B	66	54	No	58	No	No	4
521	B	66	58	No	61	No	No	3
522	B	66	58	No	61	No	No	3
523	B	66	58	No	61	No	No	3
524	B	66	58	No	60	No	No	2
525-1	B	66	64	No	67	Yes	No	3
526-2	B	66	66	Yes	69	Yes	No	3
527-3	B	66	66	Yes	71	Yes	No	5
528-1	B	66	64	No	67	Yes	No	3
529-2	B	66	66	Yes	69	Yes	No	3
530-3	B	66	66	Yes	71	Yes	No	5
531-1	B	66	64	No	66	Yes	No	2
532-2	B	66	66	Yes	69	Yes	No	3
533-3	B	66	66	Yes	71	Yes	No	5
534-1	B	66	64	No	67	Yes	No	3
535-2	B	66	66	Yes	69	Yes	No	3
536-3	B	66	66	Yes	71	Yes	No	5
537-1	B	66	64	No	66	Yes	No	2
538-2	B	66	65	No	69	Yes	No	4
539-3	B	66	66	Yes	71	Yes	No	5

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
540-1	B	66	64	No	67	Yes	No	3
541-2	B	66	66	Yes	70	Yes	No	4
542-3	B	66	66	Yes	71	Yes	No	5
543-1	B	66	58	No	60	No	No	2
544-2	B	66	60	No	63	No	No	3
545-3	B	66	61	No	65	No	No	4
546-1	B	66	49	No	54	No	No	5
547-2	B	66	51	No	55	No	No	4
548-3	B	66	57	No	62	No	No	5
549-1	B	66	49	No	54	No	No	5
550-2	B	66	50	No	55	No	No	5
551-3	B	66	58	No	62	No	No	4
552-1	B	66	48	No	53	No	No	5
553-2	B	66	50	No	54	No	No	4
554-3	B	66	55	No	60	No	No	5
555-1	B	66	60	No	63	No	No	3
556-2	B	66	62	No	66	Yes	No	4
557-3	B	66	62	No	68	Yes	No	6
558-1	B	66	64	No	66	Yes	No	2
559-2	B	66	65	No	69	Yes	No	4
560-3	B	66	66	Yes	71	Yes	No	5
561-1	B	66	64	No	66	Yes	No	2
562-2	B	66	65	No	69	Yes	No	4
563-3	B	66	66	Yes	71	Yes	No	5
564-1	B	66	63	No	66	Yes	No	3
565-2	B	66	65	No	69	Yes	No	4
566-3	B	66	66	Yes	71	Yes	No	5
567-1	B	66	63	No	66	Yes	No	3
568-2	B	66	65	No	69	Yes	No	4
569-3	B	66	66	Yes	71	Yes	No	5
570-1	B	66	63	No	65	No	No	2
571-2	B	66	65	No	69	Yes	No	4
572-3	B	66	65	No	71	Yes	No	6
573-1	B	66	62	No	65	No	No	3
574-2	B	66	64	No	68	Yes	No	4
575-3	B	66	65	No	70	Yes	No	5
576-1	B	66	58	No	62	No	No	4
577-2	B	66	60	No	64	No	No	4
578-3	B	66	63	No	68	Yes	No	5
579-1	B	66	49	No	55	No	No	6
580-2	B	66	52	No	58	No	No	6
581-3	B	66	62	No	67	Yes	No	5
582-1	B	66	50	No	55	No	No	5
583-2	B	66	53	No	59	No	No	6
584-3	B	66	64	No	69	Yes	No	5
585-1	B	66	50	No	55	No	No	5

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
586-2	B	66	54	No	60	No	No	6
587-3	B	66	65	No	70	Yes	No	5
588-1	B	66	50	No	55	No	No	5
589-2	B	66	54	No	59	No	No	5
590-3	B	66	64	No	70	Yes	No	6
591-1	B	66	54	No	59	No	No	5
592-2	B	66	56	No	62	No	No	6
593-3	B	66	64	No	69	Yes	No	5
594	C	66	61	No	64	No	No	3
595-1	B	66	54	No	57	No	No	3
596-2	B	66	56	No	60	No	No	4
597-3	B	66	58	No	62	No	No	4
598-1	B	66	55	No	58	No	No	3
599-2	B	66	57	No	60	No	No	3
600-3	B	66	58	No	63	No	No	5
601-1	B	66	56	No	59	No	No	3
602-2	B	66	58	No	61	No	No	3
603-3	B	66	59	No	64	No	No	5
604-1	B	66	55	No	59	No	No	4
605-2	B	66	58	No	61	No	No	3
606-3	B	66	59	No	65	No	No	6
607-1	B	66	55	No	59	No	No	4
608-2	B	66	57	No	61	No	No	4
609-3	B	66	59	No	65	No	No	6
610-1	B	66	53	No	55	No	No	2
611-2	B	66	55	No	58	No	No	3
612-3	B	66	56	No	60	No	No	4
613-1	B	66	44	No	48	No	No	4
614-2	B	66	44	No	48	No	No	4
615-3	B	66	49	No	54	No	No	5
616-1	B	66	44	No	48	No	No	4
617-2	B	66	44	No	48	No	No	4
618-3	B	66	49	No	54	No	No	5
619-1	B	66	44	No	48	No	No	4
620-2	B	66	44	No	48	No	No	4
621-3	B	66	48	No	53	No	No	5
622-1	B	66	43	No	48	No	No	5
623-2	B	66	44	No	48	No	No	4
624-3	B	66	49	No	53	No	No	4
625-1	B	66	50	No	56	No	No	6
626-2	B	66	52	No	58	No	No	6
627-3	B	66	54	No	61	No	No	7
628-1	B	66	55	No	60	No	No	5
629-2	B	66	56	No	62	No	No	6
630-3	B	66	61	No	66	Yes	No	5
631-1	B	66	55	No	60	No	No	5

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
632-2	B	66	57	No	64	No	No	7
633-3	B	66	62	No	67	Yes	No	5
634-1	B	66	56	No	61	No	No	5
635-2	B	66	59	No	64	No	No	5
636-3	B	66	62	No	68	Yes	No	6
637-1	B	66	57	No	62	No	No	5
638-2	B	66	60	No	65	No	No	5
639-3	B	66	62	No	68	Yes	No	6
640-1	B	66	57	No	62	No	No	5
641-2	B	66	60	No	65	No	No	5
642-3	B	66	62	No	68	Yes	No	6
643-1	B	66	57	No	63	No	No	6
644-2	B	66	61	No	66	Yes	No	5
645-3	B	66	62	No	68	Yes	No	6
646-1	B	66	49	No	54	No	No	5
647-2	B	66	52	No	56	No	No	4
648-3	B	66	54	No	58	No	No	4
649-1	B	66	45	No	50	No	No	5
650-2	B	66	47	No	51	No	No	4
651-3	B	66	52	No	57	No	No	5
652-1	B	66	46	No	51	No	No	5
653-2	B	66	48	No	53	No	No	5
654-3	B	66	56	No	61	No	No	5
655-1	B	66	47	No	51	No	No	4
656-2	B	66	48	No	52	No	No	4
657-3	B	66	56	No	60	No	No	4
658-1	B	66	47	No	51	No	No	4
659-2	B	66	49	No	52	No	No	3
660-3	B	66	54	No	58	No	No	4
661-1	B	66	53	No	59	No	No	6
662-2	B	66	56	No	62	No	No	6
663-3	B	66	58	No	64	No	No	6
664	C	66	57	No	62	No	No	5
665	C	66	59	No	63	No	No	4
666-1	B	66	67	Yes	70	Yes	No	3
667-2	B	66	71	Yes	77	Yes	No	6
668-3	B	66	71	Yes	78	Yes	No	7
669-1	B	66	67	Yes	67	Yes	No	0
670-2	B	66	71	Yes	77	Yes	No	6
671-3	B	66	71	Yes	78	Yes	No	7
672-1	B	66	68	Yes	65	No	No	-3
673-2	B	66	71	Yes	76	Yes	No	5
674-3	B	66	71	Yes	79	Yes	No	8
675-1	B	66	68	Yes	64	No	No	-4
676-2	B	66	71	Yes	74	Yes	No	3
677-3	B	66	71	Yes	79	Yes	No	8

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
678-1	B	66	68	Yes	63	No	No	-5
679-2	B	66	71	Yes	72	Yes	No	1
680-3	B	66	71	Yes	78	Yes	No	7
681-1	B	66	68	Yes	62	No	No	-6
682-2	B	66	71	Yes	70	Yes	No	-1
683-3	B	66	71	Yes	78	Yes	No	7
684-1	B	66	62	No	65	No	No	3
685-2	B	66	65	No	70	Yes	No	5
686-3	B	66	65	No	71	Yes	No	6
687-1	B	66	55	No	60	No	No	5
688-2	B	66	57	No	62	No	No	5
689-3	B	66	59	No	65	No	No	6
690-1	B	66	54	No	58	No	No	4
691-2	B	66	55	No	59	No	No	4
692-3	B	66	58	No	63	No	No	5
693-1	B	66	52	No	57	No	No	5
694-2	B	66	54	No	58	No	No	4
695-3	B	66	57	No	63	No	No	6
696-1	B	66	53	No	57	No	No	4
697-2	B	66	54	No	58	No	No	4
698-3	B	66	57	No	63	No	No	6
699-1	B	66	55	No	57	No	No	2
700-2	B	66	58	No	60	No	No	2
701-3	B	66	59	No	63	No	No	4
702-1	B	66	67	Yes	68	Yes	No	1
703-2	B	66	68	Yes	70	Yes	No	2
704-3	B	66	69	Yes	73	Yes	No	4
705-1	B	66	63	No	64	No	No	1
706-2	B	66	65	No	67	Yes	No	2
707-3	B	66	65	No	69	Yes	No	4
708-1	B	66	61	No	62	No	No	1
709-2	B	66	63	No	66	Yes	No	3
710-3	B	66	64	No	68	Yes	No	4
711-1	B	66	60	No	62	No	No	2
712-2	B	66	62	No	66	Yes	No	4
713-3	B	66	63	No	67	Yes	No	4
714-1	B	66	59	No	62	No	No	3
715-2	B	66	61	No	65	No	No	4
716-3	B	66	62	No	66	Yes	No	4
717-1	B	66	58	No	62	No	No	4
718-2	B	66	60	No	64	No	No	4
719-3	B	66	61	No	66	Yes	No	5
720-1	B	66	67	Yes	68	Yes	No	1
721-2	B	66	68	Yes	70	Yes	No	2
722-3	B	66	69	Yes	73	Yes	No	4
723-1	B	66	64	No	66	Yes	No	2

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
724-2	B	66	65	No	68	Yes	No	3
725-3	B	66	65	No	70	Yes	No	5
726-1	B	66	62	No	64	No	No	2
727-2	B	66	63	No	67	Yes	No	4
728-3	B	66	64	No	68	Yes	No	4
729-1	B	66	61	No	64	No	No	3
730-2	B	66	62	No	66	Yes	No	4
731-3	B	66	63	No	67	Yes	No	4
732-1	B	66	60	No	63	No	No	3
733-2	B	66	61	No	65	No	No	4
734-3	B	66	62	No	67	Yes	No	5
735-1	B	66	59	No	62	No	No	3
736-2	B	66	61	No	64	No	No	3
737-3	B	66	61	No	66	Yes	No	5
738	D	51	40	No	42	No	No	2
739	B	66	68	Yes	NA ^b	—	—	—
740	B	66	70	Yes	NA ^b	—	—	—
741-3	B	66	61	No	63	No	No	2
742-4	B	66	61	No	64	No	No	3
743-5	B	66	62	No	65	No	No	3
744-3	B	66	63	No	65	No	No	2
745-4	B	66	64	No	66	Yes	No	2
746-5	B	66	64	No	67	Yes	No	3
747-3	B	66	65	No	66	Yes	No	1
748-4	B	66	65	No	68	Yes	No	3
749-5	B	66	66	Yes	68	Yes	No	2
750-3	B	66	65	No	66	Yes	No	1
751-4	B	66	65	No	67	Yes	No	2
752-5	B	66	66	Yes	68	Yes	No	2
753-3	B	66	65	No	66	Yes	No	1
754-4	B	66	65	No	68	Yes	No	3
755-5	B	66	66	Yes	68	Yes	No	2
756-3	B	66	65	No	66	Yes	No	1
757-4	B	66	65	No	67	Yes	No	2
758-5	B	66	66	Yes	68	Yes	No	2
759-3	B	66	44	No	47	No	No	3
760-4	B	66	44	No	47	No	No	3
761-5	B	66	46	No	49	No	No	3
762-3	B	66	45	No	48	No	No	3
763-4	B	66	46	No	49	No	No	3
764-5	B	66	48	No	51	No	No	3
765-3	B	66	53	No	55	No	No	2
766-4	B	66	53	No	55	No	No	2
767-5	B	66	54	No	57	No	No	3
768-3	B	66	59	No	61	No	No	2
769-4	B	66	60	No	62	No	No	2

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
770-5	B	66	60	No	63	No	No	3
771-3	B	66	65	No	66	Yes	No	1
772-4	B	66	66	Yes	67	Yes	No	1
773-5	B	66	66	Yes	68	Yes	No	2
774-3	B	66	65	No	66	Yes	No	1
775-4	B	66	66	Yes	67	Yes	No	1
776-5	B	66	66	Yes	68	Yes	No	2
777-3	B	66	65	No	66	Yes	No	1
778-4	B	66	65	No	67	Yes	No	2
779-5	B	66	66	Yes	68	Yes	No	2
780-3	B	66	65	No	66	Yes	No	1
781-4	B	66	66	Yes	67	Yes	No	1
782-5	B	66	66	Yes	68	Yes	No	2
783-3	B	66	64	No	65	No	No	1
784-4	B	66	65	No	66	Yes	No	1
785-5	B	66	65	No	67	Yes	No	2
786-3	B	66	60	No	61	No	No	1
787-4	B	66	61	No	63	No	No	2
788-5	B	66	62	No	64	No	No	2
789-3	B	66	51	No	51	No	No	0
790-4	B	66	52	No	53	No	No	1
791-5	B	66	55	No	56	No	No	1
792-3	B	66	44	No	46	No	No	2
793-4	B	66	44	No	46	No	No	2
794-5	B	66	46	No	49	No	No	3
795-3	B	66	44	No	46	No	No	2
796-4	B	66	44	No	46	No	No	2
797-5	B	66	47	No	49	No	No	2
798-3	B	66	54	No	56	No	No	2
799-4	B	66	54	No	56	No	No	2
800-5	B	66	55	No	57	No	No	2
801	E	71	65	No	65	No	No	0
802	E	71	65	No	65	No	No	0
803	E	71	68	No	68	No	No	0
804-3	B	66	59	No	60	No	No	1
805-4	B	66	60	No	61	No	No	1
806-5	B	66	60	No	62	No	No	2
807-3	B	66	61	No	62	No	No	1
808-4	B	66	61	No	63	No	No	2
809-5	B	66	61	No	64	No	No	3
810-3	B	66	62	No	63	No	No	1
811-4	B	66	63	No	64	No	No	1
812-5	B	66	63	No	65	No	No	2
813-3	B	66	64	No	65	No	No	1
814-4	B	66	65	No	66	Yes	No	1
815-5	B	66	65	No	67	Yes	No	2

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
816-3	B	66	64	No	65	No	No	1
817-4	B	66	66	Yes	67	Yes	No	1
818-5	B	66	66	Yes	68	Yes	No	2
819-3	B	66	64	No	65	No	No	1
820-4	B	66	65	No	67	Yes	No	2
821-5	B	66	65	No	67	Yes	No	2
822-3	B	66	61	No	61	No	No	0
823-4	B	66	62	No	64	No	No	2
824-5	B	66	63	No	65	No	No	2
825-3	B	66	59	No	59	No	No	0
826-4	B	66	60	No	61	No	No	1
827-5	B	66	61	No	63	No	No	2
828-3	B	66	59	No	60	No	No	1
829-4	B	66	60	No	61	No	No	1
830-5	B	66	62	No	63	No	No	1
831-3	B	66	60	No	61	No	No	1
832-4	B	66	61	No	62	No	No	1
833-5	B	66	62	No	64	No	No	2
834-3	B	66	60	No	61	No	No	1
835-4	B	66	61	No	62	No	No	1
836-5	B	66	62	No	64	No	No	2
837-3	B	66	60	No	61	No	No	1
838-4	B	66	61	No	63	No	No	2
839-5	B	66	62	No	64	No	No	2
840-3	B	66	60	No	61	No	No	1
841-4	B	66	61	No	63	No	No	2
842-5	B	66	62	No	64	No	No	2
843-3	B	66	60	No	61	No	No	1
844-4	B	66	61	No	62	No	No	1
845-5	B	66	62	No	63	No	No	1
846-3	B	66	60	No	61	No	No	1
847-4	B	66	61	No	63	No	No	2
848-5	B	66	62	No	64	No	No	2
849-3	B	66	61	No	62	No	No	1
850-4	B	66	62	No	64	No	No	2
851-5	B	66	63	No	65	No	No	2
852-3	B	66	63	No	64	No	No	1
853-4	B	66	65	No	66	Yes	No	1
854-5	B	66	65	No	67	Yes	No	2
855-3	B	66	64	No	65	No	No	1
856-4	B	66	66	Yes	67	Yes	No	1
857-5	B	66	66	Yes	68	Yes	No	2
858-3	B	66	63	No	63	No	No	0
859-4	B	66	64	No	65	No	No	1
860-5	B	66	64	No	66	Yes	No	2
861-3	B	66	61	No	61	No	No	0

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
862-4	B	66	62	No	62	No	No	0
863-5	B	66	63	No	64	No	No	1
864-3	B	66	60	No	60	No	No	0
865-4	B	66	61	No	61	No	No	0
866-5	B	66	62	No	63	No	No	1
867-3	B	66	60	No	59	No	No	-1
868-4	B	66	60	No	60	No	No	0
869-5	B	66	61	No	62	No	No	1
870-3	B	66	42	No	44	No	No	2
871-4	B	66	44	No	46	No	No	2
872-5	B	66	46	No	48	No	No	2
873-3	B	66	42	No	43	No	No	1
874-4	B	66	44	No	46	No	No	2
875-5	B	66	45	No	48	No	No	3
876-3	B	66	42	No	43	No	No	1
877-4	B	66	43	No	45	No	No	2
878-5	B	66	45	No	47	No	No	2
879-3	B	66	41	No	43	No	No	2
880-4	B	66	43	No	45	No	No	2
881-5	B	66	45	No	47	No	No	2
882-3	B	66	41	No	43	No	No	2
883-4	B	66	43	No	45	No	No	2
884-5	B	66	45	No	47	No	No	2
885-3	B	66	41	No	43	No	No	2
886-4	B	66	43	No	45	No	No	2
887-5	B	66	45	No	47	No	No	2
888-3	B	66	41	No	43	No	No	2
889-4	B	66	43	No	45	No	No	2
890-5	B	66	45	No	47	No	No	2
891-3	B	66	42	No	44	No	No	2
892-4	B	66	43	No	45	No	No	2
893-5	B	66	45	No	47	No	No	2
894-3	B	66	44	No	46	No	No	2
895-4	B	66	46	No	48	No	No	2
896-5	B	66	47	No	49	No	No	2
897-3	B	66	51	No	53	No	No	2
898-4	B	66	52	No	54	No	No	2
899-5	B	66	52	No	55	No	No	3
900-3	B	66	56	No	57	No	No	1
901-4	B	66	57	No	58	No	No	1
902-5	B	66	57	No	59	No	No	2
903-2	B	66	64	No	64	No	No	0
904-3	B	66	65	No	66	Yes	No	1
905-4	B	66	66	Yes	67	Yes	No	1
906-5	B	66	66	Yes	67	Yes	No	1
907-2	B	66	64	No	64	No	No	0

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
908-3	B	66	65	No	66	Yes	No	1
909-4	B	66	65	No	67	Yes	No	2
910-5	B	66	66	Yes	67	Yes	No	1
911-2	B	66	49	No	50	No	No	1
912-3	B	66	49	No	51	No	No	2
913-4	B	66	50	No	52	No	No	2
914-5	B	66	52	No	54	No	No	2
915-2	B	66	44	No	45	No	No	1
916-3	B	66	44	No	46	No	No	2
917-4	B	66	46	No	48	No	No	2
918-5	B	66	49	No	51	No	No	2
919-2	B	66	64	No	64	No	No	0
920-3	B	66	65	No	66	Yes	No	1
921-4	B	66	65	No	67	Yes	No	2
922-5	B	66	66	Yes	67	Yes	No	1
923-2	B	66	64	No	64	No	No	0
924-3	B	66	65	No	66	Yes	No	1
925-4	B	66	65	No	67	Yes	No	2
926-5	B	66	66	Yes	67	Yes	No	1
927-2	B	66	44	No	46	No	No	2
928-3	B	66	44	No	45	No	No	1
929-4	B	66	47	No	48	No	No	1
930-5	B	66	49	No	51	No	No	2
931-2	B	66	43	No	45	No	No	2
932-3	B	66	44	No	46	No	No	2
933-4	B	66	46	No	48	No	No	2
934-5	B	66	48	No	50	No	No	2
935-2	B	66	63	No	63	No	No	0
936-3	B	66	65	No	66	Yes	No	1
937-4	B	66	65	No	67	Yes	No	2
938-5	B	66	66	Yes	67	Yes	No	1
939-2	B	66	63	No	62	No	No	-1
940-3	B	66	65	No	66	Yes	No	1
941-4	B	66	65	No	67	Yes	No	2
942-5	B	66	66	Yes	67	Yes	No	1
943-2	B	66	44	No	45	No	No	1
944-3	B	66	42	No	44	No	No	2
945-4	B	66	46	No	47	No	No	1
946-5	B	66	47	No	49	No	No	2
947-2	B	66	44	No	45	No	No	1
948-3	B	66	43	No	44	No	No	1
949-4	B	66	45	No	47	No	No	2
950-5	B	66	47	No	49	No	No	2
951-2	B	66	62	No	62	No	No	0
952-3	B	66	65	No	65	No	No	0
953-4	B	66	65	No	67	Yes	No	2

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
954-5	B	66	66	Yes	67	Yes	No	1
955-2	B	66	62	No	62	No	No	0
956-3	B	66	65	No	65	No	No	0
957-4	B	66	65	No	67	Yes	No	2
958-5	B	66	66	Yes	67	Yes	No	1
959-2	B	66	44	No	45	No	No	1
960-3	B	66	42	No	44	No	No	2
961-4	B	66	45	No	47	No	No	2
962-5	B	66	47	No	49	No	No	2
963-2	B	66	44	No	45	No	No	1
964-3	B	66	42	No	44	No	No	2
965-4	B	66	46	No	47	No	No	1
966-5	B	66	47	No	49	No	No	2
967-2	B	66	63	No	63	No	No	0
968-3	B	66	65	No	65	No	No	0
969-4	B	66	65	No	67	Yes	No	2
970-5	B	66	66	Yes	67	Yes	No	1
971-2	B	66	63	No	64	No	No	1
972-3	B	66	65	No	65	No	No	0
973-4	B	66	65	No	67	Yes	No	2
974-5	B	66	66	Yes	67	Yes	No	1
975-2	B	66	44	No	45	No	No	1
976-3	B	66	42	No	44	No	No	2
977-4	B	66	46	No	48	No	No	2
978-5	B	66	48	No	49	No	No	1
979-2	B	66	49	No	50	No	No	1
980-3	B	66	52	No	53	No	No	1
981-4	B	66	53	No	55	No	No	2
982-5	B	66	54	No	55	No	No	1
983	E	71	66	No	65	No	No	-1
984	E	71	66	No	65	No	No	-1
985	C	66	50	No	51	No	No	1
986-2	B	66	52	No	53	No	No	1
987-3	B	66	55	No	55	No	No	0
988-4	B	66	56	No	57	No	No	1
989-5	B	66	57	No	58	No	No	1
990-2	B	66	55	No	55	No	No	0
991-3	B	66	56	No	56	No	No	0
992-4	B	66	57	No	58	No	No	1
993-5	B	66	57	No	59	No	No	2
994-2	B	66	55	No	55	No	No	0
995-3	B	66	57	No	57	No	No	0
996-4	B	66	58	No	58	No	No	0
997-5	B	66	58	No	59	No	No	1
998-2	B	66	56	No	56	No	No	0
999-3	B	66	58	No	58	No	No	0

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
1000-4	B	66	59	No	59	No	No	0
1001-5	B	66	59	No	60	No	No	1
1002-2	B	66	58	No	58	No	No	0
1003-3	B	66	59	No	59	No	No	0
1004-4	B	66	60	No	61	No	No	1
1005-5	B	66	60	No	62	No	No	2
1006-2	B	66	59	No	59	No	No	0
1007-3	B	66	60	No	60	No	No	0
1008-4	B	66	61	No	61	No	No	0
1009-5	B	66	61	No	62	No	No	1
1010	B	66	72	Yes	73	Yes	No	1
1070	B	66	64	No	62	No	No	-2
1071	B	66	64	No	62	No	No	-2
1072	B	66	67	Yes	65	No	No	-2
1073	B	66	65	No	63	No	No	-2
1074	B	66	63	No	62	No	No	-1
1075	B	66	62	No	61	No	No	-1
1076	B	66	60	No	59	No	No	-1
1077	B	66	55	No	55	No	No	0
1078	B	66	65	No	63	No	No	-2
1079	B	66	63	No	61	No	No	-2
1080	B	66	60	No	58	No	No	-2
1081	B	66	58	No	56	No	No	-2
1082	B	66	56	No	55	No	No	-1
1083	B	66	53	No	53	No	No	0
1084	B	66	52	No	53	No	No	1
1085	B	66	63	No	60	No	No	-3
1086	B	66	59	No	57	No	No	-2
1087	B	66	57	No	55	No	No	-2
1088	B	66	56	No	55	No	No	-1
1089	B	66	54	No	53	No	No	-1
1090	B	66	61	No	59	No	No	-2
1091	B	66	55	No	54	No	No	-1
1092	B	66	53	No	53	No	No	0
1093	B	66	50	No	51	No	No	1
1094	B	66	48	No	49	No	No	1
1095	B	66	65	No	63	No	No	-2
1096	B	66	64	No	62	No	No	-2
1097	B	66	63	No	61	No	No	-2
1098	B	66	62	No	60	No	No	-2
1099	B	66	62	No	59	No	No	-3
1100	B	66	61	No	59	No	No	-2
1101	B	66	58	No	56	No	No	-2
1102	B	66	55	No	53	No	No	-2
1103	B	66	53	No	52	No	No	-1
1104	B	66	52	No	50	No	No	-2

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
1105	B	66	51	No	49	No	No	-2
1106	B	66	49	No	48	No	No	-1
1107	B	66	48	No	47	No	No	-1
1108	B	66	48	No	47	No	No	-1
1109	B	66	46	No	45	No	No	-1
1110	B	66	60	No	58	No	No	-2
1111	B	66	58	No	56	No	No	-2
1112	B	66	56	No	54	No	No	-2
1113	B	66	54	No	52	No	No	-2
1114	B	66	52	No	51	No	No	-1
1115	B	66	59	No	57	No	No	-2
1116	B	66	58	No	56	No	No	-2
1117	B	66	56	No	55	No	No	-1
1118	B	66	55	No	53	No	No	-2
1119	B	66	53	No	51	No	No	-2
1120	B	66	51	No	50	No	No	-1
1121	B	66	48	No	47	No	No	-1
1122	B	66	45	No	44	No	No	-1
1123	B	66	47	No	47	No	No	0
1124	B	66	48	No	47	No	No	-1
1125	B	66	49	No	48	No	No	-1
1126	B	66	50	No	49	No	No	-1
1127	B	66	48	No	47	No	No	-1
1128	B	66	36	No	38	No	No	2
1129	B	66	46	No	45	No	No	-1
1130	B	66	45	No	45	No	No	0
1131	B	66	41	No	42	No	No	1
1132	B	66	40	No	41	No	No	1
1133	B	66	38	No	39	No	No	1
1134	B	66	40	No	41	No	No	1
1135	B	66	36	No	37	No	No	1
1136	B	66	34	No	36	No	No	2
1137	B	66	35	No	36	No	No	1
1138	B	66	46	No	45	No	No	-1
1139	B	66	33	No	35	No	No	2
1140	B	66	32	No	34	No	No	2
1141	B	66	33	No	35	No	No	2
1142	B	66	33	No	35	No	No	2
1143	B	66	60	No	58	No	No	-2
1144	B	66	58	No	56	No	No	-2
1145	B	66	53	No	51	No	No	-2
1146	B	66	49	No	48	No	No	-1
1147	B	66	48	No	47	No	No	-1
1148	B	66	47	No	46	No	No	-1
1149	B	66	46	No	45	No	No	-1
1150	B	66	46	No	46	No	No	0

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
1151	B	66	46	No	45	No	No	-1
1152	B	66	45	No	44	No	No	-1
1153	B	66	43	No	43	No	No	0
1154	B	66	40	No	41	No	No	1
1155	B	66	39	No	39	No	No	0
1156	B	66	37	No	38	No	No	1
1157	B	66	35	No	36	No	No	1
1158	B	66	38	No	35	No	No	-3
1159	B	66	38	No	39	No	No	1
1160	B	66	58	No	57	No	No	-1
1161	B	66	56	No	55	No	No	-1
1162	B	66	55	No	54	No	No	-1
1163	B	66	53	No	53	No	No	0
1164	B	66	52	No	52	No	No	0
1165	B	66	49	No	50	No	No	1
1166	B	66	47	No	48	No	No	1
1167	B	66	46	No	46	No	No	0
1168	B	66	44	No	45	No	No	1
1169	B	66	43	No	44	No	No	1
1170	B	66	41	No	43	No	No	2
1171	B	66	39	No	41	No	No	2
1172	B	66	40	No	41	No	No	1
1173	B	66	38	No	42	No	No	4
1174	E	71	72	Yes	71	Yes	No	-1
1175	B	66	72	Yes	72	Yes	No	0
1176	B	66	59	No	57	No	No	-2
1177	B	66	59	No	57	No	No	-2
1178	B	66	59	No	58	No	No	-1
1179	B	66	59	No	58	No	No	-1
1180	B	66	59	No	58	No	No	-1
1181	B	66	59	No	58	No	No	-1
1182	B	66	59	No	58	No	No	-1
1183	B	66	59	No	58	No	No	-1
1184	B	66	59	No	58	No	No	-1
1185	B	66	59	No	58	No	No	-1
1186	B	66	59	No	58	No	No	-1
1187	B	66	59	No	58	No	No	-1
1188	B	66	59	No	58	No	No	-1
1189	B	66	59	No	58	No	No	-1
1190	B	66	50	No	48	No	No	-2
1191	B	66	40	No	41	No	No	1
1192	B	66	40	No	41	No	No	1
1193	B	66	40	No	41	No	No	1
1194	B	66	40	No	41	No	No	1
1195	B	66	51	No	51	No	No	0
1196	B	66	41	No	43	No	No	2

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
1197	B	66	39	No	40	No	No	1
1198	B	66	40	No	41	No	No	1
1199	B	66	47	No	47	No	No	0
1200	B	66	43	No	44	No	No	1
1201	B	66	43	No	43	No	No	0
1202	B	66	45	No	45	No	No	0
1203	B	66	52	No	51	No	No	-1
1204	B	66	36	No	37	No	No	1
1205	B	66	36	No	38	No	No	2
1206	B	66	36	No	37	No	No	1
1207	B	66	36	No	37	No	No	1
1208	B	66	36	No	37	No	No	1
1209	B	66	40	No	41	No	No	1
1210	B	66	37	No	38	No	No	1
1211	B	66	37	No	38	No	No	1
1212	B	66	38	No	39	No	No	1
1213	B	66	43	No	44	No	No	1
1214	B	66	40	No	41	No	No	1
1215	B	66	42	No	43	No	No	1
1216	B	66	47	No	47	No	No	0
1217	B	66	52	No	52	No	No	0
1218	B	66	42	No	42	No	No	0
1219	B	66	34	No	36	No	No	2
1220	B	66	34	No	36	No	No	2
1221	B	66	34	No	36	No	No	2
1222	B	66	34	No	36	No	No	2
1223	B	66	35	No	36	No	No	1
1224	B	66	36	No	37	No	No	1
1225	B	66	36	No	37	No	No	1
1226	B	66	36	No	37	No	No	1
1227	B	66	37	No	38	No	No	1
1228	B	66	41	No	43	No	No	2
1229	B	66	42	No	43	No	No	1
1230	B	66	44	No	44	No	No	0
1231	B	66	48	No	48	No	No	0
1232	B	66	69	Yes	70	Yes	No	1
1233	B	66	72	Yes	72	Yes	No	0
1234	B	66	70	Yes	70	Yes	No	0
1241	B	66	58	No	65	No	No	7
1242-2	B	66	59	No	57	No	No	-2
1243-3	B	66	60	No	59	No	No	-1
1244-4	B	66	61	No	62	No	No	1
1245-2	B	66	56	No	57	No	No	1
1246-3	B	66	58	No	60	No	No	2
1247-4	B	66	59	No	61	No	No	2
1248-2	B	66	58	No	56	No	No	-2

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
1249-3	B	66	59	No	58	No	No	-1
1250-4	B	66	60	No	60	No	No	0
1251-2	B	66	53	No	55	No	No	2
1252-3	B	66	55	No	57	No	No	2
1253-4	B	66	57	No	59	No	No	2
1254	E	71	69	No	67	No	No	-2
1255	E	71	68	No	67	No	No	-1
1256	E	71	69	No	68	No	No	-1
1257	E	71	68	No	69	No	No	1
1258	E	71	60	No	59	No	No	-1
1259	E	71	59	No	61	No	No	2
1260	E	71	55	No	56	No	No	1
1261-1	B	66	52	No	64	No	Yes	12
1262-2	B	66	56	No	67	Yes	Yes	11
1263-3	B	66	57	No	68	Yes	Yes	11
1264-1	B	66	51	No	64	No	Yes	13
1265-2	B	66	55	No	67	Yes	Yes	12
1266-3	B	66	56	No	68	Yes	Yes	12
1267-1	B	66	49	No	53	No	No	4
1268-2	B	66	54	No	56	No	No	2
1269-3	B	66	55	No	56	No	No	1
1270-1	B	66	48	No	50	No	No	2
1271-2	B	66	52	No	53	No	No	1
1272-3	B	66	53	No	53	No	No	0
1273-1	B	66	42	No	60	No	Yes	18
1274-2	B	66	43	No	63	No	Yes	20
1275-3	B	66	44	No	64	No	Yes	20
1276-1	B	66	42	No	58	No	Yes	16
1277-2	B	66	43	No	61	No	Yes	18
1278-3	B	66	45	No	63	No	Yes	18
1279-1	B	66	43	No	57	No	Yes	14
1280-2	B	66	45	No	60	No	Yes	15
1281-3	B	66	46	No	62	No	Yes	16
1282-1	B	66	43	No	55	No	Yes	12
1283-2	B	66	46	No	59	No	Yes	13
1284-3	B	66	48	No	61	No	Yes	13
1285-1	B	66	47	No	53	No	No	6
1286-2	B	66	51	No	57	No	No	6
1287-3	B	66	53	No	58	No	No	5
1288-1	B	66	47	No	55	No	No	8
1289-2	B	66	51	No	58	No	No	7
1290-3	B	66	53	No	59	No	No	6
1291-1	B	66	47	No	55	No	No	8
1292-2	B	66	51	No	58	No	No	7
1293-3	B	66	52	No	59	No	No	7
1294-1	B	66	46	No	58	No	Yes	12

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
1295-2	B	66	48	No	61	No	Yes	13
1296-3	B	66	50	No	63	No	Yes	13
1297-1	B	66	48	No	54	No	No	6
1298-2	B	66	52	No	58	No	No	6
1299-1	B	66	53	No	56	No	No	3
1300-2	B	66	55	No	59	No	No	4
1301-1	B	66	54	No	56	No	No	2
1302-2	B	66	56	No	58	No	No	2
1303-1	B	66	51	No	54	No	No	3
1304-2	B	66	54	No	57	No	No	3
1305	C	66	50	No	54	No	No	4
1306-1	B	66	60	No	61	No	No	1
1307-2	B	66	62	No	63	No	No	1
1308-1	B	66	56	No	59	No	No	3
1309-2	B	66	59	No	62	No	No	3
1310-1	B	66	54	No	57	No	No	3
1311-2	B	66	57	No	60	No	No	3
1312-1	B	66	59	No	60	No	No	1
1313-2	B	66	61	No	62	No	No	1
1315-3	B	66	60	No	65	No	No	5
1314-1	B	66	57	No	61	No	No	4
1315-2	B	66	59	No	63	No	No	4
1317-1	B	66	56	No	61	No	No	5
1318-2	B	66	59	No	63	No	No	4
1319-3	B	66	60	No	65	No	No	5
1320-1	B	66	55	No	61	No	No	6
1321-2	B	66	58	No	64	No	No	6
1322-3	B	66	59	No	65	No	No	6
1323-1	B	66	55	No	61	No	No	6
1324-2	B	66	58	No	64	No	No	6
1325-3	B	66	59	No	65	No	No	6
1326-1	B	66	46	No	48	No	No	2
1327-2	B	66	48	No	50	No	No	2
1328-3	B	66	49	No	51	No	No	2
1329-1	B	66	46	No	48	No	No	2
1330-2	B	66	48	No	50	No	No	2
1331-3	B	66	50	No	52	No	No	2
1332-1	B	66	47	No	48	No	No	1
1333-2	B	66	50	No	51	No	No	1
1334-3	B	66	51	No	53	No	No	2
1335-1	B	66	48	No	49	No	No	1
1336-2	B	66	51	No	52	No	No	1
1337-3	B	66	52	No	53	No	No	1
1338	C	66	48	No	59	No	Yes	11
1339	C	66	45	No	61	No	Yes	16
1340	C	66	41	No	60	No	Yes	19

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
1341	B	66	46	No	59	No	Yes	13
1342	C	66	55	No	60	No	No	5
1343	C	66	50	No	57	No	No	7
1344	B	66	43	No	61	No	Yes	18
1345	B	66	42	No	58	No	Yes	16
1346	B	66	42	No	57	No	Yes	15
1347	B	66	43	No	56	No	Yes	13
1348	B	66	44	No	55	No	Yes	11
1349	B	66	46	No	55	No	No	9
1350	B	66	42	No	50	No	No	8
1351	B	66	38	No	50	No	Yes	12
1352	B	66	38	No	51	No	Yes	13
1353	B	66	38	No	54	No	Yes	16
1354	B	66	41	No	59	No	Yes	18
1355	B	66	40	No	58	No	Yes	18
1356	B	66	40	No	58	No	Yes	18
1357	B	66	40	No	58	No	Yes	18
1358	B	66	40	No	52	No	Yes	12
1359	B	66	39	No	50	No	Yes	11
1360	B	66	39	No	50	No	Yes	11
1361	B	66	40	No	49	No	No	9
1362	B	66	45	No	61	No	Yes	16
1363	B	66	43	No	60	No	Yes	17
1364	B	66	47	No	62	No	Yes	15
1365	B	66	48	No	64	No	Yes	16
1366	B	66	41	No	63	No	Yes	22
1367	B	66	39	No	61	No	Yes	22
1368	B	66	39	No	60	No	Yes	21
1369	B	66	39	No	61	No	Yes	22
1370	B	66	39	No	60	No	Yes	21
1371	B	66	51	No	61	No	Yes	10
1372	B	66	49	No	59	No	Yes	10
1373	B	66	48	No	58	No	Yes	10
1374	B	66	47	No	57	No	Yes	10
1375	B	66	50	No	58	No	No	8
1376	B	66	59	No	60	No	No	1
1377	B	66	45	No	54	No	No	9
1378	B	66	44	No	60	No	Yes	16
1379	B	66	44	No	60	No	Yes	16
1380	B	66	44	No	59	No	Yes	15
1381	B	66	44	No	60	No	Yes	16
1382	B	66	44	No	60	No	Yes	16
1383	B	66	44	No	59	No	Yes	15
1384	B	66	45	No	59	No	Yes	14
1385	B	66	45	No	58	No	Yes	13
1386	B	66	45	No	58	No	Yes	13

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
1387	B	66	44	No	58	No	Yes	14
1388	B	66	45	No	60	No	Yes	15
1389	B	66	46	No	62	No	Yes	16
1390	B	66	49	No	64	No	Yes	15
1391	B	66	51	No	64	No	Yes	13
1392	B	66	54	No	63	No	No	9
1393	B	66	42	No	53	No	Yes	11
1394	B	66	40	No	50	No	Yes	10
1395	B	66	40	No	51	No	Yes	11
1396	B	66	41	No	50	No	No	9
1397	B	66	41	No	49	No	No	8
1398	B	66	42	No	50	No	No	8
1399	B	66	42	No	50	No	No	8
1400	B	66	42	No	49	No	No	7
1401	B	66	43	No	50	No	No	7
1402	B	66	42	No	49	No	No	7
1403	B	66	45	No	51	No	No	6
1404	B	66	43	No	49	No	No	6
1405	B	66	40	No	48	No	No	8
1406	B	66	49	No	54	No	No	5
1407	B	66	56	No	59	No	No	3
1408	B	66	59	No	62	No	No	3
1409	B	66	59	No	62	No	No	3
1410	B	66	59	No	63	No	No	4
1411	B	66	60	No	64	No	No	4
1412	B	66	48	No	51	No	No	3
1413	B	66	43	No	47	No	No	4
1414	B	66	41	No	45	No	No	4
1415	B	66	48	No	51	No	No	3
1416	B	66	48	No	50	No	No	2
1417	B	66	49	No	51	No	No	2
1418	B	66	50	No	53	No	No	3
1419	B	66	53	No	57	No	No	4
1420	C	66	57	No	62	No	No	5
1421	B	66	59	No	66	Yes	No	7
1422	B	66	59	No	66	Yes	No	7
1423	B	66	59	No	66	Yes	No	7
1424	B	66	58	No	64	No	No	6
1425	B	66	59	No	65	No	No	6
1426	B	66	59	No	65	No	No	6
1427	B	66	59	No	65	No	No	6
1428	B	66	58	No	64	No	No	6
1429	B	66	58	No	64	No	No	6
1430	B	66	58	No	65	No	No	7
1431	B	66	58	No	64	No	No	6
1432	B	66	58	No	64	No	No	6

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
1433	B	66	58	No	64	No	No	6
1434	B	66	47	No	53	No	No	6
1435	B	66	47	No	52	No	No	5
1436	B	66	47	No	52	No	No	5
1437	B	66	46	No	51	No	No	5
1438	B	66	46	No	52	No	No	6
1439	B	66	47	No	52	No	No	5
1440	B	66	49	No	53	No	No	4
1441	B	66	51	No	54	No	No	3
1442	B	66	51	No	55	No	No	4
1443	B	66	53	No	61	No	No	8
1444	B	66	45	No	49	No	No	4
1445	B	66	44	No	49	No	No	5
1446	B	66	41	No	46	No	No	5
1447	B	66	40	No	45	No	No	5
1448	B	66	40	No	44	No	No	4
1449	B	66	41	No	46	No	No	5
1450	B	66	42	No	47	No	No	5
1451	B	66	42	No	46	No	No	4
1452	B	66	41	No	46	No	No	5
1453	B	66	40	No	43	No	No	3
1454	B	66	39	No	44	No	No	5
1455	B	66	45	No	46	No	No	1
1456	B	66	52	No	58	No	No	6
1457	B	66	44	No	46	No	No	2
1458	B	66	42	No	46	No	No	4
1459	B	66	42	No	46	No	No	4
1460	B	66	42	No	45	No	No	3
1461	B	66	41	No	46	No	No	5
1462	B	66	45	No	46	No	No	1
1463	B	66	51	No	55	No	No	4
1464	E	71	58	No	60	No	No	2
1465	B	66	60	No	NA ^b	—	—	—
1466	B	66	60	No	62	No	No	2
1467	B	66	59	No	62	No	No	3
1468	E	71	65	No	67	No	No	2
1469	E	71	51	No	52	No	No	1
1470	E	71	59	No	58	No	No	-1
1471	E	71	65	No	69	No	No	4
1472	E	71	57	No	62	No	No	5
1473	E	71	63	No	69	No	No	6
1474	B	66	50	No	53	No	No	3
1475	B	66	55	No	61	No	No	6
1476	B	66	56	No	62	No	No	6
1477	B	66	58	No	63	No	No	5
1478	B	66	60	No	65	No	No	5

Table C-1. Alternative B Build Noise Levels

Receptor ^a	Existing				With Alternative B			
	NAC	UDOT NAC L _{eq} (h)	Existing Noise Level	Existing over NAC?	Alt B Noise Level	Alt B ≥ UDOT NAC?	Alt B ≥ 10 dBA over Existing?	Alt B Difference
1479	B	66	60	No	60	No	No	0
1480	B	66	55	No	56	No	No	1
1481	B	66	53	No	55	No	No	2
1482	B	66	51	No	54	No	No	3
1483	B	66	51	No	53	No	No	2
1484	B	66	51	No	53	No	No	2
1485	B	66	51	No	54	No	No	3
1486	B	66	51	No	54	No	No	3
1487	B	66	51	No	55	No	No	4
1488	B	66	51	No	55	No	No	4
1489	B	66	48	No	50	No	No	2
1490	B	66	48	No	49	No	No	1
1491	B	66	46	No	48	No	No	2
1492	B	66	46	No	51	No	No	5
1493	B	66	55	No	59	No	No	4
1494	B	66	53	No	57	No	No	4
1495	B	66	48	No	49	No	No	1
1496	B	66	46	No	48	No	No	2
1497	B	66	48	No	51	No	No	3
1498	B	66	50	No	55	No	No	5
1499	B	66	53	No	57	No	No	4
1500	B	66	45	No	46	No	No	1
1501	B	66	43	No	47	No	No	4
1502	B	66	45	No	50	No	No	5
1503	B	66	51	No	55	No	No	4
1504	B	66	47	No	47	No	No	0
1505	B	66	43	No	46	No	No	3
1506	B	66	45	No	49	No	No	4
1507	B	66	51	No	55	No	No	4
1508	B	66	46	No	46	No	No	0
1509	B	66	45	No	48	No	No	3
1510	B	66	48	No	52	No	No	4
1511	B	66	45	No	46	No	No	1
1512	B	66	44	No	46	No	No	2
1513	B	66	46	No	48	No	No	2
1514	E	71	65	No	66	No	No	1
1515	E	71	54	No	55	No	No	1

Definitions: dBA = A-weighted decibels; L_{eq}(h) = equivalent sound level over a 1-hour period; NAC = noise-abatement criterion

^a Receptors with a dash number (for example, 135-1, 136-2) are for apartments or condominiums with multiple floors. X-1 indicates a receptor modeled at the ground level, X-2 indicates a receptor modeled on the second floor, etc.

^b Alternative B noise level is not applicable (NA) because the entire parcel would be acquired.

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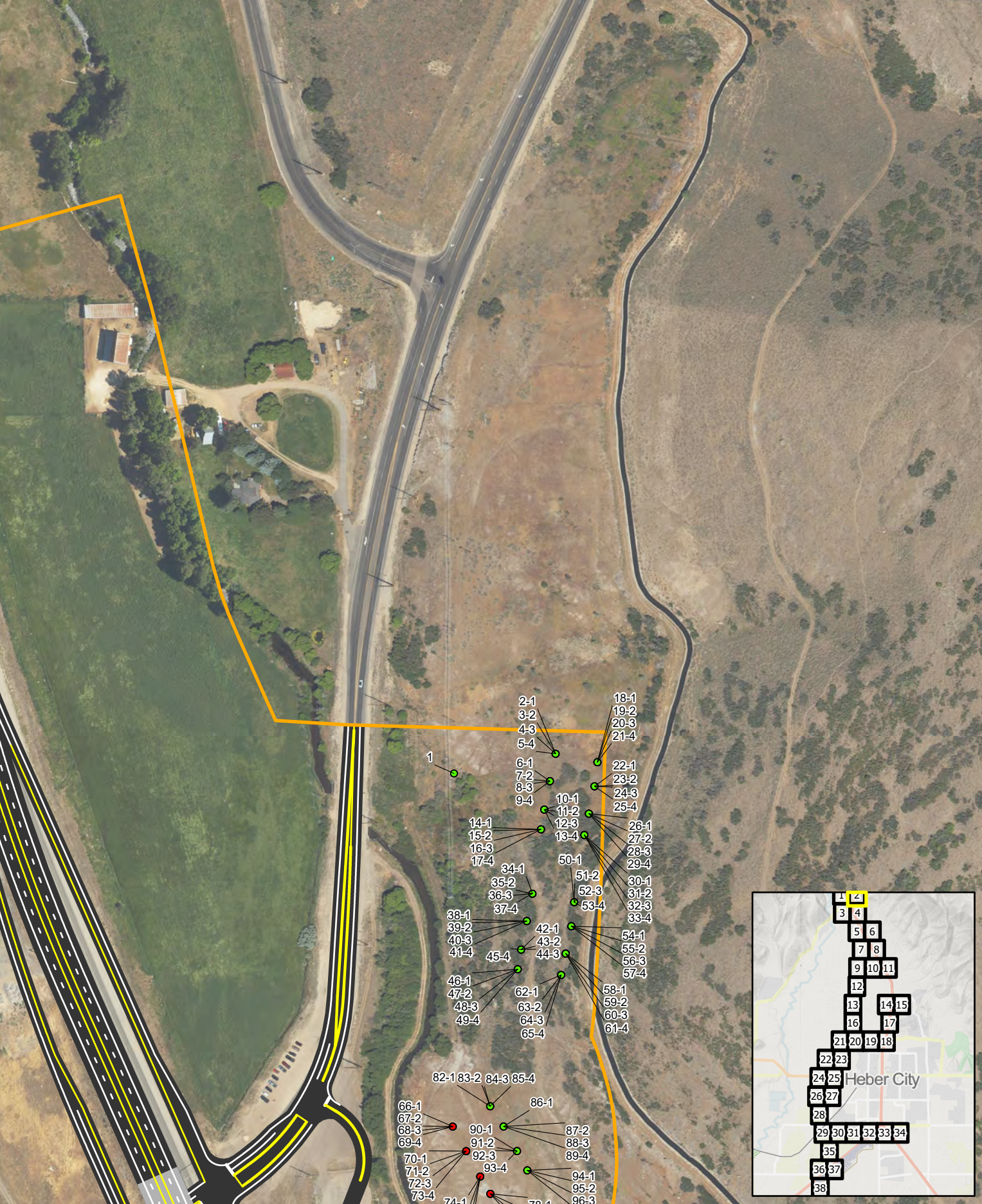


ALTERNATIVE B NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area Alt B





ALTERNATIVE B NOISE LEVELS

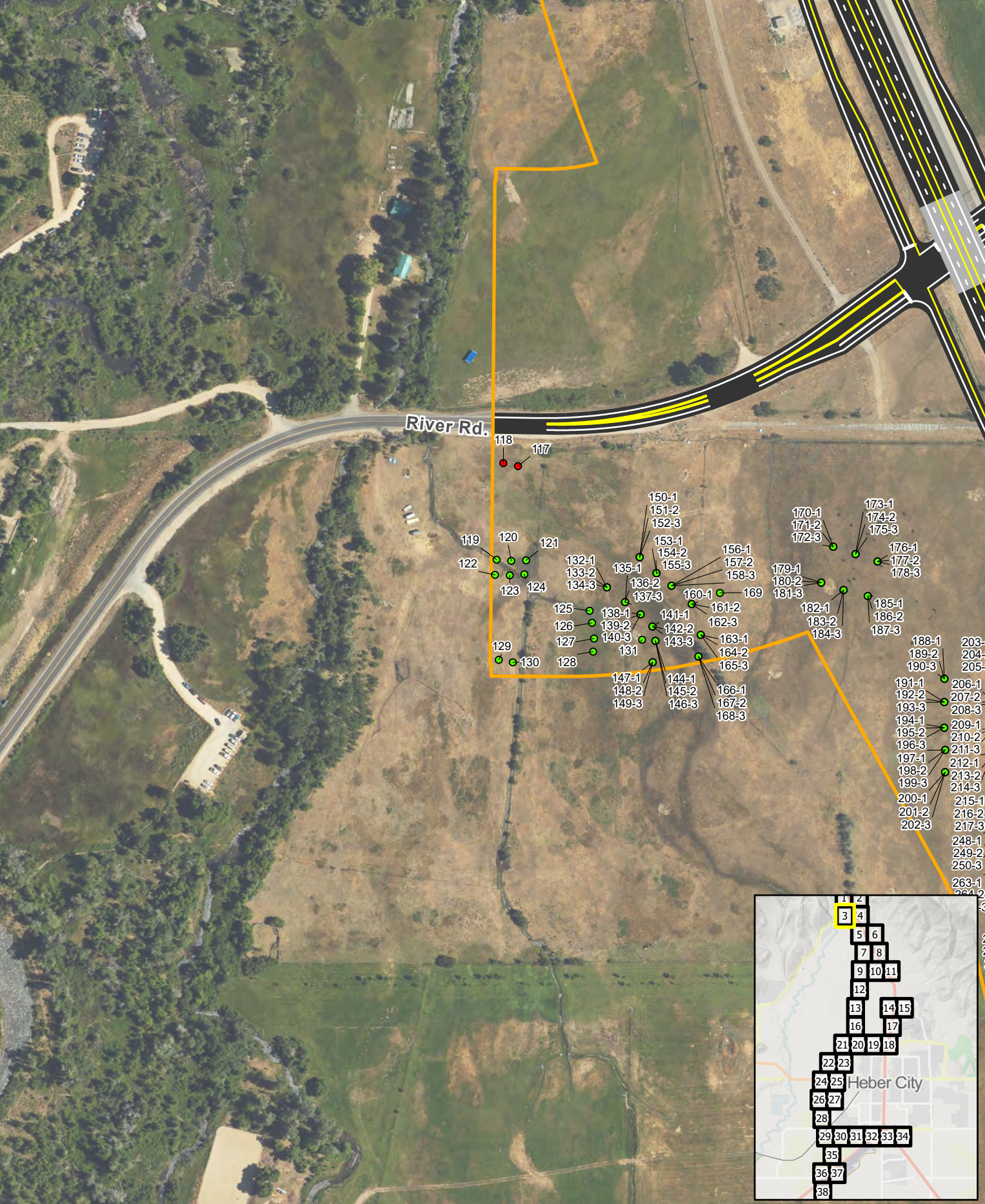
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ENVIRONMENTAL
IMPACT STATEMENT

 Noise Study Area Alt B

 Impacted

 Not Impacted





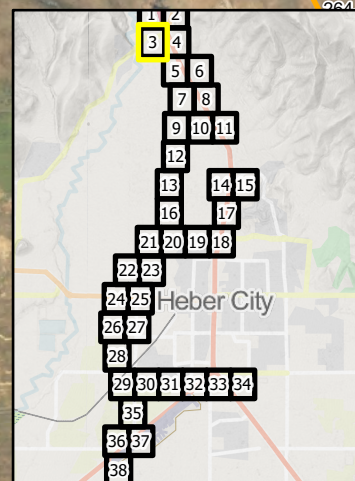
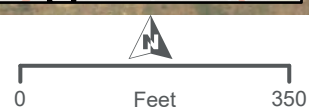
ALTERNATIVE B NOISE LEVELS

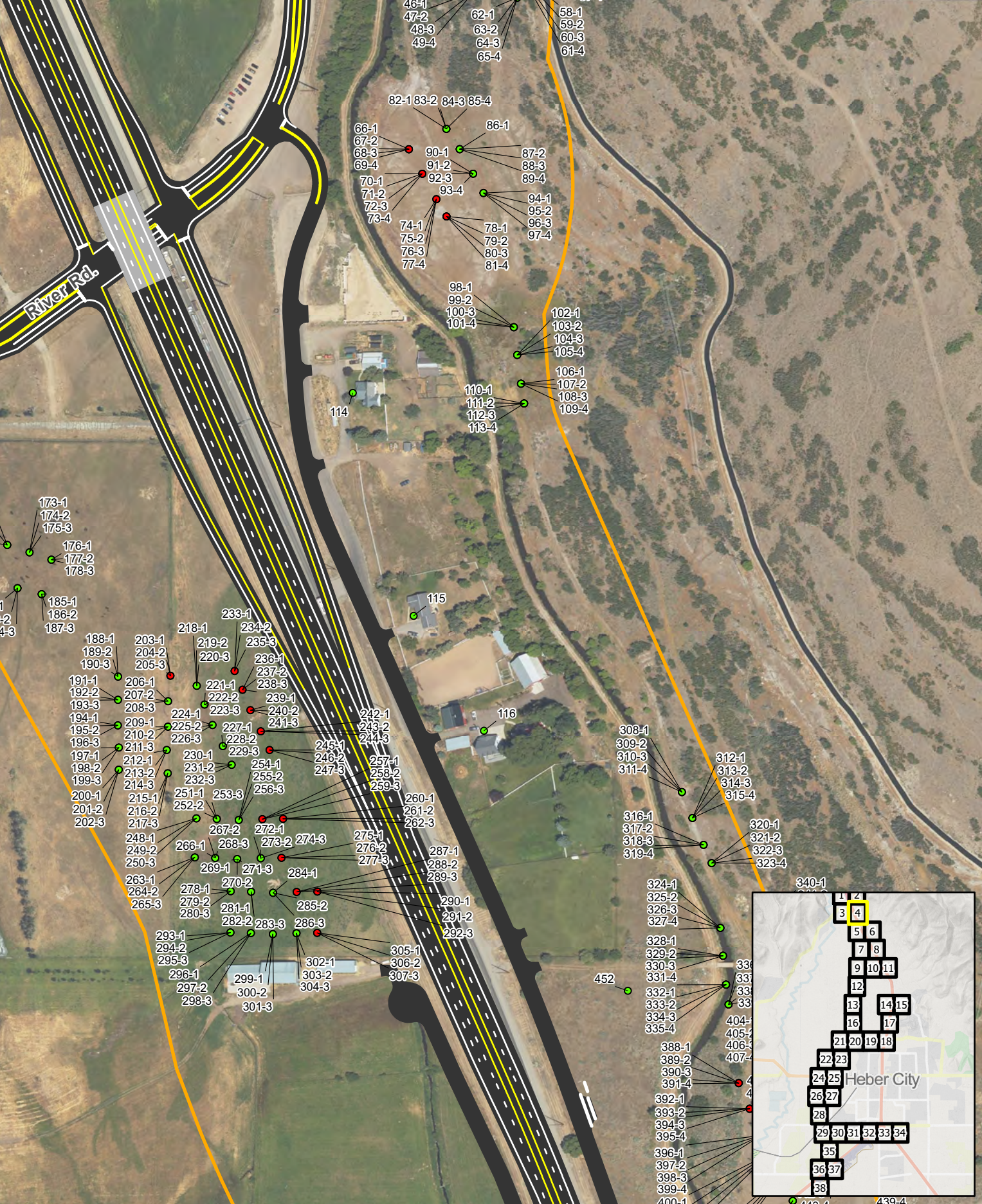
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**ENVIRONMENTAL
IMPACT STATEMENT**

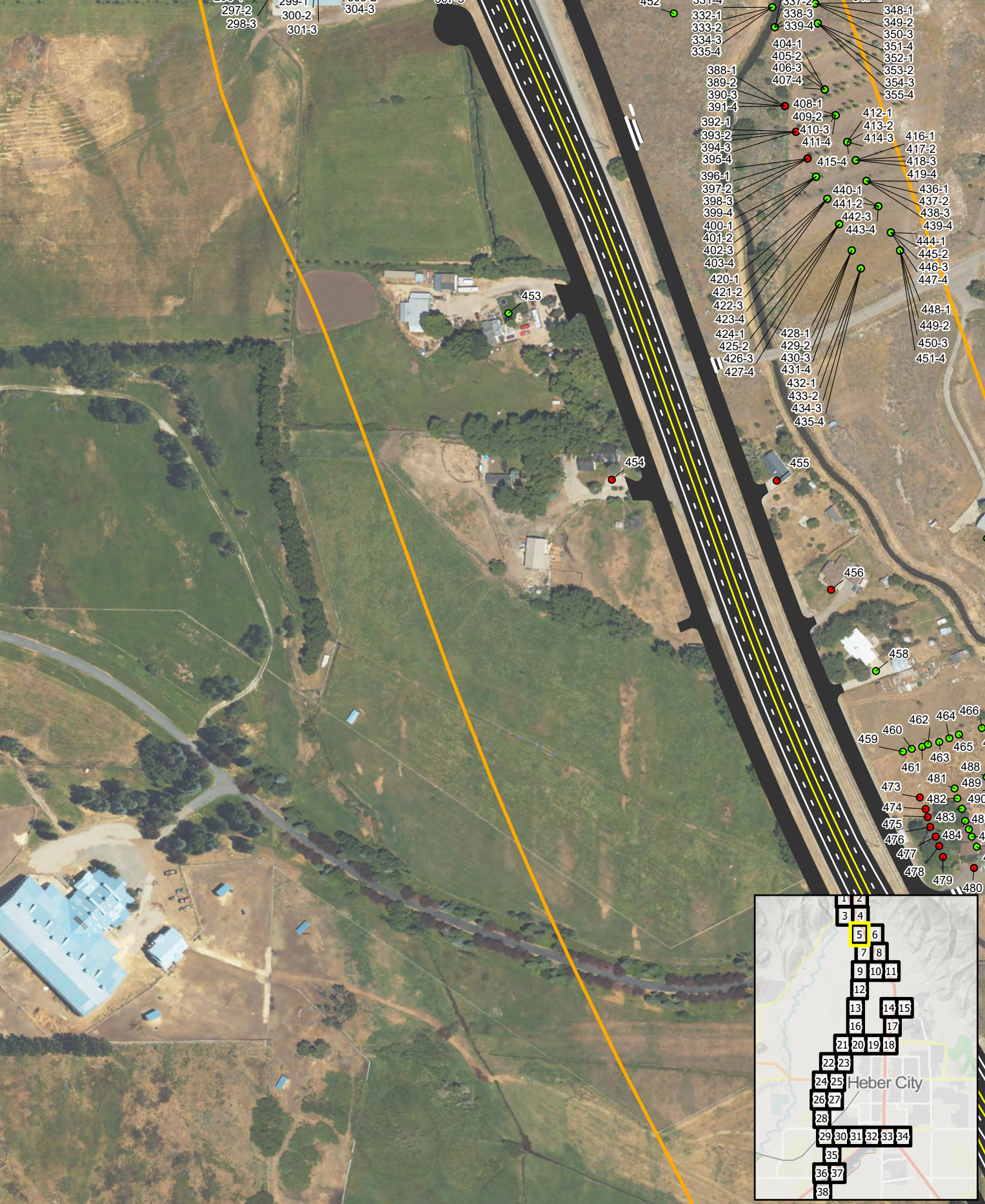
Noise Study Area Alt B

● Impacted

● Not Impacted







ALTERNATIVE B NOISE LEVELS

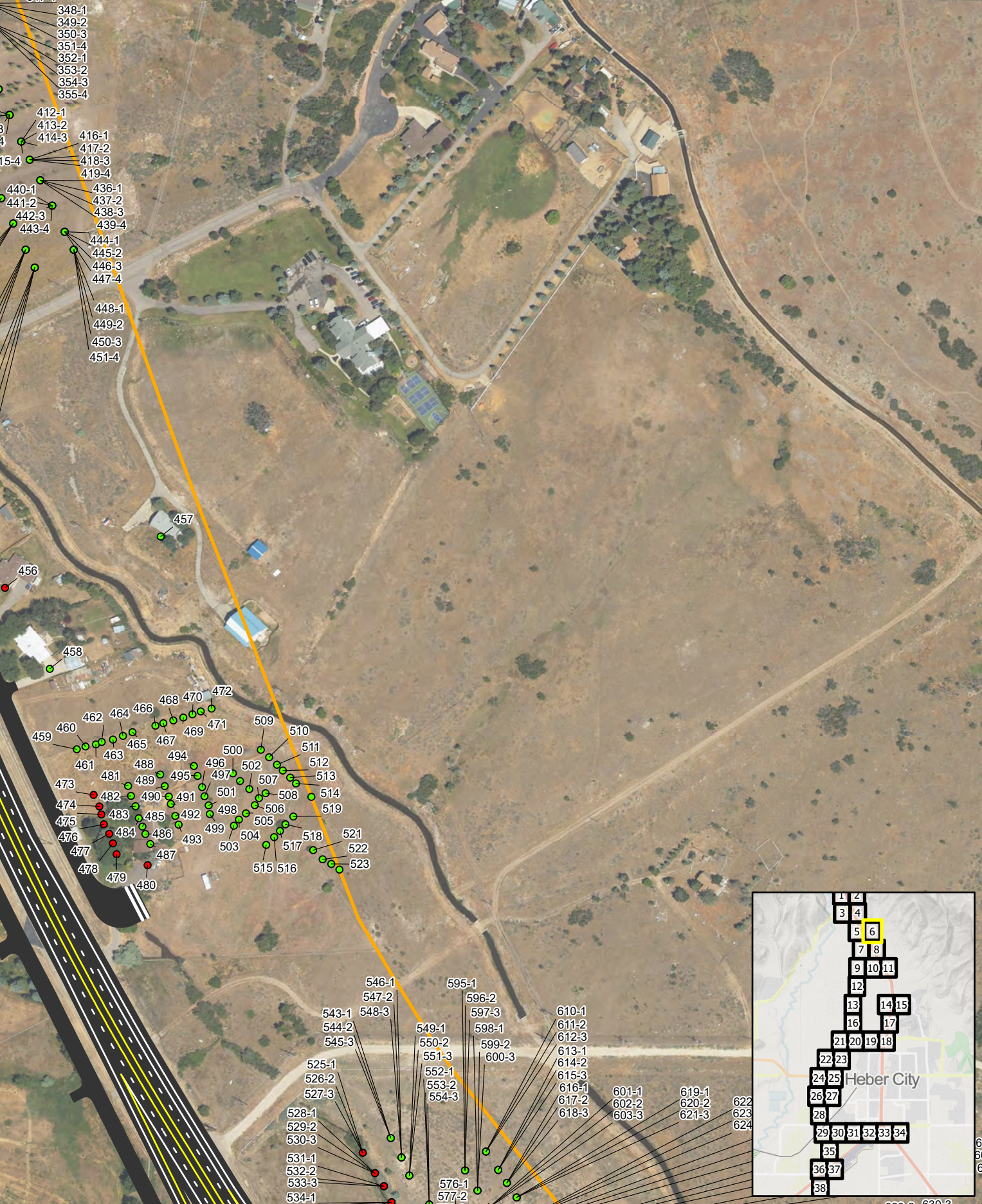
Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area Alt B

● Impacted

● Not Impacted





ALTERNATIVE B NOISE LEVELS

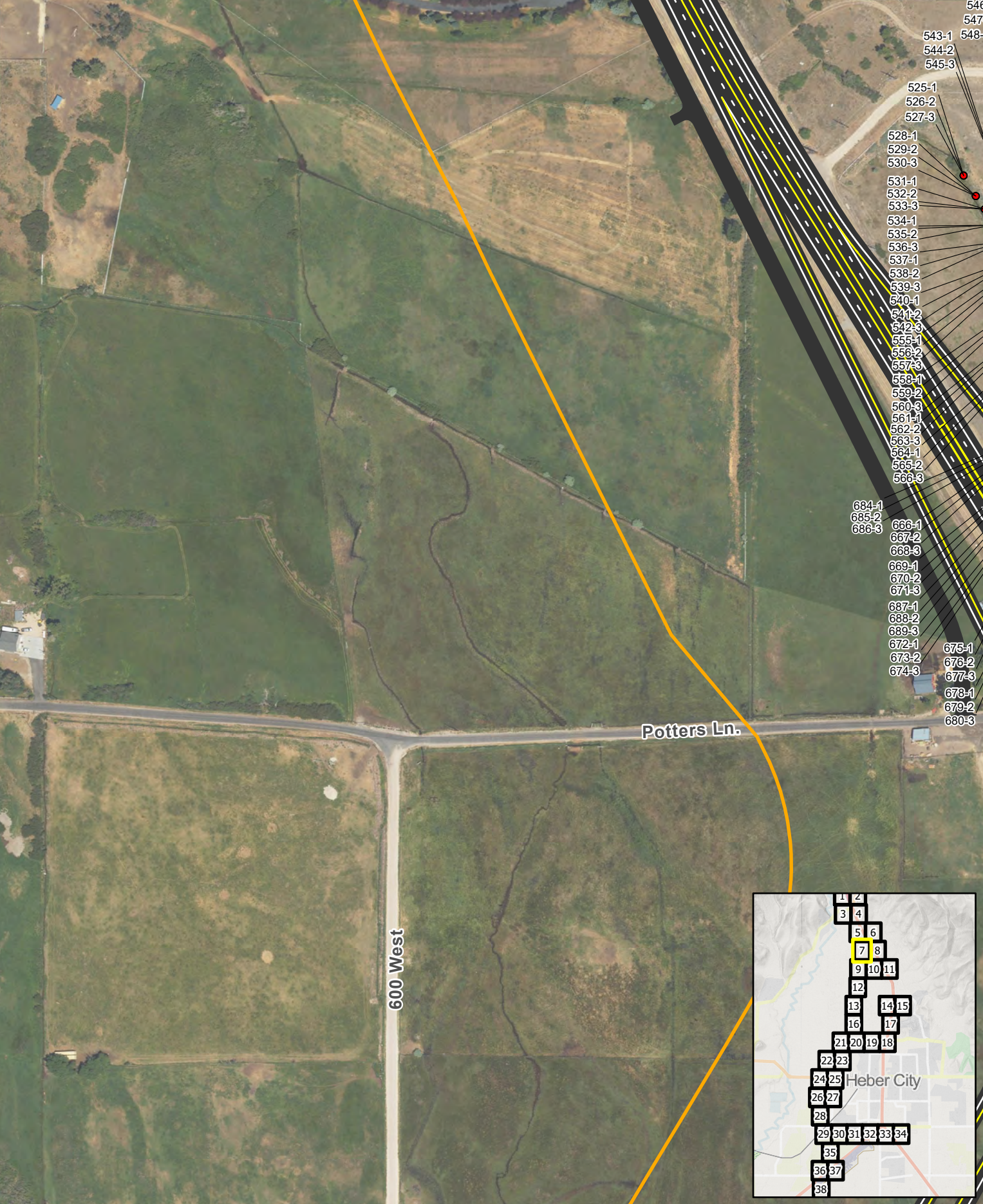
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ENVIRONMENTAL
IMPACT STATEMENT

 Noise Study Area Alt B

 Impacted

 Not Impacted





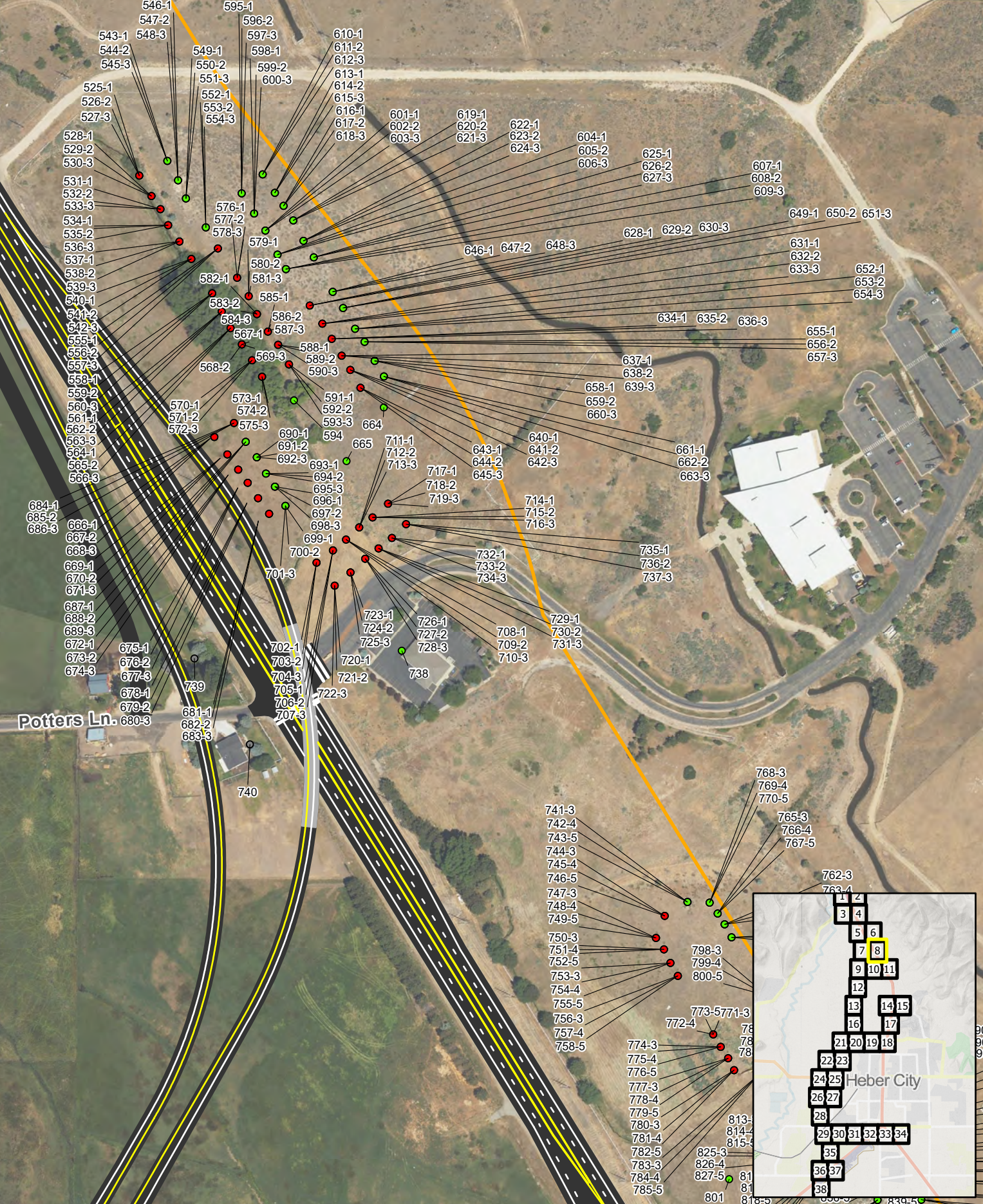
ALTERNATIVE B NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area Alt B

● Impacted





ALTERNATIVE B NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area Alt B

- Noise Receptor removed by Action Alternative
- Impacted
- Not Impacted

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Feet

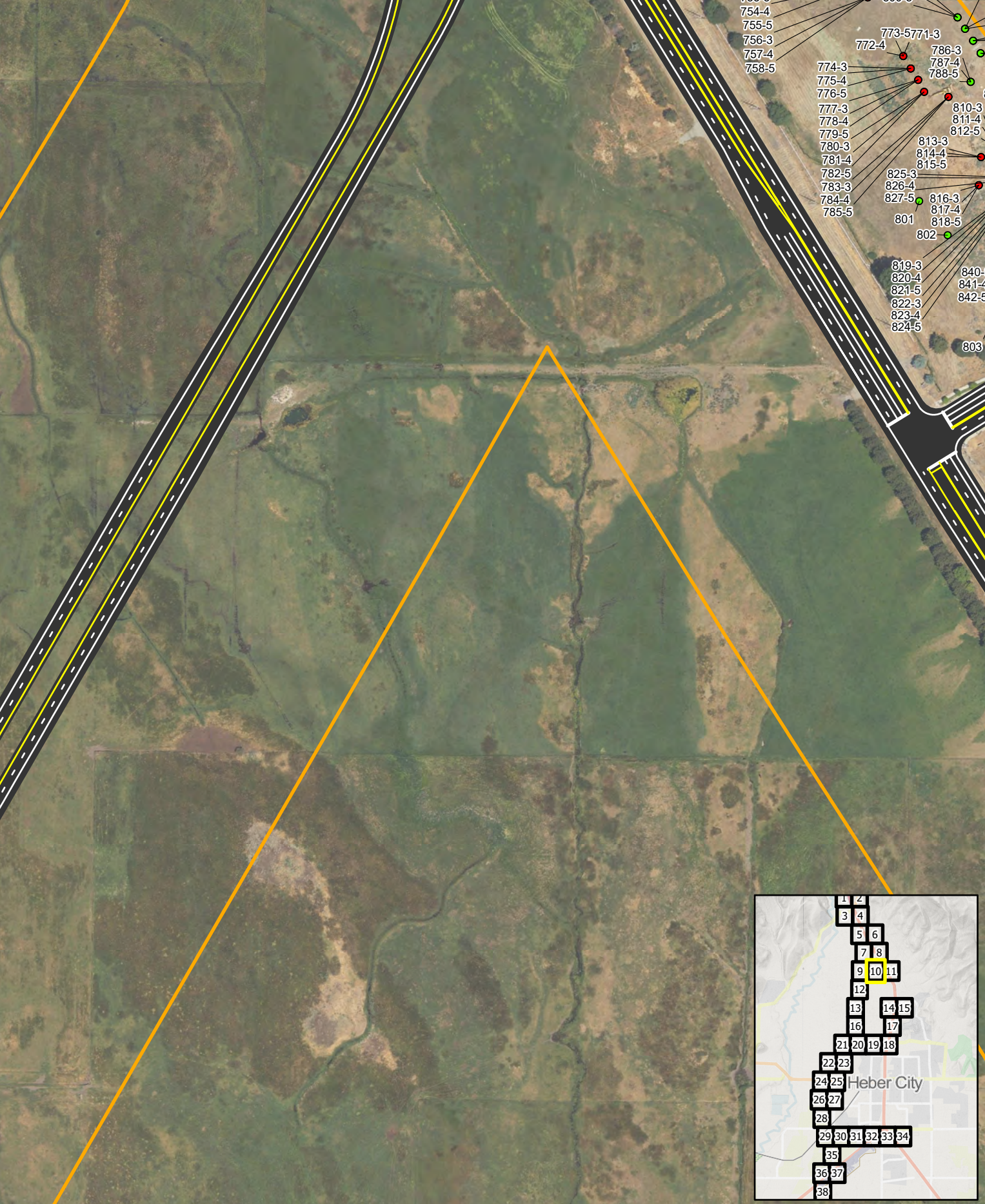


ALTERNATIVE B NOISE LEVELS

Heber Valley Corridor
**ENVIRONMENTAL
IMPACT STATEMENT**

 Noise Study Area Alt B

0 Feet 350



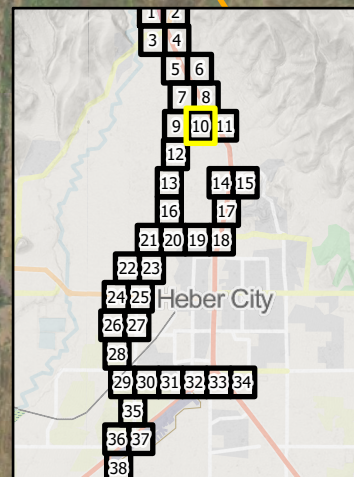
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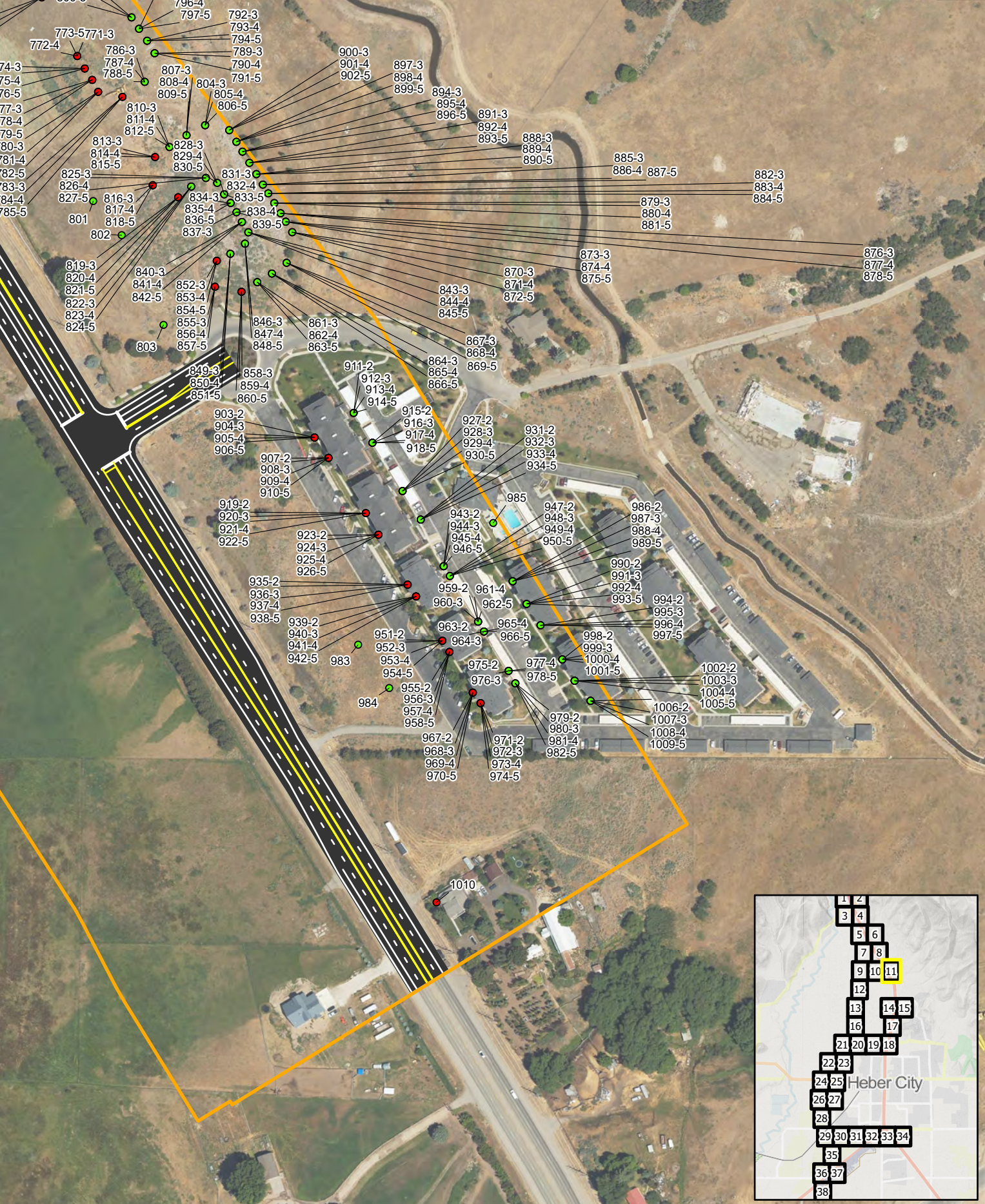
Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

 Noise Study Area Alt B

 Impacted

 Not Impacted





ALTERNATIVE B NOISE LEVELS

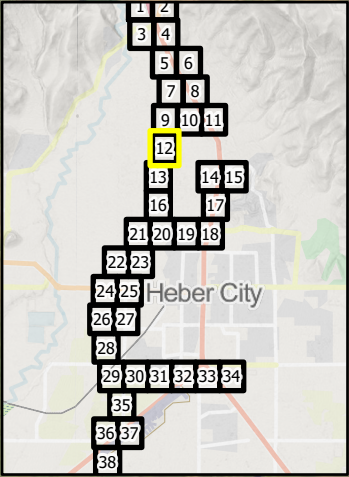
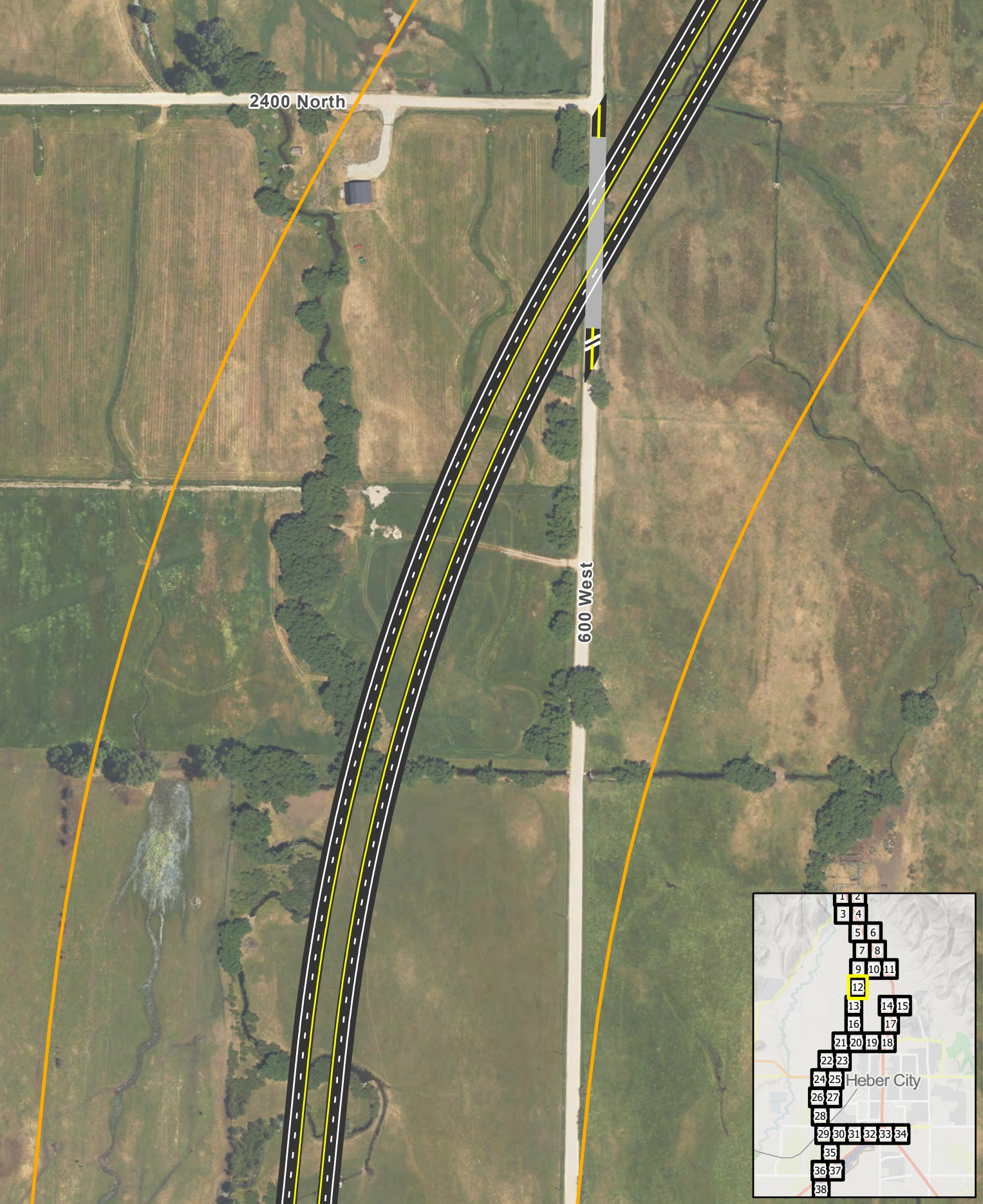
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ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area Alt B

Impacted

Not Impacted



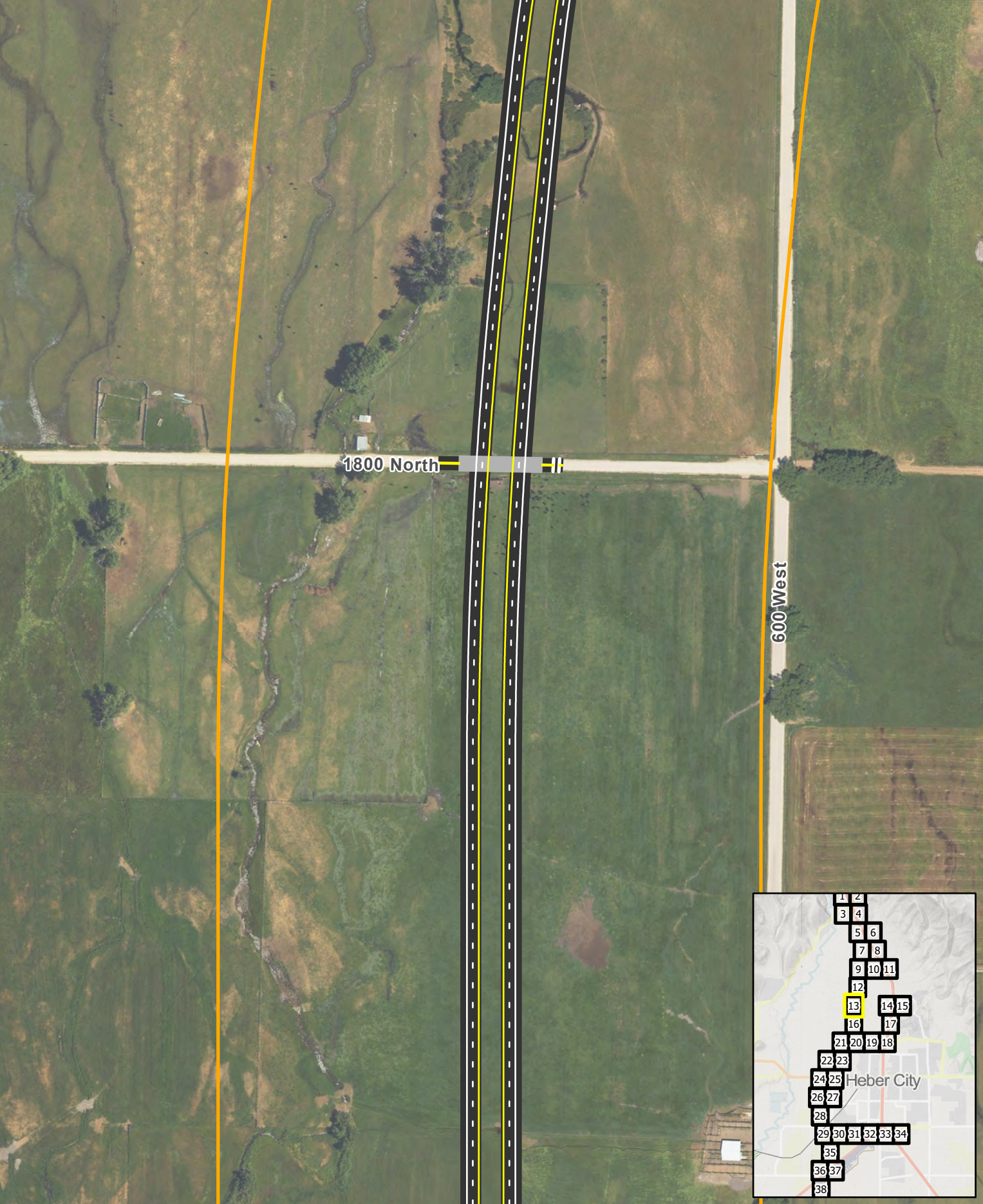


**ALTERNATIVE B
NOISE LEVELS**

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

 Noise Study Area Alt B



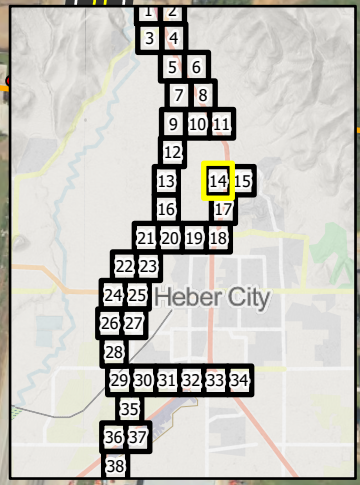


ALTERNATIVE B NOISE LEVELS

Heber Valley Corridor
**ENVIRONMENTAL
IMPACT STATEMENT**

 Noise Study Area Alt B





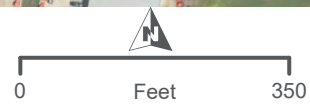
ALTERNATIVE B NOISE LEVELS

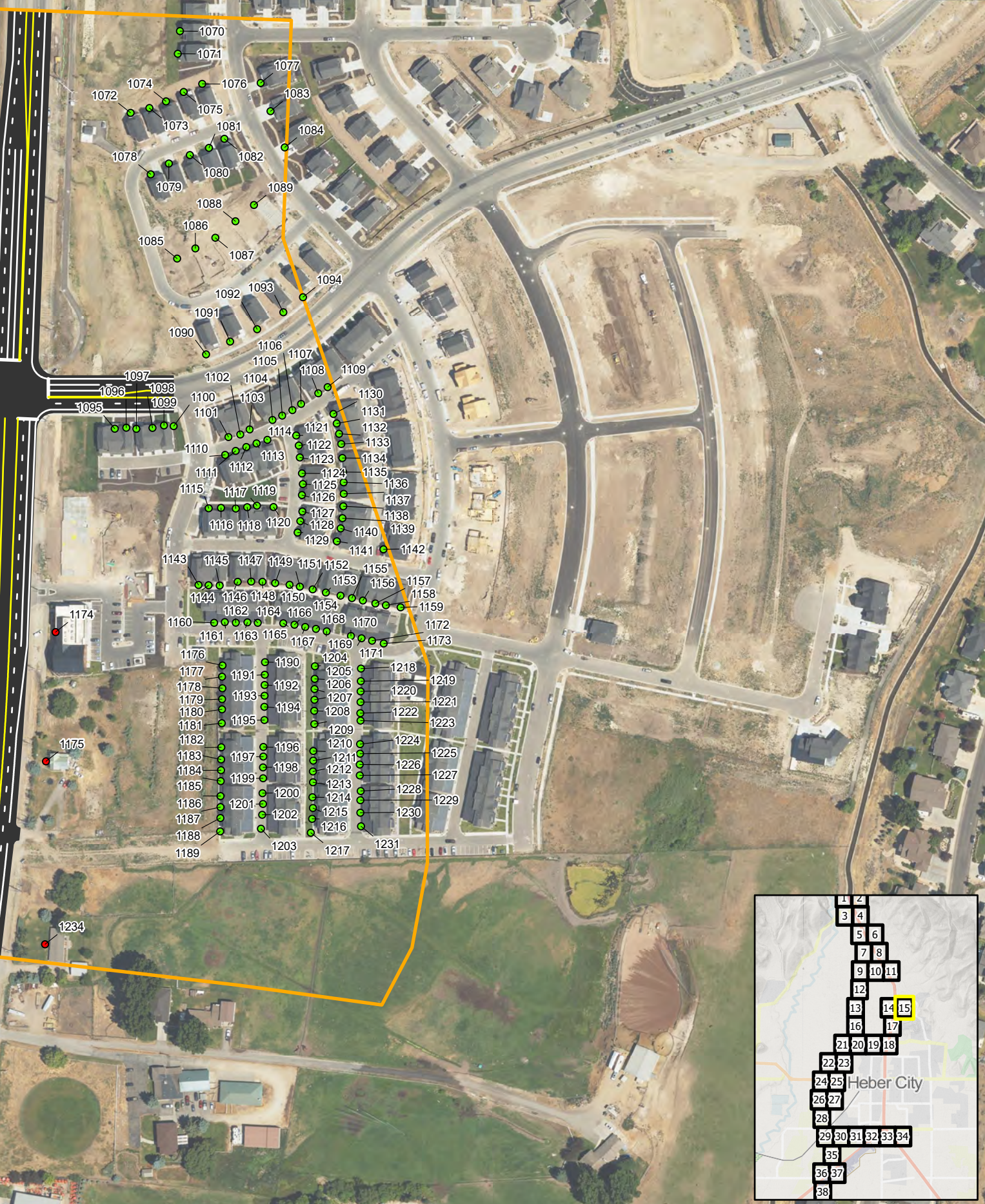
Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

 Noise Study Area Alt B

 Impacted

 Not Impacted





ALTERNATIVE B NOISE LEVELS

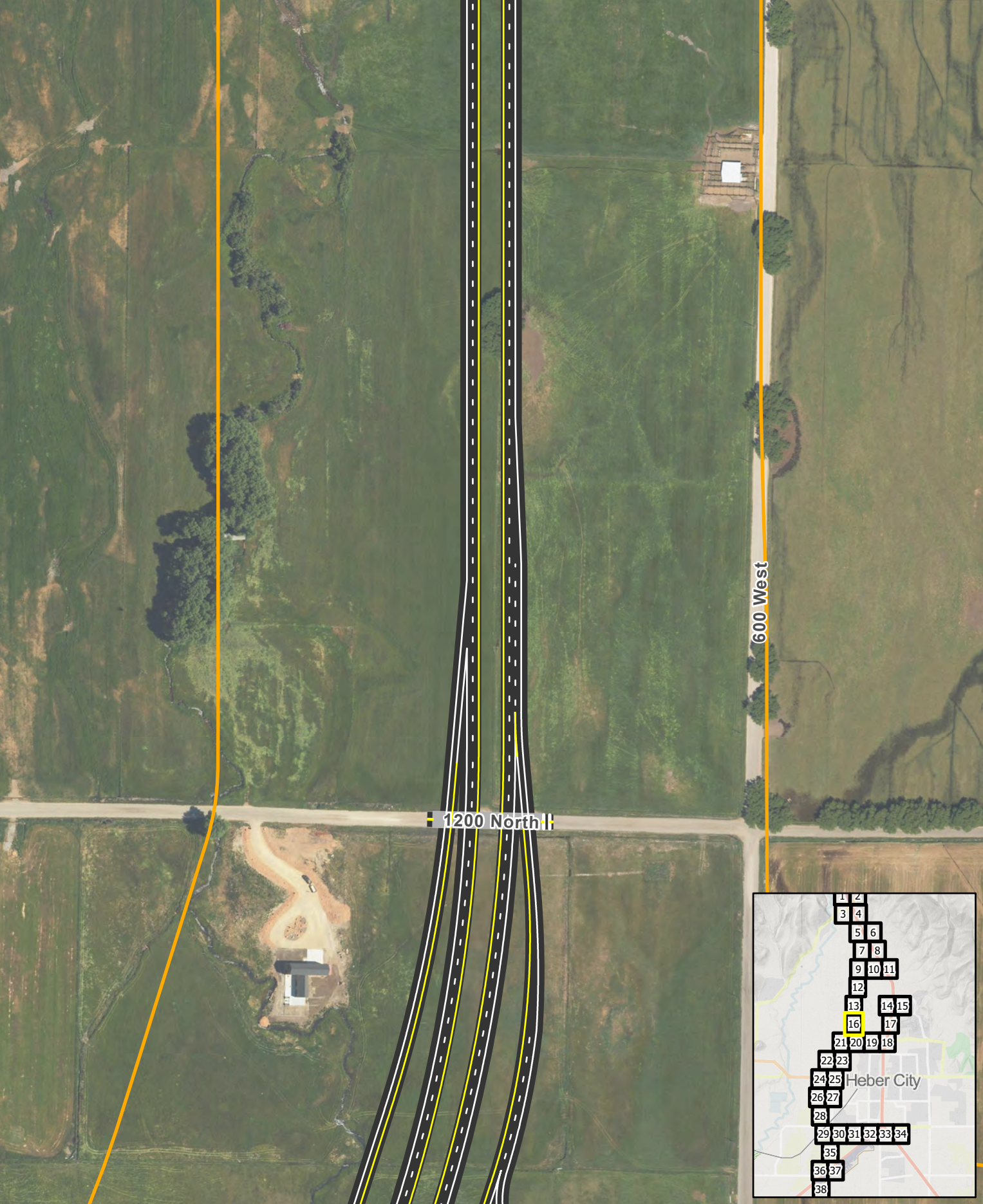
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ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area Alt B

● Impacted

● Not Impacted

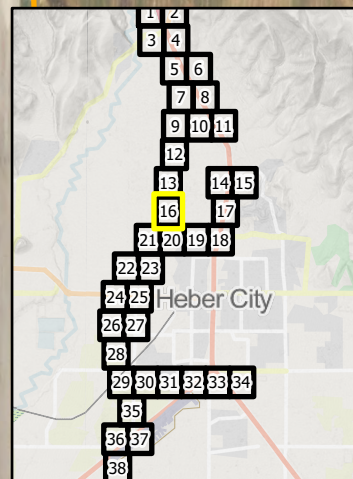


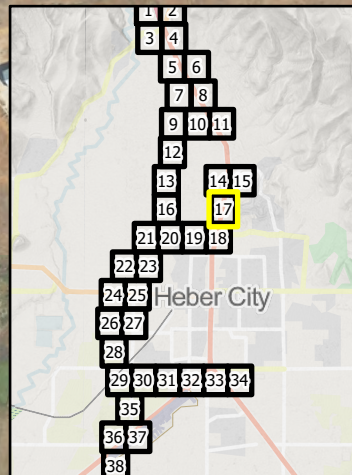


ALTERNATIVE B NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

 Noise Study Area Alt B





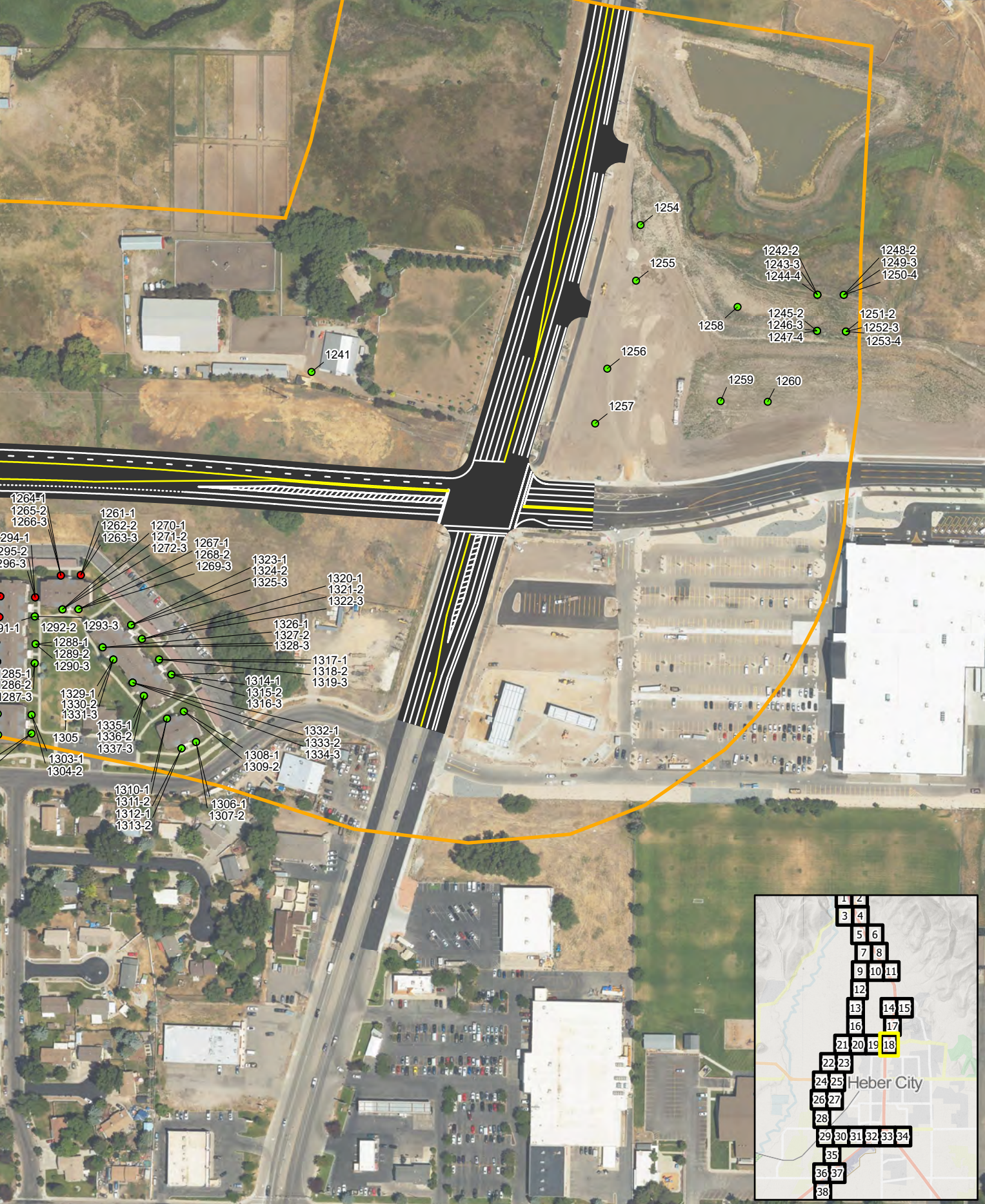
ALTERNATIVE B NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area Alt B

● Not Impacted





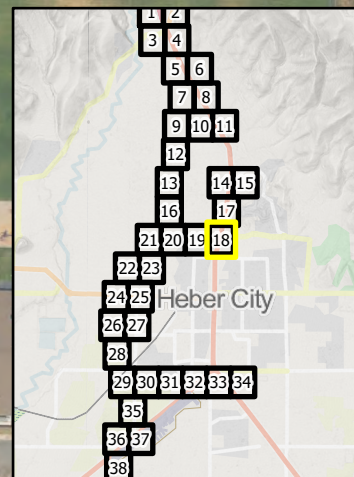
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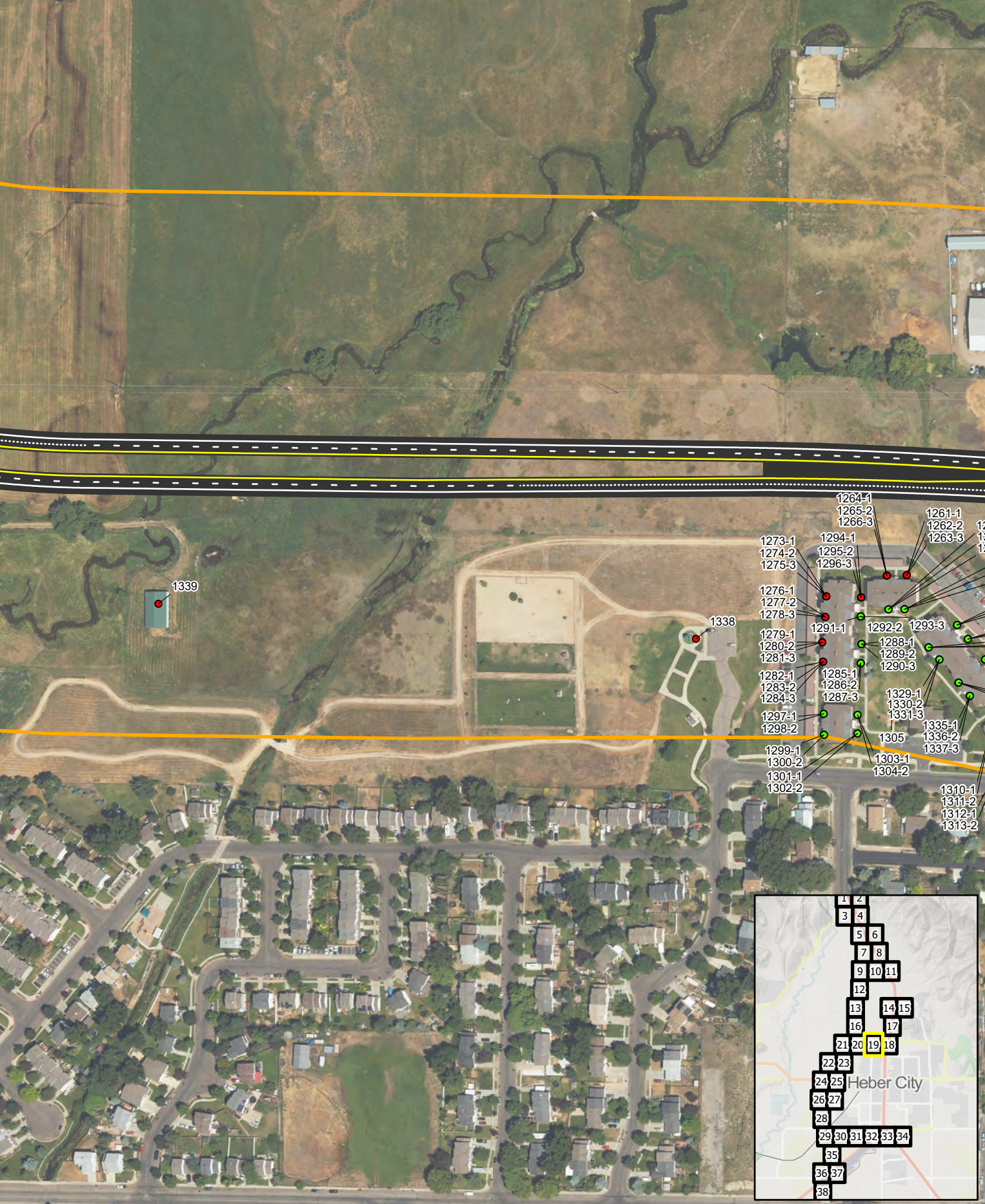
Heber Valley Corridor
**ENVIRONMENTAL
IMPACT STATEMENT**

Noise Study Area Alt B

● Impacted

● Not Impacted





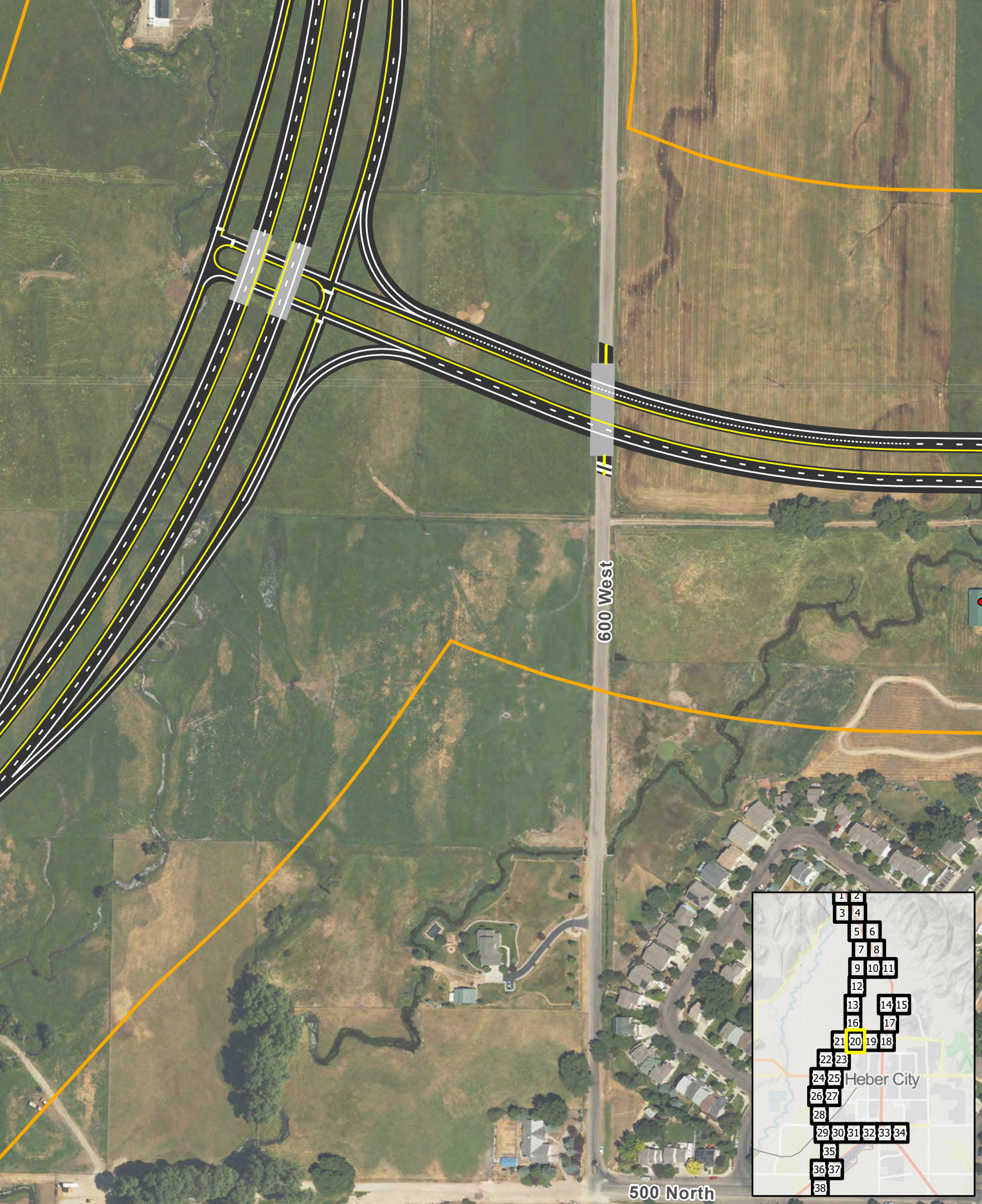
ALTERNATIVE B NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area Alt B

- Impacted
- Not Impacted





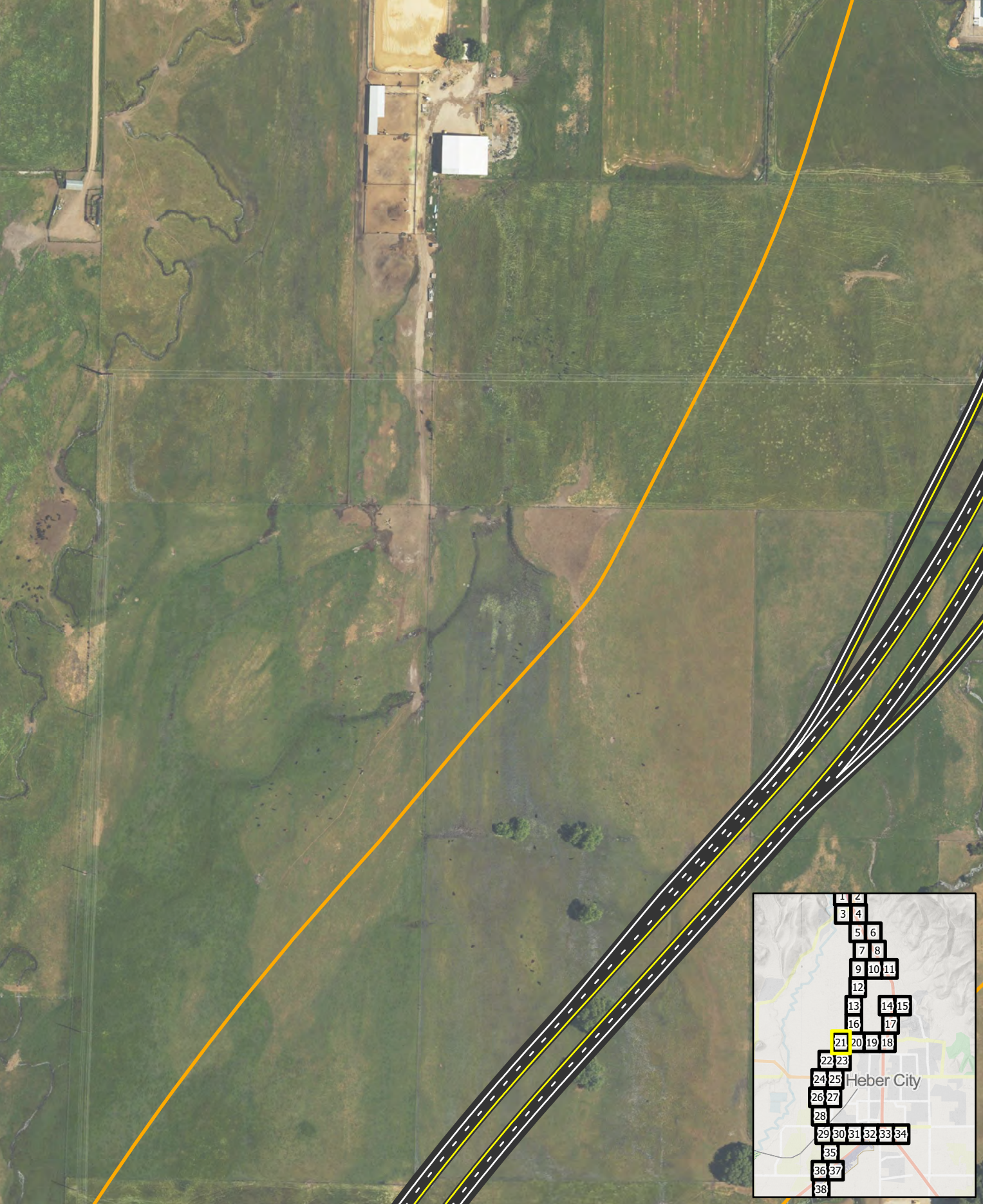
ALTERNATIVE B NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

 Noise Study Area Alt B

 Impacted

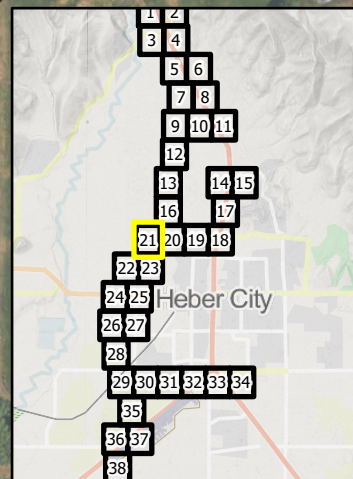


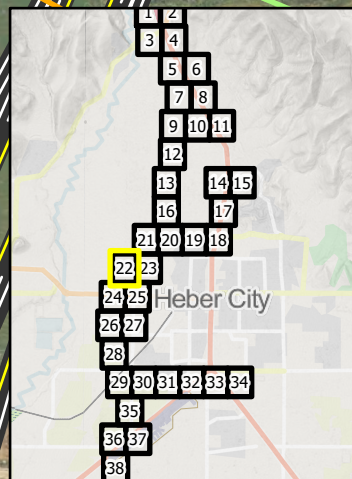
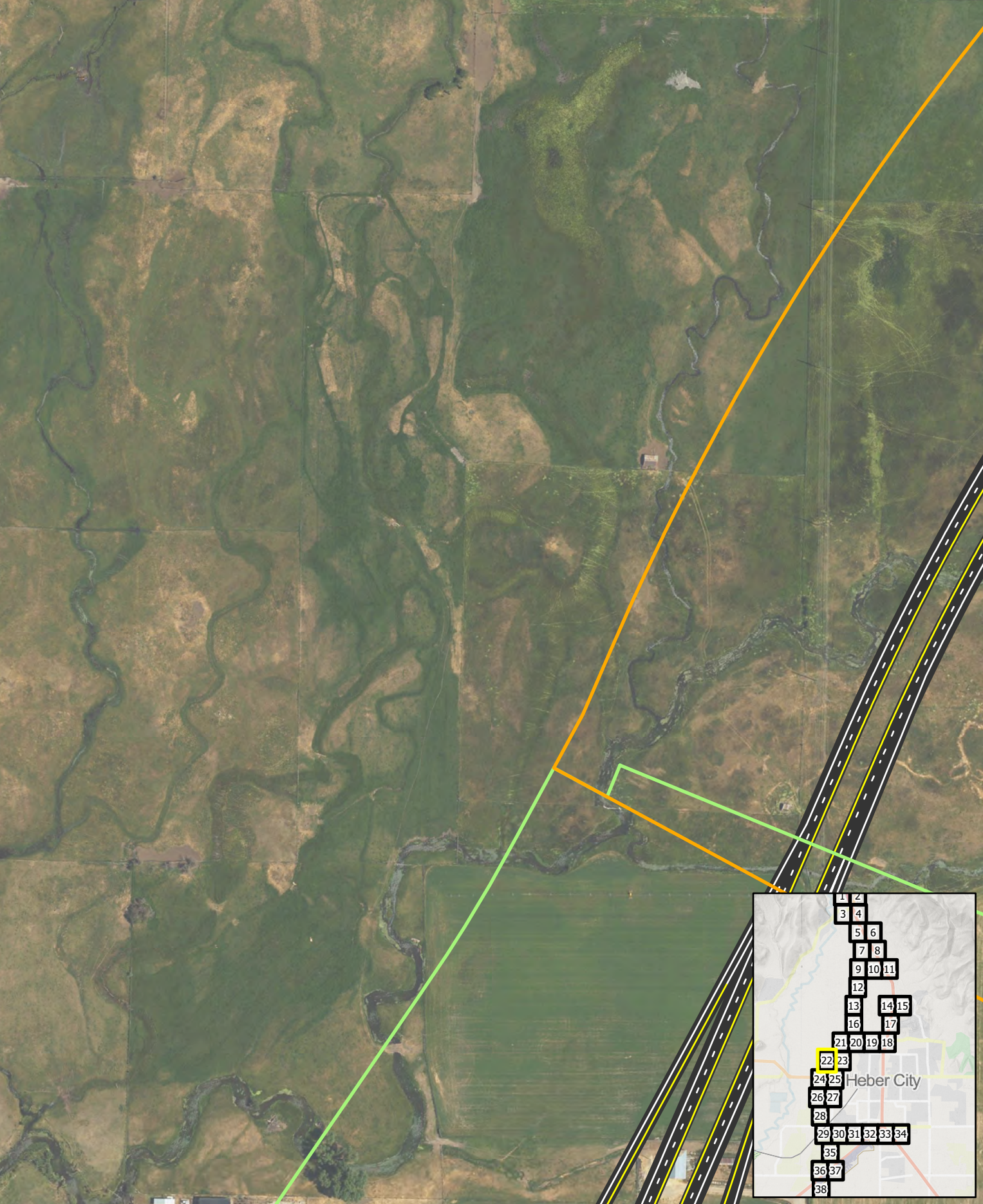


ALTERNATIVE B NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

 Noise Study Area Alt B





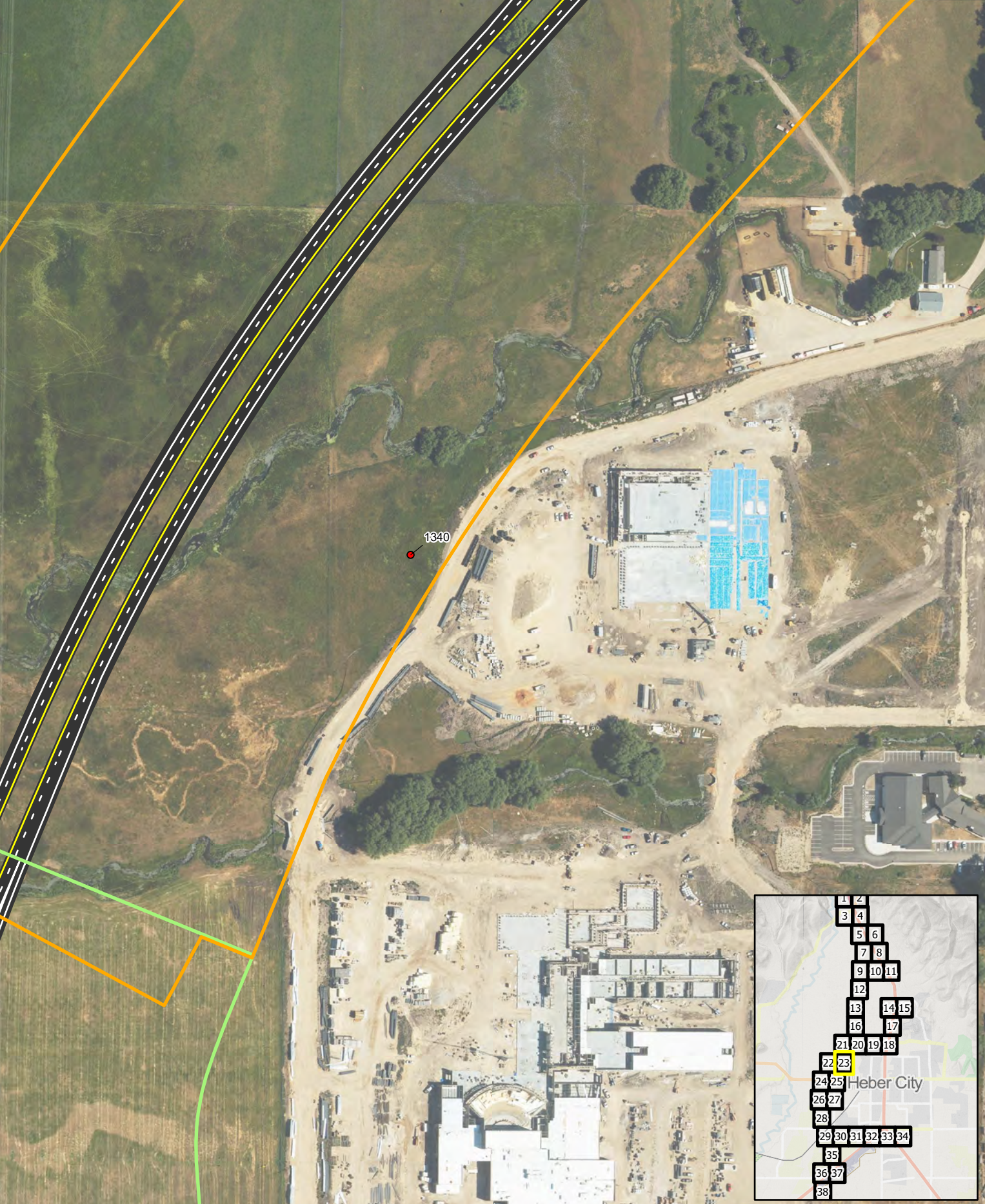
ALTERNATIVE B NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area Alt B

Noise Study Area South





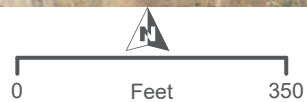
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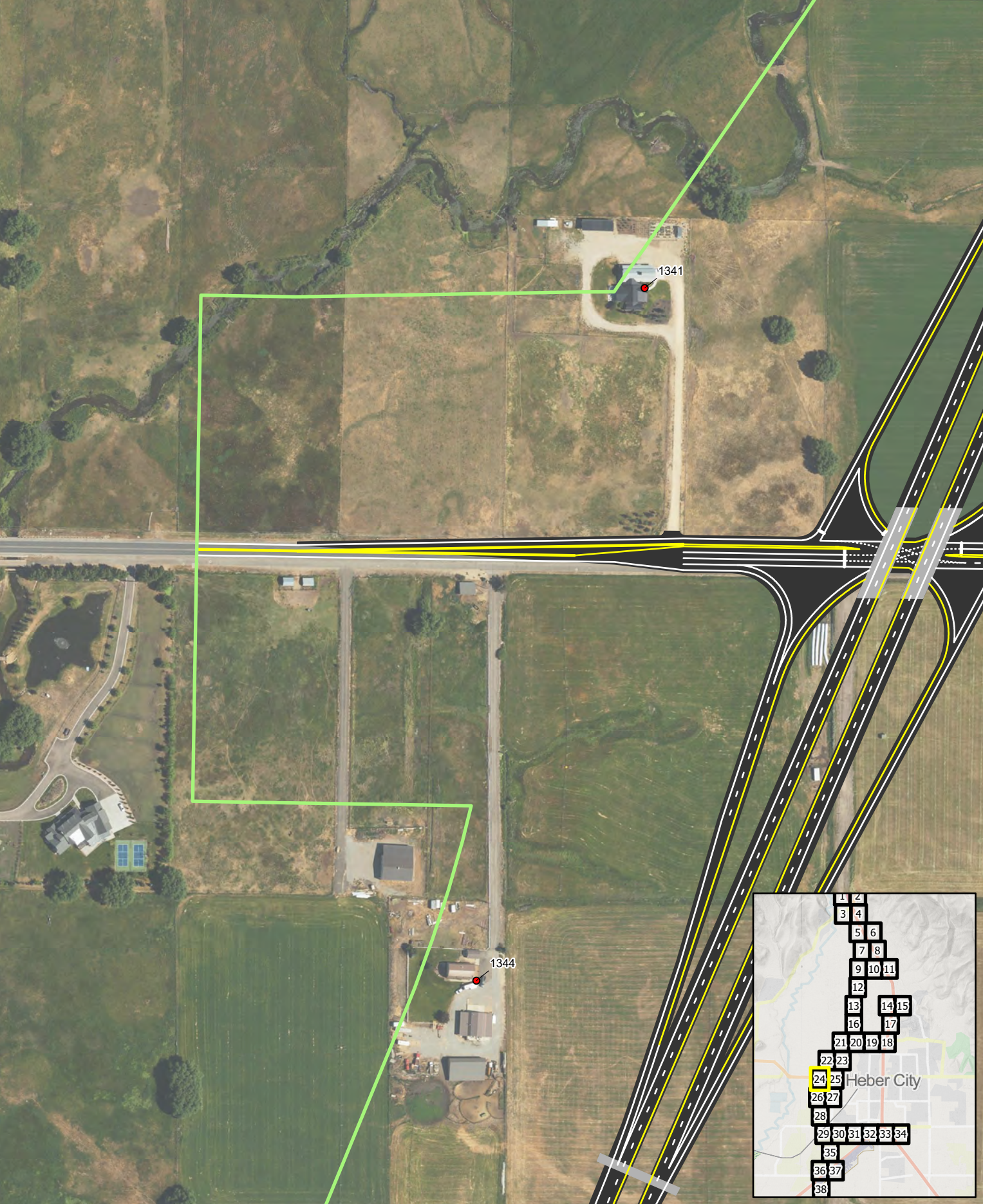
Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

 Noise Study Area Alt B

 Impacted

 Noise Study Area South





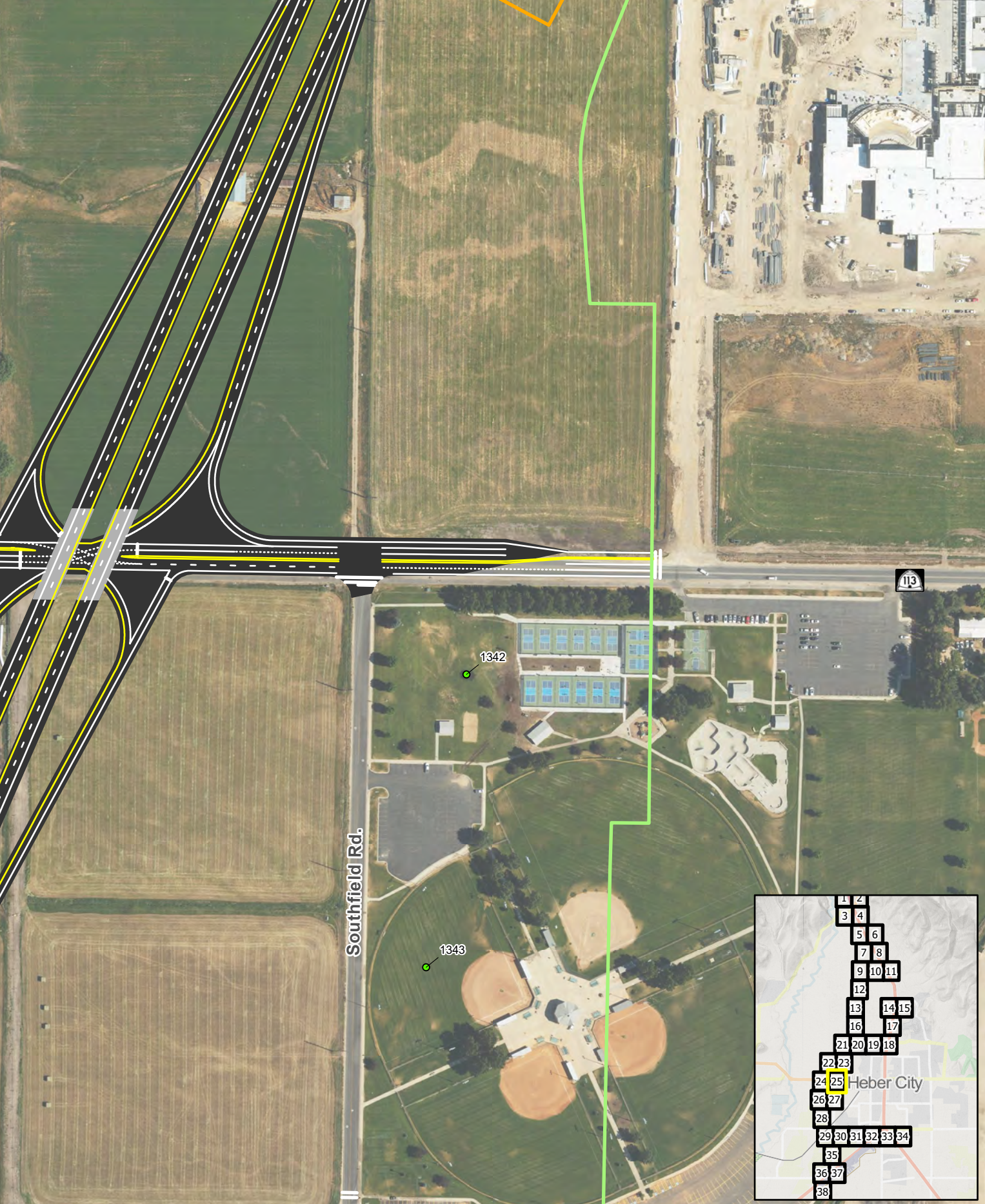
ALTERNATIVE B NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

 Noise Study Area South

 Impacted





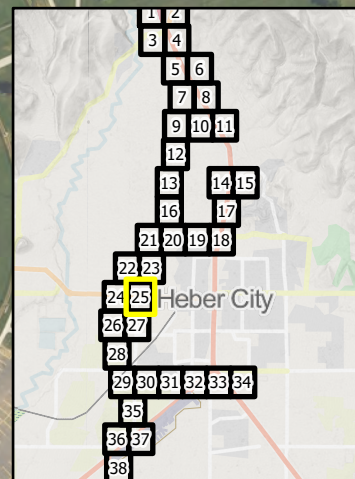
ALTERNATIVE B NOISE LEVELS

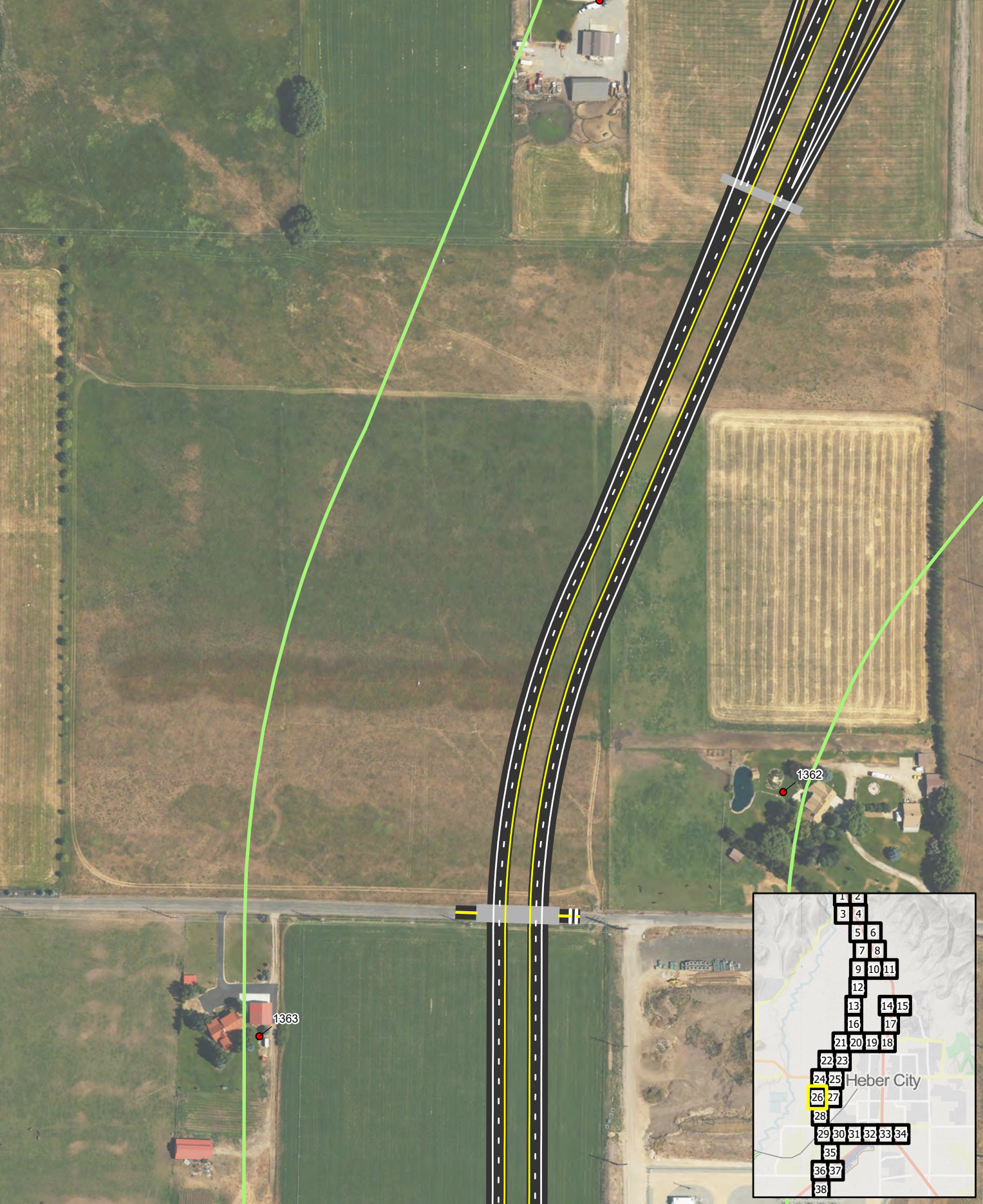
Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area Alt B

Noise Study Area South

● Not Impacted





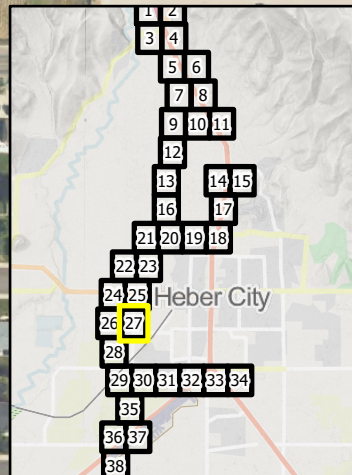
ALTERNATIVE B NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area South

● Impacted





ALTERNATIVE B NOISE LEVELS

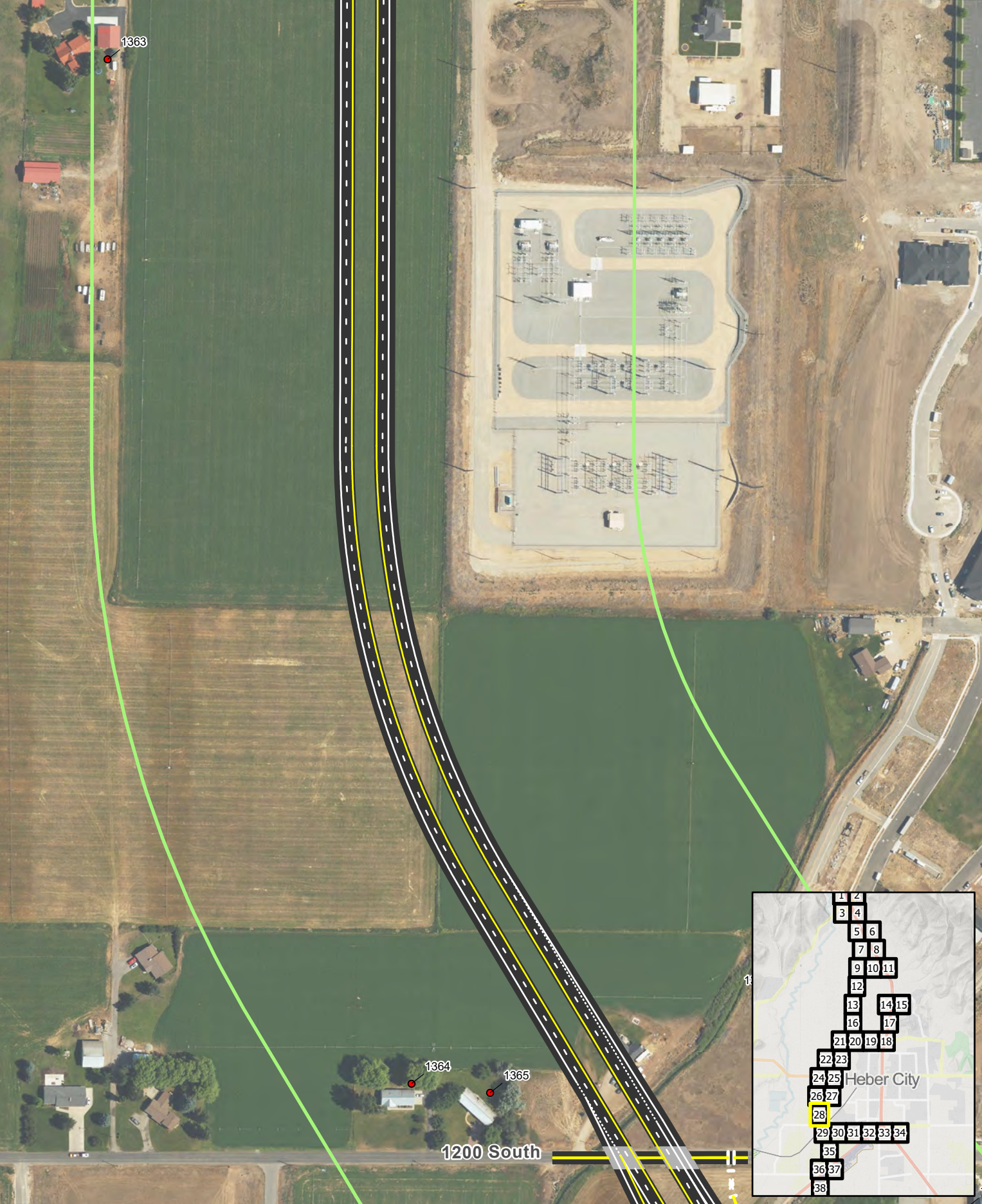
Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area South

● Impacted

● Not Impacted





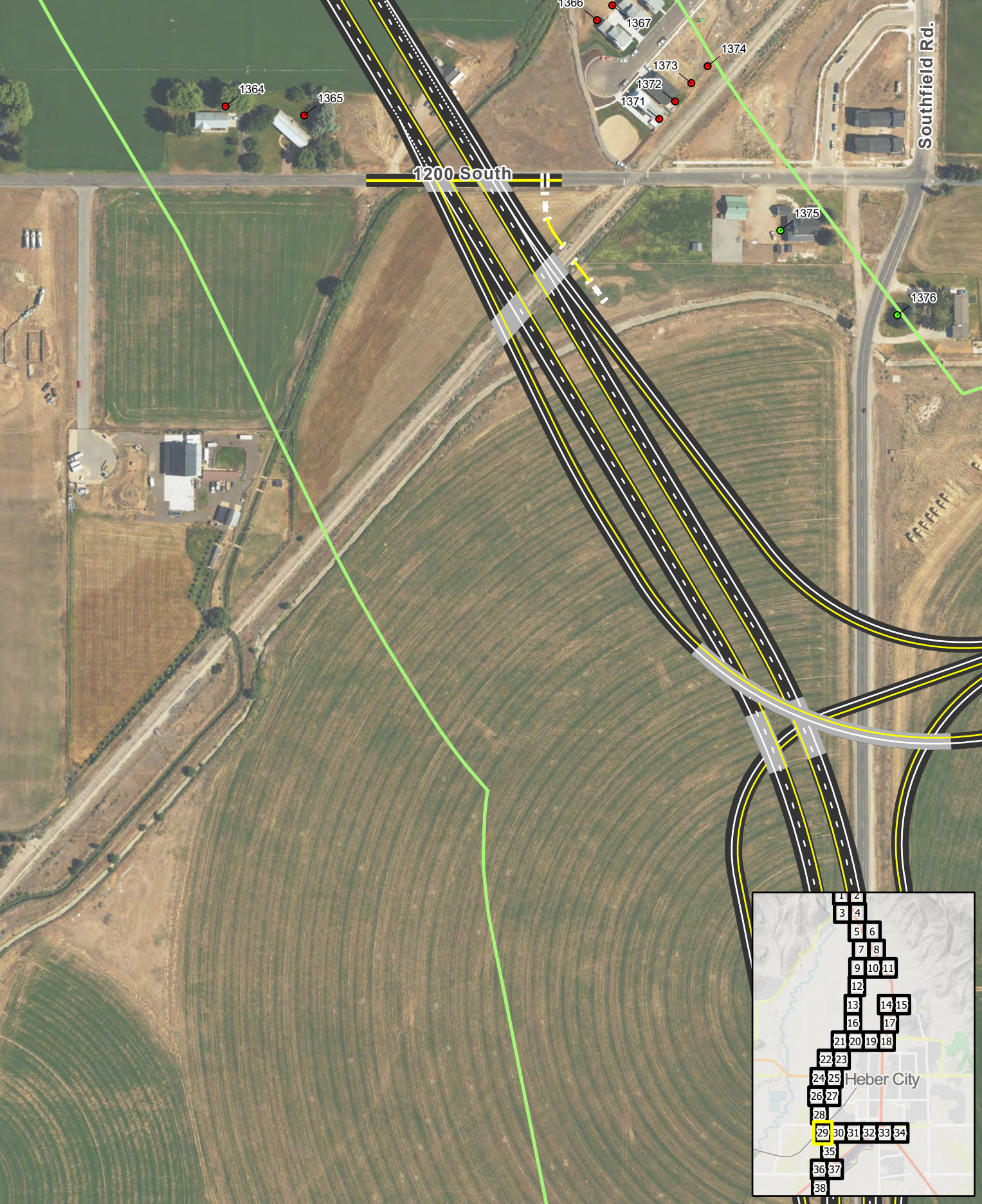
ALTERNATIVE B NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area South

● Impacted





ALTERNATIVE B NOISE LEVELS

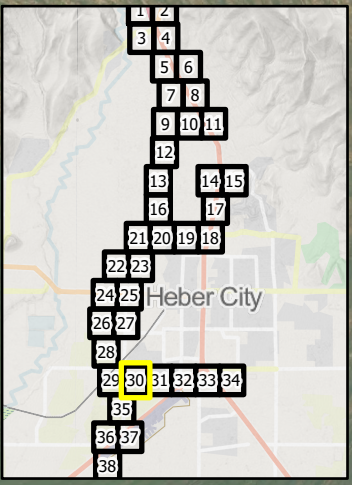
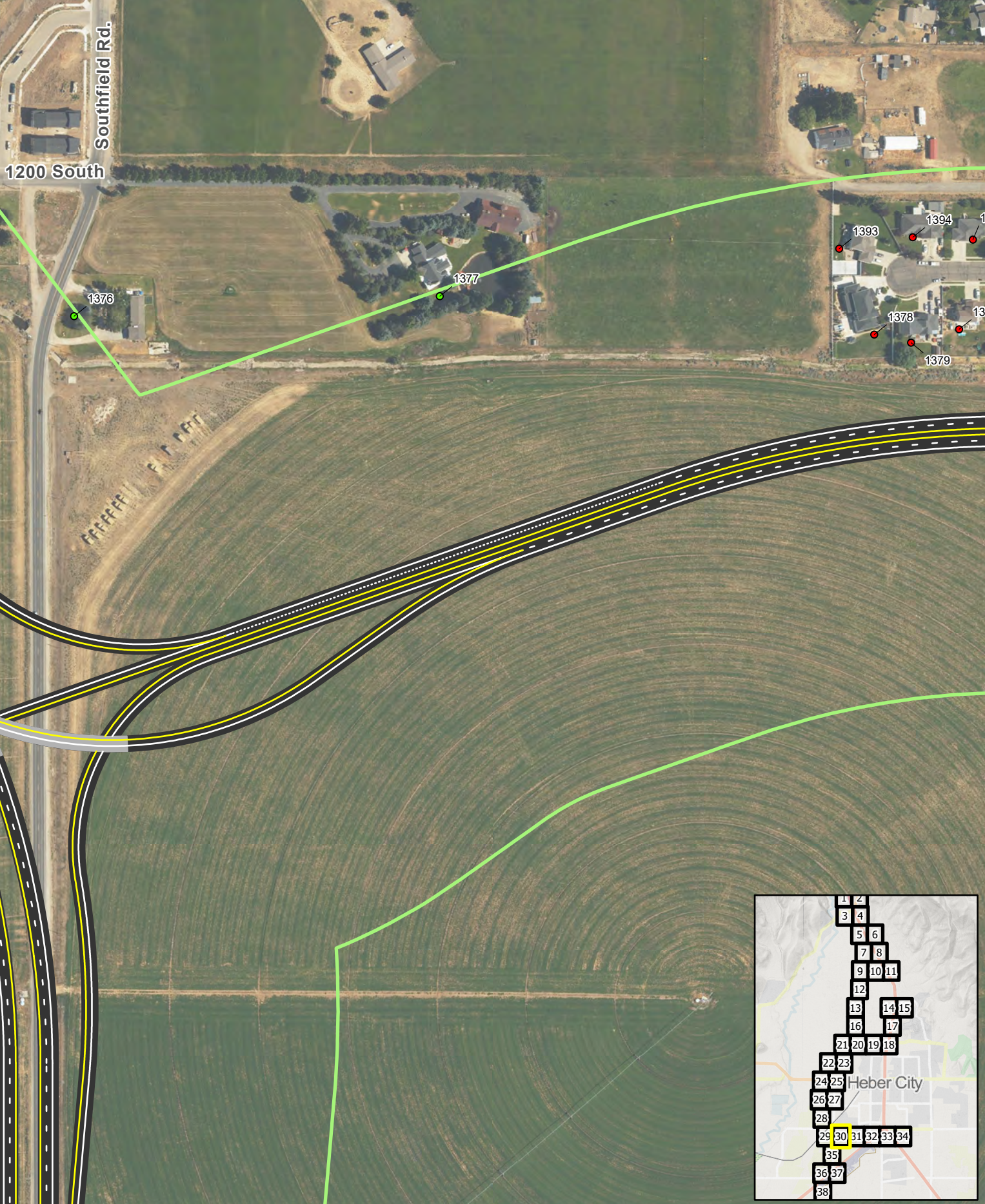
Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area South

● Impacted

● Not Impacted

0 Feet 350

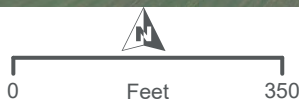


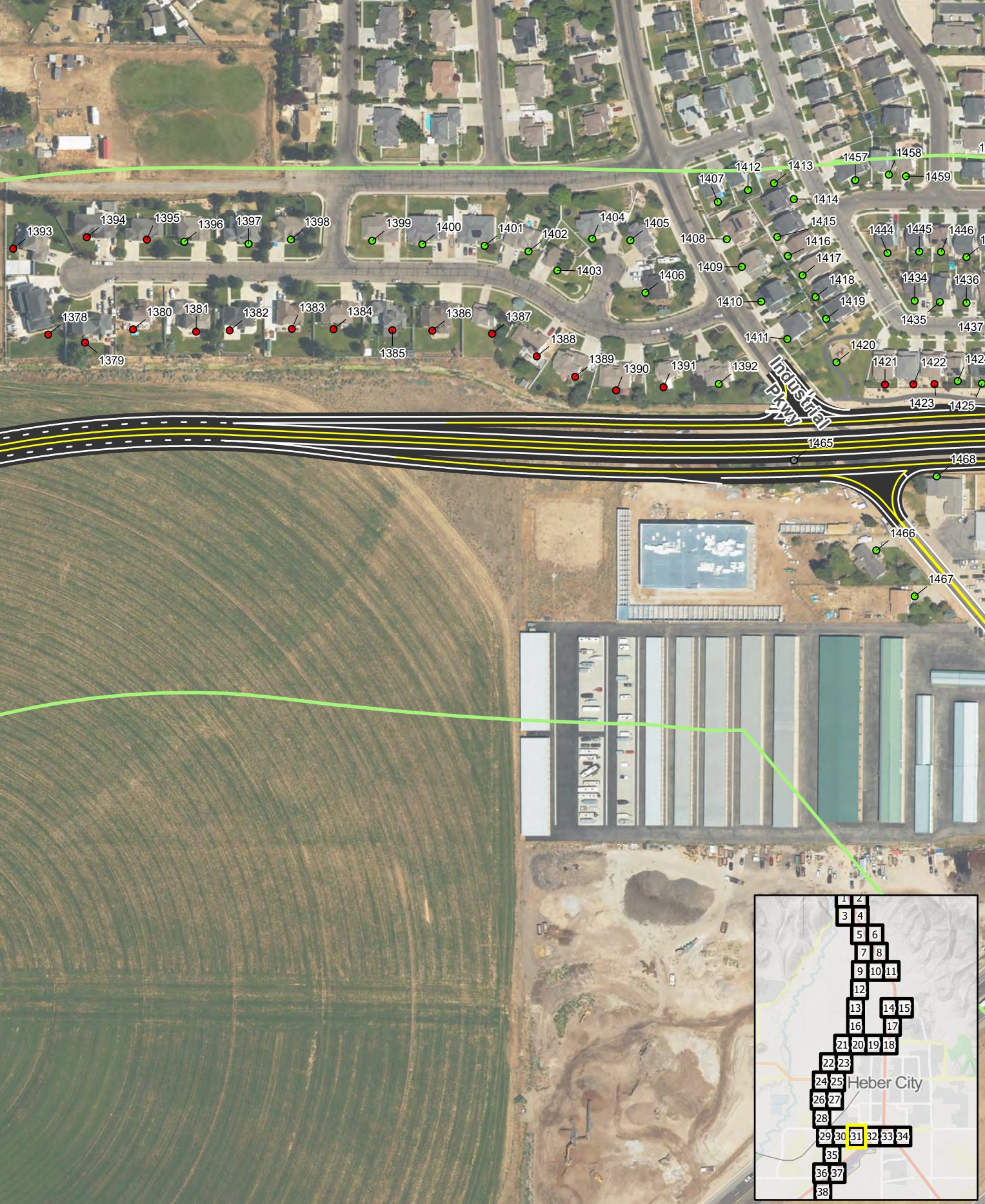
ALTERNATIVE B NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area South

- Impacted
- Not Impacted





ALTERNATIVE B NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

- ▬ Noise Study Area South
- Noise Receptor removed by Action Alternative
- Impacted
- Not Impacted





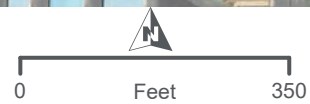
ALTERNATIVE B NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area South

● Impacted

● Not Impacted





**ALTERNATIVE B
NOISE LEVELS**

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

 Noise Study Area South

 Not Impacted





ALTERNATIVE B NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area South

● Not Impacted

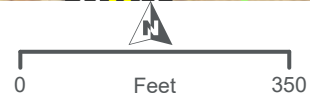


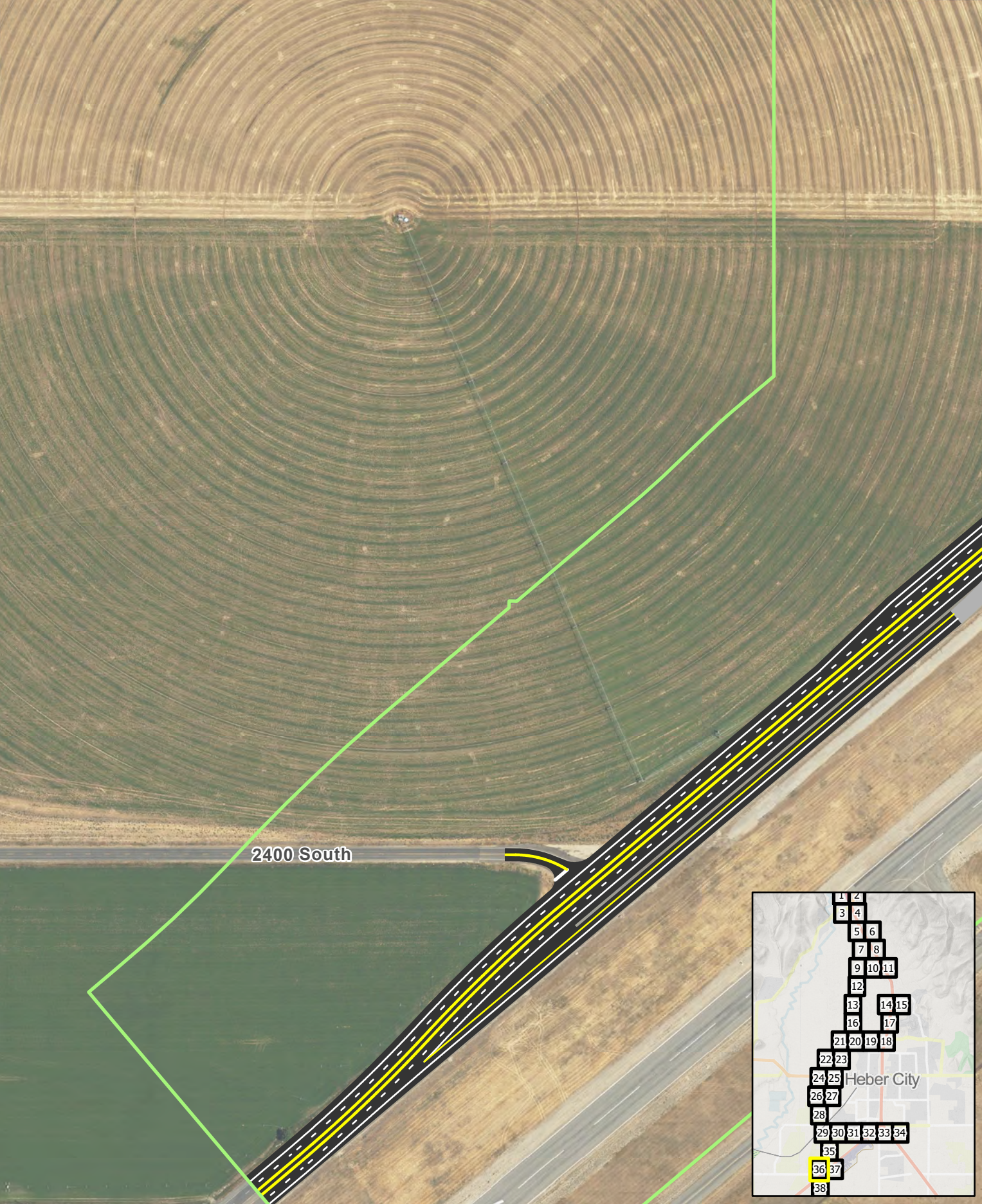


ALTERNATIVE B NOISE LEVELS

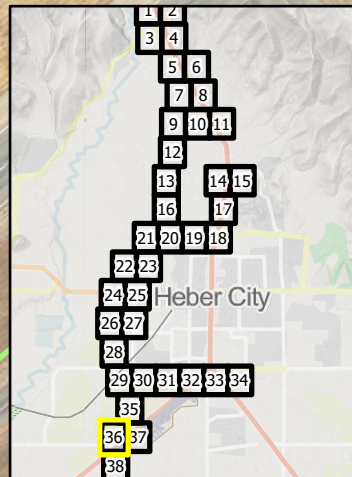
Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area South





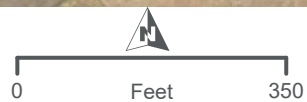
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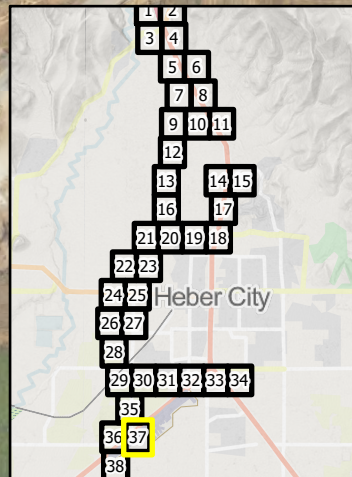


ALTERNATIVE B NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area South



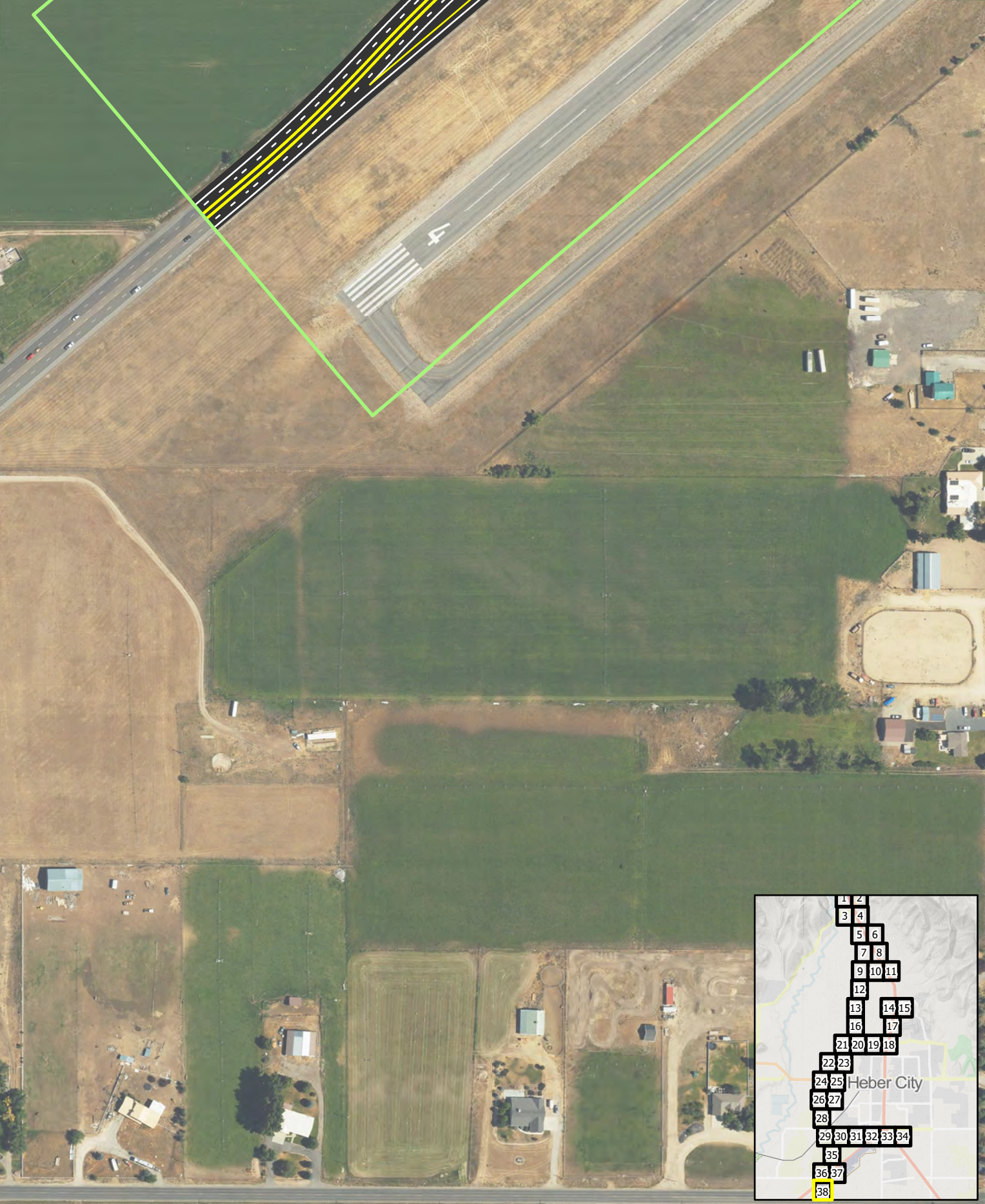


ALTERNATIVE B NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

 Noise Study Area South





ALTERNATIVE B NOISE LEVELS

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

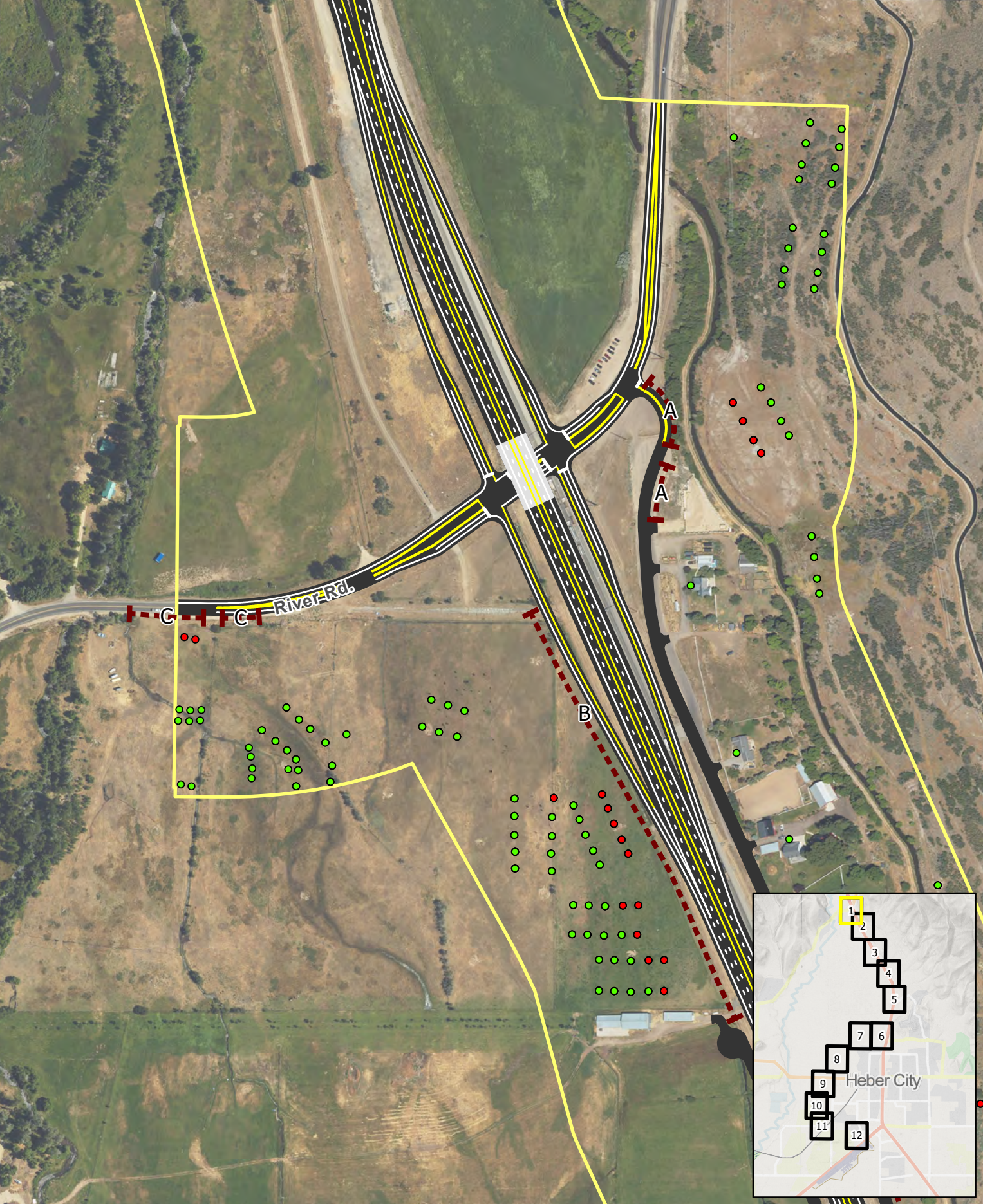
Noise Study Area South



ATTACHMENT D

Build Scenario Noise Walls

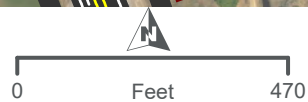
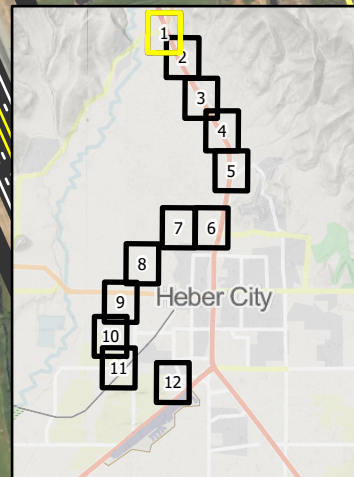
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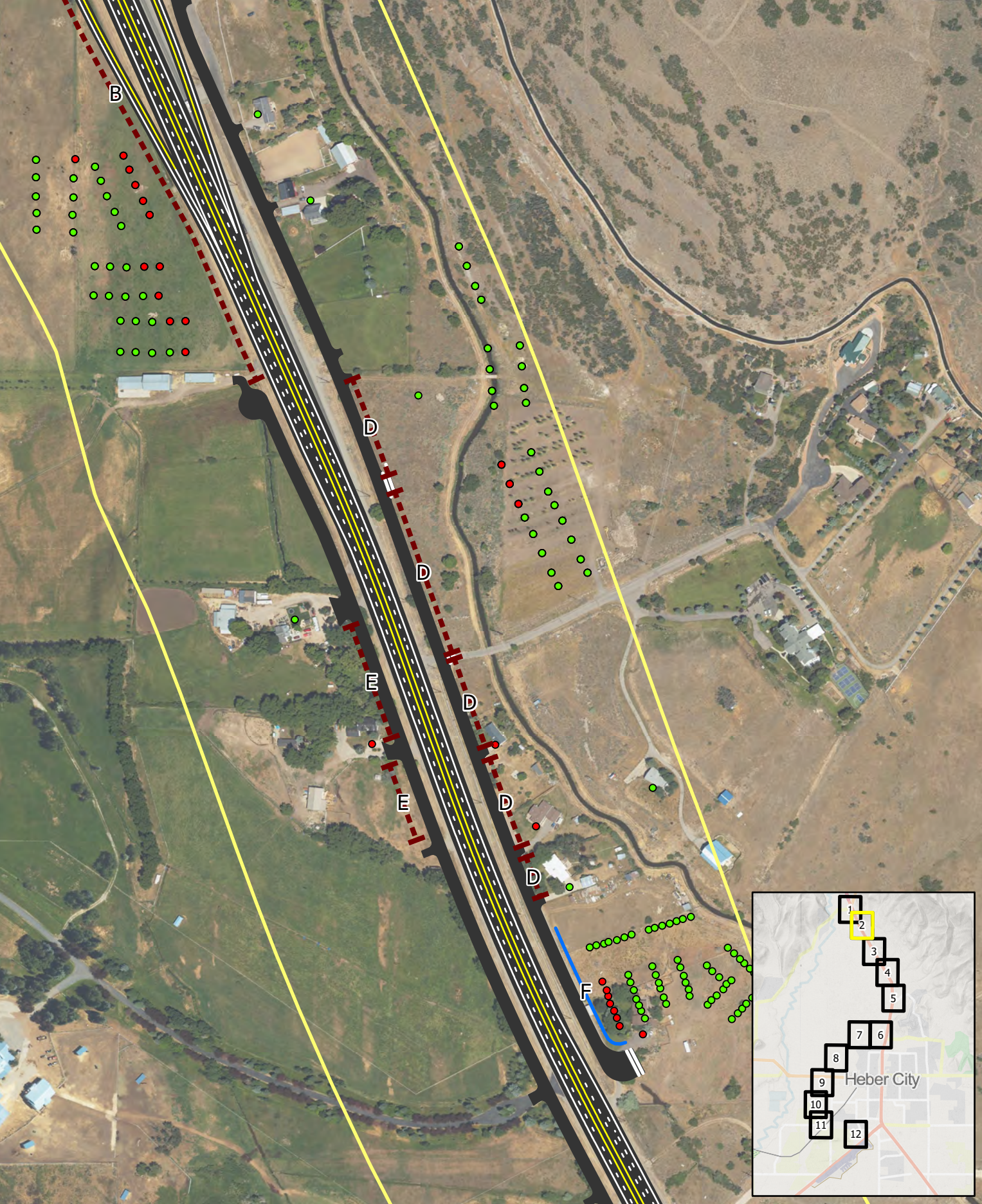


ALTERNATIVE A **NOISE WALL EVALUATION**

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

- Noise Study Area Alt A
- Impacted
- Not Impacted
- Evaluated; Not Recommended
- Recommended



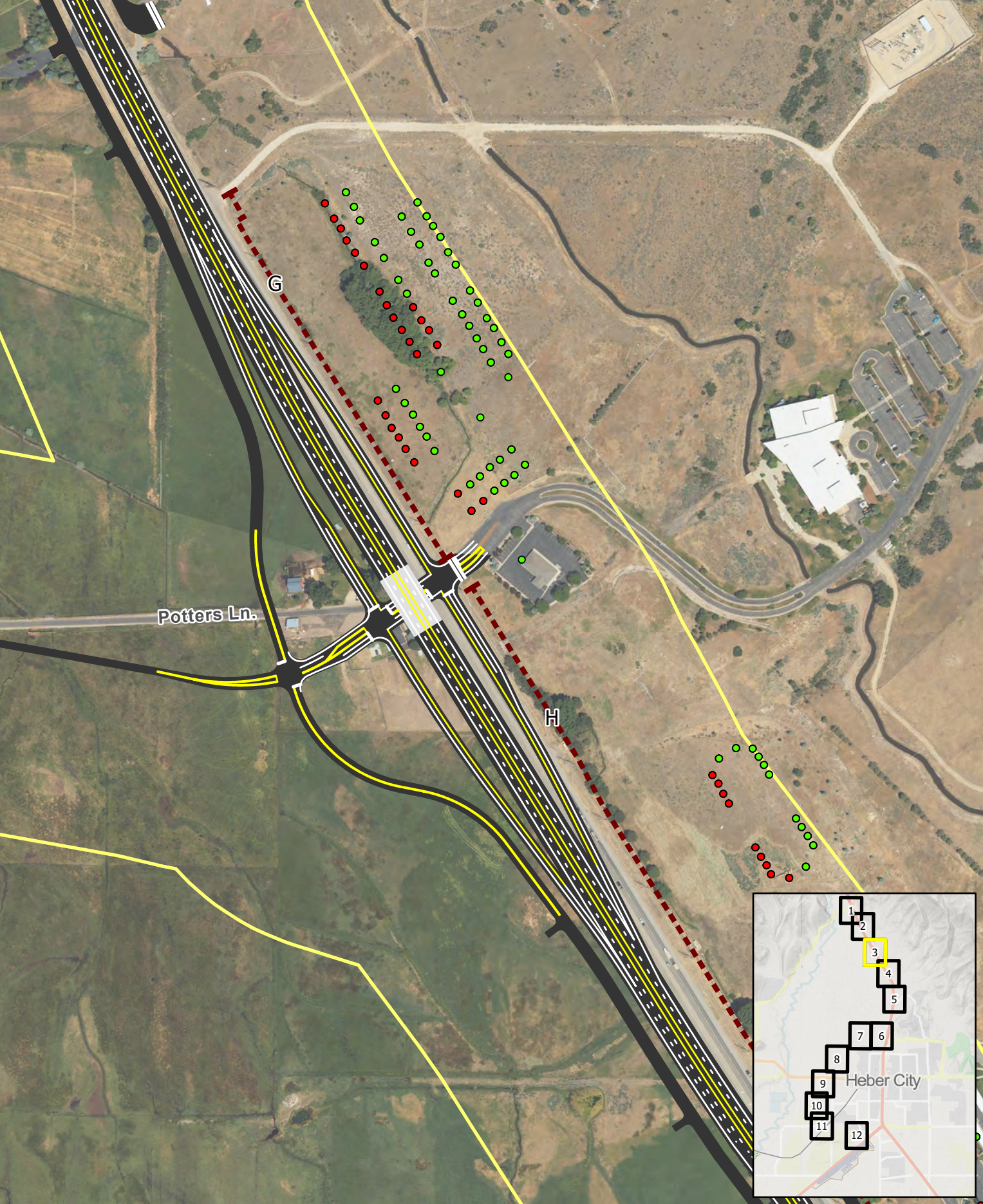


ALTERNATIVE A **NOISE WALL EVALUATION**

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

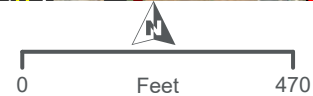
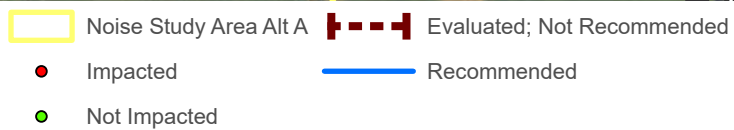
- Noise Study Area Alt A
- Evaluated; Not Recommended
- Impacted
- Recommended
- Not Impacted

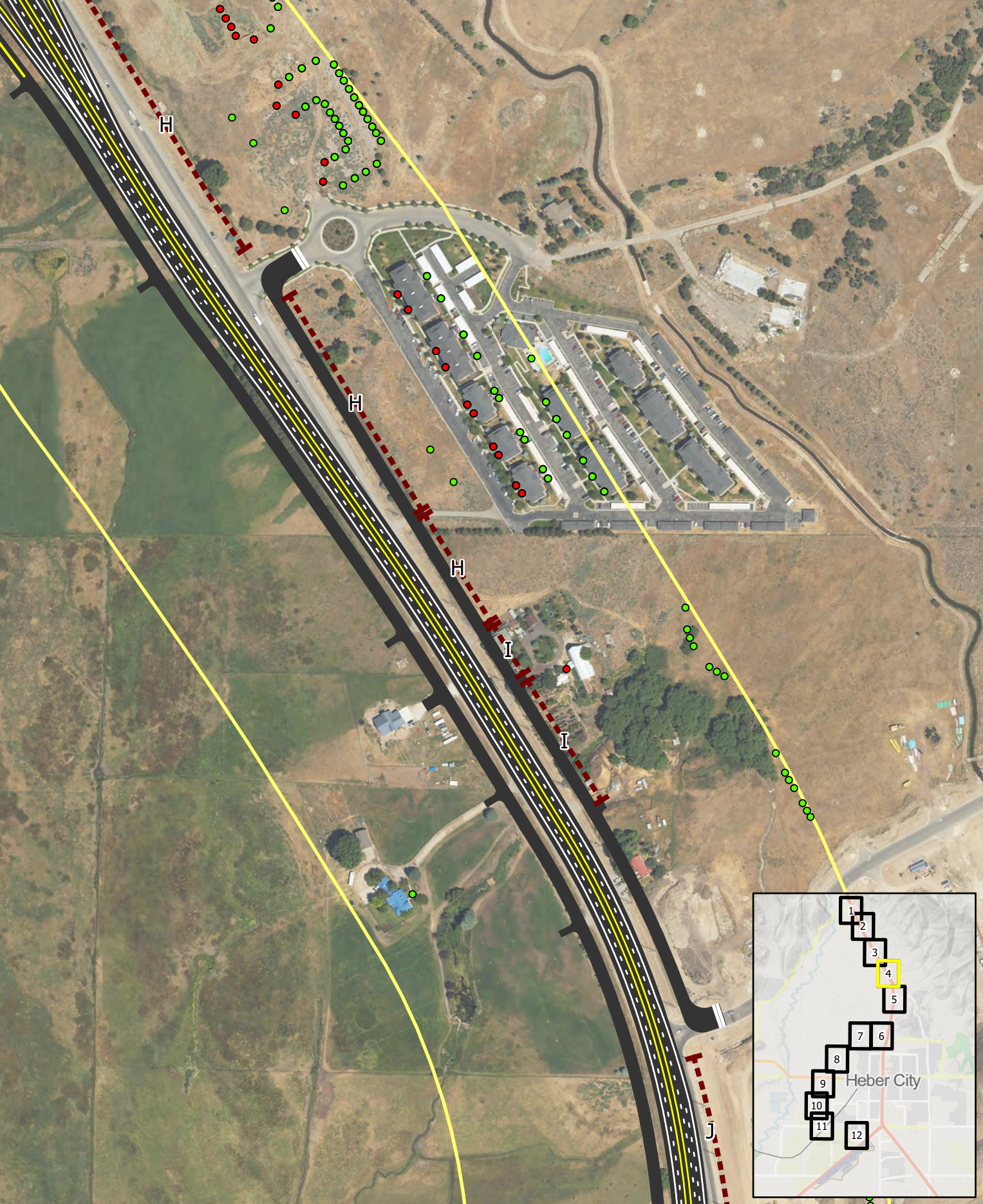




ALTERNATIVE A NOISE WALL EVALUATION

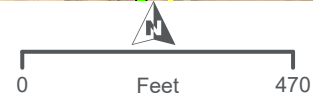
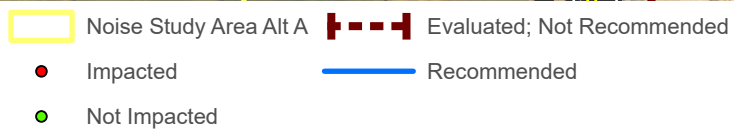
Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

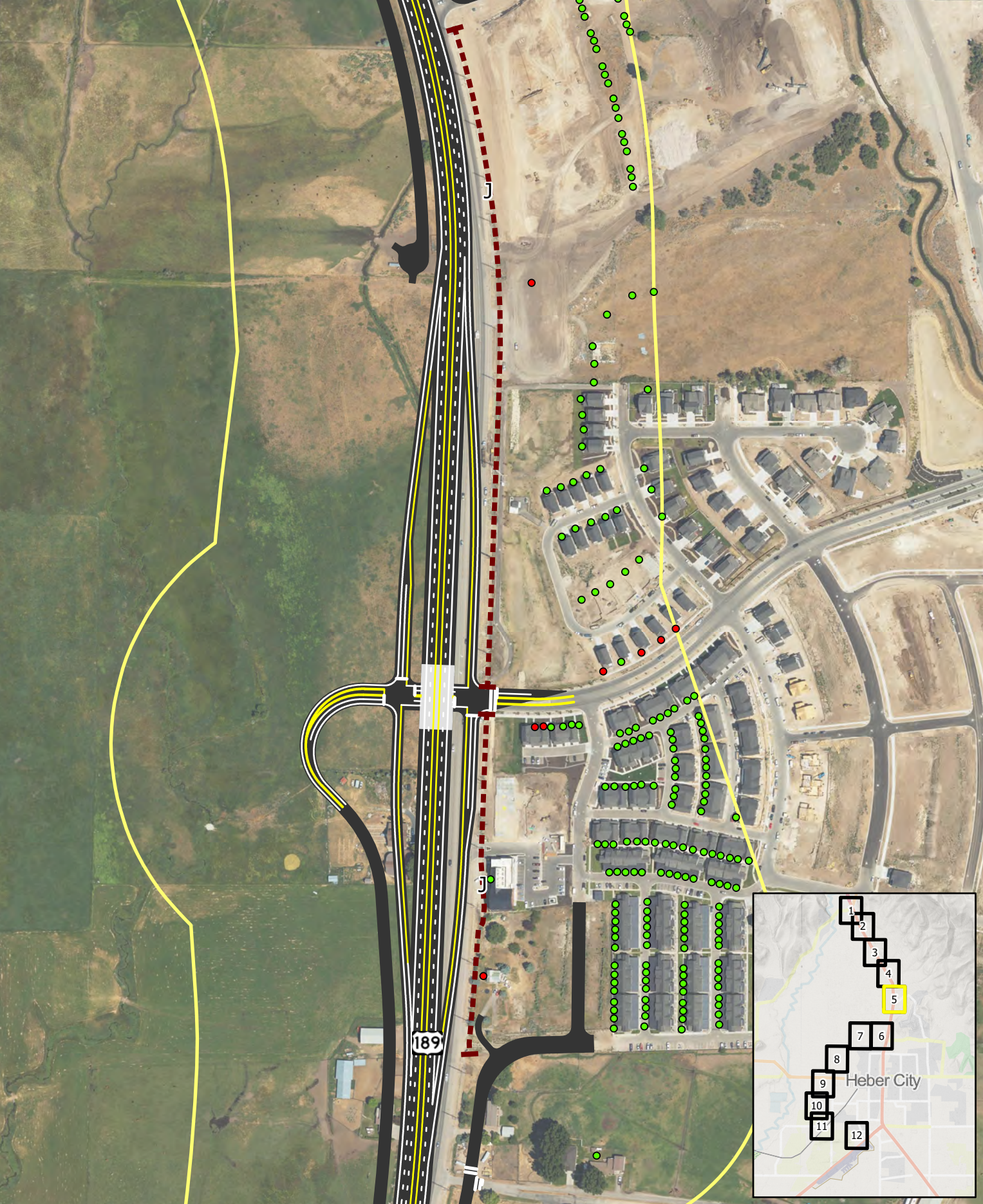




ALTERNATIVE A NOISE WALL EVALUATION

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

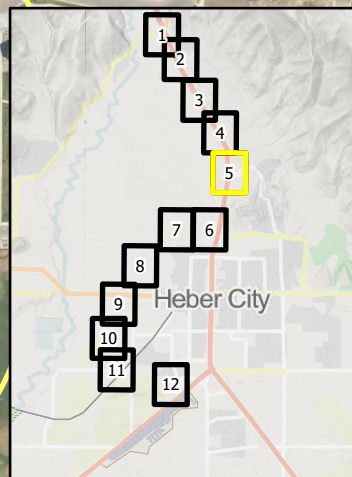


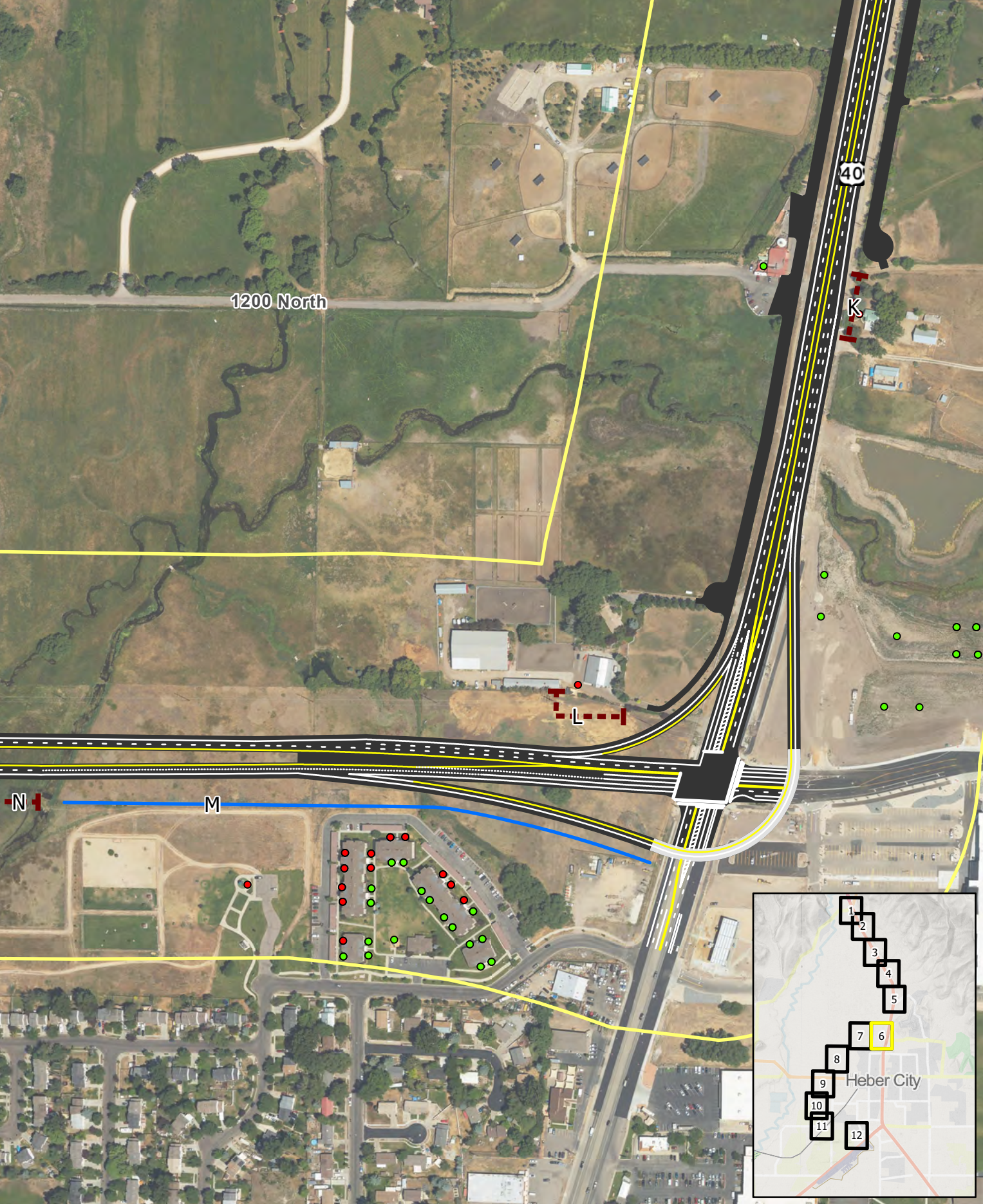


ALTERNATIVE A NOISE WALL EVALUATION

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

- Noise Study Area Alt A
- Evaluated; Not Recommended
- Impacted
- Not Impacted
- Recommended



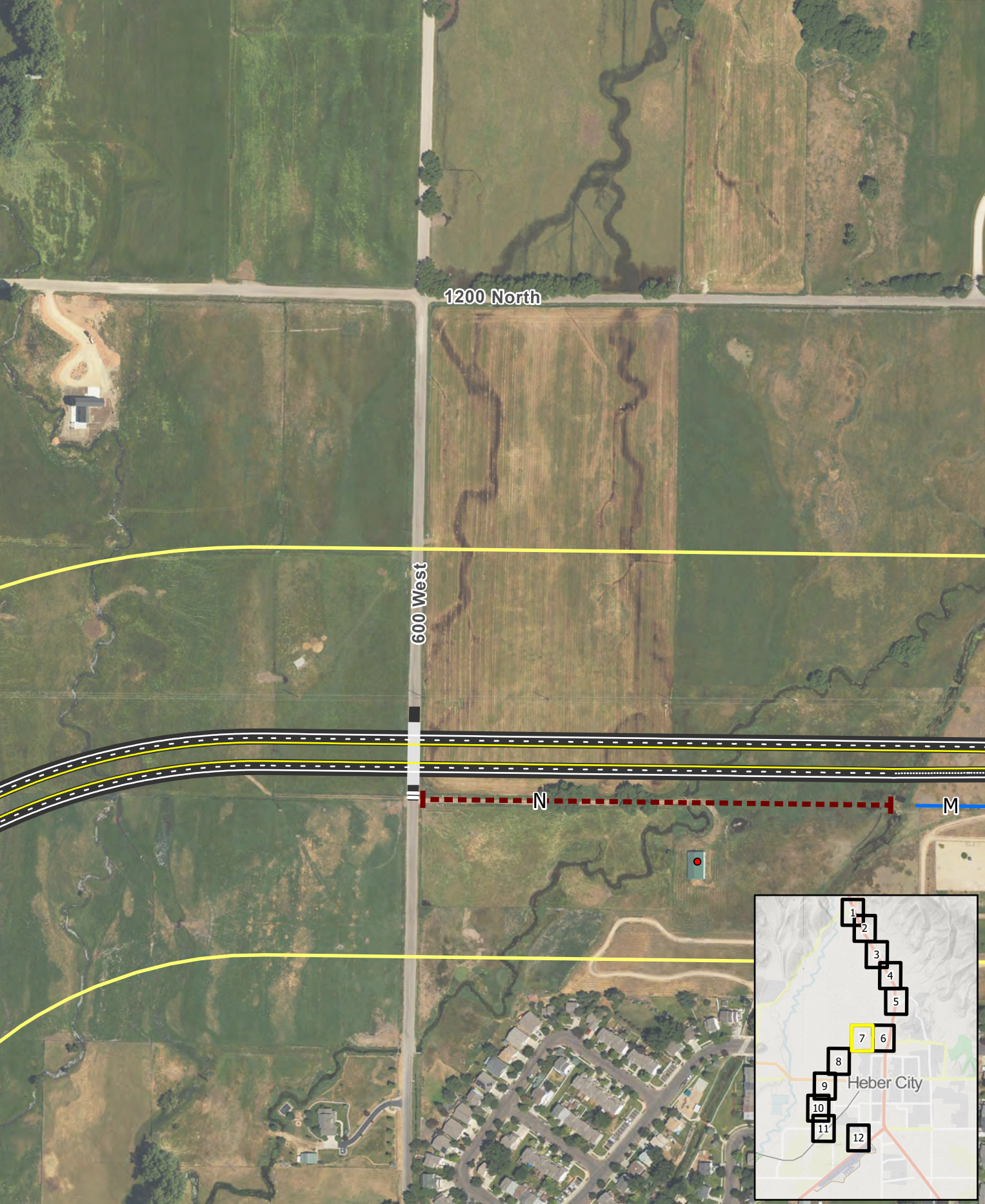


ALTERNATIVE A **NOISE WALL EVALUATION**

Heber Valley Corridor
**ENVIRONMENTAL
IMPACT STATEMENT**

- Noise Study Area Alt A
- Impacted
- Not Impacted
- Evaluated; Not Recommended
- Recommended





ALTERNATIVE A NOISE WALL EVALUATION

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

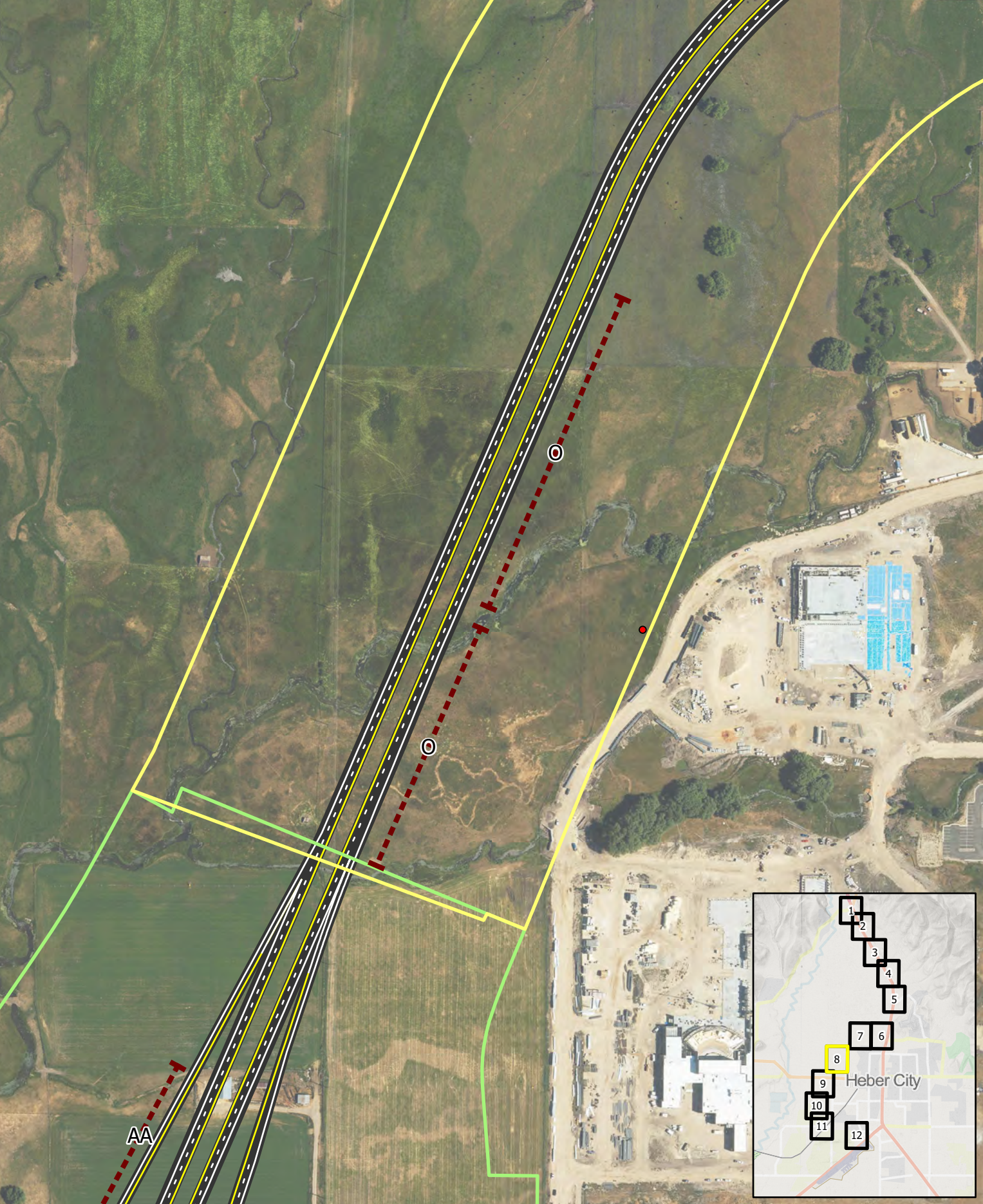
 Noise Study Area Alt A

 Impacted

 Evaluated; Not Recommended

 Recommended



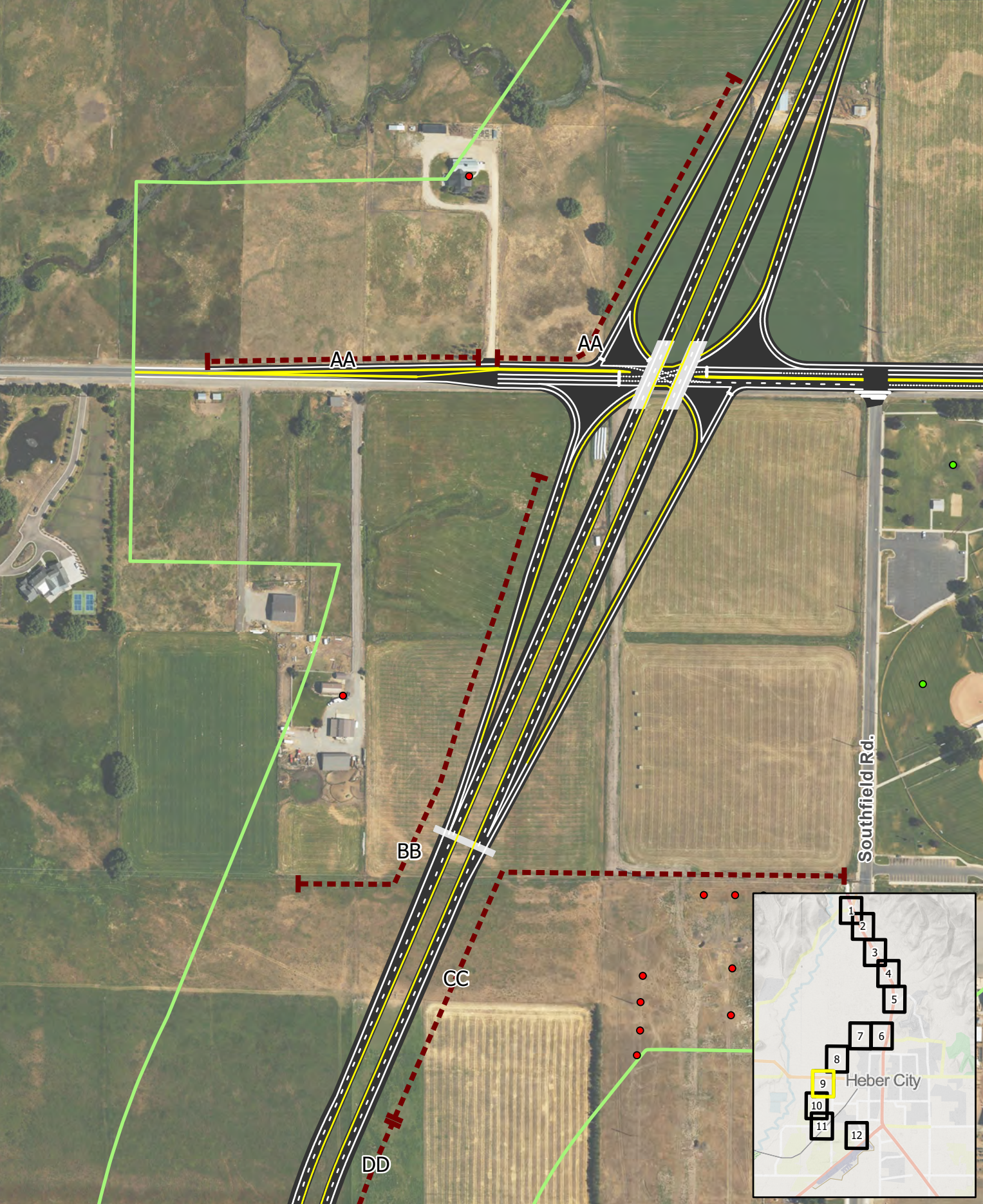


ALTERNATIVE A NOISE WALL EVALUATION

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

- Noise Study Area Alt A
- Noise Study Area South
- Evaluated; Not Recommended
- Recommended
- Impacted



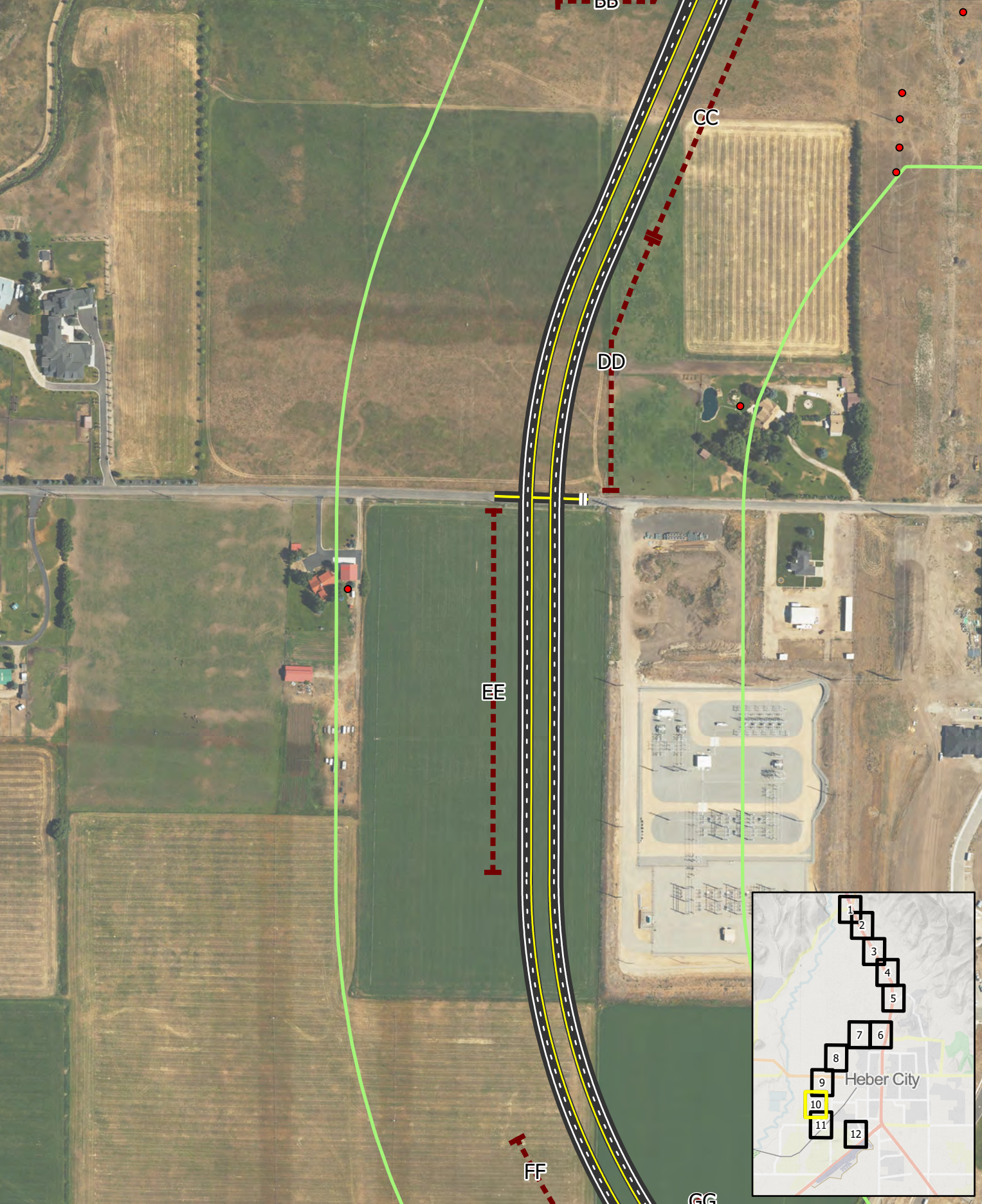


ALTERNATIVE A NOISE WALL EVALUATION

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

- Noise Study Area South
- Evaluated; Not Recommended
- Impacted
- Recommended
- Not Impacted





ALTERNATIVE A **NOISE WALL EVALUATION**

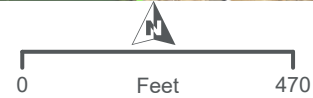
Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

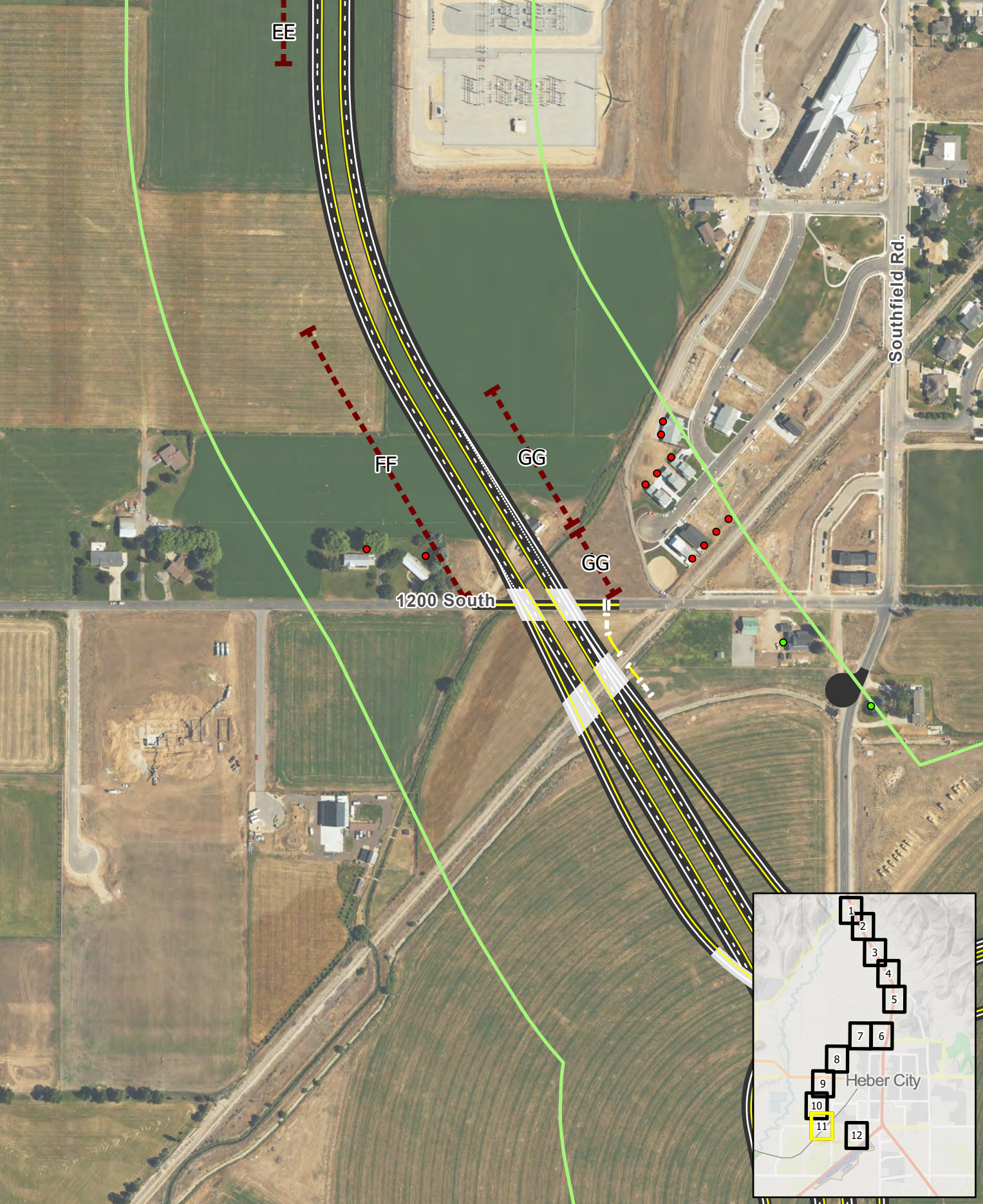
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 Recommended

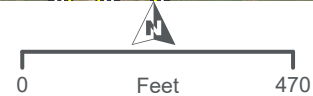


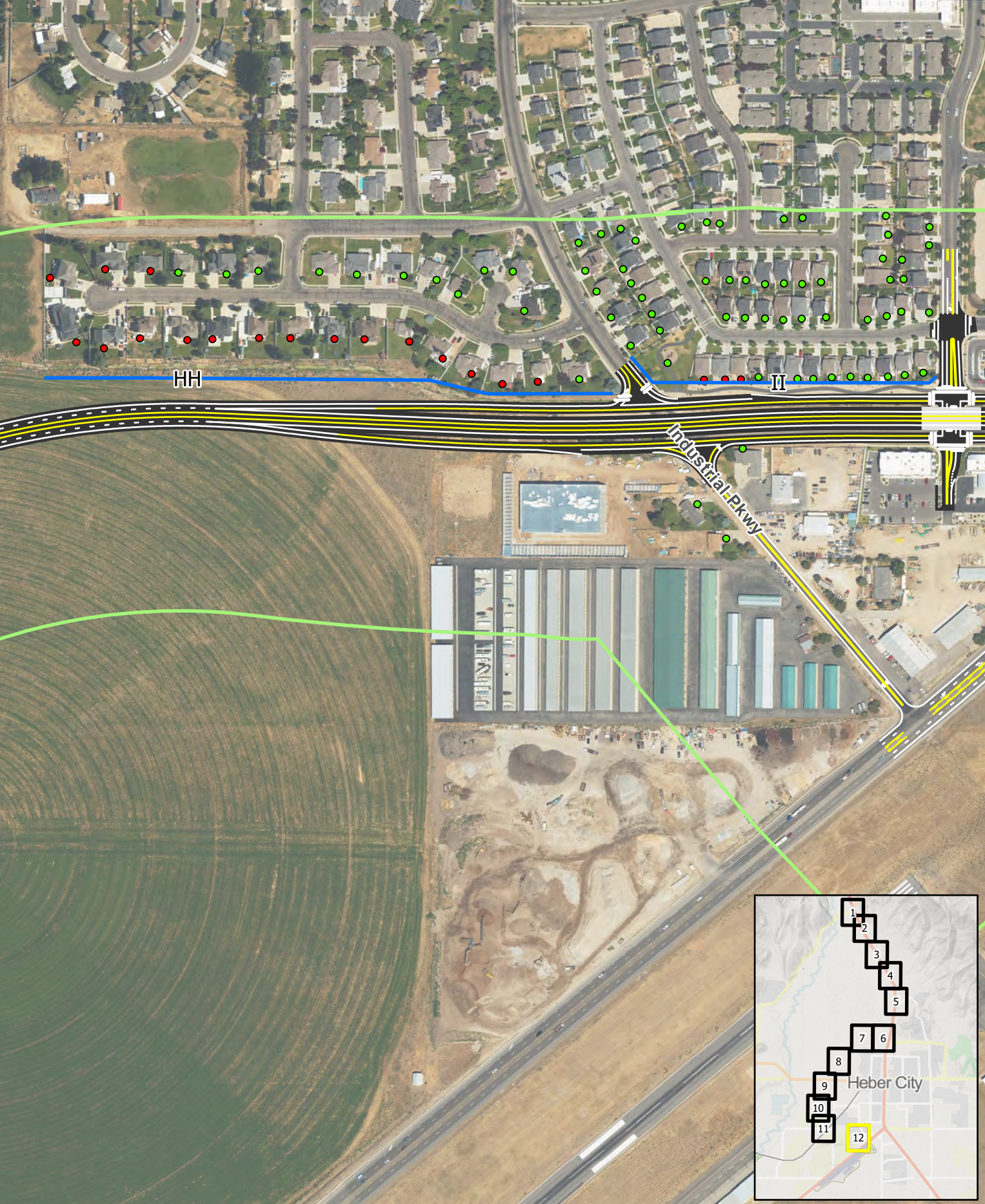


ALTERNATIVE A **NOISE WALL EVALUATION**

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

- Noise Study Area South
- Evaluated; Not Recommended
- Impacted
- Recommended
- Not Impacted

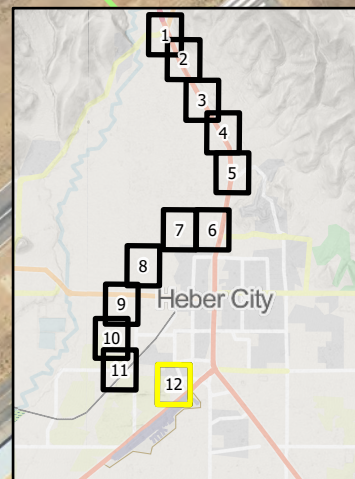


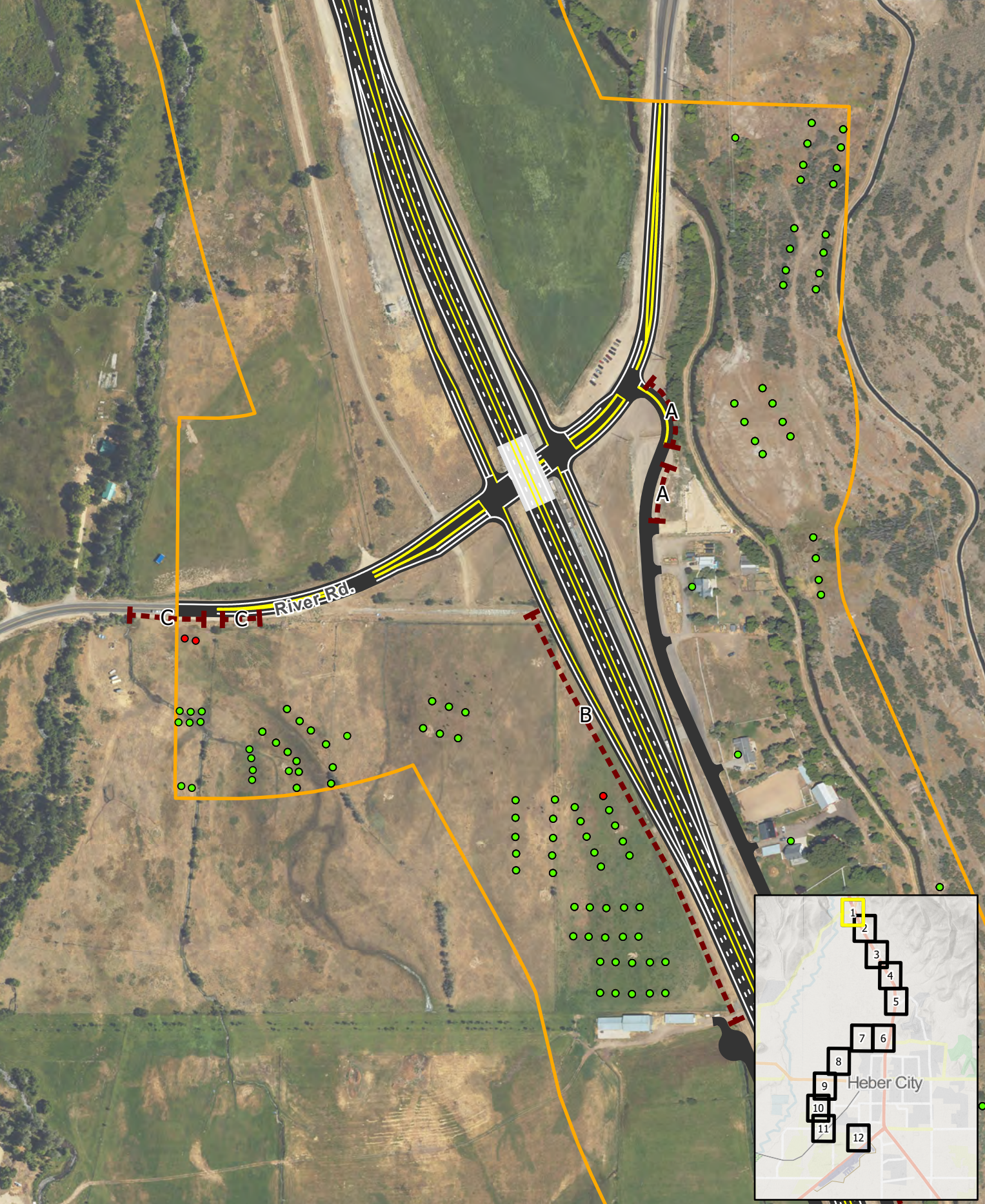


ALTERNATIVE A NOISE WALL EVALUATION

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

- Noise Study Area South
- Impacted
- Not Impacted
- Evaluated; Not Recommended
- Recommended

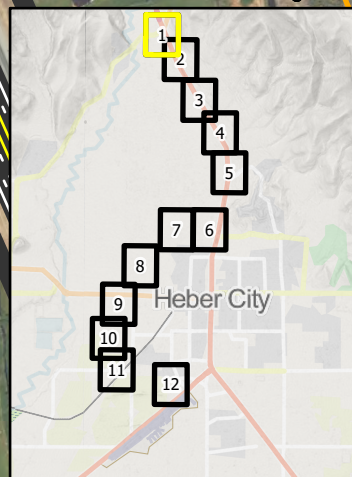
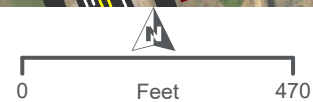


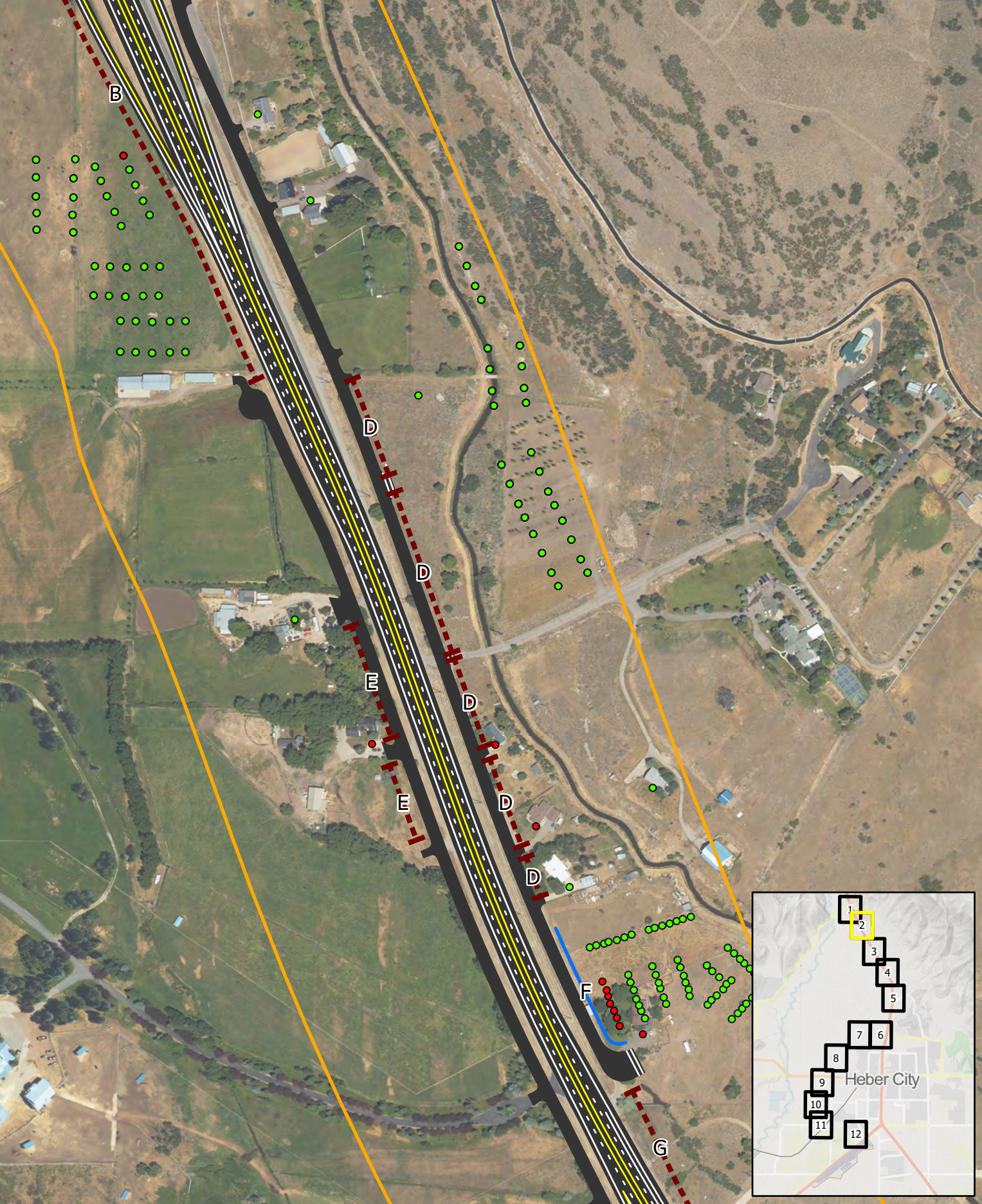


ALTERNATIVE B **NOISE WALL EVALUATION**

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

- Noise Study Area Alt B
- Impacted
- Not Impacted
- Evaluated; Not Recommended
- Recommended



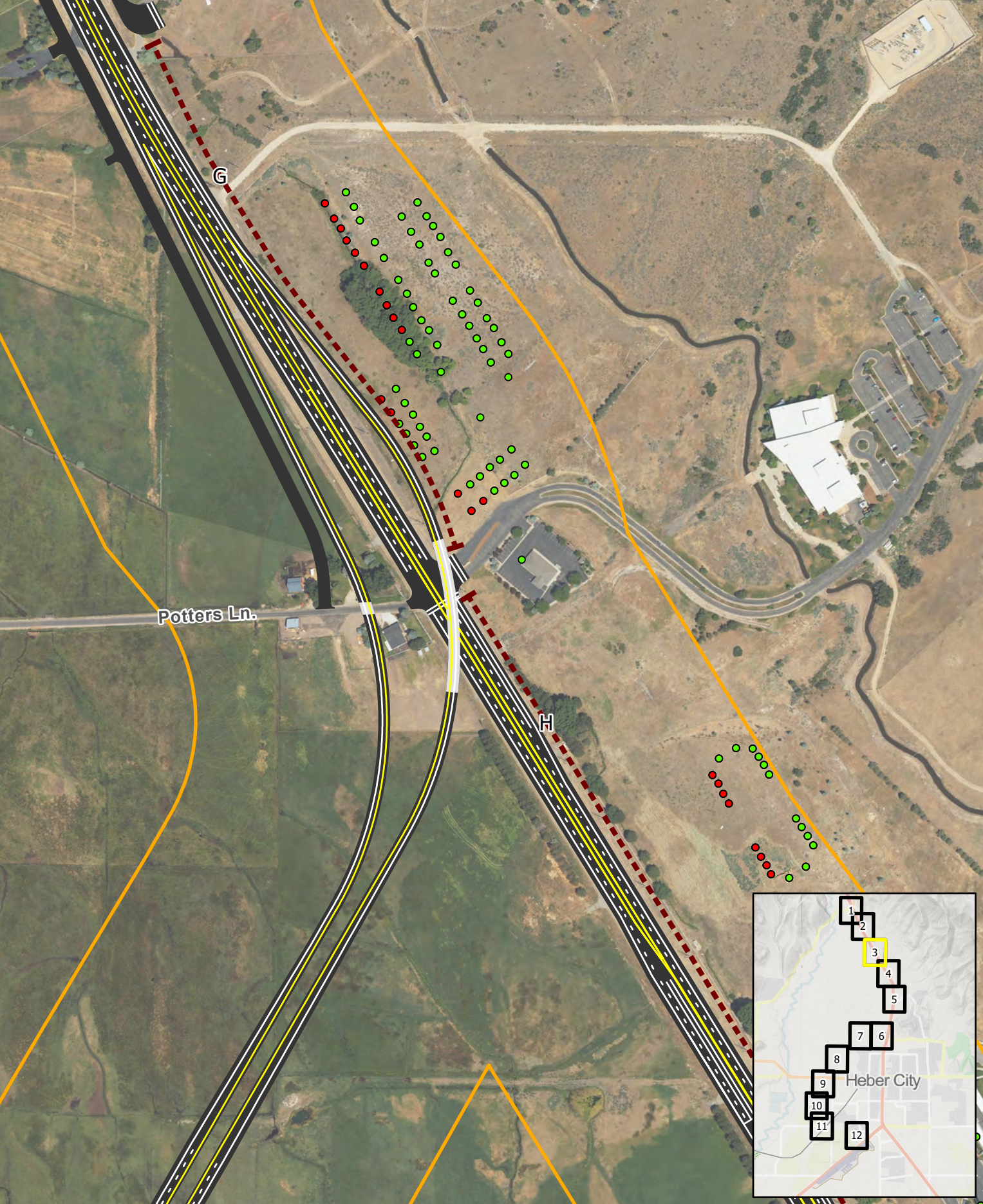


ALTERNATIVE B **NOISE WALL EVALUATION**

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

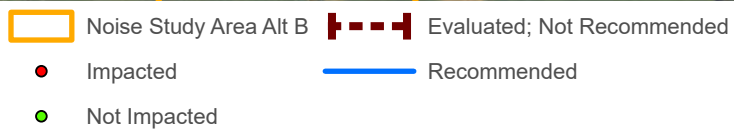
- Noise Study Area Alt B
- Impacted
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- Evaluated; Not Recommended
- Recommended

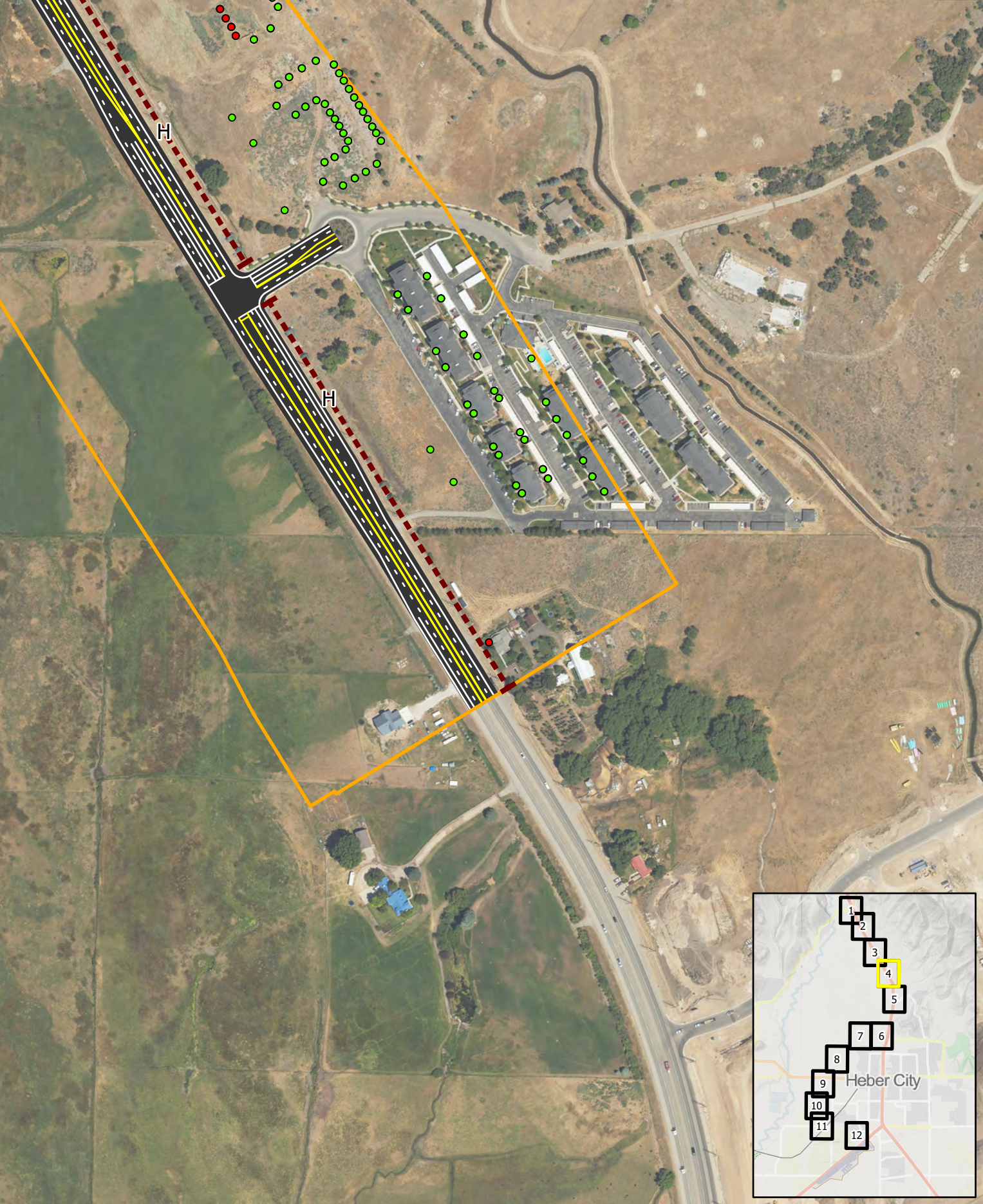




ALTERNATIVE B **NOISE WALL EVALUATION**

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT





ALTERNATIVE B **NOISE WALL EVALUATION**

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area Alt B

Impacted

Not Impacted

Evaluated; Not Recommended

Recommended



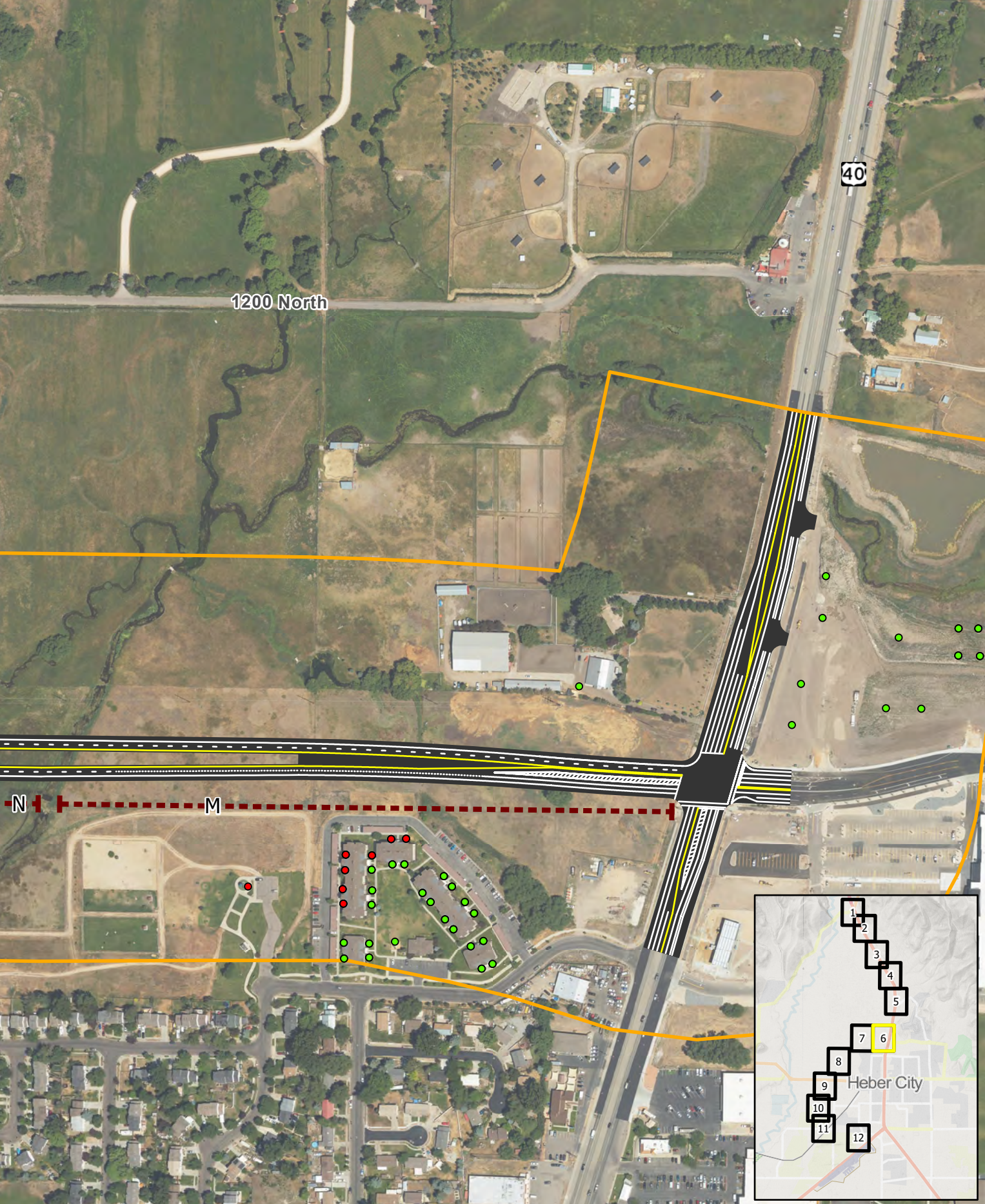


ALTERNATIVE B **NOISE WALL EVALUATION**

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

- Noise Study Area Alt B
- Evaluated; Not Recommended
- Impacted
- Recommended
- Not Impacted

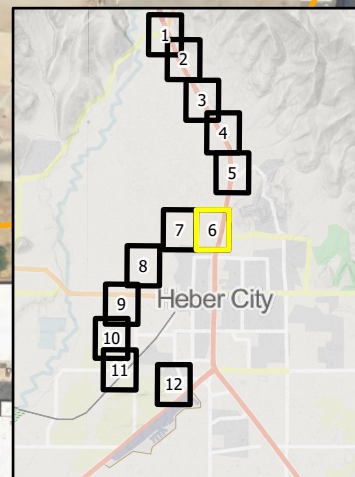


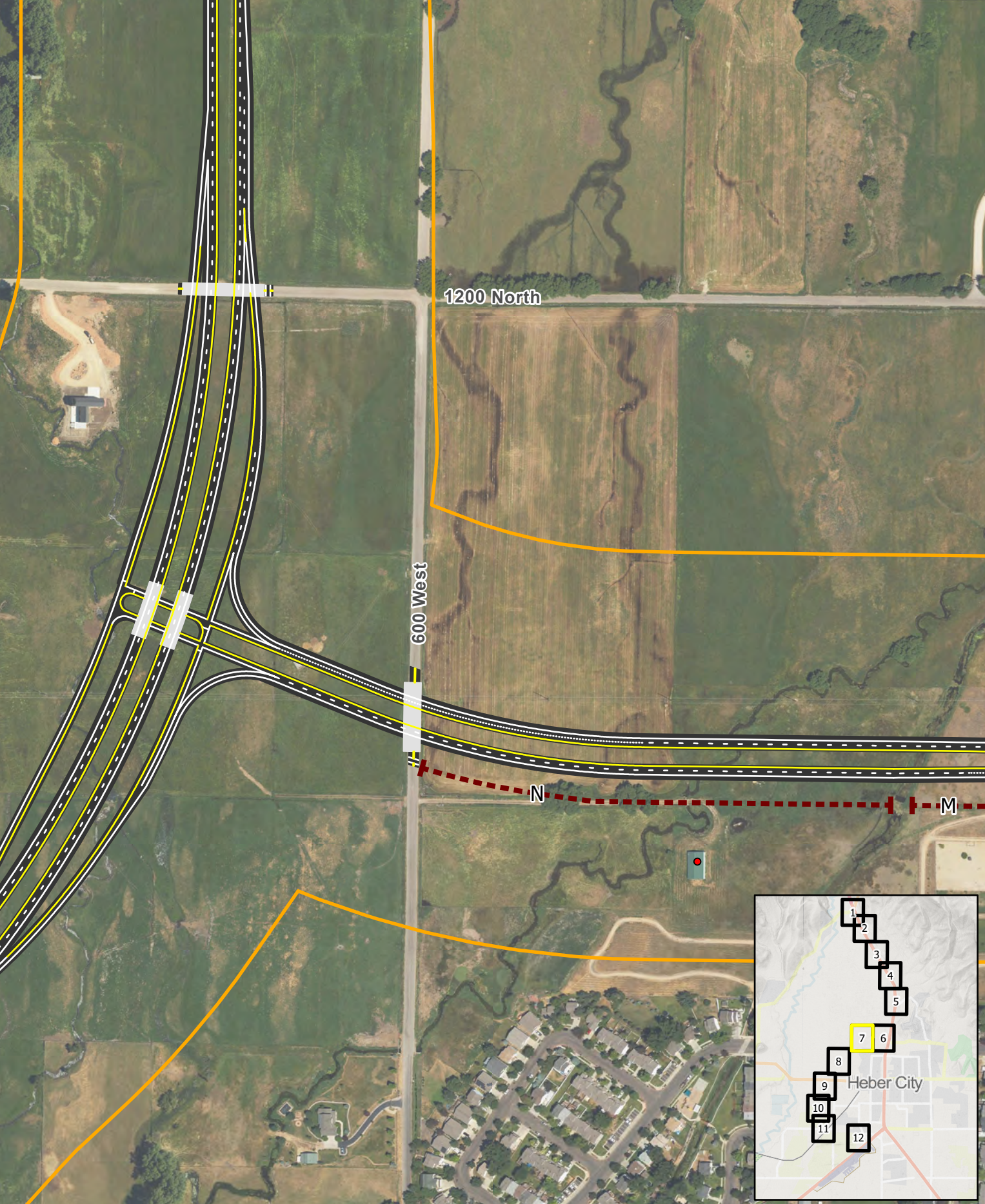


ALTERNATIVE B **NOISE WALL EVALUATION**

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

- Noise Study Area Alt B
- Impacted
- Not Impacted
- Evaluated; Not Recommended
- Recommended



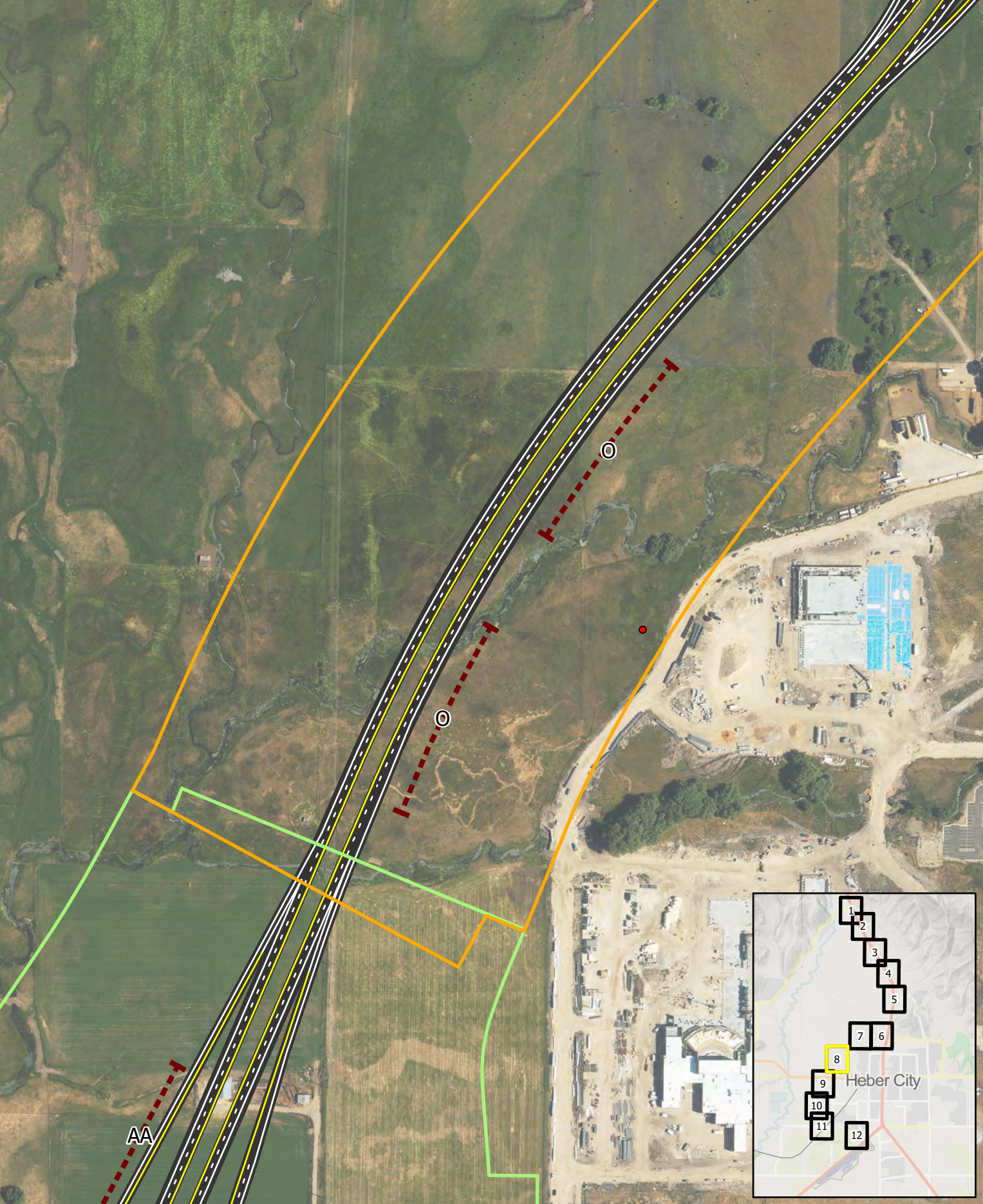


ALTERNATIVE B **NOISE WALL EVALUATION**

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

- Noise Study Area Alt B
- Impacted
- Not Impacted
- Evaluated; Not Recommended
- Recommended





ALTERNATIVE B **NOISE WALL EVALUATION**

Heber Valley Corridor
**ENVIRONMENTAL
IMPACT STATEMENT**

 Noise Study Area Alt B

 Noise Study Area South

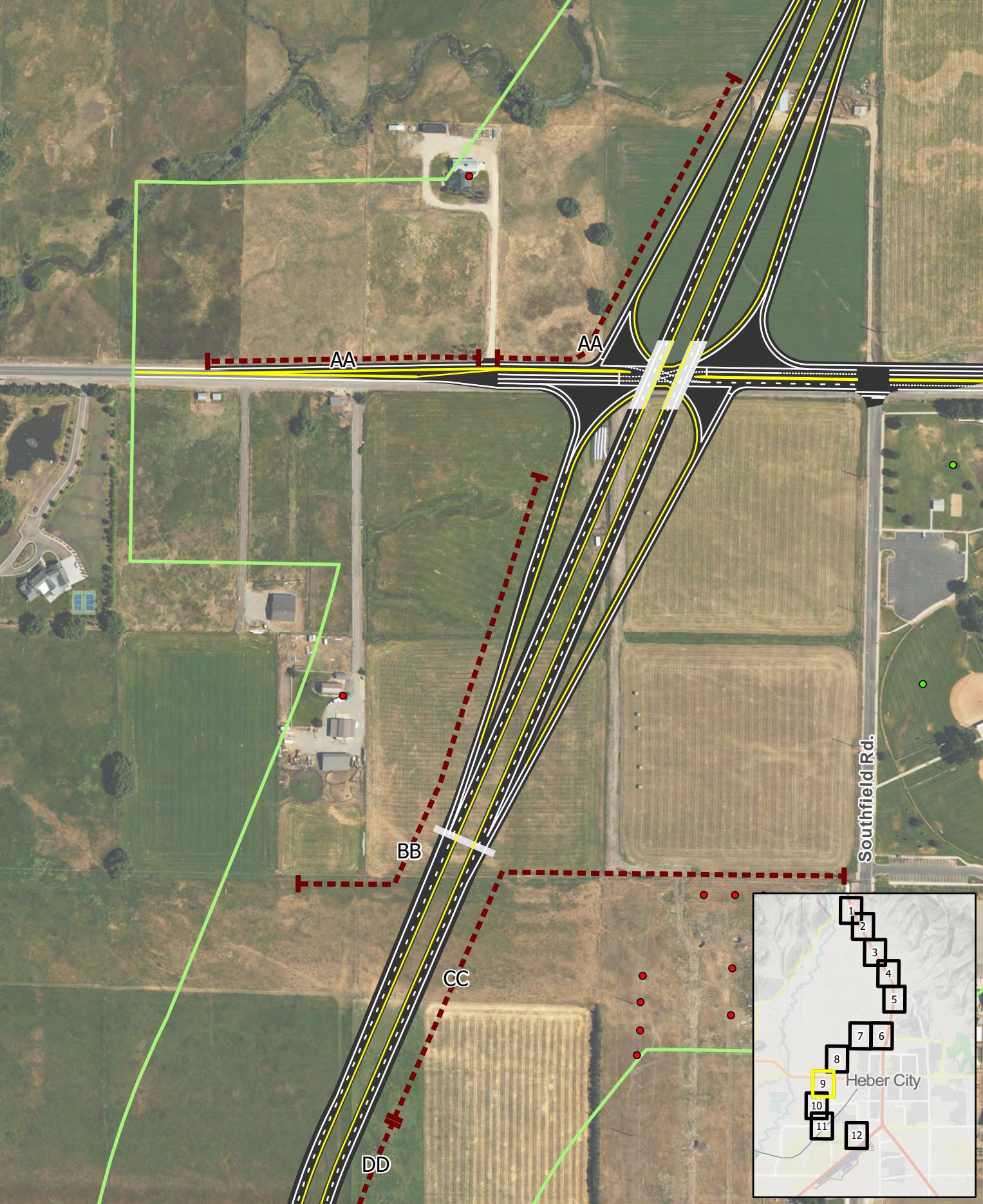
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 Evaluated; Not Recommended

 Recommended

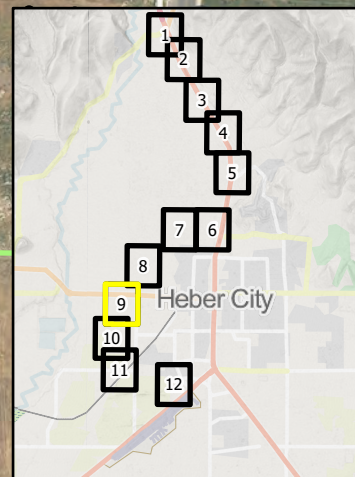


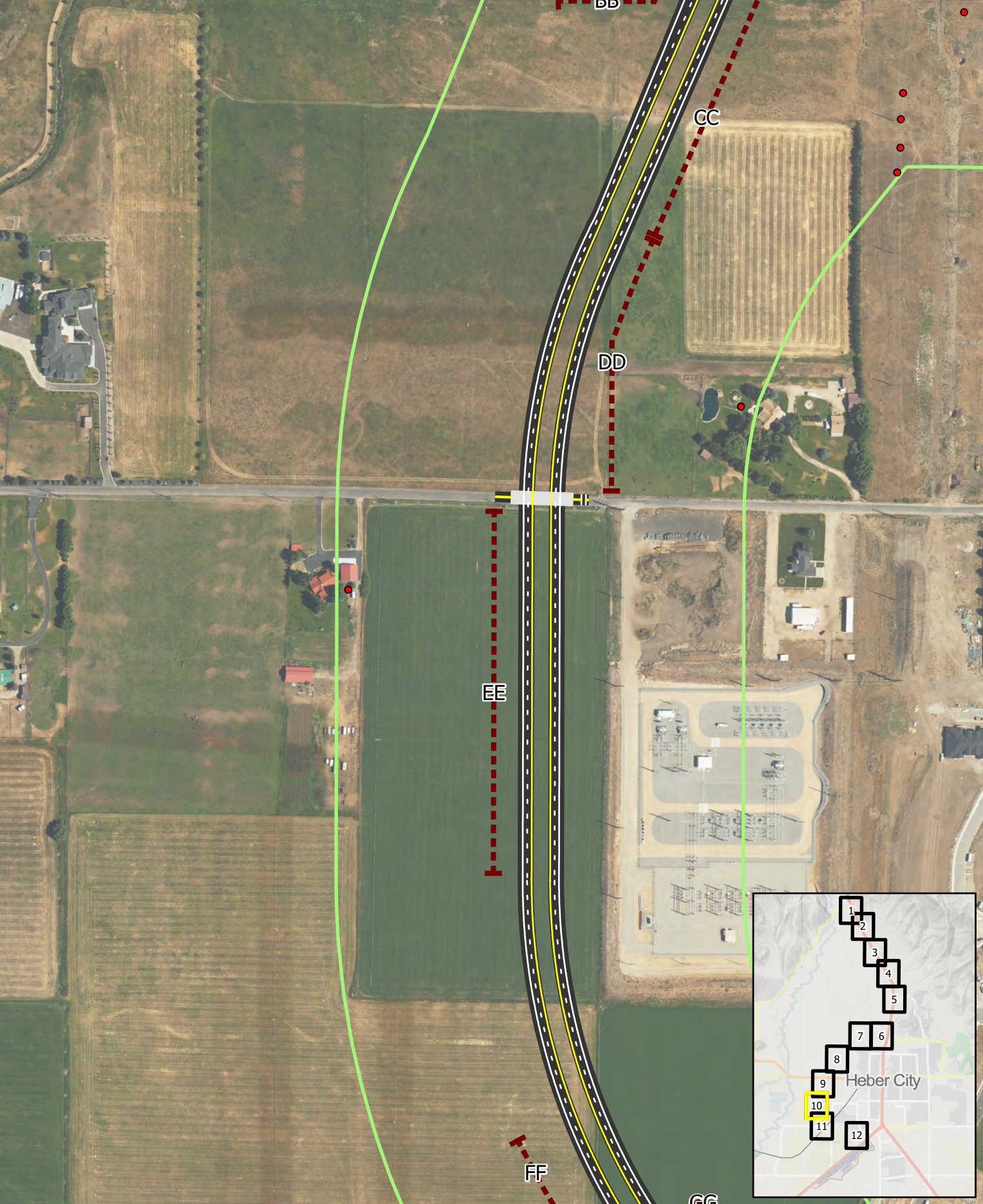


ALTERNATIVE B **NOISE WALL EVALUATION**

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

- Noise Study Area South
- Evaluated; Not Recommended
- Impacted
- Recommended
- Not Impacted





ALTERNATIVE B **NOISE WALL EVALUATION**

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

Noise Study Area South

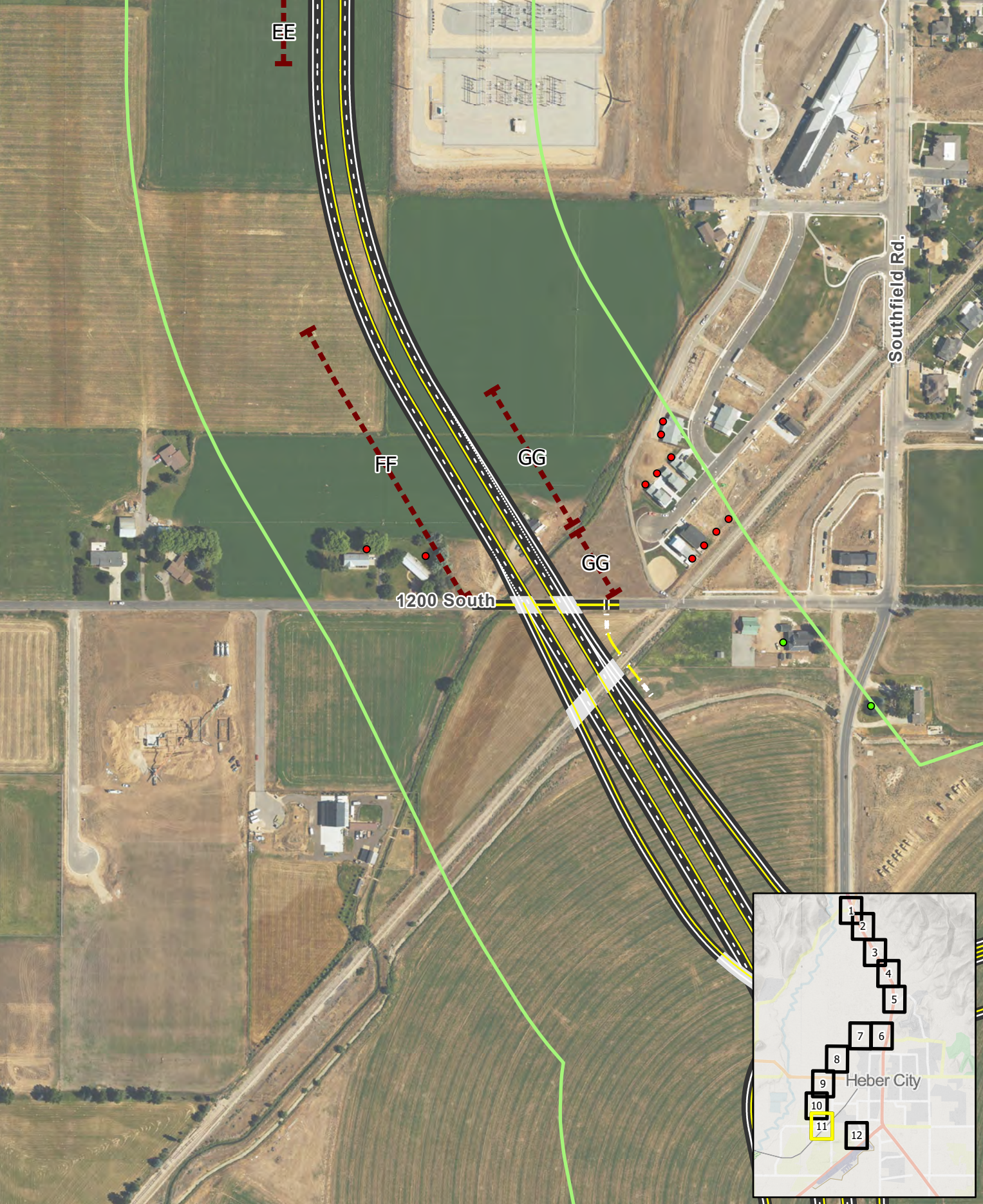
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Evaluated; Not Recommended

Recommended

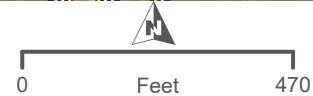




ALTERNATIVE B **NOISE WALL EVALUATION**

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

- Noise Study Area South
- Evaluated; Not Recommended
- Impacted
- Recommended
- Not Impacted





ALTERNATIVE B **NOISE WALL EVALUATION**

Heber Valley Corridor
ENVIRONMENTAL
IMPACT STATEMENT

- Noise Study Area South
- Impacted
- Not Impacted
- Evaluated; Not Recommended
- Recommended



ATTACHMENT E
Noise Wall Analysis

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Alternative A & B
Noise Barrier A

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	348 ft	348 ft	348 ft	348 ft	348 ft	348 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	4					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
66-1	1	Yes	1	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	63	1	No
67-2	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No
68-3	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
69-4	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No
70-1	1	Yes	1	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No
71-2	1		0	65	65	0	No	65	0	No	64	1	No	64	1	No	64	1	No	64	1	No
72-3	1		0	66	66	0	No	66	0	No	66	0	No	65	1	No	65	1	No	65	1	No
73-4	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
74-1	1	Yes	1	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No
75-2	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No
76-3	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No
77-4	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
78-1	1	Yes	1	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No
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82-1	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No
83-2	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No
84-3	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No
85-4	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No
86-1	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No
87-2	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No
88-3	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No
89-4	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No
90-1	1		0	50	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No
91-2	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No
92-3	1		0	54	54	0	No	54	0	No	54	0	No	54	0	No	54	0	No	54	0	No
93-4	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No
94-1	1		0	54	54	0	No	54	0	No	54	0	No	54	0	No	54	0	No	54	0	No
95-2	1		0	56	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No
96-3	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No
97-4	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No

Feasibility Factors:						
# of First-Row ≥5 dBA Reduction:	0	0	0	0	0	0
% of First-Row ≥5 dBA Reduction:	0%	0%	0%	0%	0%	0%
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):	No	No	No	No	No	No
Reasonableness Factors:						
# of First-Row ≥7 dBA Reduction:	0	0	0	0	0	0
% of First-Row ≥7 dBA Reduction:	0%	0%	0%	0%	0%	0%
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):	No	No	No	No	No	No
# of Benefited (≥5 dBA Reduction):	0	0	0	0	0	0
Cost of Noise Wall (Length x Height x \$20/sq ft):	\$48,720	\$62,640	\$76,560	\$90,480	\$104,400	\$118,320
Cost of any other items critical to safety:	0	0	0	0	0	0
Anticipated Cost of Noise Abatement:	\$48,720	\$62,640	\$76,560	\$90,480	\$104,400	\$118,320
Allowable Cost (\$30,000 per benefited receptor):	\$0	\$0	\$0	\$0	\$0	\$0
Cost Effective (Anticipated Cost < Allowable Cost):	No	No	No	No	No	No
Feasible and Reasonable:	No	No	No	No	No	No

Alternative A & B
Noise Barrier B

Alt A&B Barrier B

Wall Height:				7 ft			9 ft			11 ft			13 ft			15 ft			17 ft			
Wall Length:				1226 ft			1226 ft			1226 ft			1226 ft			1226 ft			1226 ft			
Wall Cost per sq ft:				\$20																		
Cost of items critical to safety:																						
# of First Row Receivers:				11																		
Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
179-1	1		0	50	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No	51	-1	No
180-2	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No
181-3	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No
182-1	1		0	50	50	0	No	50	0	No	50	0	No	50	0	No	51	-1	No	51	-1	No
183-2	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No
184-3	1		0	55	55	0	No	55	0	No	54	1	No	54	1	No	54	1	No	54	1	No
185-1	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No
186-2	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No
187-3	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No
176-1	1	Yes	1	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No
177-2	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No
178-3	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No
173-1	1	Yes	1	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No
174-2	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No
175-3	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No
170-1	1	Yes	1	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No
171-2	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No
172-3	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No
188-1	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No
189-2	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No
190-3	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No
191-1	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No
192-2	1		0	56	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No
193-3	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No
194-1	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No
195-2	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No
196-3	1		0	56	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No
197-1	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No
198-2	1		0	54	54	0	No	54	0	No	54	0	No	54	0	No	54	0	No	54	0	No
199-3	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No
200-1	1		0	53	53	0	No	53	0	No	53	0	No	52	1	No	52	1	No	52	1	No
201-2	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	54	1	No	54	1	No
202-3	1		0	56	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No
203-1	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	61	1	No
204-2	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No
205-3	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
206-1	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No
207-2	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No
208-3	1		0	65	65	0	No	65	0	No	64	1	No	64	1	No	64	1	No	64	1	No
209-1	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	58	1	No	58	1	No
210-2	1		0	61	61	0	No	61	0	No	61	0	No	60	1	No	60	1	No	60	1	No
211-3	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	62	1	No	62	1	No
212-1	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No	57	1	No
213-2	1		0	60	60	0	No	60	0	No	60	0	No	59	1	No	59	1	No	59	1	No
214-3	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	61	1	No	61	1	No

Alternative A & B
Noise Barrier B

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	1226 ft	1226 ft	1226 ft	1226 ft	1226 ft	1226 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	11					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
215-1	1		0	58	58	0	No	58	0	No	58	0	No	57	1	No	57	1	No	57	1	No
216-2	1		0	60	60	0	No	60	0	No	60	0	No	59	1	No	59	1	No	58	2	No
217-3	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	61	1	No	60	2	No
218-1	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	59	1	No
219-2	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No
220-3	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No
221-1	1		0	54	54	0	No	54	0	No	54	0	No	54	0	No	54	0	No	53	1	No
222-2	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No
223-3	1		0	56	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No
224-1	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No	51	1	No
225-2	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No
226-3	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No	54	1	No
227-1	1		0	52	52	0	No	52	0	No	51	1	No	51	1	No	51	1	No	51	1	No
228-2	1		0	54	54	0	No	54	0	No	54	0	No	53	1	No	52	2	No	52	2	No
229-3	1		0	56	56	0	No	56	0	No	56	0	No	56	0	No	55	1	No	54	2	No
230-1	1		0	60	60	0	No	60	0	No	59	1	No	58	2	No	57	3	No	56	4	No
231-2	1		0	63	63	0	No	63	0	No	63	0	No	61	2	No	60	3	No	58	5	No
232-3	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	61	3	No
233-1	1	Yes	1	66	66	0	No	66	0	No	65	1	No	64	2	No	62	4	No	61	5	No
234-2	1		0	70	70	0	No	70	0	No	69	1	No	69	1	No	69	1	No	67	3	No
235-3	1		0	71	71	0	No	71	0	No	71	0	No	71	0	No	71	0	No	71	0	No
236-1	1	Yes	1	65	65	0	No	65	0	No	65	0	No	63	2	No	62	3	No	61	4	No
237-2	1		0	70	70	0	No	70	0	No	69	1	No	69	1	No	68	2	No	66	4	No
238-3	1		0	71	71	0	No	71	0	No	71	0	No	71	0	No	71	0	No	71	0	No
239-1	1	Yes	1	65	65	0	No	65	0	No	65	0	No	64	1	No	62	3	No	61	4	No
240-2	1		0	70	70	0	No	70	0	No	70	0	No	70	0	No	69	1	No	66	4	No
241-3	1		0	71	71	0	No	71	0	No	71	0	No	71	0	No	71	0	No	71	0	No
242-1	1	Yes	1	65	65	0	No	65	0	No	65	0	No	63	2	No	62	3	No	61	4	No
243-2	1		0	70	70	0	No	70	0	No	70	0	No	70	0	No	68	2	No	65	5	No
244-3	1		0	71	71	0	No	71	0	No	71	0	No	71	0	No	71	0	No	71	0	No
245-1	1		0	65	65	0	No	65	0	No	65	0	No	64	1	No	62	3	No	61	4	No
246-2	1		0	70	70	0	No	70	0	No	70	0	No	70	0	No	68	2	No	66	4	No
247-3	1		0	71	71	0	No	71	0	No	71	0	No	71	0	No	71	0	No	71	0	No
248-1	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	57	1	No	56	2	No
249-2	1		0	60	60	0	No	60	0	No	60	0	No	59	1	No	59	1	No	58	2	No
250-3	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	61	1	No	60	2	No
251-1	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	58	1	No	57	2	No
252-2	1		0	62	62	0	No	62	0	No	62	0	No	61	1	No	60	2	No	58	4	No
253-3	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	62	1	No	61	2	No
254-1	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	58	2	No	57	3	No
255-2	1		0	63	63	0	No	63	0	No	63	0	No	62	1	No	61	2	No	59	4	No
256-3	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	64	1	No	62	3	No
257-1	1		0	62	62	0	No	62	0	No	62	0	No	61	1	No	60	2	No	59	3	No
258-2	1		0	66	66	0	No	66	0	No	66	0	No	65	1	No	63	3	No	62	4	No
259-3	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No	65	2	No

Alt A&B Barrier B

Alternative A & B
Noise Barrier B

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	1226 ft	1226 ft	1226 ft	1226 ft	1226 ft	1226 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	11					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
260-1	1	Yes	1	64	64	0	No	64	0	No	64	0	No	63	1	No	61	3	No	60	4	No
261-2	1		0	69	69	0	No	69	0	No	69	0	No	67	2	No	65	4	No	63	6	No
262-3	1		0	70	70	0	No	70	0	No	70	0	No	70	0	No	70	0	No	68	2	No
263-1	1		0	53	53	0	No	53	0	No	53	0	No	52	1	No	51	2	No	50	3	No
264-2	1		0	57	57	0	No	57	0	No	57	0	No	54	3	No	53	4	No	51	6	No
265-3	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	54	3	No	54	3	No
266-1	1		0	55	55	0	No	55	0	No	54	1	No	53	2	No	52	3	No	51	4	No
267-2	1		0	58	58	0	No	58	0	No	58	0	No	55	3	No	54	4	No	52	6	No
268-3	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	56	3	No	55	4	No
269-1	1		0	56	56	0	No	56	0	No	56	0	No	55	1	No	54	2	No	52	4	No
270-2	1		0	60	60	0	No	60	0	No	60	0	No	57	3	No	56	4	No	54	6	No
271-3	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	58	3	No	56	5	No
272-1	1		0	58	58	0	No	58	0	No	57	1	No	56	2	No	55	3	No	54	4	No
273-2	1		0	62	62	0	No	62	0	No	62	0	No	59	3	No	57	5	No	56	6	No
274-3	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	61	2	No	59	4	No
275-1	1	Yes	1	61	61	0	No	61	0	No	60	1	No	59	2	No	57	4	No	56	5	No
276-2	1		0	65	65	0	No	65	0	No	64	1	No	62	3	No	60	5	No	59	6	No
277-3	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	65	1	No	62	4	No
278-1	1		0	56	56	0	No	56	0	No	56	0	No	55	1	No	54	2	No	53	3	No
279-2	1		0	60	60	0	No	60	0	No	60	0	No	57	3	No	56	4	No	54	6	No
280-3	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	57	4	No	57	4	No
281-1	1		0	58	58	0	No	58	0	No	58	0	No	57	1	No	55	3	No	54	4	No
282-2	1		0	62	62	0	No	62	0	No	62	0	No	59	3	No	58	4	No	55	7	Yes
283-3	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	59	4	No	58	5	No
284-1	1		0	61	61	0	No	61	0	No	60	1	No	59	2	No	57	4	No	56	5	No
285-2	1		0	64	64	0	No	64	0	No	64	0	No	61	3	No	60	4	No	58	6	No
286-3	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	63	2	No	61	4	No
287-1	1		0	62	62	0	No	62	0	No	62	0	No	61	1	No	59	3	No	58	4	No
288-2	1		0	66	66	0	No	66	0	No	66	0	No	64	2	No	62	4	No	61	5	No
289-3	1		0	68	68	0	No	68	0	No	68	0	No	68	0	No	67	1	No	64	4	No
290-1	1	Yes	1	65	65	0	No	64	1	No	64	1	No	62	3	No	61	4	No	59	6	No
291-2	1		0	69	69	0	No	69	0	No	69	0	No	66	3	No	64	5	No	63	6	No
292-3	1		0	70	70	0	No	70	0	No	70	0	No	70	0	No	70	0	No	67	3	No
293-1	1		0	56	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No	55	1	No
294-2	1		0	60	60	0	No	60	0	No	60	0	No	59	1	No	59	1	No	59	1	No
295-3	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	60	1	No	60	1	No
296-1	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	56	1	No	56	1	No
297-2	1		0	61	61	0	No	61	0	No	60	1	No	60	1	No	60	1	No	59	2	No
298-3	1		0	62	62	0	No	62	0	No	62	0	No	61	1	No	61	1	No	61	1	No
299-1	1		0	58	58	0	No	58	0	No	58	0	No	57	1	No	57	1	No	57	1	No
300-2	1		0	62	62	0	No	62	0	No	61	1	No	61	1	No	61	1	No	61	1	No
301-3	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	62	1	No	62	1	No
302-1	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	58	1	No	58	1	No
303-2	1		0	64	64	0	No	64	0	No	63	1	No	62	2	No	62	2	No	62	2	No
304-3	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	63	2	No	63	2	No

Alternative A & B
Noise Barrier B

Wall Height:		7 ft		9 ft		11 ft		13 ft		15 ft		17 ft												
Wall Length:		1226 ft		1226 ft		1226 ft		1226 ft		1226 ft		1226 ft												
Wall Cost per sq ft:		\$20																						
Cost of items critical to safety:																								
# of First Row Receivers:		11																						
Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction		
305-1	1	Yes	1	62	62	0	No	62	0	No	61	1	No	60	2	No	60	2	No	59	3	No		
306-2	1		0	66	66	0	No	66	0	No	66	0	No	64	2	No	63	3	No	63	3	No		
307-3	1		0	68	68	0	No	68	0	No	68	0	No	68	0	No	66	2	No	65	3	No		
Feasibility Factors:																								
# of First-Row ≥5 dBA Reduction:							0				0				0				0				3	
% of First-Row ≥5 dBA Reduction:							0%				0%				0%				0%				27%	
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):							No				No				No				No				No	
Reasonableness Factors:																								
# of First-Row ≥7 dBA Reduction:							0				0				0				0				0	
% of First-Row ≥7 dBA Reduction:							0%				0%				0%				0%				0%	
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):							No				No				No				No				No	
# of Benefited (≥5 dBA Reduction):							0				0				0				3				19	
Cost of Noise Wall (Length x Height x \$20/sq ft):							\$171,640				\$220,680				\$269,720				\$318,760				\$416,840	
Cost of any other items critical to safety:							0				0				0				0				0	
Anticipated Cost of Noise Abatement:							\$171,640				\$220,680				\$269,720				\$318,760				\$416,840	
Allowable Cost (\$30,000 per benefited receptor):							\$0				\$0				\$0				\$0				\$90,000	\$570,000
Cost Effective (Anticipated Cost < Allowable Cost):							No				No				No				No				No	Yes
Feasible and Reasonable:							No				No				No				No				No	No

Alt A&B Barrier C																												
Alternative A & B																												
Noise Barrier C																												
Wall Height:		7 ft				9 ft				11 ft				13 ft				15 ft				17 ft						
Wall Length:		625 ft				500 ft				400 ft				300 ft				275 ft				275 ft						
Wall Cost per sq ft:		\$20																										
Cost of items critical to safety:																												
# of First Row Receivers:		2																										
Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction						
117	1	Yes	1	67	63	4	No	62	5	No	62	5	No	62	5	No	62	5	No	62	5	No						
118	1	Yes	1	68	62	6	No	61	7	Yes	61	7	Yes	61	7	Yes	61	7	Yes	61	7	Yes						
Feasibility Factors:																												
# of First-Row ≥5 dBA Reduction:							1	2							2							2						
% of First-Row ≥5 dBA Reduction:							50%	100%							100%							100%						
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):							Yes	Yes							Yes							Yes						
Reasonableness Factors:																												
# of First-Row ≥7 dBA Reduction:							0	1							1							1						
% of First-Row ≥7 dBA Reduction:							0%	50%							50%							50%						
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):							No	Yes							Yes							Yes						
# of Benefited (≥5 dBA Reduction):							1	2							2							2						
Cost of Noise Wall (Length x Height x \$20/sq ft):							\$87,500	\$90,000							\$88,000							\$78,000						
Cost of any other items critical to safety:							0	0							0							0						
Anticipated Cost of Noise Abatement:							\$87,500	\$90,000							\$88,000							\$78,000						
Allowable Cost (\$30,000 per benefited receptor):							\$30,000	\$60,000							\$60,000							\$60,000						
Cost Effective (Anticipated Cost < Allowable Cost):							No	No							No							No						
Feasible and Reasonable:							No	No							No							No						

Alternative A & B
Noise Barrier D

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	1335 ft	1335 ft	1335 ft	1335 ft	1335 ft	1335 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	16					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
455	1	Yes	1	68	68	0	No	68	0	No	68	0	No	68	0	No	68	0	No	68	0	No
456	1	Yes	1	66	64	2	No	63	3	No	62	4	No	62	4	No	61	5	No	61	5	No
457	1		0	54	54	0	No	54	0	No	54	0	No	54	0	No	54	0	No	54	0	No
458	1	Yes	1	63	62	1	No	62	1	No	62	1	No	62	1	No	61	2	No	61	2	No
452	1	Yes	1	64	64	0	No	63	1	No	62	2	No	62	2	No	61	3	No	61	3	No
324-1	1	Yes	1	60	59	1	No	59	1	No	59	1	No	59	1	No	58	2	No	58	2	No
325-2	1		0	62	62	0	No	61	1	No	61	1	No	61	1	No	61	1	No	61	1	No
326-3	1		0	63	63	0	No	63	0	No	63	0	No	62	1	No	62	1	No	62	1	No
327-4	1		0	64	64	0	No	64	0	No	64	0	No	63	1	No	63	1	No	63	1	No
328-1	1	Yes	1	60	59	1	No	59	1	No	59	1	No	59	1	No	58	2	No	58	2	No
329-2	1		0	62	62	0	No	62	0	No	61	1	No	61	1	No	61	1	No	61	1	No
330-3	1		0	64	63	1	No	63	1	No	63	1	No	62	2	No	62	2	No	62	2	No
331-4	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	63	1	No	63	1	No
332-1	1	Yes	1	60	60	0	No	59	1	No	59	1	No	59	1	No	58	2	No	58	2	No
333-2	1		0	63	62	1	No	62	1	No	61	2	No	61	2	No	61	2	No	61	2	No
334-3	1		0	64	63	1	No	63	1	No	63	1	No	63	1	No	62	2	No	62	2	No
335-4	1		0	65	64	1	No	64	1	No	64	1	No	64	1	No	63	2	No	63	2	No
336-1	1	Yes	1	60	60	0	No	59	1	No	59	1	No	59	1	No	58	2	No	58	2	No
337-2	1		0	63	62	1	No	62	1	No	61	2	No	61	2	No	61	2	No	61	2	No
338-3	1		0	64	63	1	No	63	1	No	63	1	No	63	1	No	62	2	No	62	2	No
339-4	1		0	65	65	0	No	64	1	No	64	1	No	64	1	No	64	1	No	64	1	No
340-1	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No
341-2	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No
342-3	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No
343-4	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No
344-1	1		0	43	43	0	No	43	0	No	43	0	No	43	0	No	43	0	No	43	0	No
345-2	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	44	1	No	44	1	No
346-3	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	44	1	No	44	1	No
347-4	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No
348-1	1		0	43	43	0	No	43	0	No	43	0	No	43	0	No	43	0	No	43	0	No
349-2	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	44	1	No	44	1	No
350-3	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	44	1	No	44	1	No
351-4	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No
352-1	1		0	55	54	1	No	54	1	No	53	2	No	53	2	No	52	3	No	52	3	No
353-2	1		0	58	57	1	No	56	2	No	56	2	No	55	3	No	54	4	No	54	4	No
354-3	1		0	59	58	1	No	58	1	No	57	2	No	57	2	No	56	3	No	56	3	No
355-4	1		0	60	60	0	No	59	1	No	59	1	No	58	2	No	57	3	No	57	3	No
388-1	1	Yes	1	61	61	0	No	60	1	No	60	1	No	60	1	No	59	2	No	59	2	No
389-2	1		0	64	63	1	No	63	1	No	62	2	No	62	2	No	61	3	No	61	3	No
390-3	1		0	65	65	0	No	64	1	No	64	1	No	64	1	No	63	2	No	63	2	No
391-4	1		0	66	66	0	No	66	0	No	65	1	No	65	1	No	65	1	No	65	1	No
392-1	1	Yes	1	61	60	1	No	60	1	No	60	1	No	59	2	No	59	2	No	59	2	No
393-2	1		0	63	63	0	No	63	0	No	62	1	No	62	1	No	61	2	No	61	2	No
394-3	1		0	65	65	0	No	64	1	No	64	1	No	63	2	No	63	2	No	63	2	No
395-4	1		0	66	66	0	No	65	1	No	65	1	No	65	1	No	64	2	No	64	2	No

Alternative A & B
Noise Barrier D

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	1335 ft	1335 ft	1335 ft	1335 ft	1335 ft	1335 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	16					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
396-1	1	Yes	1	61	60	1	No	60	1	No	60	1	No	59	2	No	59	2	No	59	2	No
397-2	1		0	63	63	0	No	63	0	No	62	1	No	61	2	No	61	2	No	61	2	No
398-3	1		0	65	64	1	No	64	1	No	64	1	No	63	2	No	63	2	No	63	2	No
399-4	1		0	66	65	1	No	65	1	No	65	1	No	65	1	No	64	2	No	64	2	No
400-1	1	Yes	1	61	60	1	No	60	1	No	59	2	No	59	2	No	58	3	No	58	3	No
401-2	1		0	63	63	0	No	62	1	No	62	1	No	61	2	No	61	2	No	61	2	No
402-3	1		0	65	64	1	No	64	1	No	64	1	No	63	2	No	63	2	No	63	2	No
403-4	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	64	1	No	64	1	No
404-1	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No
405-2	1		0	60	60	0	No	60	0	No	59	1	No	59	1	No	59	1	No	59	1	No
406-3	1		0	61	61	0	No	61	0	No	61	0	No	60	1	No	60	1	No	60	1	No
407-4	1		0	62	62	0	No	62	0	No	61	1	No	61	1	No	61	1	No	61	1	No
408-1	1		0	49	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No
409-2	1		0	51	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No
410-3	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	51	1	No	51	1	No
411-4	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No
412-1	1		0	46	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No
413-2	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No
414-3	1		0	48	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No
415-4	1		0	50	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No
416-1	1		0	46	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No
417-2	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No
418-3	1		0	49	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No
419-4	1		0	51	51	0	No	51	0	No	50	1	No	50	1	No	50	1	No	50	1	No
420-1	1	Yes	1	61	60	1	No	60	1	No	59	2	No	59	2	No	58	3	No	58	3	No
421-2	1		0	63	63	0	No	62	1	No	62	1	No	61	2	No	61	2	No	61	2	No
422-3	1		0	64	64	0	No	64	0	No	64	0	No	63	1	No	62	2	No	62	2	No
423-4	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	64	1	No	64	1	No
424-1	1	Yes	1	60	60	0	No	60	0	No	59	1	No	59	1	No	58	2	No	58	2	No
425-2	1		0	63	63	0	No	62	1	No	62	1	No	61	2	No	61	2	No	61	2	No
426-3	1		0	64	64	0	No	64	0	No	64	0	No	63	1	No	62	2	No	62	2	No
427-4	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	64	1	No	64	1	No
428-1	1	Yes	1	60	60	0	No	60	0	No	59	1	No	59	1	No	59	1	No	59	1	No
429-2	1		0	63	63	0	No	63	0	No	62	1	No	62	1	No	61	2	No	61	2	No
430-3	1		0	64	64	0	No	64	0	No	64	0	No	63	1	No	63	1	No	63	1	No
431-4	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	64	1	No	64	1	No
432-1	1	Yes	1	60	60	0	No	60	0	No	60	0	No	59	1	No	59	1	No	59	1	No
433-2	1		0	63	63	0	No	63	0	No	63	0	No	62	1	No	62	1	No	62	1	No
434-3	1		0	64	64	0	No	64	0	No	64	0	No	63	1	No	63	1	No	63	1	No
435-4	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	64	1	No	64	1	No
436-1	1		0	46	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No
437-2	1		0	48	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No
438-3	1		0	50	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No
439-4	1		0	51	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No
440-1	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No

Alternative A & B
Noise Barrier D

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	1335 ft	1335 ft	1335 ft	1335 ft	1335 ft	1335 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	16					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
441-2	1		0	49	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No
442-3	1		0	51	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No
443-4	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No
444-1	1		0	49	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No
445-2	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No
446-3	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No
447-4	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No
448-1	1		0	55	54	1	No	54	1	No	54	1	No	54	1	No	54	1	No	54	1	No
449-2	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No
450-3	1		0	58	58	0	No	58	0	No	57	1	No	57	1	No	57	1	No	57	1	No
451-4	1		0	59	58	1	No	58	1	No	58	1	No	58	1	No	58	1	No	58	1	No

Feasibility Factors:						
# of First-Row ≥5 dBA Reduction:	0	0	0	0	1	1
% of First-Row ≥5 dBA Reduction:	0%	0%	0%	0%	6%	6%
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):	No	No	No	No	No	No
Reasonableness Factors:						
# of First-Row ≥7 dBA Reduction:	0	0	0	0	0	0
% of First-Row ≥7 dBA Reduction:	0%	0%	0%	0%	0%	0%
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):	No	No	No	No	No	No
# of Benefited (≥5 dBA Reduction):	0	0	0	0	1	1
Cost of Noise Wall (Length x Height x \$20/sq ft):	\$186,900	\$240,300	\$293,700	\$347,100	\$400,500	\$453,900
Cost of any other items critical to safety:	0	0	0	0	0	0
Anticipated Cost of Noise Abatement:	\$186,900	\$240,300	\$293,700	\$347,100	\$400,500	\$453,900
Allowable Cost (\$30,000 per benefited receptor):	\$0	\$0	\$0	\$0	\$30,000	\$30,000
Cost Effective (Anticipated Cost < Allowable Cost):	No	No	No	No	No	No
Feasible and Reasonable:	No	No	No	No	No	No

Alternative A & B
Noise Barrier E

Wall Height:	7	ft	9	ft	11	ft	13	ft	15	ft	17	ft
Wall Length:	535	ft	535	ft	535	ft	535	ft	535	ft	535	ft
Wall Cost per sq ft:	\$20											
Cost of items critical to safety:												
# of First Row Receivers:	1											

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
454	1	Yes	1	68	67	1	No	67	1	No	66	2	No	66	2	No	66	2	No	66	2	No

Feasibility Factors:						
# of First-Row ≥5 dBA Reduction:	0	0	0	0	0	0
% of First-Row ≥5 dBA Reduction:	0%	0%	0%	0%	0%	0%
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):	No	No	No	No	No	No
Reasonableness Factors:						
# of First-Row ≥7 dBA Reduction:	0	0	0	0	0	0
% of First-Row ≥7 dBA Reduction:	0%	0%	0%	0%	0%	0%
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):	No	No	No	No	No	No
# of Benefited (≥5 dBA Reduction):	0	0	0	0	0	0
Cost of Noise Wall (Length x Height x \$20/sq ft):	\$74,900	\$96,300	\$117,700	\$139,100	\$160,500	\$181,900
Cost of any other items critical to safety:	0	0	0	0	0	0
Anticipated Cost of Noise Abatement:	\$74,900	\$96,300	\$117,700	\$139,100	\$160,500	\$181,900
Allowable Cost (\$30,000 per benefited receptor):	\$0	\$0	\$0	\$0	\$0	\$0
Cost Effective (Anticipated Cost < Allowable Cost):	No	No	No	No	No	No
Feasible and Reasonable:	No	No	No	No	No	No

Alternative A & B
Noise Barrier F

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	383 ft	383 ft	383 ft	383 ft	383 ft	383 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	8					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
479	1	Yes	1	68	66	2	No	63	5	No	61	7	Yes	60	8	Yes	59	9	Yes	59	9	Yes
478	1	Yes	1	68	65	3	No	63	5	No	61	7	Yes	60	8	Yes	59	9	Yes	59	9	Yes
477	1	Yes	1	68	65	3	No	63	5	No	61	7	Yes	60	8	Yes	59	9	Yes	59	9	Yes
476	1	Yes	1	68	64	4	No	62	6	No	61	7	Yes	60	8	Yes	59	9	Yes	58	10	Yes
475	1	Yes	1	67	63	4	No	62	5	No	61	6	No	60	7	Yes	59	8	Yes	58	9	Yes
474	1	Yes	1	67	63	4	No	61	6	No	60	7	Yes	59	8	Yes	59	8	Yes	58	9	Yes
473	1	Yes	1	67	63	4	No	62	5	No	61	6	No	60	7	Yes	59	8	Yes	58	9	Yes
487	1		0	63	63	0	No	62	1	No	62	1	No	62	1	No	62	1	No	62	1	No
486	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No
485	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No
484	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No	58	1	No
483	1		0	59	58	1	No	58	1	No	58	1	No	58	1	No	57	2	No	57	2	No
482	1		0	58	57	1	No	57	1	No	57	1	No	57	1	No	57	1	No	56	2	No
481	1		0	58	57	1	No	57	1	No	57	1	No	57	1	No	56	2	No	56	2	No
493	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No
492	1		0	59	58	1	No	58	1	No	58	1	No	58	1	No	58	1	No	58	1	No
491	1		0	57	56	1	No	56	1	No	56	1	No	56	1	No	56	1	No	56	1	No
490	1		0	56	55	1	No	55	1	No	55	1	No	55	1	No	55	1	No	55	1	No
489	1		0	55	55	0	No	54	1	No	54	1	No	54	1	No	54	1	No	54	1	No
488	1		0	55	54	1	No	54	1	No	54	1	No	54	1	No	54	1	No	54	1	No
494	1		0	54	53	1	No	53	1	No	53	1	No	53	1	No	53	1	No	53	1	No
495	1		0	55	54	1	No	54	1	No	54	1	No	54	1	No	54	1	No	54	1	No
496	1		0	56	55	1	No	55	1	No	55	1	No	55	1	No	55	1	No	55	1	No
497	1		0	57	56	1	No	56	1	No	56	1	No	56	1	No	56	1	No	56	1	No
498	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No
499	1		0	60	59	1	No	59	1	No	59	1	No	59	1	No	59	1	No	59	1	No
503	1		0	60	59	1	No	59	1	No	59	1	No	59	1	No	59	1	No	59	1	No
504	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No
505	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No
506	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	56	1	No	56	1	No
507	1		0	56	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No
508	1		0	56	55	1	No	55	1	No	55	1	No	55	1	No	55	1	No	55	1	No
515	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No
516	1		0	59	58	1	No	58	1	No	58	1	No	58	1	No	58	1	No	58	1	No
517	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No
518	1		0	58	57	1	No	57	1	No	57	1	No	57	1	No	57	1	No	57	1	No
519	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No
521	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No
522	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No
523	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No
514	1		0	57	56	1	No	56	1	No	56	1	No	56	1	No	56	1	No	56	1	No
513	1		0	56	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No
512	1		0	56	55	1	No	55	1	No	55	1	No	55	1	No	55	1	No	55	1	No
511	1		0	55	54	1	No	54	1	No	54	1	No	54	1	No	54	1	No	54	1	No
510	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No

Alternative A & B
Noise Barrier F

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	383 ft	383 ft	383 ft	383 ft	383 ft	383 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	8					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
509	1		0	51	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No
459	1	Yes	1	65	62	3	No	61	4	No	60	5	No	59	6	No	59	6	No	58	7	Yes
460	1		0	62	59	3	No	58	4	No	58	4	No	57	5	No	57	5	No	56	6	No
461	1		0	59	57	2	No	57	2	No	56	3	No	56	3	No	55	4	No	55	4	No
462	1		0	58	56	2	No	56	2	No	55	3	No	55	3	No	55	3	No	54	4	No
463	1		0	56	55	1	No	55	1	No	54	2	No	54	2	No	54	2	No	53	3	No
464	1		0	56	54	2	No	54	2	No	54	2	No	53	3	No	53	3	No	53	3	No
465	1		0	55	54	1	No	54	1	No	53	2	No	53	2	No	53	2	No	52	3	No
466	1		0	57	56	1	No	56	1	No	56	1	No	55	2	No	55	2	No	55	2	No
467	1		0	55	54	1	No	54	1	No	54	1	No	53	2	No	53	2	No	53	2	No
468	1		0	54	53	1	No	53	1	No	53	1	No	53	1	No	52	2	No	52	2	No
469	1		0	53	52	1	No	52	1	No	52	1	No	52	1	No	52	1	No	52	1	No
470	1		0	53	52	1	No	52	1	No	52	1	No	52	1	No	52	1	No	52	1	No
471	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	51	1	No	51	1	No
472	1		0	52	52	0	No	52	0	No	52	0	No	51	1	No	51	1	No	51	1	No
500	1		0	57	56	1	No	56	1	No	56	1	No	56	1	No	56	1	No	56	1	No
501	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No
502	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No

Feasibility Factors:						
# of First-Row ≥5 dBA Reduction:	0	7	8	8	8	8
% of First-Row ≥5 dBA Reduction:	0%	88%	100%	100%	100%	100%
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):	No	Yes	Yes	Yes	Yes	Yes
Reasonableness Factors:						
# of First-Row ≥7 dBA Reduction:	0	0	5	7	7	8
% of First-Row ≥7 dBA Reduction:	0%	0%	63%	88%	88%	100%
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):	No	No	Yes	Yes	Yes	Yes
# of Benefited (≥5 dBA Reduction):	0	7	8	9	9	9
Cost of Noise Wall (Length x Height x \$20/sq ft):	\$53,620	\$68,940	\$84,260	\$99,580	\$114,900	\$130,220
Cost of any other items critical to safety:	0	0	0	0	0	0
Anticipated Cost of Noise Abatement:	\$53,620	\$68,940	\$84,260	\$99,580	\$114,900	\$130,220
Allowable Cost (\$30,000 per benefited receptor):	\$0	\$210,000	\$240,000	\$270,000	\$270,000	\$270,000
Cost Effective (Anticipated Cost < Allowable Cost):	No	Yes	Yes	Yes	Yes	Yes
Feasible and Reasonable:	No	No	Yes	Yes	Yes	Yes

Alternative A & B
Noise Barrier AA

Wall Height:	7	ft	9	ft	11	ft	13	ft	15	ft	17	ft
Wall Length:	1817	ft	1817	ft	1817	ft	1817	ft	1817	ft	1817	ft
Wall Cost per sq ft:	\$20											
Cost of items critical to safety:												
# of First Row Receivers:	1											

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
1341	1	Yes	1	59	60	-1	No	60	-1	No	60	-1	No	60	-1	No	60	-1	No	60	-1	No

Feasibility Factors:												
# of First-Row ≥5 dBA Reduction:				0	0	0	0	0	0			
% of First-Row ≥5 dBA Reduction:				0%	0%	0%	0%	0%	0%			
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):				No	No	No	No	No	No			

Reasonableness Factors:												
# of First-Row ≥7 dBA Reduction:				0	0	0	0	0	0			
% of First-Row ≥7 dBA Reduction:				0%	0%	0%	0%	0%	0%			
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):				No	No	No	No	No	No			

# of Benefited (≥5 dBA Reduction):							0	0							0						
Cost of Noise Wall (Length x Height x \$20/sq ft):							\$254,380	\$327,060							\$472,420						
Cost of any other items critical to safety:							0	0							0						
Anticipated Cost of Noise Abatement:							\$254,380	\$327,060							\$472,420						
Allowable Cost (\$30,000 per benefited receptor):							\$0	\$0							\$0						
Cost Effective (Anticipated Cost < Allowable Cost):							No	No							No						
Feasible and Reasonable:							No	No							No						

Alternative A & B
Noise Barrier BB

Wall Height:		7 ft		9 ft		11 ft		13 ft		15 ft		17 ft											
Wall Length:		1427 ft		1427 ft		1427 ft		1427 ft		1427 ft		1427 ft											
Wall Cost per sq ft:		\$20																					
Cost of items critical to safety:																							
# of First Row Receivers:		1																					
Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction	
1344	1	Yes	1	61	61	0	No	61	0	No	61	0	No	60	1	No	60	1	No	59	2	No	
Feasibility Factors:																							
# of First-Row ≥5 dBA Reduction:							0	0							0							0	
% of First-Row ≥5 dBA Reduction:							0%	0%							0%							0%	
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):							No	No							No							No	
Reasonableness Factors:																							
# of First-Row ≥7 dBA Reduction:							0	0							0							0	
% of First-Row ≥7 dBA Reduction:							0%	0%							0%							0%	
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):							No	No							No							No	
# of Benefited (≥5 dBA Reduction):							0	0							0							0	
Cost of Noise Wall (Length x Height x \$20/sq ft):							\$199,780	\$256,860							\$313,940							\$428,100	\$485,180
Cost of any other items critical to safety:							0	0							0							0	
Anticipated Cost of Noise Abatement:							\$199,780	\$256,860							\$313,940							\$428,100	\$485,180
Allowable Cost (\$30,000 per benefited receptor):							\$0	\$0							\$0							\$0	
Cost Effective (Anticipated Cost < Allowable Cost):							No	No							No							No	
Feasible and Reasonable:							No	No							No							No	

Alternative A & B
Noise Barrier CC

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	1650 ft	1650 ft	1650 ft	1650 ft	1650 ft	1650 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	9					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
1345	1	Yes	1	58	56	2	No	55	3	No	55	3	No	54	4	No	53	5	No	53	5	No
1346	1	Yes	1	57	54	3	No	53	4	No	53	4	No	52	5	No	52	5	No	51	6	No
1347	1	Yes	1	56	54	2	No	53	3	No	52	4	No	51	5	No	51	5	No	50	6	No
1348	1	Yes	1	55	53	2	No	52	3	No	52	3	No	51	4	No	50	5	No	50	5	No
1354	1	Yes	1	59	58	1	No	58	1	No	57	2	No	56	3	No	56	3	No	55	4	No
1355	1	Yes	1	58	58	0	No	57	1	No	57	1	No	56	2	No	56	2	No	55	3	No
1356	1	Yes	1	58	57	1	No	57	1	No	57	1	No	56	2	No	56	2	No	55	3	No
1357	1	Yes	1	58	57	1	No	57	1	No	57	1	No	56	2	No	56	2	No	55	3	No
1353	1		0	54	53	1	No	53	1	No	53	1	No	52	2	No	52	2	No	51	3	No
1352	1		0	51	51	0	No	51	0	No	51	0	No	50	1	No	50	1	No	49	2	No
1358	1		0	52	52	0	No	52	0	No	52	0	No	51	1	No	51	1	No	51	1	No
1351	1		0	50	50	0	No	50	0	No	50	0	No	49	1	No	49	1	No	48	2	No
1359	1		0	50	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No
1360	1		0	50	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No	49	1	No
1349	1	Yes	1	55	53	2	No	52	3	No	52	3	No	51	4	No	50	5	No	50	5	No
1350	1		0	50	50	0	No	50	0	No	50	0	No	49	1	No	49	1	No	48	2	No
1361	1		0	49	50	-1	No	50	-1	No	50	-1	No	50	-1	No	49	0	No	49	0	No

Feasibility Factors:						
# of First-Row ≥5 dBA Reduction:	0	0	0	2	5	5
% of First-Row ≥5 dBA Reduction:	0%	0%	0%	22%	56%	56%
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):	No	No	No	No	Yes	Yes
Reasonableness Factors:						
# of First-Row ≥7 dBA Reduction:	0	0	0	0	0	0
% of First-Row ≥7 dBA Reduction:	0%	0%	0%	0%	0%	0%
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):	No	No	No	No	No	No
# of Benefited (≥5 dBA Reduction):	0	0	0	2	5	5
Cost of Noise Wall (Length x Height x \$20/sq ft):	\$231,000	\$297,000	\$363,000	\$429,000	\$495,000	\$561,000
Cost of any other items critical to safety:	0	0	0	0	0	0
Anticipated Cost of Noise Abatement:	\$231,000	\$297,000	\$363,000	\$429,000	\$495,000	\$561,000
Allowable Cost (\$30,000 per benefited receptor):	\$0	\$0	\$0	\$60,000	\$150,000	\$150,000
Cost Effective (Anticipated Cost < Allowable Cost):	No	No	No	No	No	No
Feasible and Reasonable:	No	No	No	No	No	No

Alternative A & B
Noise Barrier DD

Wall Height:	7	ft	9	ft	11	ft	13	ft	15	ft	17	ft
Wall Length:	698	ft	698	ft	698	ft	698	ft	698	ft	698	ft
Wall Cost per sq ft:	\$20											
Cost of items critical to safety:												
# of First Row Receivers:	1											

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
1362	1	Yes	1	61	61	0	No	61	0	No	61	0	No	62	-1	No	61	0	No	61	0	No

Feasibility Factors:												
# of First-Row ≥5 dBA Reduction:				0	0	0	0	0	0			
% of First-Row ≥5 dBA Reduction:				0%	0%	0%	0%	0%	0%			
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):				No	No	No	No	No	No			

Reasonableness Factors:																						
# of First-Row ≥7 dBA Reduction:							0				0				0				0			
% of First-Row ≥7 dBA Reduction:							0%				0%				0%				0%			
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):							No				No				No				No			

# of Benefited (≥5 dBA Reduction):							0				0				0				0			
Cost of Noise Wall (Length x Height x \$20/sq ft):							\$97,720				\$125,640				\$181,480				\$209,400			
Cost of any other items critical to safety:							0				0				0				0			
Anticipated Cost of Noise Abatement:							\$97,720				\$125,640				\$181,480				\$209,400			
Allowable Cost (\$30,000 per benefited receptor):							\$0				\$0				\$0				\$0			
Cost Effective (Anticipated Cost < Allowable Cost):							No				No				No				No			
Feasible and Reasonable:							No				No				No				No			

Alternative A & B
Noise Barrier EE

Wall Height:	7	ft	9	ft	11	ft	13	ft	15	ft	17	ft
Wall Length:	978	ft	978	ft	978	ft	978	ft	978	ft	978	ft
Wall Cost per sq ft:	\$20											
Cost of items critical to safety:												
# of First Row Receivers:	1											

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
1363	1	Yes	1	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No

Feasibility Factors:												
# of First-Row ≥5 dBA Reduction:							0	0	0	0	0	0
% of First-Row ≥5 dBA Reduction:							0%	0%	0%	0%	0%	0%
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):							No	No	No	No	No	No

Reasonableness Factors:												
# of First-Row ≥7 dBA Reduction:							0	0	0	0	0	0
% of First-Row ≥7 dBA Reduction:							0%	0%	0%	0%	0%	0%
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):							No	No	No	No	No	No

# of Benefited (≥5 dBA Reduction):							0	0						
Cost of Noise Wall (Length x Height x \$20/sq ft):							\$136,920	\$176,040						
Cost of any other items critical to safety:							0	0						
Anticipated Cost of Noise Abatement:							\$136,920	\$176,040						
Allowable Cost (\$30,000 per benefited receptor):							\$0	\$0						
Cost Effective (Anticipated Cost < Allowable Cost):							No	No						
Feasible and Reasonable:							No	No						

Alternative A & B
Noise Barrier FF

Wall Height:	7	ft	9	ft	11	ft	13	ft	15	ft	17	ft
Wall Length:	829	ft	829	ft	829	ft	829	ft	829	ft	829	ft
Wall Cost per sq ft:	\$20											
Cost of items critical to safety:												
# of First Row Receivers:	1											

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
1364	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	61	1	No	61	1	No
1365	1	Yes	1	64	64	0	No	64	0	No	61	3	No	59	5	No	58	6	No	58	6	No

Feasibility Factors:												
# of First-Row ≥5 dBA Reduction:				0	0	0	1	1	1			
% of First-Row ≥5 dBA Reduction:				0%	0%	0%	100%	100%	100%			
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):				No	No	No	Yes	Yes	Yes			

Reasonableness Factors:																							
# of First-Row ≥7 dBA Reduction:							0				0				0				0				0
% of First-Row ≥7 dBA Reduction:							0%				0%				0%				0%				0%
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):							No				No				No				No				No

# of Benefited (≥5 dBA Reduction):							0				0				1				1				1
Cost of Noise Wall (Length x Height x \$20/sq ft):							\$116,060				\$149,220				\$182,380				\$215,540				\$248,700
Cost of any other items critical to safety:							0				0				0				0				0
Anticipated Cost of Noise Abatement:							\$116,060				\$149,220				\$182,380				\$215,540				\$248,700
Allowable Cost (\$30,000 per benefited receptor):							\$0				\$0				\$0				\$30,000				\$30,000
Cost Effective (Anticipated Cost < Allowable Cost):							No				No				No				No				No
Feasible and Reasonable:							No				No				No				No				No

Alternative A & B
Noise Barrier GG

Alt A&B Barrier GG

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	610 ft	610 ft	610 ft	610 ft	610 ft	610 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	2					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
1366	1	Yes	1	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	62	1	No
1367	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No
1368	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No
1369	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No
1370	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	61	-1	No
1371	1	Yes	1	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No
1372	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No
1373	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No
1374	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No

Feasibility Factors:						
# of First-Row ≥5 dBA Reduction:	0	0	0	0	0	0
% of First-Row ≥5 dBA Reduction:	0%	0%	0%	0%	0%	0%
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):	No	No	No	No	No	No
Reasonableness Factors:						
# of First-Row ≥7 dBA Reduction:	0	0	0	0	0	0
% of First-Row ≥7 dBA Reduction:	0%	0%	0%	0%	0%	0%
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):	No	No	No	No	No	No
# of Benefited (≥5 dBA Reduction):	0	0	0	0	0	0
Cost of Noise Wall (Length x Height x \$20/sq ft):	\$85,400	\$109,800	\$134,200	\$158,600	\$183,000	\$207,400
Cost of any other items critical to safety:	0	0	0	0	0	0
Anticipated Cost of Noise Abatement:	\$85,400	\$109,800	\$134,200	\$158,600	\$183,000	\$207,400
Allowable Cost (\$30,000 per benefited receptor):	\$0	\$0	\$0	\$0	\$0	\$0
Cost Effective (Anticipated Cost < Allowable Cost):	No	No	No	No	No	No
Feasible and Reasonable:	No	No	No	No	No	No

Alternative A & B
Noise Barrier HH

Alt A&B Barrier HH

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	2113 ft	2113 ft	1499 ft	1499 ft	1499 ft	1499 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	15					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
1378	1	Yes	1	60	58	2	No	57	3	No	57	3	No	56	4	No	54	6	No	56	4	No
1379	1	Yes	1	60	58	2	No	56	4	No	55	5	No	55	5	No	53	7	Yes	54	6	No
1380	1	Yes	1	59	56	3	No	56	3	No	54	5	No	53	6	No	52	7	Yes	52	7	Yes
1381	1	Yes	1	60	57	3	No	56	4	No	54	6	No	53	7	Yes	52	8	Yes	52	8	Yes
1382	1	Yes	1	60	57	3	No	56	4	No	55	5	No	53	7	Yes	53	7	Yes	52	8	Yes
1383	1	Yes	1	59	56	3	No	55	4	No	54	5	No	53	6	No	52	7	Yes	51	8	Yes
1384	1	Yes	1	59	57	2	No	56	3	No	54	5	No	53	6	No	52	7	Yes	51	8	Yes
1385	1	Yes	1	58	56	2	No	55	3	No	54	4	No	53	5	No	52	6	No	51	7	Yes
1386	1	Yes	1	58	55	3	No	55	3	No	53	5	No	52	6	No	52	6	No	51	7	Yes
1387	1	Yes	1	58	55	3	No	54	4	No	53	5	No	52	6	No	51	7	Yes	51	7	Yes
1388	1	Yes	1	60	56	4	No	55	5	No	54	6	No	53	7	Yes	52	8	Yes	51	9	Yes
1389	1	Yes	1	62	57	5	No	55	7	Yes	54	8	Yes	53	9	Yes	52	10	Yes	52	10	Yes
1390	1	Yes	1	64	58	6	No	56	8	Yes	55	9	Yes	54	10	Yes	53	11	Yes	53	11	Yes
1391	1	Yes	1	64	60	4	No	58	6	No	56	8	Yes	56	8	Yes	55	9	Yes	54	10	Yes
1392	1	Yes	1	63	60	3	No	59	4	No	58	5	No	58	5	No	57	6	No	57	6	No
1393	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No
1394	1		0	50	50	0	No	49	1	No	49	1	No	49	1	No	48	2	No	48	2	No
1395	1		0	51	50	1	No	50	1	No	49	2	No	49	2	No	48	3	No	48	3	No
1396	1		0	50	50	0	No	49	1	No	49	1	No	49	1	No	48	2	No	48	2	No
1397	1		0	49	49	0	No	49	0	No	48	1	No	48	1	No	47	2	No	47	2	No
1398	1		0	50	49	1	No	49	1	No	49	1	No	48	2	No	47	3	No	47	3	No
1399	1		0	50	49	1	No	49	1	No	48	2	No	48	2	No	47	3	No	47	3	No
1400	1		0	49	49	0	No	48	1	No	48	1	No	47	2	No	47	2	No	47	2	No
1401	1		0	50	49	1	No	49	1	No	48	2	No	48	2	No	48	2	No	47	3	No
1402	1		0	49	49	0	No	48	1	No	48	1	No	47	2	No	47	2	No	46	3	No
1403	1		0	51	51	0	No	50	1	No	50	1	No	50	1	No	49	2	No	49	2	No
1404	1		0	49	49	0	No	49	0	No	48	1	No	48	1	No	47	2	No	47	2	No
1405	1		0	48	48	0	No	47	1	No	47	1	No	46	2	No	46	2	No	46	2	No
1406	1		0	54	54	0	No	54	0	No	53	1	No	53	1	No	53	1	No	53	1	No

Feasibility Factors:						
# of First-Row ≥5 dBA Reduction:	2	4	13	14	15	14
% of First-Row ≥5 dBA Reduction:	13%	27%	87%	93%	100%	93%
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):	No	No	Yes	Yes	Yes	Yes
Reasonableness Factors:						
# of First-Row ≥7 dBA Reduction:	0	2	3	6	11	12
% of First-Row ≥7 dBA Reduction:	0%	13%	20%	40%	73%	80%
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):	No	No	No	Yes	Yes	Yes
# of Benefited (≥5 dBA Reduction):	2	4	13	14	15	14
Cost of Noise Wall (Length x Height x \$20/sq ft):	\$295,820	\$380,340	\$329,780	\$389,740	\$449,700	\$509,660
Cost of any other items critical to safety:	0	0	0	0	0	0
Anticipated Cost of Noise Abatement:	\$295,820	\$380,340	\$329,780	\$389,740	\$449,700	\$509,660
Allowable Cost (\$30,000 per benefited receptor):	\$60,000	\$120,000	\$390,000	\$420,000	\$450,000	\$420,000
Cost Effective (Anticipated Cost < Allowable Cost):	No	No	Yes	Yes	Yes	No
Feasible and Reasonable:	No	No	No	Yes	Yes	No

Alternative A & B
Noise Barrier II

Alt A&B Barrier II

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	853 ft	853 ft	853 ft	853 ft	853 ft	853 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	14					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
1407	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No
1412	1		0	51	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No
1413	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No
1408	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No
1409	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No
1410	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No
1411	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	63	1	No	63	1	No
1420	1	Yes	1	62	59	3	No	57	5	No	56	6	No	55	7	Yes	54	8	Yes	54	8	Yes
1414	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No
1415	1		0	51	51	0	No	51	0	No	50	1	No	50	1	No	50	1	No	50	1	No
1416	1		0	50	50	0	No	50	0	No	50	0	No	50	0	No	49	1	No	49	1	No
1417	1		0	51	51	0	No	50	1	No	50	1	No	49	2	No	49	2	No	48	3	No
1418	1		0	53	52	1	No	52	1	No	51	2	No	50	3	No	50	3	No	49	4	No
1419	1		0	57	56	1	No	55	2	No	53	4	No	53	4	No	52	5	No	51	6	No
1421	1	Yes	1	66	58	8	Yes	56	10	Yes	54	12	Yes	53	13	Yes	52	14	Yes	51	15	Yes
1422	1	Yes	1	66	58	8	Yes	56	10	Yes	54	12	Yes	53	13	Yes	52	14	Yes	51	15	Yes
1423	1	Yes	1	66	58	8	Yes	56	10	Yes	54	12	Yes	52	14	Yes	51	15	Yes	51	15	Yes
1424	1	Yes	1	64	59	5	No	57	7	Yes	55	9	Yes	53	11	Yes	53	11	Yes	51	13	Yes
1425	1	Yes	1	65	59	6	No	56	9	Yes	54	11	Yes	53	12	Yes	51	14	Yes	51	14	Yes
1426	1	Yes	1	65	59	6	No	56	9	Yes	54	11	Yes	53	12	Yes	51	14	Yes	51	14	Yes
1427	1	Yes	1	65	58	7	Yes	55	10	Yes	54	11	Yes	52	13	Yes	51	14	Yes	50	15	Yes
1428	1	Yes	1	64	59	5	No	56	8	Yes	54	10	Yes	53	11	Yes	52	12	Yes	51	13	Yes
1429	1	Yes	1	64	59	5	No	56	8	Yes	54	10	Yes	53	11	Yes	52	12	Yes	51	13	Yes
1430	1	Yes	1	65	60	5	No	56	9	Yes	54	11	Yes	53	12	Yes	52	13	Yes	51	14	Yes
1431	1	Yes	1	64	60	4	No	57	7	Yes	55	9	Yes	54	10	Yes	52	12	Yes	52	12	Yes
1432	1	Yes	1	64	60	4	No	59	5	No	56	8	Yes	54	10	Yes	53	11	Yes	53	11	Yes
1433	1	Yes	1	64	61	3	No	60	4	No	59	5	No	58	6	No	58	6	No	58	6	No
1434	1		0	53	52	1	No	52	1	No	51	2	No	51	2	No	50	3	No	50	3	No
1435	1		0	52	51	1	No	51	1	No	51	1	No	51	1	No	50	2	No	50	2	No
1436	1		0	52	51	1	No	51	1	No	51	1	No	51	1	No	50	2	No	50	2	No
1437	1		0	51	51	0	No	51	0	No	51	0	No	51	0	No	50	1	No	50	1	No
1438	1		0	52	51	1	No	51	1	No	51	1	No	51	1	No	51	1	No	51	1	No
1439	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	51	1	No	51	1	No
1440	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	52	1	No
1441	1		0	54	54	0	No	54	0	No	54	0	No	54	0	No	54	0	No	54	0	No
1442	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No
1443	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No
1444	1		0	49	49	0	No	48	1	No	48	1	No	47	2	No	47	2	No	47	2	No
1445	1		0	49	47	2	No	47	2	No	47	2	No	46	3	No	46	3	No	46	3	No
1446	1		0	46	46	0	No	46	0	No	46	0	No	46	0	No	45	1	No	45	1	No
1447	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	44	1	No
1448	1		0	44	44	0	No	44	0	No	44	0	No	44	0	No	44	0	No	44	0	No
1449	1		0	46	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No
1450	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No
1451	1		0	46	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No

Alternative A & B
Noise Barrier II

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	853 ft	853 ft	853 ft	853 ft	853 ft	853 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	14					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
1453	1		0	43	43	0	No	43	0	No	43	0	No	43	0	No	43	0	No	43	0	No
1455	1		0	46	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No
1462	1		0	46	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No
1452	1		0	46	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No
1454	1		0	44	44	0	No	44	0	No	44	0	No	44	0	No	44	0	No	44	0	No
1456	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No
1463	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No
1461	1		0	46	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No
1460	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No
1457	1		0	46	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No
1458	1		0	46	46	0	No	46	0	No	46	0	No	45	1	No	45	1	No	45	1	No
1459	1		0	46	46	0	No	46	0	No	46	0	No	46	0	No	45	1	No	45	1	No

Feasibility Factors:						
# of First-Row ≥5 dBA Reduction:	10	13	14	14	14	14
% of First-Row ≥5 dBA Reduction:	71%	93%	100%	100%	100%	100%
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):	Yes	Yes	Yes	Yes	Yes	Yes
Reasonableness Factors:						
# of First-Row ≥7 dBA Reduction:	4	11	12	13	13	13
% of First-Row ≥7 dBA Reduction:	29%	79%	86%	93%	93%	93%
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):	No	Yes	Yes	Yes	Yes	Yes
# of Benefited (≥5 dBA Reduction):	10	13	14	14	15	15
Cost of Noise Wall (Length x Height x \$20/sq ft):	\$119,420	\$153,540	\$187,660	\$221,780	\$255,900	\$290,020
Cost of any other items critical to safety:	0	0	0	0	0	0
Anticipated Cost of Noise Abatement:	\$119,420	\$153,540	\$187,660	\$221,780	\$255,900	\$290,020
Allowable Cost (\$30,000 per benefited receptor):	\$300,000	\$390,000	\$420,000	\$420,000	\$450,000	\$450,000
Cost Effective (Anticipated Cost < Allowable Cost):	Yes	Yes	Yes	Yes	Yes	Yes
Feasible and Reasonable:	No	Yes	Yes	Yes	Yes	Yes

Alt A Barrier G

Alternative A
Noise Barrier G

Wall Height:				7 ft				9 ft				11 ft				13 ft				15 ft				17 ft			
Wall Length:				1166 ft				1166 ft				1166 ft				1166 ft				1166 ft				1166 ft			
Wall Cost per sq ft:				\$20																							
Cost of items critical to safety:																											
# of First Row Receivers:				18																							
Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction					
558-1	1	Yes	1	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	62	1	No					
559-2	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No					
561-1	1	Yes	1	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	62	1	No					
562-2	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No					
564-1	1	Yes	1	63	63	0	No	63	0	No	63	0	No	62	1	No	62	1	No	62	1	No					
565-2	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	64	1	No	64	1	No					
567-1	1	Yes	1	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No					
568-2	1		0	65	65	0	No	64	1	No	64	1	No	64	1	No	64	1	No	64	1	No					
684-1	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	59	1	No					
685-2	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	62	1	No					
666-1	1	Yes	1	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	62	2	No					
667-2	1		0	67	67	0	No	66	1	No	66	1	No	66	1	No	66	1	No	66	1	No					
669-1	1	Yes	1	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	62	2	No					
670-2	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No					
672-1	1	Yes	1	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	61	3	No					
673-2	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No					
699-1	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No					
700-2	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No					
525-1	1	Yes	1	64	64	0	No	63	1	No	63	1	No	63	1	No	63	1	No	62	2	No					
526-2	1		0	66	66	0	No	66	0	No	66	0	No	65	1	No	65	1	No	65	1	No					
528-1	1	Yes	1	64	64	0	No	64	0	No	63	1	No	63	1	No	63	1	No	62	2	No					
529-2	1		0	66	66	0	No	66	0	No	66	0	No	65	1	No	65	1	No	65	1	No					
531-1	1	Yes	1	64	64	0	No	63	1	No	63	1	No	63	1	No	63	1	No	62	2	No					
532-2	1		0	66	66	0	No	66	0	No	66	0	No	65	1	No	65	1	No	65	1	No					
534-1	1	Yes	1	64	64	0	No	63	1	No	63	1	No	63	1	No	63	1	No	62	2	No					
535-2	1		0	66	66	0	No	66	0	No	66	0	No	65	1	No	65	1	No	65	1	No					
537-1	1	Yes	1	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	62	1	No					
538-2	1		0	66	66	0	No	66	0	No	65	1	No	65	1	No	65	1	No	65	1	No					
540-1	1	Yes	1	64	63	1	No	63	1	No	63	1	No	63	1	No	63	1	No	63	1	No					
541-2	1		0	66	66	0	No	66	0	No	66	0	No	65	1	No	65	1	No	65	1	No					
576-1	1		0	59	59	0	No	58	1	No	58	1	No	58	1	No	58	1	No	58	1	No					
577-2	1		0	61	61	0	No	61	0	No	61	0	No	60	1	No	60	1	No	60	1	No					
579-1	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No					
580-2	1		0	56	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No					
570-1	1	Yes	1	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No					
571-2	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No					
573-1	1	Yes	1	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No					
574-2	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No					
588-1	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No					
589-2	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No					
687-1	1		0	54	54	0	No	53	1	No	53	1	No	53	1	No	53	1	No	53	1	No					
688-2	1		0	57	57	0	No	57	0	No	56	1	No	56	1	No	56	1	No	55	2	No					
690-1	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	52	1	No	52	1	No					
691-2	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	54	1	No	54	1	No					
675-1	1	Yes	1	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	61	3	No					

Alt A Barrier G

Alternative A
Noise Barrier G

Wall Height:				7 ft				9 ft				11 ft				13 ft				15 ft				17 ft			
Wall Length:				1166 ft				1166 ft				1166 ft				1166 ft				1166 ft							
Wall Cost per sq ft:				\$20																							
Cost of items critical to safety:																											
# of First Row Receivers:				18																							
Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction					
676-2	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No					
702-1	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No					
703-2	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No					
546-1	1		0	51	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No					
547-2	1		0	53	52	1	No	52	1	No	52	1	No	52	1	No	52	1	No	52	1	No					
543-1	1		0	58	58	0	No	58	0	No	57	1	No	57	1	No	57	1	No	57	1	No					
544-2	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No					
549-1	1		0	51	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No	50	1	No					
550-2	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No					
552-1	1		0	50	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No					
553-2	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No	51	1	No					
555-1	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No					
556-2	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No					
604-1	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No					
605-2	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No					
582-1	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No					
583-2	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No					
585-1	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No					
586-2	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No					
678-1	1	Yes	1	64	64	0	No	64	0	No	64	0	No	64	0	No	63	1	No	61	3	No					
679-2	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No					
705-1	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No					
706-2	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No					
681-1	1	Yes	1	64	64	0	No	64	0	No	64	0	No	64	0	No	63	1	No	61	3	No					
682-2	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No					
708-1	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No					
709-2	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No					
613-1	1		0	46	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No					
614-2	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No					
610-1	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No					
611-2	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No					
595-1	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No					
596-2	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No					
598-1	1		0	56	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No					
599-2	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No					
601-1	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No					
602-2	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No					
607-1	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No	56	1	No					
608-2	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No					
628-1	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No					
629-2	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No					
714-1	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No					

Alt A Barrier G

Alternative A
Noise Barrier G

Wall Height:		7 ft		9 ft		11 ft		13 ft		15 ft		17 ft											
Wall Length:		1166 ft		1166 ft		1166 ft		1166 ft		1166 ft		1166 ft											
Wall Cost per sq ft:		\$20																					
Cost of items critical to safety:																							
# of First Row Receivers:		18																					
Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction	
715-2	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	
717-1	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	
Feasibility Factors:																							
# of First-Row ≥5 dBA Reduction:							0	0							0								
% of First-Row ≥5 dBA Reduction:							0%	0%							0%								
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):							No	No							No								
Reasonableness Factors:																							
# of First-Row ≥7 dBA Reduction:							0	0							0								
% of First-Row ≥7 dBA Reduction:							0%	0%							0%								
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):							No	No							No								
# of Benefited (≥5 dBA Reduction):							0	0							0								
Cost of Noise Wall (Length x Height x \$20/sq ft):							\$163,240	\$209,880							\$303,160								
Cost of any other items critical to safety:							0	0							0								
Anticipated Cost of Noise Abatement:							\$163,240	\$209,880							\$303,160								
Allowable Cost (\$30,000 per benefited receptor):							\$0	\$0							\$0								
Cost Effective (Anticipated Cost < Allowable Cost):							No	No							No								
Feasible and Reasonable:							No	No							No								

Alt A Barrier H

Alternative A
Noise Barrier H

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	2262 ft	2262 ft	2262 ft	2262 ft	2262 ft	2262 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	5					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
802	1	Yes	1	63	63	0	No	63	0	No	62	1	No	61	2	No	60	3	No	59	4	No
801	1	Yes	1	64	63	1	No	63	1	No	62	2	No	61	3	No	60	4	No	59	5	No
803	1	Yes	1	67	67	0	No	67	0	No	66	1	No	65	2	No	64	3	No	63	4	No
983	1	Yes	1	67	67	0	No	66	1	No	66	1	No	64	3	No	63	4	No	62	5	No
984	1	Yes	1	67	66	1	No	66	1	No	65	2	No	65	2	No	64	3	No	64	3	No
985	1		0	51	52	-1	No	52	-1	No	52	-1	No	52	-1	No	52	-1	No	52	-1	No
744-3	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No
745-4	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No
746-5	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No
747-3	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No	64	1	No
748-4	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
749-5	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
750-3	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	64	1	No	64	1	No
751-4	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
752-5	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
753-3	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	64	1	No	64	1	No
754-4	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
755-5	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
756-3	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	64	1	No	64	1	No
757-4	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
758-5	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
771-3	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	64	1	No	64	1	No
772-4	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
773-5	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
774-3	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	64	1	No	64	1	No
775-4	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
776-5	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
777-3	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	64	1	No	63	2	No
778-4	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
779-5	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
780-3	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	64	1	No	63	2	No
781-4	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
782-5	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
783-3	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	63	1	No	62	2	No
784-4	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No
785-5	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
741-3	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	60	1	No
742-4	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No
743-5	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No
768-3	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No
769-4	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No
770-5	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No
765-3	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No
766-4	1		0	54	54	0	No	54	0	No	54	0	No	54	0	No	54	0	No	54	0	No
767-5	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No

Alt A Barrier H

Alternative A
Noise Barrier H

Wall Height:				7 ft				9 ft				11 ft				13 ft				15 ft				17 ft			
Wall Length:				2262 ft				2262 ft				2262 ft				2262 ft				2262 ft							
Wall Cost per sq ft:				\$20																							
Cost of items critical to safety:																											
# of First Row Receivers:				5																							
Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction					
762-3	1		0	48	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No					
763-4	1		0	50	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No					
764-5	1		0	51	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No					
759-3	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No					
760-4	1		0	48	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No					
761-5	1		0	50	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No					
798-3	1		0	54	54	0	No	54	0	No	54	0	No	54	0	No	54	0	No	54	0	No					
799-4	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No					
800-5	1		0	56	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No					
795-3	1		0	46	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No					
796-4	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No					
797-5	1		0	49	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No					
792-3	1		0	46	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No					
793-4	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No					
794-5	1		0	49	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No					
789-3	1		0	52	52	0	No	52	0	No	52	0	No	51	1	No	51	1	No	50	2	No					
790-4	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No					
791-5	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No					
786-3	1		0	61	61	0	No	61	0	No	61	0	No	60	1	No	60	1	No	59	2	No					
787-4	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	61	1	No					
788-5	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	62	1	No					
816-3	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	63	1	No					
817-4	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No					
818-5	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No	66	1	No					
813-3	1		0	64	64	0	No	64	0	No	63	1	No	63	1	No	63	1	No	63	1	No					
814-4	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No					
815-5	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No					
819-3	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	63	1	No					
820-4	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No					
821-5	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No					
855-3	1		0	65	65	0	No	65	0	No	64	1	No	64	1	No	64	1	No	64	1	No					
856-4	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No					
857-5	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No					
852-3	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	62	1	No					
853-4	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No					
854-5	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No					
858-3	1		0	63	63	0	No	63	0	No	63	0	No	62	1	No	62	1	No	62	1	No					
859-4	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No					
860-5	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No					
810-3	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	61	1	No					
811-4	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No					
812-5	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No					
822-3	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	60	1	No	60	1	No					
823-4	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	62	1	No					
824-5	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	63	1	No					

Alt A Barrier H

Alternative A
Noise Barrier H

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	2262 ft	2262 ft	2262 ft	2262 ft	2262 ft	2262 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	5					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
849-3	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	60	1	No
850-4	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No
851-5	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No
861-3	1		0	61	61	0	No	60	1	No	60	1	No	60	1	No	59	2	No	59	2	No
862-4	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	61	1	No	61	1	No
863-5	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No
807-3	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No
808-4	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No
809-5	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No
825-3	1		0	59	59	0	No	59	0	No	58	1	No	58	1	No	58	1	No	56	3	No
826-4	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	60	1	No	60	1	No
827-5	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	61	1	No
846-3	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	59	1	No
847-4	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	61	1	No
848-5	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No
864-3	1		0	60	60	0	No	60	0	No	59	1	No	59	1	No	59	1	No	58	2	No
865-4	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	60	1	No	60	1	No
866-5	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	61	1	No
828-3	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	58	1	No	57	2	No
829-4	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	60	1	No
830-5	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No
831-3	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	59	1	No	58	2	No
832-4	1		0	62	62	0	No	62	0	No	62	0	No	61	1	No	61	1	No	61	1	No
833-5	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	62	1	No
834-3	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	59	1	No
835-4	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	61	1	No
836-5	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No
837-3	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	59	1	No
838-4	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	61	1	No
839-5	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No
840-3	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	59	1	No
841-4	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No
842-5	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No
843-3	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	59	1	No	58	2	No
844-4	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No
845-5	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No
804-3	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No	58	1	No
805-4	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No
806-5	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No
900-3	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No
901-4	1		0	56	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No
902-5	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No
897-3	1		0	51	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No
898-4	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No
899-5	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No

Alt A Barrier H

Alternative A
Noise Barrier H

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	2262 ft	2262 ft	2262 ft	2262 ft	2262 ft	2262 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	5					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
894-3	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No
895-4	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No
896-5	1		0	48	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No
891-3	1		0	43	43	0	No	43	0	No	43	0	No	43	0	No	43	0	No	43	0	No
892-4	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No
893-5	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No
888-3	1		0	43	43	0	No	43	0	No	43	0	No	43	0	No	43	0	No	43	0	No
889-4	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No
890-5	1		0	46	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No
885-3	1		0	43	43	0	No	43	0	No	43	0	No	43	0	No	43	0	No	43	0	No
886-4	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No
887-5	1		0	46	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No
882-3	1		0	43	43	0	No	43	0	No	43	0	No	43	0	No	43	0	No	43	0	No
883-4	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No
884-5	1		0	46	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No
879-3	1		0	43	43	0	No	43	0	No	43	0	No	43	0	No	43	0	No	43	0	No
880-4	1		0	44	44	0	No	44	0	No	44	0	No	44	0	No	44	0	No	44	0	No
881-5	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No
876-3	1		0	43	43	0	No	43	0	No	43	0	No	43	0	No	43	0	No	43	0	No
877-4	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No
878-5	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No
873-3	1		0	43	43	0	No	43	0	No	43	0	No	43	0	No	43	0	No	43	0	No
874-4	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No
875-5	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No
870-3	1		0	43	43	0	No	43	0	No	43	0	No	43	0	No	43	0	No	43	0	No
871-4	1		0	46	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No
872-5	1		0	48	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No	47	1	No
867-3	1		0	59	59	0	No	59	0	No	59	0	No	58	1	No	58	1	No	57	2	No
868-4	1		0	60	60	0	No	60	0	No	60	0	No	59	1	No	59	1	No	58	2	No
869-5	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	60	1	No	60	1	No
903-2	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	63	1	No
904-3	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	65	1	No	65	1	No
905-4	1		0	67	67	0	No	67	0	No	66	1	No	66	1	No	66	1	No	66	1	No
906-5	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No
907-2	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	63	1	No	63	1	No
908-3	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	65	1	No	65	1	No
909-4	1		0	67	67	0	No	67	0	No	66	1	No	66	1	No	66	1	No	66	1	No
910-5	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No
919-2	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No
920-3	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
921-4	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No
922-5	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No
923-2	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No
924-3	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
925-4	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No

Alt A Barrier H

Alternative A
Noise Barrier H

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	2262 ft	2262 ft	2262 ft	2262 ft	2262 ft	2262 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	5					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
926-5	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No
935-2	1		0	64	64	0	No	64	0	No	64	0	No	63	1	No	63	1	No	63	1	No
936-3	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
937-4	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No
938-5	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No
939-2	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No
940-3	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
941-4	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No
942-5	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No
951-2	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No
952-3	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
953-4	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No
954-5	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No
955-2	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	62	1	No
956-3	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
957-4	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No
958-5	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No
967-2	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No
968-3	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
969-4	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No
970-5	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No
971-2	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No
972-3	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
973-4	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No
974-5	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No
911-2	1		0	49	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No
912-3	1		0	50	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No
913-4	1		0	51	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No
914-5	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No
915-2	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No
916-3	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No
917-4	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No
918-5	1		0	50	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No
927-2	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No
928-3	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No
929-4	1		0	48	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No
930-5	1		0	50	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No
931-2	1		0	45	44	1	No	44	1	No	44	1	No	44	1	No	44	1	No	44	1	No
932-3	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No
933-4	1		0	48	47	1	No	47	1	No	47	1	No	47	1	No	47	1	No	47	1	No
934-5	1		0	50	49	1	No	49	1	No	49	1	No	49	1	No	49	1	No	49	1	No
943-2	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No
944-3	1		0	44	44	0	No	44	0	No	44	0	No	44	0	No	44	0	No	44	0	No
945-4	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No
946-5	1		0	49	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No

Alt A Barrier H

Alternative A
Noise Barrier H

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	2262 ft	2262 ft	2262 ft	2262 ft	2262 ft	2262 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	5					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
947-2	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No
948-3	1		0	44	44	0	No	44	0	No	44	0	No	44	0	No	44	0	No	44	0	No
949-4	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No
950-5	1		0	49	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No
959-2	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No
960-3	1		0	44	44	0	No	44	0	No	44	0	No	44	0	No	44	0	No	44	0	No
961-4	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No
962-5	1		0	49	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No
963-2	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No
964-3	1		0	44	44	0	No	44	0	No	44	0	No	44	0	No	44	0	No	44	0	No
965-4	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No
966-5	1		0	49	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No
975-2	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No
976-3	1		0	44	44	0	No	44	0	No	44	0	No	44	0	No	44	0	No	44	0	No
977-4	1		0	48	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No
978-5	1		0	49	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No
979-2	1		0	50	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No
980-3	1		0	54	54	0	No	54	0	No	54	0	No	54	0	No	54	0	No	54	0	No
981-4	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No
982-5	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No
986-2	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No
987-3	1		0	56	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No
988-4	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No
989-5	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No
990-2	1		0	56	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No
991-3	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No
992-4	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No
993-5	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No
994-2	1		0	56	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No
995-3	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No
996-4	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No
997-5	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No
998-2	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No
999-3	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No
1000-4	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No
1001-5	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No
1002-2	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No
1003-3	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No
1004-4	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No
1005-5	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No
1006-2	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No
1007-3	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No

Alt A Barrier H

Alternative A
Noise Barrier H

Wall Height:	7	ft	9	ft	11	ft	13	ft	15	ft	17	ft
Wall Length:	2262	ft	2262	ft	2262	ft	2262	ft	2262	ft	2262	ft
Wall Cost per sq ft:	\$20											
Cost of items critical to safety:												
# of First Row Receivers:	5											

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
1008-4	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No
1009-5	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No

Feasibility Factors:												
# of First-Row ≥5 dBA Reduction:			0	0	0	0	0	2				
% of First-Row ≥5 dBA Reduction:			0%	0%	0%	0%	0%	40%				
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):			No	No	No	No	No	No				

Reasonableness Factors:																							
# of First-Row ≥7 dBA Reduction:							0				0				0				0				0
% of First-Row ≥7 dBA Reduction:							0%				0%				0%				0%				0%
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):							No				No				No				No				No

# of Benefited (≥5 dBA Reduction):							0				0				0				0				2
Cost of Noise Wall (Length x Height x \$20/sq ft):							\$316,680				\$407,160				\$588,120				\$678,600				\$769,080
Cost of any other items critical to safety:							0				0				0				0				0
Anticipated Cost of Noise Abatement:							\$316,680				\$407,160				\$588,120				\$678,600				\$769,080
Allowable Cost (\$30,000 per benefited receptor):							\$0				\$0				\$0				\$0				\$60,000
Cost Effective (Anticipated Cost < Allowable Cost):							No				No				No				No				No
Feasible and Reasonable:							No				No				No				No				No

Alt A Barrier I

Alternative A
Noise Barrier I

Wall Height:	7	ft	9	ft	11	ft	13	ft	15	ft	17	ft
Wall Length:	529	ft	529	ft	529	ft	529	ft	529	ft	529	ft
Wall Cost per sq ft:	\$20											
Cost of items critical to safety:												
# of First Row Receivers:	1											

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
1011	1	Yes	1	66	65	1	No	64	2	No	63	3	No	62	4	No	62	4	No	61	5	No

Feasibility Factors:									
# of First-Row ≥5 dBA Reduction:	0	0	0	0	0	1			
% of First-Row ≥5 dBA Reduction:	0%	0%	0%	0%	0%	100%			
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):	No	No	No	No	No	Yes			

Reasonableness Factors:																				
# of First-Row ≥7 dBA Reduction:				0	0				0				0				0			
% of First-Row ≥7 dBA Reduction:				0%	0%				0%				0%				0%			
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):				No	No				No				No				No			

# of Benefited (≥5 dBA Reduction):							0	0							0							1
Cost of Noise Wall (Length x Height x \$20/sq ft):							\$74,060	\$95,220							\$137,540							\$179,860
Cost of any other items critical to safety:							0	0							0							0
Anticipated Cost of Noise Abatement:							\$74,060	\$95,220							\$137,540							\$179,860
Allowable Cost (\$30,000 per benefited receptor):							\$0	\$0							\$0							\$30,000
Cost Effective (Anticipated Cost < Allowable Cost):							No	No							No							No
Feasible and Reasonable:							No	No							No							No

Alternative A
Noise Barrier J

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	2666 ft	2666 ft	2666 ft	2666 ft	2666 ft	2666 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	15					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
1028	1		0	62	62	0	No	62	0	No	61	1	No	61	1	No	61	1	No	61	1	No
1029	1		0	62	62	0	No	61	1	No	61	1	No	61	1	No	61	1	No	60	2	No
1030	1		0	62	62	0	No	61	1	No	61	1	No	61	1	No	61	1	No	60	2	No
1031	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	60	1	No	60	1	No
1034	1		0	61	61	0	No	61	0	No	61	0	No	60	1	No	60	1	No	59	2	No
1035	1		0	61	61	0	No	61	0	No	60	1	No	60	1	No	60	1	No	59	2	No
1036	1		0	61	61	0	No	61	0	No	60	1	No	60	1	No	59	2	No	59	2	No
1037	1		0	61	61	0	No	60	1	No	60	1	No	59	2	No	59	2	No	58	3	No
1038	1		0	61	60	1	No	60	1	No	60	1	No	59	2	No	59	2	No	58	3	No
1039	1		0	61	60	1	No	60	1	No	59	2	No	59	2	No	58	3	No	58	3	No
1042	1		0	61	60	1	No	60	1	No	59	2	No	59	2	No	58	3	No	58	3	No
1059	1		0	54	53	1	No	53	1	No	53	1	No	52	2	No	52	2	No	52	2	No
1043	1		0	61	60	1	No	60	1	No	59	2	No	59	2	No	58	3	No	58	3	No
1044	1		0	61	60	1	No	60	1	No	59	2	No	59	2	No	58	3	No	58	3	No
1046	1		0	60	60	0	No	59	1	No	59	1	No	59	1	No	58	2	No	58	2	No
1047	1		0	60	60	0	No	59	1	No	59	1	No	59	1	No	58	2	No	58	2	No
1049	1		0	60	60	0	No	60	0	No	60	0	No	59	1	No	59	1	No	59	1	No
1050	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	58	1	No	58	1	No
1051	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No
1052	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No
1032	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	60	1	No	60	1	No
1033	1		0	61	61	0	No	61	0	No	61	0	No	60	1	No	60	1	No	60	1	No
1057	1		0	55	55	0	No	54	1	No	54	1	No	54	1	No	53	2	No	53	2	No
1058	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	52	1	No	52	1	No
1040	1		0	61	60	1	No	60	1	No	59	2	No	59	2	No	58	3	No	58	3	No
1041	1		0	61	60	1	No	60	1	No	59	2	No	59	2	No	58	3	No	58	3	No
1045	1		0	61	60	1	No	60	1	No	59	2	No	59	2	No	58	3	No	58	3	No
1048	1		0	60	60	0	No	59	1	No	59	1	No	58	2	No	58	2	No	57	3	No
1053	1		0	56	56	0	No	56	0	No	55	1	No	55	1	No	55	1	No	55	1	No
1054	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No
1055	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	54	1	No	54	1	No
1064	1	Yes	1	61	60	1	No	60	1	No	59	2	No	58	3	No	58	3	No	57	4	No
1056	1		0	54	54	0	No	54	0	No	54	0	No	53	1	No	53	1	No	53	1	No
1060	1	Yes	1	67	64	3	No	63	4	No	61	6	No	60	7	Yes	59	8	Yes	58	9	Yes
1065	1	Yes	1	61	60	1	No	59	2	No	58	3	No	58	3	No	57	4	No	57	4	No
1066	1	Yes	1	60	58	2	No	58	2	No	57	3	No	56	4	No	55	5	No	55	5	No
1068	1	Yes	1	62	60	2	No	60	2	No	60	2	No	59	3	No	59	3	No	58	4	No
1069	1	Yes	1	62	61	1	No	60	2	No	60	2	No	59	3	No	59	3	No	58	4	No
1070	1	Yes	1	62	61	1	No	61	1	No	61	1	No	60	2	No	60	2	No	59	3	No
1071	1	Yes	1	62	62	0	No	61	1	No	61	1	No	60	2	No	60	2	No	59	3	No
1067	1		0	53	52	1	No	52	1	No	51	2	No	51	2	No	50	3	No	50	3	No
1061	1		0	55	54	1	No	54	1	No	53	2	No	53	2	No	53	2	No	53	2	No
1062	1		0	58	55	3	No	55	3	No	54	4	No	54	4	No	54	4	No	53	5	No
1063	1		0	60	58	2	No	58	2	No	57	3	No	57	3	No	56	4	No	56	4	No
1072	1	Yes	1	65	64	1	No	64	1	No	63	2	No	63	2	No	62	3	No	61	4	No

Alternative A
Noise Barrier J

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	2666 ft	2666 ft	2666 ft	2666 ft	2666 ft	2666 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	15					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
1073	1		0	63	62	1	No	62	1	No	62	1	No	61	2	No	60	3	No	59	4	No
1074	1		0	62	61	1	No	60	2	No	60	2	No	59	3	No	58	4	No	57	5	No
1075	1		0	61	60	1	No	60	1	No	59	2	No	59	2	No	58	3	No	57	4	No
1076	1		0	59	59	0	No	58	1	No	58	1	No	58	1	No	57	2	No	56	3	No
1078	1	Yes	1	64	64	0	No	64	0	No	63	1	No	63	1	No	63	1	No	62	2	No
1079	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	60	1	No	60	1	No
1080	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No	58	1	No
1081	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No	56	1	No
1082	1		0	56	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No	55	1	No
1085	1	Yes	1	62	62	0	No	62	0	No	62	0	No	62	0	No	61	1	No	61	1	No
1086	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	58	1	No	58	1	No
1087	1		0	58	58	0	No	58	0	No	58	0	No	57	1	No	57	1	No	57	1	No
1088	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No
1089	1		0	56	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No
1090	1	Yes	1	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
1091	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No
1092	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No
1093	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No
1094	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No
1077	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	54	1	No	54	1	No
1083	1		0	54	54	0	No	54	0	No	54	0	No	54	0	No	54	0	No	54	0	No
1084	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No
1095	1	Yes	1	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
1096	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	65	1	No
1097	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No
1098	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No
1099	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No
1100	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No
1101	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No
1102	1		0	56	56	0	No	56	0	No	56	0	No	56	0	No	55	1	No	55	1	No
1103	1		0	54	54	0	No	54	0	No	54	0	No	55	-1	No	54	0	No	54	0	No
1104	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	52	1	No
1105	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	53	-1	No	52	0	No
1106	1		0	51	51	0	No	51	0	No	51	0	No	52	-1	No	52	-1	No	51	0	No
1107	1		0	51	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No	50	1	No
1108	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No	51	1	No
1109	1		0	48	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No	47	1	No
1110	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No
1111	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No
1112	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No
1113	1		0	56	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No	55	1	No
1114	1		0	54	54	0	No	54	0	No	54	0	No	54	0	No	55	-1	No	54	0	No
1115	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	59	1	No	59	1	No
1116	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No	57	1	No
1117	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No

Alternative A
Noise Barrier J

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	2666 ft	2666 ft	2666 ft	2666 ft	2666 ft	2666 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	15					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
1118	1		0	56	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No
1119	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No	54	1	No
1120	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	54	-1	No	53	0	No
1121	1		0	50	50	0	No	50	0	No	50	0	No	50	0	No	51	-1	No	50	0	No
1122	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No
1123	1		0	49	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No	48	1	No
1124	1		0	50	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No	49	1	No
1125	1		0	51	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No
1126	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No
1127	1		0	51	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No
1128	1		0	38	38	0	No	38	0	No	38	0	No	38	0	No	38	0	No	38	0	No
1129	1		0	48	48	0	No	48	0	No	48	0	No	49	-1	No	48	0	No	46	2	No
1143	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	60	1	No
1144	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No	57	1	No
1145	1		0	54	54	0	No	54	0	No	54	0	No	54	0	No	54	0	No	52	2	No
1146	1		0	50	50	0	No	50	0	No	50	0	No	51	-1	No	51	-1	No	49	1	No
1147	1		0	49	49	0	No	49	0	No	49	0	No	49	0	No	50	-1	No	48	1	No
1148	1		0	49	48	1	No	48	1	No	48	1	No	49	0	No	49	0	No	48	1	No
1149	1		0	48	48	0	No	48	0	No	48	0	No	48	0	No	49	-1	No	48	0	No
1150	1		0	48	48	0	No	48	0	No	48	0	No	48	0	No	49	-1	No	48	0	No
1151	1		0	48	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No	47	1	No
1160	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No
1161	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No	56	1	No
1162	1		0	56	56	0	No	56	0	No	56	0	No	56	0	No	55	1	No	55	1	No
1163	1		0	54	54	0	No	54	0	No	54	0	No	54	0	No	53	1	No	53	1	No
1164	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	51	1	No	50	2	No
1165	1		0	50	50	0	No	50	0	No	51	-1	No	50	0	No	49	1	No	49	1	No
1166	1		0	48	48	0	No	48	0	No	49	-1	No	49	-1	No	48	0	No	47	1	No
1174	1	Yes	1	69	67	2	No	64	5	No	62	7	Yes	60	9	Yes	59	10	Yes	58	11	Yes
1175	1	Yes	1	69	64	5	No	62	7	Yes	61	8	Yes	59	10	Yes	59	10	Yes	58	11	Yes
1176	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No
1177	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No
1178	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No
1179	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No
1180	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No
1181	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No
1182	1		0	61	61	0	No	61	0	No	61	0	No	60	1	No	60	1	No	60	1	No
1183	1		0	61	61	0	No	61	0	No	61	0	No	60	1	No	60	1	No	60	1	No
1184	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	60	1	No	60	1	No
1185	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	60	1	No
1186	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	60	1	No
1187	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	60	1	No
1188	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	60	1	No
1189	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	60	1	No
1190	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No

Alternative A
Noise Barrier J

Alt A Barrier J

Wall Height:	7	ft	9	ft	11	ft	13	ft	15	ft	17	ft
Wall Length:	2666	ft	2666	ft	2666	ft	2666	ft	2666	ft	2666	ft
Wall Cost per sq ft:	\$20											
Cost of items critical to safety:												
# of First Row Receivers:	15											

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
1191	1		0	42	42	0	No	42	0	No	42	0	No	42	0	No	42	0	No	42	0	No
1192	1		0	42	42	0	No	42	0	No	42	0	No	42	0	No	42	0	No	42	0	No
1193	1		0	42	42	0	No	42	0	No	42	0	No	41	1	No	41	1	No	41	1	No
1194	1		0	41	41	0	No	41	0	No	41	0	No	41	0	No	41	0	No	41	0	No
1195	1		0	52	52	0	No	52	0	No	52	0	No	51	1	No	50	2	No	50	2	No
1196	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No
1197	1		0	41	41	0	No	41	0	No	41	0	No	41	0	No	41	0	No	41	0	No
1198	1		0	41	41	0	No	41	0	No	41	0	No	41	0	No	41	0	No	41	0	No
1199	1		0	48	48	0	No	48	0	No	48	0	No	47	1	No	47	1	No	46	2	No
1200	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	44	1	No
1201	1		0	44	44	0	No	44	0	No	44	0	No	44	0	No	44	0	No	44	0	No
1202	1		0	46	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No
1203	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No

Feasibility Factors:						
# of First-Row ≥5 dBA Reduction:	1	2	3	3	4	4
% of First-Row ≥5 dBA Reduction:	7%	13%	20%	20%	27%	27%
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):	No	No	No	No	No	No
Reasonableness Factors:						
# of First-Row ≥7 dBA Reduction:	0	1	2	3	3	3
% of First-Row ≥7 dBA Reduction:	0%	7%	13%	20%	20%	20%
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):	No	No	No	No	No	No
# of Benefited (≥5 dBA Reduction):	1	2	3	3	4	6
Cost of Noise Wall (Length x Height x \$20/sq ft):	\$373,240	\$479,880	\$586,520	\$693,160	\$799,800	\$906,440
Cost of any other items critical to safety:	0	0	0	0	0	0
Anticipated Cost of Noise Abatement:	\$373,240	\$479,880	\$586,520	\$693,160	\$799,800	\$906,440
Allowable Cost (\$30,000 per benefited receptor):	\$30,000	\$60,000	\$90,000	\$90,000	\$120,000	\$180,000
Cost Effective (Anticipated Cost < Allowable Cost):	No	No	No	No	No	No
Feasible and Reasonable:	No	No	No	No	No	No

Alternative A
Noise Barrier K

Wall Height:		7 ft		9 ft		11 ft		13 ft		15 ft		17 ft											
Wall Length:		225 ft		225 ft		175 ft		175 ft		175 ft		175 ft											
Wall Cost per sq ft:		\$20																					
Cost of items critical to safety:																							
# of First Row Receivers:		1																					
Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction	
1240	1	Yes	1	72	69	3	No	66	6	No	65	7	Yes	64	8	Yes	63	9	Yes	63	9	Yes	
Feasibility Factors:																							
# of First-Row ≥5 dBA Reduction:							0	1			1			1			1			1			
% of First-Row ≥5 dBA Reduction:							0%	100%			100%			100%			100%			100%			
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):							No	Yes			Yes			Yes			Yes			Yes			
Reasonableness Factors:																							
# of First-Row ≥7 dBA Reduction:							0	0			1			1			1			1			
% of First-Row ≥7 dBA Reduction:							0%	0%			100%			100%			100%			100%			
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):							No	No			Yes			Yes			Yes			Yes			
# of Benefited (≥5 dBA Reduction):							0	1			1			1			1			1			
Cost of Noise Wall (Length x Height x \$20/sq ft):							\$31,500	\$40,500			\$38,500			\$45,500			\$52,500			\$59,500			
Cost of any other items critical to safety:							0	0			0			0			0			0			
Anticipated Cost of Noise Abatement:							\$31,500	\$40,500			\$38,500			\$45,500			\$52,500			\$59,500			
Allowable Cost (\$30,000 per benefited receptor):							\$0	\$30,000			\$30,000			\$30,000			\$30,000			\$30,000			
Cost Effective (Anticipated Cost < Allowable Cost):							No	No			No			No			No			No			
Feasible and Reasonable:							No	No			No			No			No			No			

Alternative A
Noise Barrier L

Alt A Barrier L

Wall Height:		7 ft		9 ft		11 ft		13 ft		15 ft		17 ft											
Wall Length:		1046 ft		1046 ft		1046 ft		399 ft		287 ft		249 ft											
Wall Cost per sq ft:		\$20																					
Cost of items critical to safety:																							
# of First Row Receivers:		1																					
Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction	
1241	1	Yes	1	68	65	3	No	63	5	No	62	6	No	61	7	Yes	61	7	Yes	61	7	Yes	
Feasibility Factors:																							
# of First-Row ≥5 dBA Reduction:							0	1			1			1			1			1			
% of First-Row ≥5 dBA Reduction:							0%	100%			100%			100%			100%			100%			
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):							No	Yes			Yes			Yes			Yes			Yes			
Reasonableness Factors:																							
# of First-Row ≥7 dBA Reduction:							0	0			0			1			1			1			
% of First-Row ≥7 dBA Reduction:							0%	0%			0%			100%			100%			100%			
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):							No	No			No			Yes			Yes			Yes			
# of Benefited (≥5 dBA Reduction):							0	1			1			1			1			1			
Cost of Noise Wall (Length x Height x \$20/sq ft):							\$146,440	\$188,280			\$230,120			\$103,740			\$86,100			\$84,660			
Cost of any other items critical to safety:							0	0			0			0			0			0			
Anticipated Cost of Noise Abatement:							\$146,440	\$188,280			\$230,120			\$103,740			\$86,100			\$84,660			
Allowable Cost (\$30,000 per benefited receptor):							\$0	\$30,000			\$30,000			\$30,000			\$30,000			\$30,000			
Cost Effective (Anticipated Cost < Allowable Cost):							No	No			No			No			No			No			
Feasible and Reasonable:							No	No			No			No			No			No			

Alt A Barrier M

Alternative A
Noise Barrier M

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	950 ft	non park length	950 ft	non park length	950 ft	non park length
Wall Cost per sq ft:	\$20	650 ft	650 ft	650 ft	650 ft	650 ft
Cost of items critical to safety:						
# of First Row Receivers:	3					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
1305	1		0	56	55	1	No	55	1	No	55	1	No	55	1	No	55	1	No	54	2	No
1306-1	1		0	61	61	0	No	60	1	No	60	1	No	60	1	No	60	1	No	60	1	No
1307-2	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No
1308-1	1		0	58	58	0	No	58	0	No	57	1	No	57	1	No	57	1	No	57	1	No
1309-2	1		0	61	61	0	No	60	1	No	60	1	No	60	1	No	59	2	No	59	2	No
1314-1	1		0	61	60	1	No	60	1	No	60	1	No	59	2	No	59	2	No	59	2	No
1315-2	1		0	63	63	0	No	63	0	No	62	1	No	62	1	No	62	1	No	61	2	No
1315-3	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	64	1	No	64	1	No
1317-1	1		0	61	60	1	No	60	1	No	60	1	No	59	2	No	59	2	No	58	3	No
1318-2	1		0	64	64	0	No	63	1	No	63	1	No	62	2	No	61	3	No	61	3	No
1319-3	1		0	66	66	0	No	66	0	No	65	1	No	65	1	No	64	2	No	64	2	No
1320-1	1		0	62	61	1	No	60	2	No	60	2	No	59	3	No	59	3	No	58	4	No
1321-2	1		0	65	65	0	No	64	1	No	63	2	No	62	3	No	62	3	No	61	4	No
1322-3	1		0	67	67	0	No	67	0	No	67	0	No	66	1	No	65	2	No	64	3	No
1323-1	1		0	63	62	1	No	61	2	No	60	3	No	59	4	No	59	4	No	58	5	No
1324-2	1		0	66	66	0	No	65	1	No	64	2	No	63	3	No	62	4	No	61	5	No
1325-3	1		0	68	68	0	No	68	0	No	68	0	No	67	1	No	66	2	No	65	3	No
1261-1	1	Yes	1	67	65	2	No	64	3	No	62	5	No	61	6	No	61	6	No	60	7	Yes
1262-2	1		0	71	71	0	No	71	0	No	69	2	No	67	4	No	65	6	No	63	8	Yes
1263-3	1		0	72	72	0	No	72	0	No	72	0	No	72	0	No	72	0	No	71	1	No
1264-1	1	Yes	1	67	64	3	No	64	3	No	62	5	No	61	6	No	60	7	Yes	60	7	Yes
1265-2	1		0	70	71	-1	No	71	-1	No	69	1	No	66	4	No	65	5	No	63	7	Yes
1266-3	1		0	72	72	0	No	72	0	No	72	0	No	72	0	No	72	0	No	70	2	No
1294-1	1		0	62	60	2	No	59	3	No	58	4	No	57	5	No	56	6	No	55	7	Yes
1295-2	1		0	65	65	0	No	64	1	No	62	3	No	60	5	No	59	6	No	57	8	Yes
1296-3	1		0	67	67	0	No	67	0	No	67	0	No	66	1	No	65	2	No	62	5	No
1273-1	1		0	64	63	1	No	61	3	No	60	4	No	59	5	No	58	6	No	57	7	Yes
1274-2	1		0	67	68	-1	No	67	0	No	65	2	No	63	4	No	62	5	No	60	7	Yes
1275-3	1		0	69	69	0	No	69	0	No	69	0	No	69	0	No	67	2	No	66	3	No
1276-1	1		0	62	61	1	No	60	2	No	59	3	No	58	4	No	57	5	No	56	6	No
1277-2	1		0	66	66	0	No	64	2	No	63	3	No	61	5	No	60	6	No	59	7	Yes
1278-3	1		0	67	67	0	No	67	0	No	67	0	No	66	1	No	65	2	No	62	5	No
1279-1	1		0	61	60	1	No	59	2	No	58	3	No	57	4	No	56	5	No	56	5	No
1280-2	1		0	64	64	0	No	63	1	No	62	2	No	60	4	No	60	4	No	58	6	No
1281-3	1		0	66	66	0	No	66	0	No	65	1	No	64	2	No	62	4	No	61	5	No
1282-1	1		0	60	59	1	No	58	2	No	57	3	No	57	3	No	56	4	No	55	5	No
1283-2	1		0	63	63	0	No	62	1	No	61	2	No	60	3	No	59	4	No	58	5	No
1284-3	1		0	65	65	0	No	65	0	No	64	1	No	63	2	No	61	4	No	60	5	No
1297-1	1		0	57	57	0	No	57	0	No	56	1	No	56	1	No	55	2	No	55	2	No
1298-2	1		0	62	61	1	No	60	2	No	60	2	No	59	3	No	58	4	No	57	5	No
1299-1	1		0	58	58	0	No	57	1	No	57	1	No	57	1	No	56	2	No	56	2	No
1300-2	1		0	62	61	1	No	61	1	No	60	2	No	60	2	No	59	3	No	59	3	No
1301-1	1		0	57	56	1	No	56	1	No	56	1	No	56	1	No	56	1	No	56	1	No
1302-2	1		0	59	59	0	No	58	1	No	58	1	No	58	1	No	58	1	No	58	1	No
1303-1	1		0	56	55	1	No	55	1	No	55	1	No	55	1	No	55	1	No	54	2	No

Alt A Barrier M

Alternative A
Noise Barrier M

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	950 ft	non park length 950 ft	non park length 950 ft	non park length 950 ft	non park length 950 ft	non park length 950 ft
Wall Cost per sq ft:	\$20 650 ft	park length 650 ft	park length 650 ft	park length 650 ft	park length 650 ft	park length 650 ft
Cost of items critical to safety:						
# of First Row Receivers:	3					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
1304-2	1		0	58	58	0	No	58	0	No	57	1	No	57	1	No	57	1	No	56	2	No
1285-1	1		0	56	55	1	No	54	2	No	54	2	No	53	3	No	53	3	No	52	4	No
1286-2	1		0	59	58	1	No	58	1	No	57	2	No	56	3	No	55	4	No	54	5	No
1287-3	1		0	60	61	-1	No	60	0	No	60	0	No	59	1	No	58	2	No	58	2	No
1288-1	1		0	56	55	1	No	55	1	No	54	2	No	53	3	No	53	3	No	52	4	No
1289-2	1		0	59	58	1	No	58	1	No	57	2	No	56	3	No	55	4	No	54	5	No
1290-3	1		0	61	61	0	No	61	0	No	60	1	No	59	2	No	59	2	No	58	3	No
1291-1	1		0	58	56	2	No	55	3	No	54	4	No	53	5	No	53	5	No	52	6	No
1292-2	1		0	61	61	0	No	60	1	No	58	3	No	56	5	No	56	5	No	54	7	Yes
1293-3	1		0	63	63	0	No	63	0	No	63	0	No	61	2	No	59	4	No	58	5	No
1270-1	1		0	51	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No
1271-2	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No
1272-3	1		0	54	54	0	No	54	0	No	54	0	No	54	0	No	54	0	No	54	0	No
1267-1	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No
1268-2	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No	54	1	No
1269-3	1		0	56	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No
1326-1	1		0	50	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No
1327-2	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No
1328-3	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No
1329-1	1		0	50	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No
1330-2	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No
1331-3	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No
1332-1	1		0	50	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No
1333-2	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No
1334-3	1		0	54	54	0	No	54	0	No	54	0	No	54	0	No	54	0	No	54	0	No
1335-1	1		0	50	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No
1336-2	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No
1337-3	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No
1310-1	1		0	54	54	0	No	54	0	No	54	0	No	54	0	No	54	0	No	54	0	No
1311-2	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No
1312-1	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No
1313-2	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No
1338	1	Yes	1	63	62	1	No	61	2	No	61	2	No	60	3	No	59	4	No	58	5	No

Feasibility Factors:												
# of First-Row ≥5 dBA Reduction:	0	0	2	2	2	3						
% of First-Row ≥5 dBA Reduction:	0%	0%	67%	67%	67%	100%						
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):	No	No	Yes	Yes	Yes	Yes						
Reasonableness Factors:												
# of First-Row ≥7 dBA Reduction:	0	0	0	0	1	2						
% of First-Row ≥7 dBA Reduction:	0%	0%	0%	0%	33%	67%						
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):	No	No	No	No	No	Yes						
# of Benefited (per Benefited Receptors Allowable Cost Portion):	0	0	2	8	13	26						
# of Benefited (per Linear Foot Allowable Cost Portion):	0	0	0	0	0	1						
Total # of Benefited:	TRUE	0	TRUE	0	TRUE	2	TRUE	8	TRUE	13	TRUE	27
Cost of Noise Wall (Length x Height x \$20 per sq ft):	\$224,000	\$288,000	\$352,000	\$416,000	\$480,000	\$544,000						

Alt A Barrier M

Alternative A
Noise Barrier M

Wall Height:	7	ft		9	ft		11	ft		13	ft		15	ft		17	ft		
Wall Length:	950	ft	non park length	950	ft	non park length	950	ft	non park length	950	ft	non park length	950	ft	non park length	950	ft	non park length	
Wall Cost per sq ft:	\$20	650	ft	park length	650	ft	park length	650	ft	park length	650	ft	park length	650	ft	park length	650	ft	park length
Cost of items critical to safety:																			
# of First Row Receivers:	3																		

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
Cost of any other items critical to safety:							0				0				0				0			
Anticipated Cost of Noise Abatement:							\$224,000				\$288,000				\$352,000				\$416,000			
Allowable Cost (\$30,000 per Benefited Receptor):							\$0				\$0				\$60,000				\$240,000			
Allowable Cost (\$360 per Linear Foot):							\$234,000				\$234,000				\$234,000				\$234,000			
Total Allowable Cost:							\$234,000				\$234,000				\$294,000				\$474,000			
Cost Effective (Anticipated Cost < Allowable Cost):							Yes				No				No				Yes			
Feasible and Reasonable:							No				No				No				No			

Alt A Barrier N																															
Alternative A																															
Noise Barrier N																															
Wall Height:		7 ft					9 ft					11 ft					13 ft					15 ft					17 ft				
Wall Length:		1259 ft					1259 ft					1259 ft					1259 ft					1259 ft					1259 ft				
Wall Cost per sq ft:		\$20																													
Cost of items critical to safety:																															
# of First Row Receivers:		1																													
Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction									
1339	1	Yes	1	65	65	0	No	65	0	No	64	1	No	63	2	No	62	3	No	61	4	No									
Feasibility Factors:																															
# of First-Row ≥5 dBA Reduction:							0	0							0							0									
% of First-Row ≥5 dBA Reduction:							0%	0%							0%							0%									
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):							No	No							No							No									
Reasonableness Factors:																															
# of First-Row ≥7 dBA Reduction:							0	0							0							0									
% of First-Row ≥7 dBA Reduction:							0%	0%							0%							0%									
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):							No	No							No							No									
# of Benefited (≥5 dBA Reduction):							0	0							0							0									
Cost of Noise Wall (Length x Height x \$20/sq ft):							\$176,260	\$226,620							\$276,980							\$327,340									
Cost of any other items critical to safety:							0	0							0							0									
Anticipated Cost of Noise Abatement:							\$176,260	\$226,620							\$276,980							\$327,340									
Allowable Cost (\$360 per Linear Foot):							\$453,240	\$453,240							\$453,240							\$453,240									
Cost Effective (Anticipated Cost < Allowable Cost):							Yes	Yes							Yes							Yes									
Feasible and Reasonable:							No	No							No							No									

Alt A Barrier O

Alternative A
Noise Barrier O

Wall Height:		7 ft		9 ft		11 ft		13 ft		15 ft		17 ft											
Wall Length:		1607 ft		1607 ft		1607 ft		1607 ft		1607 ft		1607 ft											
Wall Cost per sq ft:		\$20																					
Cost of items critical to safety:																							
# of First Row Receivers:		1																					
Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction	
1340	1	Yes	1	58	58	0	No	58	0	No	58	0	No	57	1	No	56	2	No	56	2	No	
Feasibility Factors:																							
# of First-Row ≥5 dBA Reduction:							0	0							0								
% of First-Row ≥5 dBA Reduction:							0%	0%							0%								
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):							No	No							No								
Reasonableness Factors:																							
# of First-Row ≥7 dBA Reduction:							0	0							0								
% of First-Row ≥7 dBA Reduction:							0%	0%							0%								
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):							No	No							No								
# of Benefited (≥5 dBA Reduction):							0	0							0								
Cost of Noise Wall (Length x Height x \$20/sq ft):							\$224,980	\$289,260							\$417,820								
Cost of any other items critical to safety:							0	0							0								
Anticipated Cost of Noise Abatement:							\$224,980	\$289,260							\$417,820								
Allowable Cost (\$360 per Linear Foot):							\$578,520	\$578,520							\$578,520								
Cost Effective (Anticipated Cost < Allowable Cost):							Yes	Yes							Yes								
Feasible and Reasonable:							No	No							No								

Alt B Barrier G

Alternative B
Noise Barrier G

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	1591 ft	1591 ft	1591 ft	1591 ft	1591 ft	1591 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	18					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
631-1	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No
632-2	1		0	64	63	1	No	63	1	No	64	0	No	63	1	No	63	1	No	63	1	No
634-1	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No
635-2	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No
637-1	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No
638-2	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No
591-1	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No
592-2	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No
711-1	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	61	1	No	61	1	No
712-2	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	65	1	No
696-1	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No
697-2	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No
693-1	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No
694-2	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No
616-1	1		0	48	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No
617-2	1		0	48	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No
619-1	1		0	48	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No
620-2	1		0	48	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No	47	1	No
625-1	1		0	56	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No
626-2	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No
646-1	1		0	54	54	0	No	54	0	No	54	0	No	54	0	No	53	1	No	53	1	No
647-2	1		0	56	56	0	No	56	0	No	56	0	No	56	0	No	55	1	No	55	1	No
649-1	1		0	50	50	0	No	50	0	No	50	0	No	50	0	No	49	1	No	49	1	No
650-2	1		0	51	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No	50	1	No
652-1	1		0	51	50	1	No	50	1	No	50	1	No	50	1	No	50	1	No	50	1	No
653-2	1		0	53	53	0	No	53	0	No	53	0	No	52	1	No	52	1	No	52	1	No
640-1	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No
641-2	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No
661-1	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No
662-2	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No
643-1	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No
644-2	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
655-1	1		0	51	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No
656-2	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No
658-1	1		0	51	51	0	No	51	0	No	50	1	No	50	1	No	50	1	No	50	1	No
659-2	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No
622-1	1		0	48	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No	47	1	No
623-2	1		0	48	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No
558-1	1	Yes	1	66	66	0	No	66	0	No	66	0	No	65	1	No	64	2	No	62	4	No
559-2	1		0	69	69	0	No	69	0	No	69	0	No	68	1	No	67	2	No	66	3	No
561-1	1	Yes	1	66	66	0	No	66	0	No	66	0	No	65	1	No	64	2	No	62	4	No
562-2	1		0	69	69	0	No	69	0	No	69	0	No	68	1	No	67	2	No	65	4	No
564-1	1	Yes	1	66	66	0	No	66	0	No	66	0	No	65	1	No	63	3	No	62	4	No
565-2	1		0	69	69	0	No	69	0	No	69	0	No	68	1	No	67	2	No	65	4	No
567-1	1	Yes	1	66	66	0	No	66	0	No	65	1	No	64	2	No	63	3	No	62	4	No

Alt B Barrier G

Alternative B
Noise Barrier G

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	1591 ft	1591 ft	1591 ft	1591 ft	1591 ft	1591 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	18					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
568-2	1		0	69	69	0	No	69	0	No	69	0	No	68	1	No	67	2	No	65	4	No
684-1	1		0	65	65	0	No	65	0	No	64	1	No	63	2	No	61	4	No	60	5	No
685-2	1		0	70	70	0	No	70	0	No	70	0	No	69	1	No	66	4	No	63	7	Yes
666-1	1	Yes	1	70	67	3	No	63	7	Yes	61	9	Yes	61	9	Yes	61	9	Yes	60	10	Yes
667-2	1		0	77	76	1	No	76	1	No	76	1	No	76	1	No	74	3	No	67	10	Yes
669-1	1	Yes	1	67	66	1	No	62	5	No	61	6	No	60	7	Yes	60	7	Yes	59	8	Yes
670-2	1		0	77	76	1	No	76	1	No	76	1	No	76	1	No	74	3	No	67	10	Yes
672-1	1	Yes	1	65	67	-2	No	62	3	No	60	5	No	60	5	No	60	5	No	59	6	No
673-2	1		0	76	75	1	No	75	1	No	75	1	No	75	1	No	74	2	No	67	9	Yes
699-1	1		0	57	58	-1	No	58	-1	No	58	-1	No	58	-1	No	58	-1	No	58	-1	No
700-2	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No
525-1	1	Yes	1	67	66	1	No	66	1	No	65	2	No	64	3	No	63	4	No	61	6	No
526-2	1		0	69	69	0	No	69	0	No	68	1	No	67	2	No	65	4	No	64	5	No
528-1	1	Yes	1	67	66	1	No	66	1	No	65	2	No	64	3	No	63	4	No	61	6	No
529-2	1		0	69	69	0	No	69	0	No	68	1	No	67	2	No	66	3	No	64	5	No
531-1	1	Yes	1	66	66	0	No	66	0	No	65	1	No	64	2	No	63	3	No	62	4	No
532-2	1		0	69	69	0	No	69	0	No	68	1	No	67	2	No	66	3	No	65	4	No
534-1	1	Yes	1	67	66	1	No	66	1	No	65	2	No	64	3	No	63	4	No	62	5	No
535-2	1		0	69	69	0	No	69	0	No	69	0	No	67	2	No	66	3	No	65	4	No
537-1	1	Yes	1	66	66	0	No	66	0	No	65	1	No	64	2	No	63	3	No	62	4	No
538-2	1		0	69	69	0	No	69	0	No	69	0	No	68	1	No	66	3	No	65	4	No
540-1	1	Yes	1	67	67	0	No	67	0	No	66	1	No	65	2	No	64	3	No	63	4	No
541-2	1		0	70	70	0	No	69	1	No	69	1	No	68	2	No	67	3	No	66	4	No
576-1	1		0	62	62	0	No	62	0	No	62	0	No	61	1	No	60	2	No	59	3	No
577-2	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	63	1	No	62	2	No
579-1	1		0	55	55	0	No	55	0	No	55	0	No	54	1	No	54	1	No	54	1	No
580-2	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	57	1	No	57	1	No
570-1	1	Yes	1	65	65	0	No	65	0	No	65	0	No	64	1	No	63	2	No	62	3	No
571-2	1		0	69	69	0	No	69	0	No	68	1	No	68	1	No	66	3	No	65	4	No
573-1	1	Yes	1	65	65	0	No	65	0	No	64	1	No	63	2	No	62	3	No	61	4	No
574-2	1		0	68	68	0	No	68	0	No	68	0	No	67	1	No	65	3	No	64	4	No
588-1	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	54	1	No	54	1	No
589-2	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	58	1	No	58	1	No
687-1	1		0	60	59	1	No	59	1	No	58	2	No	58	2	No	58	2	No	58	2	No
688-2	1		0	62	62	0	No	62	0	No	62	0	No	60	2	No	60	2	No	59	3	No
690-1	1		0	58	58	0	No	57	1	No	57	1	No	57	1	No	57	1	No	57	1	No
691-2	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No
675-1	1	Yes	1	64	67	-3	No	62	2	No	60	4	No	59	5	No	59	5	No	59	5	No
676-2	1		0	74	73	1	No	73	1	No	73	1	No	73	1	No	72	2	No	68	6	No
702-1	1		0	68	67	1	No	67	1	No	67	1	No	67	1	No	67	1	No	67	1	No
703-2	1		0	70	70	0	No	70	0	No	70	0	No	70	0	No	70	0	No	70	0	No
546-1	1		0	54	54	0	No	54	0	No	54	0	No	53	1	No	53	1	No	52	2	No
547-2	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	54	1	No	53	2	No
543-1	1		0	60	60	0	No	60	0	No	59	1	No	58	2	No	57	3	No	56	4	No
544-2	1		0	63	63	0	No	62	1	No	61	2	No	60	3	No	59	4	No	58	5	No

Alt B Barrier G

Alternative B
Noise Barrier G

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	1591 ft	1591 ft	1591 ft	1591 ft	1591 ft	1591 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	18					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
549-1	1		0	54	54	0	No	54	0	No	54	0	No	53	1	No	53	1	No	52	2	No
550-2	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	54	1	No	53	2	No
552-1	1		0	53	53	0	No	53	0	No	53	0	No	52	1	No	52	1	No	51	2	No
553-2	1		0	54	54	0	No	54	0	No	54	0	No	54	0	No	53	1	No	53	1	No
555-1	1		0	63	63	0	No	63	0	No	63	0	No	62	1	No	62	1	No	61	2	No
556-2	1		0	66	66	0	No	65	1	No	65	1	No	65	1	No	64	2	No	63	3	No
604-1	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	58	1	No	57	2	No
605-2	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	60	1	No	59	2	No
582-1	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No	54	1	No
583-2	1		0	59	59	0	No	59	0	No	59	0	No	58	1	No	58	1	No	58	1	No
585-1	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No
586-2	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	59	1	No	59	1	No
678-1	1	Yes	1	63	66	-3	No	62	1	No	60	3	No	59	4	No	59	4	No	59	4	No
679-2	1		0	72	72	0	No	72	0	No	72	0	No	72	0	No	71	1	No	67	5	No
705-1	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	63	1	No
706-2	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No
681-1	1	Yes	1	62	66	-4	No	65	-3	No	62	0	No	60	2	No	59	3	No	59	3	No
682-2	1		0	70	71	-1	No	71	-1	No	71	-1	No	71	-1	No	70	0	No	68	2	No
708-1	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No
709-2	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
613-1	1		0	48	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No
614-2	1		0	48	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No
610-1	1		0	55	55	0	No	54	1	No	54	1	No	54	1	No	53	2	No	52	3	No
611-2	1		0	58	58	0	No	57	1	No	57	1	No	56	2	No	55	3	No	54	4	No
595-1	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	57	0	No	56	1	No
596-2	1		0	60	60	0	No	60	0	No	59	1	No	59	1	No	59	1	No	58	2	No
598-1	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	57	1	No	57	1	No
599-2	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	59	1	No	59	1	No
601-1	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	58	1	No	57	2	No
602-2	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	60	1	No	59	2	No
607-1	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No	58	1	No
608-2	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	60	1	No	60	1	No
628-1	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	59	1	No	59	1	No
629-2	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No
714-1	1		0	62	62	0	No	62	0	No	62	0	No	61	1	No	61	1	No	61	1	No
715-2	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No
717-1	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No
718-2	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No
735-1	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No
736-2	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No
732-1	1		0	63	62	1	No	62	1	No	62	1	No	62	1	No	62	1	No	62	1	No
733-2	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No	65	0	No
729-1	1		0	64	63	1	No	63	1	No	63	1	No	63	1	No	63	1	No	63	1	No
730-2	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No
726-1	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No

Alt B Barrier G

Alternative B
Noise Barrier G

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	1591 ft	1591 ft	1591 ft	1591 ft	1591 ft	1591 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	18					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
727-2	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No
723-1	1		0	66	65	1	No	65	1	No	65	1	No	65	1	No	65	1	No	65	1	No
724-2	1		0	68	67	1	No	67	1	No	67	1	No	67	1	No	67	1	No	67	1	No
720-1	1		0	68	68	0	No	68	0	No	67	1	No	67	1	No	67	1	No	67	1	No
721-2	1		0	70	70	0	No	70	0	No	70	0	No	70	0	No	69	1	No	69	1	No
527-3	1		0	71	71	0	No	71	0	No	71	0	No	69	2	No	68	3	No	67	4	No
530-3	1		0	71	71	0	No	71	0	No	71	0	No	70	1	No	69	2	No	67	4	No
533-3	1		0	71	71	0	No	71	0	No	71	0	No	70	1	No	69	2	No	68	3	No
536-3	1		0	71	71	0	No	71	0	No	71	0	No	70	1	No	69	2	No	68	3	No
539-3	1		0	71	71	0	No	71	0	No	71	0	No	70	1	No	69	2	No	68	3	No
542-3	1		0	71	71	0	No	71	0	No	71	0	No	71	0	No	70	1	No	69	2	No
560-3	1		0	71	71	0	No	71	0	No	71	0	No	70	1	No	70	1	No	69	2	No
563-3	1		0	71	71	0	No	71	0	No	71	0	No	70	1	No	70	1	No	69	2	No
566-3	1		0	71	71	0	No	71	0	No	71	0	No	70	1	No	70	1	No	69	2	No
569-3	1		0	71	71	0	No	71	0	No	71	0	No	70	1	No	70	1	No	68	3	No
572-3	1		0	71	71	0	No	71	0	No	70	1	No	70	1	No	69	2	No	68	3	No
575-3	1		0	70	70	0	No	70	0	No	70	0	No	69	1	No	69	1	No	67	3	No
593-3	1		0	69	69	0	No	69	0	No	69	0	No	69	0	No	69	0	No	68	1	No
590-3	1		0	70	70	0	No	70	0	No	70	0	No	69	1	No	69	1	No	69	1	No
633-3	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No
636-3	1		0	68	68	0	No	68	0	No	68	0	No	68	0	No	67	1	No	67	1	No
639-3	1		0	68	68	0	No	68	0	No	68	0	No	68	0	No	67	1	No	67	1	No
713-3	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No
698-3	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No
695-3	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No
618-3	1		0	54	54	0	No	54	0	No	54	0	No	54	0	No	53	1	No	53	1	No
621-3	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No
627-3	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No
648-3	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No	57	1	No
651-3	1		0	57	57	0	No	57	0	No	57	0	No	57	0	No	56	1	No	56	1	No
654-3	1		0	61	61	0	No	61	0	No	61	0	No	60	1	No	60	1	No	60	1	No
642-3	1		0	68	68	0	No	68	0	No	68	0	No	68	0	No	67	1	No	67	1	No
663-3	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No	64	0	No
645-3	1		0	68	68	0	No	68	0	No	68	0	No	68	0	No	67	1	No	67	1	No
657-3	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	59	1	No
660-3	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No	58	0	No
624-3	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No
686-3	1		0	71	71	0	No	71	0	No	71	0	No	71	0	No	71	0	No	70	1	No
668-3	1		0	78	77	1	No	77	1	No	77	1	No	77	1	No	77	1	No	77	1	No
671-3	1		0	78	77	1	No	77	1	No	77	1	No	77	1	No	77	1	No	77	1	No
674-3	1		0	79	77	2	No	77	2	No	77	2	No	77	2	No	77	2	No	77	2	No
701-3	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No
578-3	1		0	68	68	0	No	68	0	No	68	0	No	68	0	No	67	1	No	67	1	No
581-3	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No
689-3	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	64	1	No	64	1	No

Alt B Barrier G

Alternative B
Noise Barrier G

Wall Height:				7 ft				9 ft				11 ft				13 ft				15 ft				17 ft			
Wall Length:				1591 ft				1591 ft				1591 ft				1591 ft				1591 ft				1591 ft			
Wall Cost per sq ft:				\$20																							
Cost of items critical to safety:																											
# of First Row Receivers:				18																							
Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction					
692-3	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No					
677-3	1		0	79	76	3	No	76	3	No	76	3	No	76	3	No	76	3	No	76	3	No					
704-3	1		0	73	73	0	No	73	0	No	73	0	No	73	0	No	73	0	No	73	0	No					
548-3	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	61	1	No	60	2	No					
545-3	1		0	65	65	0	No	65	0	No	65	0	No	64	1	No	63	2	No	62	3	No					
551-3	1		0	62	62	0	No	62	0	No	62	0	No	61	1	No	61	1	No	60	2	No					
554-3	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	59	1	No	59	1	No					
557-3	1		0	68	68	0	No	68	0	No	67	1	No	67	1	No	66	2	No	65	3	No					
606-3	1		0	65	65	0	No	65	0	No	64	1	No	64	1	No	64	1	No	63	2	No					
584-3	1		0	69	69	0	No	69	0	No	69	0	No	69	0	No	69	0	No	69	0	No					
587-3	1		0	70	70	0	No	70	0	No	70	0	No	70	0	No	69	1	No	69	1	No					
680-3	1		0	78	76	2	No	76	2	No	76	2	No	76	2	No	76	2	No	76	2	No					
707-3	1		0	69	69	0	No	69	0	No	69	0	No	69	0	No	69	0	No	69	0	No					
683-3	1		0	78	76	2	No	76	2	No	76	2	No	76	2	No	76	2	No	76	2	No					
710-3	1		0	68	68	0	No	68	0	No	68	0	No	68	0	No	68	0	No	68	0	No					
615-3	1		0	54	54	0	No	54	0	No	54	0	No	54	0	No	53	1	No	53	1	No					
612-3	1		0	60	60	0	No	59	1	No	59	1	No	58	2	No	57	3	No	57	3	No					
597-3	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	61	1	No	61	1	No					
600-3	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	62	1	No	62	1	No					
603-3	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	63	1	No	63	1	No					
609-3	1		0	65	65	0	No	65	0	No	65	0	No	64	1	No	64	1	No	64	1	No					
630-3	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No					
716-3	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No					
719-3	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No					
737-3	1		0	66	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No	66	0	No					
734-3	1		0	67	67	0	No	67	0	No	66	1	No	66	1	No	66	1	No	66	1	No					
731-3	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No	67	0	No					
728-3	1		0	68	68	0	No	68	0	No	68	0	No	68	0	No	68	0	No	68	0	No					
725-3	1		0	70	70	0	No	70	0	No	70	0	No	70	0	No	70	0	No	69	1	No					
722-3	1		0	73	73	0	No	73	0	No	73	0	No	73	0	No	73	0	No	73	0	No					
594	1		0	64	64	0	No	64	0	No	64	0	No	63	1	No	62	2	No	62	2	No					
664	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No					
665	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	62	1	No	62	1	No					
Feasibility Factors:																											
# of First-Row ≥5 dBA Reduction:							0			2			3			4			4			7					
% of First-Row ≥5 dBA Reduction:							0%			11%			17%			22%			22%			39%					
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):							No			No			No			No			No			No					
Reasonableness Factors:																											
# of First-Row ≥7 dBA Reduction:							0			1			1			2			2			2					
% of First-Row ≥7 dBA Reduction:							0%			6%			6%			11%			11%			11%					
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):							No			No			No			No			No			No					
# of Benefited (≥5 dBA Reduction):							0			2			3			4			4			17					
Cost of Noise Wall (Length x Height x \$20/sq ft):							\$222,740			\$286,380			\$350,020			\$413,660			\$477,300			\$540,940					
Cost of any other items critical to safety:							0			0			0			0			0			0					
Anticipated Cost of Noise Abatement:							\$222,740			\$286,380			\$350,020			\$413,660			\$477,300			\$540,940					

Alternative B
Noise Barrier G

Wall Height:		7 ft				9 ft				11 ft				13 ft				15 ft				17 ft								
Wall Length:		1591 ft				1591 ft				1591 ft				1591 ft				1591 ft				1591 ft								
Wall Cost per sq ft:		\$20																												
Cost of items critical to safety:																														
# of First Row Receivers:		18																												
Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction								
Allowable Cost (\$30,000 per benefited receptor):							\$0				\$60,000				\$90,000				\$120,000				\$120,000				\$510,000			
Cost Effective (Anticipated Cost < Allowable Cost):							No				No				No				No				No				No			
Feasible and Reasonable:							No				No				No				No				No				No			

Alt B Barrier H

Alternative B
Noise Barrier H

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	2824 ft	2824 ft	2824 ft	2824 ft	2824 ft	2824 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	6					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
802	1	Yes	1	65	64	1	No	64	1	No	63	2	No	62	3	No	61	4	No	60	5	No
801	1	Yes	1	65	65	0	No	65	0	No	63	2	No	62	3	No	61	4	No	60	5	No
803	1	Yes	1	68	68	0	No	67	1	No	67	1	No	65	3	No	64	4	No	63	5	No
983	1	Yes	1	65	65	0	No	64	1	No	63	2	No	62	3	No	60	5	No	59	6	No
984	1	Yes	1	65	65	0	No	64	1	No	63	2	No	62	3	No	60	5	No	59	6	No
985	1		0	51	51	0	No	51	0	No	51	0	No	50	1	No	50	1	No	49	2	No
1010	1	Yes	1	73	70	3	No	67	6	No	65	8	Yes	63	10	Yes	62	11	Yes	60	13	Yes
744-3	1		0	65	65	0	No	64	1	No	64	1	No	63	2	No	62	3	No	61	4	No
745-4	1		0	66	66	0	No	66	0	No	65	1	No	65	1	No	64	2	No	63	3	No
746-5	1		0	67	67	0	No	67	0	No	66	1	No	66	1	No	65	2	No	64	3	No
747-3	1		0	66	66	0	No	66	0	No	65	1	No	65	1	No	64	2	No	63	3	No
748-4	1		0	68	67	1	No	67	1	No	67	1	No	66	2	No	65	3	No	64	4	No
749-5	1		0	68	68	0	No	68	0	No	68	0	No	67	1	No	67	1	No	66	2	No
750-3	1		0	66	66	0	No	66	0	No	65	1	No	65	1	No	64	2	No	63	3	No
751-4	1		0	67	67	0	No	67	0	No	67	0	No	66	1	No	65	2	No	64	3	No
752-5	1		0	68	68	0	No	68	0	No	68	0	No	67	1	No	67	1	No	66	2	No
753-3	1		0	66	66	0	No	66	0	No	66	0	No	65	1	No	64	2	No	63	3	No
754-4	1		0	68	67	1	No	67	1	No	67	1	No	66	2	No	65	3	No	64	4	No
755-5	1		0	68	68	0	No	68	0	No	68	0	No	67	1	No	67	1	No	66	2	No
756-3	1		0	66	66	0	No	66	0	No	66	0	No	65	1	No	64	2	No	62	4	No
757-4	1		0	67	67	0	No	67	0	No	67	0	No	66	1	No	65	2	No	64	3	No
758-5	1		0	68	68	0	No	68	0	No	68	0	No	67	1	No	67	1	No	66	2	No
771-3	1		0	66	66	0	No	66	0	No	66	0	No	65	1	No	64	2	No	62	4	No
772-4	1		0	67	67	0	No	67	0	No	67	0	No	66	1	No	65	2	No	64	3	No
773-5	1		0	68	68	0	No	68	0	No	68	0	No	67	1	No	67	1	No	66	2	No
774-3	1		0	66	66	0	No	66	0	No	66	0	No	65	1	No	64	2	No	62	4	No
775-4	1		0	67	67	0	No	67	0	No	67	0	No	66	1	No	65	2	No	64	3	No
776-5	1		0	68	68	0	No	68	0	No	68	0	No	67	1	No	67	1	No	66	2	No
777-3	1		0	66	66	0	No	66	0	No	65	1	No	65	1	No	63	3	No	62	4	No
778-4	1		0	67	67	0	No	67	0	No	67	0	No	66	1	No	65	2	No	64	3	No
779-5	1		0	68	68	0	No	68	0	No	68	0	No	67	1	No	67	1	No	66	2	No
780-3	1		0	66	66	0	No	66	0	No	65	1	No	65	1	No	63	3	No	62	4	No
781-4	1		0	67	67	0	No	67	0	No	67	0	No	66	1	No	65	2	No	64	3	No
782-5	1		0	68	68	0	No	68	0	No	68	0	No	67	1	No	67	1	No	66	2	No
783-3	1		0	65	65	0	No	65	0	No	65	0	No	64	1	No	62	3	No	61	4	No
784-4	1		0	66	66	0	No	66	0	No	66	0	No	65	1	No	64	2	No	63	3	No
785-5	1		0	67	67	0	No	67	0	No	67	0	No	66	1	No	66	1	No	65	2	No
741-3	1		0	63	62	1	No	62	1	No	61	2	No	61	2	No	60	3	No	60	3	No
742-4	1		0	64	64	0	No	63	1	No	63	1	No	62	2	No	61	3	No	61	3	No
743-5	1		0	65	65	0	No	64	1	No	64	1	No	63	2	No	63	2	No	62	3	No
768-3	1		0	61	61	0	No	60	1	No	60	1	No	59	2	No	59	2	No	58	3	No
769-4	1		0	62	62	0	No	61	1	No	61	1	No	60	2	No	60	2	No	59	3	No
770-5	1		0	63	63	0	No	63	0	No	62	1	No	61	2	No	61	2	No	60	3	No
765-3	1		0	55	54	1	No	54	1	No	54	1	No	54	1	No	53	2	No	53	2	No
766-4	1		0	55	55	0	No	55	0	No	55	0	No	54	1	No	54	1	No	54	1	No

Alt B Barrier H

Alternative B
Noise Barrier H

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	2824 ft	2824 ft	2824 ft	2824 ft	2824 ft	2824 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	6					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
767-5	1		0	57	56	1	No	56	1	No	56	1	No	56	1	No	56	1	No	56	1	No
762-3	1		0	48	48	0	No	48	0	No	47	1	No	47	1	No	47	1	No	47	1	No
763-4	1		0	49	49	0	No	49	0	No	49	0	No	49	0	No	48	1	No	48	1	No
764-5	1		0	51	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No
759-3	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	46	1	No	46	1	No
760-4	1		0	47	47	0	No	47	0	No	47	0	No	46	1	No	46	1	No	46	1	No
761-5	1		0	49	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No
798-3	1		0	56	55	1	No	55	1	No	54	2	No	54	2	No	53	3	No	52	4	No
799-4	1		0	56	56	0	No	56	0	No	55	1	No	54	2	No	54	2	No	53	3	No
800-5	1		0	57	57	0	No	57	0	No	57	0	No	56	1	No	55	2	No	54	3	No
795-3	1		0	46	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No
796-4	1		0	46	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No
797-5	1		0	49	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No	48	1	No
792-3	1		0	46	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No
793-4	1		0	46	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No
794-5	1		0	49	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No	48	1	No
789-3	1		0	51	51	0	No	51	0	No	50	1	No	50	1	No	49	2	No	49	2	No
790-4	1		0	53	53	0	No	53	0	No	52	1	No	51	2	No	51	2	No	50	3	No
791-5	1		0	56	55	1	No	55	1	No	55	1	No	54	2	No	54	2	No	53	3	No
786-3	1		0	61	61	0	No	61	0	No	61	0	No	60	1	No	59	2	No	58	3	No
787-4	1		0	63	63	0	No	63	0	No	62	1	No	62	1	No	61	2	No	59	4	No
788-5	1		0	64	64	0	No	64	0	No	64	0	No	63	1	No	62	2	No	61	3	No
816-3	1		0	65	65	0	No	65	0	No	65	0	No	64	1	No	63	2	No	61	4	No
817-4	1		0	67	67	0	No	67	0	No	67	0	No	66	1	No	65	2	No	64	3	No
818-5	1		0	68	68	0	No	68	0	No	67	1	No	67	1	No	67	1	No	66	2	No
813-3	1		0	65	65	0	No	65	0	No	64	1	No	64	1	No	62	3	No	61	4	No
814-4	1		0	66	66	0	No	66	0	No	66	0	No	65	1	No	65	1	No	64	2	No
815-5	1		0	67	67	0	No	67	0	No	67	0	No	66	1	No	66	1	No	65	2	No
819-3	1		0	65	65	0	No	65	0	No	64	1	No	64	1	No	63	2	No	62	3	No
820-4	1		0	67	66	1	No	66	1	No	66	1	No	66	1	No	65	2	No	64	3	No
821-5	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	66	1	No	65	2	No
855-3	1		0	65	65	0	No	65	0	No	64	1	No	64	1	No	63	2	No	62	3	No
856-4	1		0	67	67	0	No	67	0	No	66	1	No	66	1	No	65	2	No	64	3	No
857-5	1		0	68	68	0	No	67	1	No	67	1	No	67	1	No	66	2	No	66	2	No
852-3	1		0	64	64	0	No	64	0	No	63	1	No	63	1	No	62	2	No	61	3	No
853-4	1		0	66	66	0	No	66	0	No	65	1	No	65	1	No	64	2	No	63	3	No
854-5	1		0	67	67	0	No	66	1	No	66	1	No	66	1	No	65	2	No	65	2	No
858-3	1		0	63	63	0	No	62	1	No	62	1	No	61	2	No	60	3	No	60	3	No
859-4	1		0	65	65	0	No	64	1	No	64	1	No	63	2	No	63	2	No	62	3	No
860-5	1		0	66	66	0	No	66	0	No	65	1	No	65	1	No	64	2	No	63	3	No
810-3	1		0	63	63	0	No	63	0	No	63	0	No	62	1	No	61	2	No	60	3	No
811-4	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	63	1	No	62	2	No
812-5	1		0	65	65	0	No	65	0	No	65	0	No	65	0	No	64	1	No	63	2	No
822-3	1		0	61	61	0	No	61	0	No	61	0	No	60	1	No	59	2	No	58	3	No
823-4	1		0	64	63	1	No	63	1	No	63	1	No	62	2	No	61	3	No	60	4	No

Alt B Barrier H

Alternative B
Noise Barrier H

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	2824 ft	2824 ft	2824 ft	2824 ft	2824 ft	2824 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	6					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
824-5	1		0	65	64	1	No	64	1	No	64	1	No	64	1	No	63	2	No	62	3	No
849-3	1		0	62	62	0	No	62	0	No	62	0	No	61	1	No	60	2	No	59	3	No
850-4	1		0	64	64	0	No	64	0	No	64	0	No	63	1	No	62	2	No	61	3	No
851-5	1		0	65	65	0	No	65	0	No	65	0	No	64	1	No	64	1	No	62	3	No
861-3	1		0	61	60	1	No	59	2	No	59	2	No	58	3	No	58	3	No	58	3	No
862-4	1		0	62	62	0	No	61	1	No	60	2	No	60	2	No	59	3	No	59	3	No
863-5	1		0	64	64	0	No	63	1	No	62	2	No	62	2	No	61	3	No	60	4	No
807-3	1		0	62	62	0	No	62	0	No	62	0	No	61	1	No	60	2	No	59	3	No
808-4	1		0	63	63	0	No	63	0	No	63	0	No	62	1	No	61	2	No	60	3	No
809-5	1		0	64	64	0	No	64	0	No	63	1	No	63	1	No	62	2	No	61	3	No
825-3	1		0	59	59	0	No	58	1	No	58	1	No	57	2	No	56	3	No	55	4	No
826-4	1		0	61	61	0	No	61	0	No	60	1	No	59	2	No	58	3	No	57	4	No
827-5	1		0	63	63	0	No	62	1	No	62	1	No	61	2	No	60	3	No	59	4	No
846-3	1		0	61	61	0	No	61	0	No	61	0	No	60	1	No	59	2	No	58	3	No
847-4	1		0	63	63	0	No	63	0	No	62	1	No	62	1	No	61	2	No	60	3	No
848-5	1		0	64	64	0	No	64	0	No	64	0	No	63	1	No	62	2	No	61	3	No
864-3	1		0	60	59	1	No	59	1	No	58	2	No	57	3	No	57	3	No	56	4	No
865-4	1		0	61	61	0	No	60	1	No	59	2	No	59	2	No	58	3	No	58	3	No
866-5	1		0	63	62	1	No	62	1	No	61	2	No	60	3	No	60	3	No	59	4	No
828-3	1		0	60	59	1	No	59	1	No	59	1	No	58	2	No	57	3	No	56	4	No
829-4	1		0	61	61	0	No	61	0	No	61	0	No	60	1	No	59	2	No	58	3	No
830-5	1		0	63	63	0	No	63	0	No	62	1	No	62	1	No	61	2	No	60	3	No
831-3	1		0	61	60	1	No	60	1	No	59	2	No	58	3	No	58	3	No	57	4	No
832-4	1		0	62	62	0	No	62	0	No	61	1	No	61	1	No	60	2	No	58	4	No
833-5	1		0	64	63	1	No	63	1	No	63	1	No	63	1	No	62	2	No	61	3	No
834-3	1		0	61	61	0	No	61	0	No	60	1	No	59	2	No	58	3	No	57	4	No
835-4	1		0	62	62	0	No	62	0	No	62	0	No	61	1	No	60	2	No	59	3	No
836-5	1		0	64	64	0	No	64	0	No	63	1	No	63	1	No	62	2	No	61	3	No
837-3	1		0	61	61	0	No	61	0	No	60	1	No	60	1	No	59	2	No	58	3	No
838-4	1		0	63	62	1	No	62	1	No	62	1	No	62	1	No	60	3	No	59	4	No
839-5	1		0	64	64	0	No	64	0	No	64	0	No	63	1	No	62	2	No	61	3	No
840-3	1		0	61	61	0	No	61	0	No	61	0	No	60	1	No	59	2	No	58	3	No
841-4	1		0	63	63	0	No	63	0	No	62	1	No	62	1	No	61	2	No	60	3	No
842-5	1		0	64	64	0	No	64	0	No	64	0	No	63	1	No	63	1	No	62	2	No
843-3	1		0	61	61	0	No	61	0	No	60	1	No	60	1	No	59	2	No	57	4	No
844-4	1		0	62	62	0	No	62	0	No	62	0	No	61	1	No	60	2	No	59	3	No
845-5	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	62	1	No	61	2	No
804-3	1		0	60	60	0	No	60	0	No	60	0	No	59	1	No	58	2	No	57	3	No
805-4	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	60	1	No	59	2	No
806-5	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	61	1	No	60	2	No
900-3	1		0	57	57	0	No	57	0	No	57	0	No	56	1	No	55	2	No	54	3	No
901-4	1		0	58	58	0	No	58	0	No	58	0	No	57	1	No	56	2	No	55	3	No
902-5	1		0	59	59	0	No	59	0	No	59	0	No	58	1	No	57	2	No	57	2	No
897-3	1		0	53	53	0	No	53	0	No	52	1	No	51	2	No	51	2	No	50	3	No
898-4	1		0	54	54	0	No	54	0	No	53	1	No	52	2	No	52	2	No	51	3	No

Alt B Barrier H

Alternative B
Noise Barrier H

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	2824 ft	2824 ft	2824 ft	2824 ft	2824 ft	2824 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	6					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
899-5	1		0	55	55	0	No	55	0	No	54	1	No	53	2	No	53	2	No	52	3	No
894-3	1		0	46	46	0	No	46	0	No	45	1	No	45	1	No	45	1	No	45	1	No
895-4	1		0	48	48	0	No	47	1	No	47	1	No	47	1	No	47	1	No	46	2	No
896-5	1		0	49	49	0	No	49	0	No	49	0	No	48	1	No	48	1	No	48	1	No
891-3	1		0	44	44	0	No	44	0	No	44	0	No	43	1	No	43	1	No	43	1	No
892-4	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	44	1	No
893-5	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No
888-3	1		0	43	43	0	No	43	0	No	43	0	No	43	0	No	43	0	No	42	1	No
889-4	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	44	1	No
890-5	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	46	1	No	46	1	No
885-3	1		0	43	43	0	No	43	0	No	43	0	No	43	0	No	42	1	No	42	1	No
886-4	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	44	1	No
887-5	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No	46	1	No
882-3	1		0	43	43	0	No	43	0	No	43	0	No	43	0	No	42	1	No	42	1	No
883-4	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	44	1	No
884-5	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	46	1	No	46	1	No
879-3	1		0	43	43	0	No	43	0	No	43	0	No	43	0	No	42	1	No	42	1	No
880-4	1		0	45	45	0	No	45	0	No	45	0	No	44	1	No	44	1	No	44	1	No
881-5	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	46	1	No	46	1	No
876-3	1		0	43	43	0	No	43	0	No	43	0	No	43	0	No	42	1	No	42	1	No
877-4	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	44	1	No	44	1	No
878-5	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	46	1	No	46	1	No
873-3	1		0	43	43	0	No	43	0	No	43	0	No	43	0	No	43	0	No	42	1	No
874-4	1		0	46	46	0	No	46	0	No	46	0	No	46	0	No	45	1	No	45	1	No
875-5	1		0	48	48	0	No	48	0	No	47	1	No	47	1	No	47	1	No	47	1	No
870-3	1		0	44	44	0	No	44	0	No	44	0	No	44	0	No	43	1	No	43	1	No
871-4	1		0	46	46	0	No	46	0	No	46	0	No	46	0	No	46	0	No	45	1	No
872-5	1		0	48	48	0	No	48	0	No	48	0	No	48	0	No	47	1	No	47	1	No
867-3	1		0	59	58	1	No	58	1	No	57	2	No	56	3	No	56	3	No	55	4	No
868-4	1		0	60	60	0	No	59	1	No	58	2	No	58	2	No	57	3	No	56	4	No
869-5	1		0	62	61	1	No	60	2	No	60	2	No	59	3	No	58	4	No	58	4	No
903-2	1		0	64	64	0	No	63	1	No	63	1	No	62	2	No	61	3	No	61	3	No
904-3	1		0	66	65	1	No	65	1	No	65	1	No	64	2	No	63	3	No	62	4	No
905-4	1		0	67	67	0	No	66	1	No	66	1	No	66	1	No	65	2	No	64	3	No
906-5	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	66	1	No	65	2	No
907-2	1		0	64	64	0	No	63	1	No	63	1	No	62	2	No	61	3	No	61	3	No
908-3	1		0	66	65	1	No	65	1	No	64	2	No	64	2	No	63	3	No	62	4	No
909-4	1		0	67	67	0	No	66	1	No	66	1	No	65	2	No	65	2	No	64	3	No
910-5	1		0	67	67	0	No	67	0	No	67	0	No	66	1	No	66	1	No	65	2	No
919-2	1		0	64	64	0	No	63	1	No	63	1	No	62	2	No	61	3	No	60	4	No
920-3	1		0	66	65	1	No	65	1	No	65	1	No	64	2	No	63	3	No	62	4	No
921-4	1		0	67	67	0	No	66	1	No	66	1	No	65	2	No	65	2	No	64	3	No
922-5	1		0	67	67	0	No	67	0	No	67	0	No	66	1	No	66	1	No	65	2	No
923-2	1		0	64	64	0	No	63	1	No	63	1	No	62	2	No	61	3	No	60	4	No
924-3	1		0	66	65	1	No	65	1	No	65	1	No	64	2	No	63	3	No	62	4	No

Alt B Barrier H

Alternative B
Noise Barrier H

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	2824 ft	2824 ft	2824 ft	2824 ft	2824 ft	2824 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	6					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
925-4	1		0	67	67	0	No	66	1	No	66	1	No	65	2	No	65	2	No	64	3	No
926-5	1		0	67	67	0	No	67	0	No	67	0	No	66	1	No	66	1	No	65	2	No
935-2	1		0	63	63	0	No	62	1	No	62	1	No	61	2	No	60	3	No	59	4	No
936-3	1		0	66	65	1	No	65	1	No	65	1	No	64	2	No	63	3	No	62	4	No
937-4	1		0	67	67	0	No	67	0	No	66	1	No	65	2	No	65	2	No	64	3	No
938-5	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	66	1	No	65	2	No
939-2	1		0	62	62	0	No	62	0	No	62	0	No	61	1	No	60	2	No	59	3	No
940-3	1		0	66	65	1	No	65	1	No	65	1	No	64	2	No	63	3	No	62	4	No
941-4	1		0	67	67	0	No	67	0	No	66	1	No	65	2	No	65	2	No	64	3	No
942-5	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	66	1	No	65	2	No
951-2	1		0	62	62	0	No	61	1	No	61	1	No	60	2	No	60	2	No	59	3	No
952-3	1		0	65	65	0	No	65	0	No	65	0	No	64	1	No	63	2	No	62	3	No
953-4	1		0	67	67	0	No	67	0	No	66	1	No	66	1	No	65	2	No	64	3	No
954-5	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	66	1	No	65	2	No
955-2	1		0	62	62	0	No	62	0	No	62	0	No	61	1	No	60	2	No	59	3	No
956-3	1		0	65	65	0	No	65	0	No	65	0	No	64	1	No	63	2	No	62	3	No
957-4	1		0	67	67	0	No	67	0	No	66	1	No	66	1	No	65	2	No	64	3	No
958-5	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	66	1	No	65	2	No
967-2	1		0	63	63	0	No	63	0	No	63	0	No	62	1	No	61	2	No	60	3	No
968-3	1		0	65	65	0	No	65	0	No	65	0	No	64	1	No	63	2	No	62	3	No
969-4	1		0	67	67	0	No	67	0	No	66	1	No	66	1	No	65	2	No	64	3	No
970-5	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	66	1	No	66	1	No
971-2	1		0	64	63	1	No	63	1	No	63	1	No	62	2	No	61	3	No	60	4	No
972-3	1		0	65	65	0	No	65	0	No	65	0	No	64	1	No	63	2	No	62	3	No
973-4	1		0	67	67	0	No	67	0	No	66	1	No	66	1	No	65	2	No	64	3	No
974-5	1		0	67	67	0	No	67	0	No	67	0	No	67	0	No	66	1	No	66	1	No
911-2	1		0	50	50	0	No	50	0	No	50	0	No	49	1	No	49	1	No	49	1	No
912-3	1		0	51	51	0	No	51	0	No	50	1	No	50	1	No	50	1	No	49	2	No
913-4	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	51	1	No	51	1	No
914-5	1		0	54	54	0	No	54	0	No	54	0	No	54	0	No	54	0	No	53	1	No
915-2	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No
916-3	1		0	46	46	0	No	46	0	No	46	0	No	45	1	No	45	1	No	45	1	No
917-4	1		0	48	48	0	No	48	0	No	48	0	No	48	0	No	47	1	No	47	1	No
918-5	1		0	51	51	0	No	51	0	No	50	1	No	50	1	No	50	1	No	50	1	No
927-2	1		0	46	46	0	No	46	0	No	46	0	No	45	1	No	45	1	No	45	1	No
928-3	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No
929-4	1		0	48	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No	47	1	No
930-5	1		0	51	51	0	No	51	0	No	50	1	No	50	1	No	50	1	No	50	1	No
931-2	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	44	1	No	44	1	No
932-3	1		0	46	46	0	No	46	0	No	46	0	No	46	0	No	45	1	No	45	1	No
933-4	1		0	48	48	0	No	48	0	No	48	0	No	48	0	No	47	1	No	47	1	No
934-5	1		0	50	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No	49	1	No
943-2	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No
944-3	1		0	44	44	0	No	44	0	No	44	0	No	43	1	No	43	1	No	43	1	No
945-4	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No

Alt B Barrier H

Alternative B
Noise Barrier H

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	2824 ft	2824 ft	2824 ft	2824 ft	2824 ft	2824 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	6					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
946-5	1		0	49	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No	48	1	No
947-2	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	44	1	No
948-3	1		0	44	44	0	No	44	0	No	44	0	No	44	0	No	44	0	No	43	1	No
949-4	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No	46	1	No
950-5	1		0	49	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No	48	1	No
959-2	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	44	1	No
960-3	1		0	44	44	0	No	44	0	No	44	0	No	44	0	No	43	1	No	43	1	No
961-4	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No	46	1	No
962-5	1		0	49	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No	48	1	No
963-2	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	44	1	No
964-3	1		0	44	44	0	No	44	0	No	44	0	No	44	0	No	44	0	No	43	1	No
965-4	1		0	47	47	0	No	47	0	No	47	0	No	47	0	No	47	0	No	46	1	No
966-5	1		0	49	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No	48	1	No
975-2	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No
976-3	1		0	44	44	0	No	44	0	No	44	0	No	44	0	No	43	1	No	43	1	No
977-4	1		0	48	48	0	No	48	0	No	48	0	No	48	0	No	47	1	No	47	1	No
978-5	1		0	49	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No
979-2	1		0	50	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No
980-3	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No
981-4	1		0	55	54	1	No	54	1	No	54	1	No	54	1	No	54	1	No	54	1	No
982-5	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No	55	0	No
986-2	1		0	53	53	0	No	53	0	No	52	1	No	52	1	No	52	1	No	51	2	No
987-3	1		0	55	55	0	No	55	0	No	55	0	No	55	0	No	54	1	No	54	1	No
988-4	1		0	57	57	0	No	57	0	No	57	0	No	56	1	No	56	1	No	55	2	No
989-5	1		0	58	58	0	No	58	0	No	58	0	No	57	1	No	57	1	No	56	2	No
990-2	1		0	55	55	0	No	55	0	No	55	0	No	54	1	No	54	1	No	54	1	No
991-3	1		0	56	56	0	No	56	0	No	56	0	No	56	0	No	56	0	No	55	1	No
992-4	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	57	1	No	57	1	No
993-5	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	58	1	No	58	1	No
994-2	1		0	55	55	0	No	55	0	No	54	1	No	54	1	No	54	1	No	53	2	No
995-3	1		0	57	57	0	No	56	1	No	56	1	No	56	1	No	56	1	No	55	2	No
996-4	1		0	58	58	0	No	58	0	No	58	0	No	58	0	No	57	1	No	57	1	No
997-5	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	58	1	No	58	1	No
998-2	1		0	56	56	0	No	56	0	No	56	0	No	55	1	No	55	1	No	54	2	No
999-3	1		0	58	58	0	No	58	0	No	58	0	No	57	1	No	57	1	No	56	2	No
1000-4	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	58	1	No	58	1	No
1001-5	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	59	1	No
1002-2	1		0	58	58	0	No	58	0	No	58	0	No	57	1	No	57	1	No	56	2	No
1003-3	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	58	1	No	58	1	No
1004-4	1		0	61	61	0	No	61	0	No	61	0	No	60	1	No	60	1	No	59	2	No
1005-5	1		0	62	62	0	No	62	0	No	61	1	No	61	1	No	61	1	No	60	2	No
1006-2	1		0	59	59	0	No	59	0	No	58	1	No	58	1	No	57	2	No	57	2	No
1007-3	1		0	60	60	0	No	60	0	No	60	0	No	59	1	No	59	1	No	58	2	No
1008-4	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	60	1	No	60	1	No
1009-5	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	61	1	No	61	1	No

Alternative B
Noise Barrier H

Alt B Barrier H

Wall Height:		7 ft		9 ft		11 ft		13 ft		15 ft		17 ft											
Wall Length:		2824 ft		2824 ft		2824 ft		2824 ft		2824 ft		2824 ft											
Wall Cost per sq ft:		\$20																					
Cost of items critical to safety:																							
# of First Row Receivers:		6																					
Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction	
Feasibility Factors:																							
# of First-Row ≥5 dBA Reduction:							0		1		1		1		3		6						
% of First-Row ≥5 dBA Reduction:							0%		17%		17%		17%		50%		100%						
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):							No		No		No		No		Yes		Yes						
Reasonableness Factors:																							
# of First-Row ≥7 dBA Reduction:							0		0		1		1		1		1						
% of First-Row ≥7 dBA Reduction:							0%		0%		17%		17%		17%		17%						
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):							No		No		No		No		No		No						
# of Benefited (≥5 dBA Reduction):							0		1		1		1		3		6						
Cost of Noise Wall (Length x Height x \$20/sq ft):							\$395,360		\$508,320		\$621,280		\$734,240		\$847,200		\$960,160						
Cost of any other items critical to safety:							0		0		0		0		0		0						
Anticipated Cost of Noise Abatement:							\$395,360		\$508,320		\$621,280		\$734,240		\$847,200		\$960,160						
Allowable Cost (\$30,000 per benefited receptor):							\$0		\$30,000		\$30,000		\$30,000		\$90,000		\$180,000						
Cost Effective (Anticipated Cost < Allowable Cost):							No		No		No		No		No		No						
Feasible and Reasonable:							No		No		No		No		No		No						

Alternative B
Noise Barrier I

Wall Height:	7	ft	9	ft	11	ft	13	ft	15	ft	17	ft
Wall Length:	156	ft	156	ft	156	ft	156	ft	156	ft	156	ft
Wall Cost per sq ft:	\$20											
Cost of items critical to safety:												
# of First Row Receivers:	1											

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
1232	1	Yes	1	70	69	1	No	68	2	No	68	2	No	68	2	No	68	2	No	68	2	No

Feasibility Factors:												
# of First-Row ≥5 dBA Reduction:							0	0	0	0	0	0
% of First-Row ≥5 dBA Reduction:							0%	0%	0%	0%	0%	0%
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):							No	No	No	No	No	No

Reasonableness Factors:																						
# of First-Row ≥7 dBA Reduction:							0				0				0				0			
% of First-Row ≥7 dBA Reduction:							0%				0%				0%				0%			
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):							No				No				No				No			

# of Benefited (≥5 dBA Reduction):							0				0				0				0			
Cost of Noise Wall (Length x Height x \$20/sq ft):							\$21,840				\$28,080				\$34,320				\$40,560			
Cost of any other items critical to safety:							0				0				0				0			
Anticipated Cost of Noise Abatement:							\$21,840				\$28,080				\$34,320				\$40,560			
Allowable Cost (\$30,000 per benefited receptor):							\$0				\$0				\$0				\$0			
Cost Effective (Anticipated Cost < Allowable Cost):							No				No				No				No			
Feasible and Reasonable:							No				No				No				No			

Alt B Barrier J

Alternative B
Noise Barrier J

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	835 ft	835 ft	835 ft	835 ft	835 ft	835 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	3					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
1095	1	Yes	1	63	63	0	No	62	1	No	62	1	No	62	1	No	62	1	No	61	2	No
1096	1		0	62	62	0	No	62	0	No	61	1	No	61	1	No	61	1	No	61	1	No
1097	1		0	61	61	0	No	61	0	No	60	1	No	60	1	No	60	1	No	60	1	No
1098	1		0	60	60	0	No	60	0	No	60	0	No	59	1	No	59	1	No	59	1	No
1099	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No
1100	1		0	59	59	0	No	59	0	No	59	0	No	59	0	No	59	0	No	58	1	No
1101	1		0	56	56	0	No	55	1	No	55	1	No	55	1	No	54	2	No	54	2	No
1102	1		0	53	52	1	No	52	1	No	51	2	No	50	3	No	49	4	No	48	5	No
1103	1		0	52	51	1	No	50	2	No	50	2	No	49	3	No	48	4	No	47	5	No
1104	1		0	50	49	1	No	49	1	No	48	2	No	47	3	No	46	4	No	46	4	No
1105	1		0	49	48	1	No	48	1	No	47	2	No	46	3	No	45	4	No	45	4	No
1106	1		0	48	47	1	No	47	1	No	46	2	No	45	3	No	44	4	No	44	4	No
1107	1		0	47	46	1	No	46	1	No	46	1	No	45	2	No	44	3	No	44	3	No
1108	1		0	47	46	1	No	46	1	No	46	1	No	45	2	No	45	2	No	45	2	No
1109	1		0	45	44	1	No	44	1	No	43	2	No	42	3	No	42	3	No	41	4	No
1110	1		0	58	58	0	No	57	1	No	57	1	No	57	1	No	57	1	No	56	2	No
1111	1		0	56	56	0	No	55	1	No	55	1	No	55	1	No	54	2	No	54	2	No
1112	1		0	54	53	1	No	53	1	No	53	1	No	52	2	No	52	2	No	51	3	No
1113	1		0	52	51	1	No	51	1	No	50	2	No	50	2	No	49	3	No	49	3	No
1114	1		0	51	51	0	No	50	1	No	50	1	No	49	2	No	49	2	No	48	3	No
1115	1		0	57	57	0	No	57	0	No	56	1	No	55	2	No	55	2	No	54	3	No
1116	1		0	56	55	1	No	55	1	No	55	1	No	54	2	No	53	3	No	53	3	No
1117	1		0	55	54	1	No	54	1	No	54	1	No	53	2	No	53	2	No	52	3	No
1118	1		0	53	53	0	No	52	1	No	52	1	No	51	2	No	51	2	No	50	3	No
1119	1		0	51	51	0	No	50	1	No	49	2	No	48	3	No	48	3	No	46	5	No
1120	1		0	50	49	1	No	49	1	No	48	2	No	47	3	No	47	3	No	45	5	No
1121	1		0	47	47	0	No	46	1	No	46	1	No	45	2	No	44	3	No	43	4	No
1122	1		0	44	45	-1	No	44	0	No	44	0	No	44	0	No	44	0	No	44	0	No
1123	1		0	47	46	1	No	46	1	No	46	1	No	45	2	No	45	2	No	45	2	No
1124	1		0	47	46	1	No	46	1	No	45	2	No	44	3	No	44	3	No	44	3	No
1125	1		0	48	47	1	No	46	2	No	46	2	No	45	3	No	44	4	No	44	4	No
1126	1		0	49	48	1	No	48	1	No	47	2	No	46	3	No	46	3	No	45	4	No
1127	1		0	47	47	0	No	47	0	No	47	0	No	46	1	No	45	2	No	44	3	No
1128	1		0	38	38	0	No	38	0	No	38	0	No	38	0	No	38	0	No	37	1	No
1129	1		0	45	44	1	No	44	1	No	43	2	No	42	3	No	42	3	No	41	4	No
1143	1		0	58	57	1	No	57	1	No	56	2	No	56	2	No	55	3	No	54	4	No
1144	1		0	56	55	1	No	55	1	No	54	2	No	54	2	No	53	3	No	53	3	No
1145	1		0	51	50	1	No	50	1	No	49	2	No	48	3	No	47	4	No	47	4	No
1146	1		0	48	47	1	No	47	1	No	47	1	No	46	2	No	45	3	No	44	4	No
1147	1		0	47	46	1	No	46	1	No	45	2	No	44	3	No	43	4	No	43	4	No
1148	1		0	46	45	1	No	45	1	No	45	1	No	44	2	No	43	3	No	42	4	No
1149	1		0	45	45	0	No	44	1	No	44	1	No	43	2	No	42	3	No	41	4	No
1150	1		0	46	45	1	No	45	1	No	44	2	No	44	2	No	43	3	No	42	4	No
1151	1		0	45	44	1	No	44	1	No	43	2	No	43	2	No	42	3	No	41	4	No
1160	1		0	57	56	1	No	56	1	No	55	2	No	55	2	No	54	3	No	54	3	No

Alt B Barrier J

Alternative B
Noise Barrier J

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	835 ft	835 ft	835 ft	835 ft	835 ft	835 ft
Wall Cost per sq ft:	\$20					
Cost of items critical to safety:						
# of First Row Receivers:	3					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
1161	1		0	55	55	0	No	54	1	No	54	1	No	54	1	No	53	2	No	53	2	No
1162	1		0	54	54	0	No	54	0	No	53	1	No	53	1	No	53	1	No	52	2	No
1163	1		0	53	53	0	No	52	1	No	52	1	No	52	1	No	51	2	No	51	2	No
1164	1		0	52	51	1	No	51	1	No	50	2	No	50	2	No	49	3	No	48	4	No
1165	1		0	50	49	1	No	49	1	No	48	2	No	48	2	No	47	3	No	46	4	No
1166	1		0	48	47	1	No	47	1	No	47	1	No	46	2	No	46	2	No	45	3	No
1174	1	Yes	1	71	67	4	No	64	7	Yes	63	8	Yes	61	10	Yes	60	11	Yes	59	12	Yes
1175	1	Yes	1	72	66	6	No	64	8	Yes	63	9	Yes	61	11	Yes	61	11	Yes	60	12	Yes
1176	1		0	57	57	0	No	57	0	No	56	1	No	56	1	No	55	2	No	55	2	No
1177	1		0	57	57	0	No	57	0	No	56	1	No	56	1	No	55	2	No	55	2	No
1178	1		0	58	57	1	No	57	1	No	56	2	No	56	2	No	56	2	No	55	3	No
1179	1		0	58	57	1	No	57	1	No	56	2	No	56	2	No	56	2	No	55	3	No
1180	1		0	58	57	1	No	57	1	No	56	2	No	56	2	No	56	2	No	55	3	No
1181	1		0	58	57	1	No	57	1	No	57	1	No	56	2	No	56	2	No	55	3	No
1182	1		0	58	58	0	No	57	1	No	57	1	No	57	1	No	56	2	No	56	2	No
1183	1		0	58	58	0	No	57	1	No	57	1	No	57	1	No	56	2	No	56	2	No
1184	1		0	58	58	0	No	57	1	No	57	1	No	57	1	No	56	2	No	56	2	No
1185	1		0	58	58	0	No	57	1	No	57	1	No	57	1	No	56	2	No	56	2	No
1186	1		0	58	58	0	No	57	1	No	57	1	No	57	1	No	56	2	No	56	2	No
1187	1		0	58	58	0	No	57	1	No	57	1	No	57	1	No	57	1	No	56	2	No
1188	1		0	58	58	0	No	57	1	No	57	1	No	57	1	No	57	1	No	56	2	No
1189	1		0	58	58	0	No	57	1	No	57	1	No	57	1	No	57	1	No	56	2	No
1190	1		0	48	47	1	No	47	1	No	46	2	No	45	3	No	45	3	No	44	4	No
1191	1		0	41	41	0	No	41	0	No	41	0	No	41	0	No	41	0	No	40	1	No
1192	1		0	41	41	0	No	41	0	No	41	0	No	41	0	No	41	0	No	40	1	No
1193	1		0	41	41	0	No	41	0	No	41	0	No	40	1	No	40	1	No	40	1	No
1194	1		0	41	41	0	No	41	0	No	41	0	No	40	1	No	40	1	No	40	1	No
1195	1		0	51	50	1	No	50	1	No	50	1	No	49	2	No	49	2	No	47	4	No
1196	1		0	43	43	0	No	43	0	No	42	1	No	42	1	No	42	1	No	42	1	No
1197	1		0	40	40	0	No	40	0	No	40	0	No	40	0	No	40	0	No	39	1	No
1198	1		0	41	41	0	No	41	0	No	41	0	No	40	1	No	40	1	No	40	1	No
1199	1		0	47	46	1	No	46	1	No	46	1	No	45	2	No	45	2	No	43	4	No
1200	1		0	44	44	0	No	44	0	No	43	1	No	43	1	No	43	1	No	42	2	No
1201	1		0	43	43	0	No	43	0	No	43	0	No	43	0	No	43	0	No	43	0	No
1202	1		0	45	45	0	No	45	0	No	45	0	No	45	0	No	45	0	No	44	1	No
1203	1		0	51	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No

Feasibility Factors:						
# of First-Row ≥5 dBA Reduction:	1	2	2	2	2	2
% of First-Row ≥5 dBA Reduction:	33%	67%	67%	67%	67%	67%
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):	No	Yes	Yes	Yes	Yes	Yes
Reasonableness Factors:						
# of First-Row ≥7 dBA Reduction:	0	2	2	2	2	2
% of First-Row ≥7 dBA Reduction:	0%	67%	67%	67%	67%	67%
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):	No	Yes	Yes	Yes	Yes	Yes
# of Benefited (≥5 dBA Reduction):	1	2	2	2	2	6

Alternative B
Noise Barrier J

Wall Height:		7 ft		9 ft		11 ft		13 ft		15 ft		17 ft																
Wall Length:		835 ft		835 ft		835 ft		835 ft		835 ft		835 ft																
Wall Cost per sq ft:		\$20																										
Cost of items critical to safety:																												
# of First Row Receivers:		3																										
Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction						
Cost of Noise Wall (Length x Height x \$20/sq ft):							\$116,900				\$150,300				\$183,700				\$217,100				\$250,500				\$283,900	
Cost of any other items critical to safety:							0				0				0				0				0				0	
Anticipated Cost of Noise Abatement:							\$116,900				\$150,300				\$183,700				\$217,100				\$250,500				\$283,900	
Allowable Cost (\$30,000 per benefited receptor):							\$30,000				\$60,000				\$60,000				\$60,000				\$60,000				\$180,000	
Cost Effective (Anticipated Cost < Allowable Cost):							No				No				No				No				No				No	
Feasible and Reasonable:							No				No				No				No				No				No	

Alternative B
Noise Barrier K

Wall Height:	7	ft	9	ft	11	ft	13	ft	15	ft	17	ft
Wall Length:	257	ft	257	ft	257	ft	257	ft	257	ft	257	ft
Wall Cost per sq ft:	\$20											
Cost of items critical to safety:												
# of First Row Receivers:	1											

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
1233	1	Yes	1	72	68	4	No	66	6	No	66	6	No	65	7	Yes	65	7	Yes	65	7	Yes

Feasibility Factors:															
# of First-Row ≥5 dBA Reduction:							0	1		1		1		1	
% of First-Row ≥5 dBA Reduction:							0%	100%		100%		100%		100%	
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):							No	Yes		Yes		Yes		Yes	

Reasonableness Factors:																					
# of First-Row ≥7 dBA Reduction:							0	0			0			1			1			1	
% of First-Row ≥7 dBA Reduction:							0%	0%			0%			100%			100%			100%	
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):							No	No			No			Yes			Yes			Yes	

# of Benefited (≥5 dBA Reduction):							0	1			1			1			1			1	
Cost of Noise Wall (Length x Height x \$20/sq ft):							\$35,980	\$46,260			\$56,540			\$66,820			\$77,100			\$87,380	
Cost of any other items critical to safety:							0	0			0			0			0			0	
Anticipated Cost of Noise Abatement:							\$35,980	\$46,260			\$56,540			\$66,820			\$77,100			\$87,380	
Allowable Cost (\$30,000 per benefited receptor):							\$0	\$30,000			\$30,000			\$30,000			\$30,000			\$30,000	
Cost Effective (Anticipated Cost < Allowable Cost):							No	No			No			No			No			No	
Feasible and Reasonable:							No	No			No			No			No			No	

Alternative B
Noise Barrier L

Alt B Barrier L

Wall Height:		7 ft		9 ft		11 ft		13 ft		15 ft		17 ft												
Wall Length:		239 ft		239 ft		239 ft		239 ft		239 ft		239 ft												
Wall Cost per sq ft:		\$20																						
Cost of items critical to safety:																								
# of First Row Receivers:		1																						
Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction		
1234	1	Yes	1	70	68	2	No	66	4	No	66	4	No	65	5	No	65	5	No	64	6	No		
Feasibility Factors:																								
# of First-Row ≥5 dBA Reduction:							0				0				0				1				1	
% of First-Row ≥5 dBA Reduction:							0%				0%				0%				100%				100%	
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):							No				No				No				Yes				Yes	Yes
Reasonableness Factors:																								
# of First-Row ≥7 dBA Reduction:							0				0				0				0				0	0
% of First-Row ≥7 dBA Reduction:							0%				0%				0%				0%				0%	0%
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):							No				No				No				No				No	No
# of Benefited (≥5 dBA Reduction):							0				0				0				1				1	1
Cost of Noise Wall (Length x Height x \$20/sq ft):							\$33,460				\$43,020				\$52,580				\$62,140				\$71,700	\$81,260
Cost of any other items critical to safety:							0				0				0				0				0	0
Anticipated Cost of Noise Abatement:							\$33,460				\$43,020				\$52,580				\$62,140				\$71,700	\$81,260
Allowable Cost (\$30,000 per benefited receptor):							\$0				\$0				\$0				\$30,000				\$30,000	\$30,000
Cost Effective (Anticipated Cost < Allowable Cost):							No				No				No				No				No	No
Feasible and Reasonable:							No				No				No				No				No	No

Alt B Barrier M

Alternative B
Noise Barrier M

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	998 ft	non park length	998 ft	non park length	998 ft	non park length
Wall Cost per sq ft:	\$20	650 ft	650 ft	650 ft	650 ft	650 ft
Cost of items critical to safety:						
# of First Row Receivers:	3					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
1305	1		0	54	54	0	No	53	1	No	53	1	No	53	1	No	53	1	No	53	1	No
1313-2	1		0	62	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No	62	0	No
1306-1	1		0	61	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No	61	0	No
1307-2	1		0	63	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No	63	0	No
1308-1	1		0	59	58	1	No	58	1	No	58	1	No	57	2	No	57	2	No	57	2	No
1309-2	1		0	62	61	1	No	61	1	No	60	2	No	60	2	No	59	3	No	59	3	No
1314-1	1		0	61	60	1	No	59	2	No	59	2	No	59	2	No	58	3	No	58	3	No
1315-2	1		0	63	63	0	No	62	1	No	62	1	No	61	2	No	61	2	No	60	3	No
1315-3	1		0	65	65	0	No	64	1	No	64	1	No	63	2	No	63	2	No	62	3	No
1317-1	1		0	61	60	1	No	59	2	No	59	2	No	58	3	No	58	3	No	58	3	No
1318-2	1		0	63	63	0	No	62	1	No	62	1	No	61	2	No	61	2	No	60	3	No
1319-3	1		0	65	65	0	No	64	1	No	64	1	No	63	2	No	63	2	No	62	3	No
1320-1	1		0	61	60	1	No	59	2	No	59	2	No	58	3	No	58	3	No	57	4	No
1321-2	1		0	64	63	1	No	62	2	No	62	2	No	61	3	No	60	4	No	59	5	No
1322-3	1		0	65	65	0	No	65	0	No	64	1	No	63	2	No	62	3	No	62	3	No
1323-1	1		0	61	60	1	No	59	2	No	59	2	No	58	3	No	58	3	No	57	4	No
1324-2	1		0	64	64	0	No	63	1	No	62	2	No	61	3	No	60	4	No	59	5	No
1325-3	1		0	65	65	0	No	65	0	No	65	0	No	64	1	No	63	2	No	62	3	No
1261-1	1	Yes	1	64	62	2	No	61	3	No	60	4	No	59	5	No	58	6	No	58	6	No
1262-2	1		0	67	67	0	No	67	0	No	65	2	No	63	4	No	62	5	No	60	7	Yes
1263-3	1		0	68	68	0	No	68	0	No	68	0	No	68	0	No	67	1	No	66	2	No
1264-1	1	Yes	1	64	62	2	No	61	3	No	60	4	No	59	5	No	58	6	No	58	6	No
1265-2	1		0	67	67	0	No	66	1	No	64	3	No	62	5	No	61	6	No	59	8	Yes
1266-3	1		0	68	68	0	No	68	0	No	68	0	No	68	0	No	67	1	No	66	2	No
1294-1	1		0	58	57	1	No	56	2	No	55	3	No	55	3	No	54	4	No	54	4	No
1295-2	1		0	61	61	0	No	59	2	No	57	4	No	56	5	No	55	6	No	54	7	Yes
1296-3	1		0	63	63	0	No	63	0	No	63	0	No	61	2	No	59	4	No	57	6	No
1273-1	1		0	60	58	2	No	57	3	No	56	4	No	55	5	No	55	5	No	54	6	No
1274-2	1		0	63	63	0	No	62	1	No	60	3	No	59	4	No	58	5	No	57	6	No
1275-3	1		0	64	64	0	No	64	0	No	64	0	No	64	0	No	62	2	No	60	4	No
1276-1	1		0	58	57	1	No	56	2	No	55	3	No	54	4	No	54	4	No	53	5	No
1277-2	1		0	61	61	0	No	60	1	No	58	3	No	57	4	No	57	4	No	55	6	No
1278-3	1		0	63	63	0	No	63	0	No	62	1	No	61	2	No	59	4	No	58	5	No
1279-1	1		0	57	56	1	No	55	2	No	55	2	No	54	3	No	53	4	No	53	4	No
1280-2	1		0	60	60	0	No	59	1	No	58	2	No	57	3	No	56	4	No	55	5	No
1281-3	1		0	62	62	0	No	62	0	No	60	2	No	60	2	No	58	4	No	57	5	No
1282-1	1		0	55	55	0	No	55	0	No	54	1	No	53	2	No	53	2	No	53	2	No
1283-2	1		0	59	59	0	No	58	1	No	57	2	No	56	3	No	56	3	No	55	4	No
1284-3	1		0	61	61	0	No	60	1	No	59	2	No	58	3	No	57	4	No	57	4	No
1297-1	1		0	54	54	0	No	54	0	No	54	0	No	53	1	No	53	1	No	53	1	No
1298-2	1		0	58	57	1	No	57	1	No	57	1	No	56	2	No	56	2	No	55	3	No
1299-1	1		0	56	56	0	No	56	0	No	56	0	No	55	1	No	55	1	No	55	1	No
1300-2	1		0	59	58	1	No	58	1	No	58	1	No	58	1	No	58	1	No	57	2	No
1301-1	1		0	56	55	1	No	55	1	No	55	1	No	55	1	No	55	1	No	55	1	No
1302-2	1		0	58	58	0	No	58	0	No	58	0	No	57	1	No	57	1	No	57	1	No

Alt B Barrier M

Alternative B
Noise Barrier M

Wall Height:	7 ft	9 ft	11 ft	13 ft	15 ft	17 ft
Wall Length:	998 ft	non park length	998 ft	non park length	998 ft	non park length
Wall Cost per sq ft:	\$20	650 ft	650 ft	650 ft	650 ft	650 ft
Cost of items critical to safety:						
# of First Row Receivers:	3					

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
1303-1	1		0	54	54	0	No	54	0	No	54	0	No	54	0	No	53	1	No	53	1	No
1304-2	1		0	57	56	1	No	56	1	No	56	1	No	56	1	No	56	1	No	56	1	No
1285-1	1		0	53	52	1	No	52	1	No	51	2	No	51	2	No	50	3	No	50	3	No
1286-2	1		0	57	55	2	No	55	2	No	54	3	No	54	3	No	53	4	No	52	5	No
1287-3	1		0	58	58	0	No	58	0	No	57	1	No	56	2	No	56	2	No	56	2	No
1288-1	1		0	55	54	1	No	53	2	No	53	2	No	52	3	No	52	3	No	52	3	No
1289-2	1		0	58	57	1	No	56	2	No	55	3	No	54	4	No	53	5	No	52	6	No
1290-3	1		0	59	59	0	No	58	1	No	58	1	No	57	2	No	56	3	No	56	3	No
1291-1	1		0	55	53	2	No	53	2	No	52	3	No	51	4	No	51	4	No	51	4	No
1292-2	1		0	58	57	1	No	56	2	No	54	4	No	54	4	No	53	5	No	53	5	No
1293-3	1		0	59	59	0	No	59	0	No	58	1	No	57	2	No	56	3	No	55	4	No
1270-1	1		0	50	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No
1271-2	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No
1272-3	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No
1267-1	1		0	53	52	1	No	52	1	No	52	1	No	52	1	No	52	1	No	51	2	No
1268-2	1		0	56	56	0	No	55	1	No	55	1	No	54	2	No	54	2	No	54	2	No
1269-3	1		0	56	56	0	No	56	0	No	56	0	No	56	0	No	55	1	No	55	1	No
1326-1	1		0	48	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No
1327-2	1		0	50	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No
1328-3	1		0	51	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No
1329-1	1		0	48	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No
1330-2	1		0	50	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No	50	0	No
1331-3	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No
1332-1	1		0	48	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No	48	0	No
1333-2	1		0	51	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No	51	0	No
1334-3	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No
1335-1	1		0	49	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No	49	0	No
1336-2	1		0	52	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No	52	0	No
1337-3	1		0	53	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No	53	0	No
1310-1	1		0	57	56	1	No	56	1	No	55	2	No	55	2	No	55	2	No	54	3	No
1311-2	1		0	60	59	1	No	59	1	No	58	2	No	58	2	No	57	3	No	57	3	No
1312-1	1		0	60	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No	60	0	No
1338	1	Yes	1	59	58	1	No	58	1	No	57	2	No	56	3	No	56	3	No	55	4	No

Feasibility Factors:											
# of First-Row ≥5 dBA Reduction:	0	0	0	2	2	2					
% of First-Row ≥5 dBA Reduction:	0%	0%	0%	67%	67%	67%					
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):	No	No	No	Yes	Yes	Yes					
Reasonableness Factors:											
# of First-Row ≥7 dBA Reduction:	0	0	0	0	0	0					
% of First-Row ≥7 dBA Reduction:	0%	0%	0%	0%	0%	0%					
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):	No	No	No	No	No	No					
# of Benefited (per Benefited Receptors Allowable Cost Portion):	0	0	0	5	9	18					
# of Benefited (per Linear Foot Allowable Cost Portion):	0	0	0	0	0	0					
Total # of Benefited:	TRUE	0	TRUE	0	TRUE	5	TRUE	9	TRUE	18	
Cost of Noise Wall (Length x Height x \$20 per sq ft):	\$230,720	\$296,640	\$362,560	\$428,480	\$494,400	\$560,320					

Alt B Barrier M

Alternative B
Noise Barrier M

Wall Height:	7	ft	9	ft	11	ft	13	ft	15	ft	17	ft
Wall Length:	998	ft	non park length	998	ft	non park length	998	ft	non park length	998	ft	non park length
Wall Cost per sq ft:	\$20	650	ft	park length	650	ft	park length	650	ft	park length	650	ft
Cost of items critical to safety:												
# of First Row Receivers:	3											

Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction
Cost of any other items critical to safety:							0				0				0				0			
Anticipated Cost of Noise Abatement:							\$230,720				\$296,640				\$362,560				\$428,480			
Allowable Cost (\$30,000 per Benefited Receptor):							\$0				\$0				\$0				\$150,000			
Allowable Cost (\$360 per Linear Foot):							\$234,000				\$234,000				\$234,000				\$234,000			
Total Allowable Cost:							\$234,000				\$234,000				\$234,000				\$384,000			
Cost Effective (Anticipated Cost < Allowable Cost):							Yes				No				No				No			
Feasible and Reasonable:							No				No				No				No			

Alt B Barrier N																																										
Alternative B																																										
Noise Barrier N																																										
Wall Height:		7 ft					9 ft					11 ft					13 ft					15 ft					17 ft															
Wall Length:		1271 ft					1271 ft					1271 ft					1271 ft					1271 ft					1271 ft															
Wall Cost per sq ft:		\$20																																								
Cost of items critical to safety:																																										
# of First Row Receivers:		1																																								
Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction																				
1339	1	Yes	1	61	61	0	No	60	1	No	59	2	No	58	3	No	58	3	No	57	4	No																				
Feasibility Factors:																																										
# of First-Row ≥5 dBA Reduction:							0	0							0							0																				
% of First-Row ≥5 dBA Reduction:							0%	0%							0%							0%																				
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):							No	No							No							No																				
Reasonableness Factors:																																										
# of First-Row ≥7 dBA Reduction:							0	0							0							0																				
% of First-Row ≥7 dBA Reduction:							0%	0%							0%							0%																				
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):							No	No							No							No																				
# of Benefited (≥5 dBA Reduction):							0	0							0							0																				
Cost of Noise Wall (Length x Height x \$20/sq ft):							\$177,940	\$228,780							\$279,620							\$330,460							\$381,300							\$432,140						
Cost of any other items critical to safety:							0	0							0							0							0													
Anticipated Cost of Noise Abatement:							\$177,940	\$228,780							\$279,620							\$330,460							\$381,300							\$432,140						
Allowable Cost (\$360 per Linear Foot):							\$457,560	\$457,560							\$457,560							\$457,560							\$457,560							\$457,560						
Cost Effective (Anticipated Cost < Allowable Cost):							Yes	Yes							Yes							Yes							Yes													
Feasible and Reasonable:							No	No							No							No							No													

Alternative B
Noise Barrier O

Wall Height:		7 ft		9 ft		11 ft		13 ft		15 ft		17 ft											
Wall Length:		1128 ft		1128 ft		1128 ft		1128 ft		1128 ft		1128 ft											
Wall Cost per sq ft:		\$20																					
Cost of items critical to safety:																							
# of First Row Receivers:		1																					
Name	# of DU	1st Row	# of 1st Row	Baseline Noise Level	7-ft Noise Level	7-ft Noise Reduction	Design Goal ≥7 dBA Reduction	9-ft Noise Level	9-ft Noise Reduction	Design Goal ≥7 dBA Reduction	11-ft Noise Level	11-ft Noise Reduction	Design Goal ≥7 dBA Reduction	13-ft Noise Level	13-ft Noise Reduction	Design Goal ≥7 dBA Reduction	15-ft Noise Level	15-ft Noise Reduction	Design Goal ≥7 dBA Reduction	17-ft Noise Level	17-ft Noise Reduction	Design Goal ≥7 dBA Reduction	
1340	1	Yes	1	60	59	1	No	59	1	No	59	1	No	59	1	No	58	2	No	58	2	No	
Feasibility Factors:																							
# of First-Row ≥5 dBA Reduction:							0	0							0								
% of First-Row ≥5 dBA Reduction:							0%	0%							0%								
Acoustic Feasibility (≥5 dBA reduction for 50% of front-row):							No	No							No								
Reasonableness Factors:																							
# of First-Row ≥7 dBA Reduction:							0	0							0								
% of First-Row ≥7 dBA Reduction:							0%	0%							0%								
Noise Abatement Design Goal (≥7 dBA reduction for 35% of front-row):							No	No							No								
# of Benefited (≥5 dBA Reduction):							0	0							0								
Cost of Noise Wall (Length x Height x \$20/sq ft):							\$157,920	\$203,040							\$293,280								
Cost of any other items critical to safety:							0	0							0								
Anticipated Cost of Noise Abatement:							\$157,920	\$203,040							\$293,280								
Allowable Cost (\$360 per Linear Foot):							\$406,080	\$406,080							\$406,080								
Cost Effective (Anticipated Cost < Allowable Cost):							Yes	Yes							Yes								
Feasible and Reasonable:							No	No							No								