Appendix G. Noise Analysis



I-39/90/94 Corridor Study

Technical Memorandum

Traffic Noise Analysis

May 2024

Wisconsin Department of Transportation

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1. Introduction

1.1. Purpose of this Report

The Wisconsin Department of Transportation (WisDOT) and the Federal Highway Administration (FHWA) are conducting the I-39/90/94 Corridor Study between US Highway (US) 12/18 in Madison and US 12/ Wisconsin State Highway (WIS) 16 in Wisconsin Dells. The study will also evaluate I-39 from its split with I-90/94 (I-39 I-90/94 Split Interchange) to Levee Road near Portage. This technical report evaluates the potential noise impacts and analyzes potential abatement for the proposed completion of the I-39/90/94 Corridor Study based on existing and proposed traffic data and conceptual engineering designs for the study.

The determination of noise abatement measures and locations is within the framework of the WisDOT Facilities Development Manual, Chapter 23, Noise (FDM 23). FDM 23 is WisDOT's FHWA-approved noise policy consistent with Code of Federal Regulations, Title 23 Part 772 (23 CFR 772).

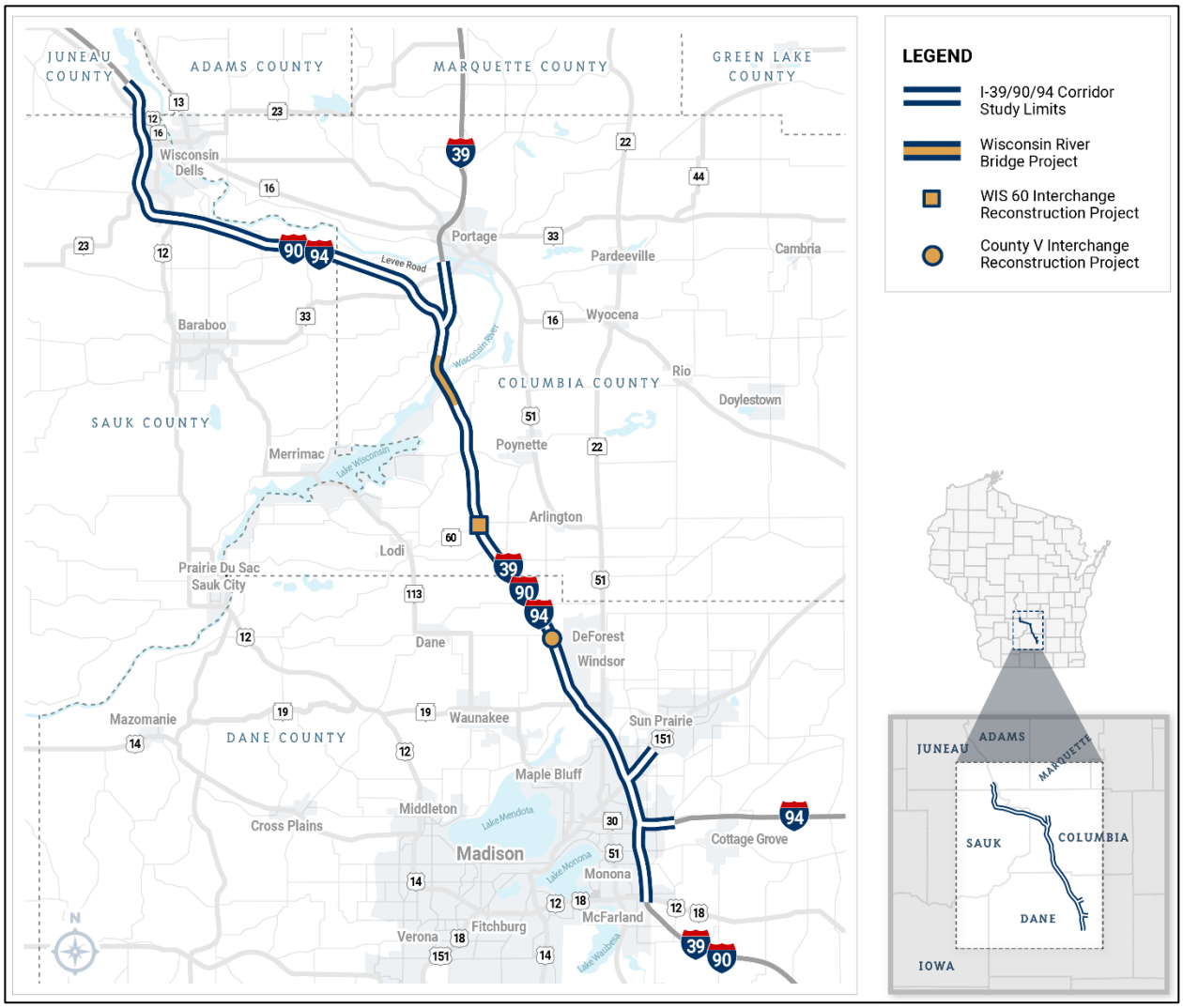
The purpose of the I-39/90/94 Corridor Study is to address existing and future traffic demands, safety issues, aging and outdated infrastructure and corridor resiliency. The study also strives to minimize impacts to the natural, cultural and built environment to the extent feasible and practicable.

1.2. Project Description

The I-39/90/94 Corridor Study begins with the southern terminus at the I-39/90 and US 12/18 Interchange in Madison and ends at the northern terminus north of the US 12/WIS 16 Interchange in Wisconsin Dells. The study also includes I-39 from the I-39 I-90/94 Split Interchange to Levee Road near Portage. Evaluation of the influence of the US 151/High Crossing Boulevard Interchanges extends the study corridor along US 151 to American Parkway/Nelson Road. A potential new interchange on I-94 at Milwaukee Street similarly extends the study corridor east along I-94. The study corridor is about 67 miles long and travels through Dane, Columbia, Sauk and Juneau counties (see **Figure 1-1**). Other projects within the study corridor that are under separate study include the I-39/90/94 bridges over the Wisconsin River, the WIS 60 Interchange reconstruction and the reconstruction of County V (also shown in **Figure 1-1**).

The noise analysis evaluated the build alternatives identified for the freeway and interchanges. The noise study area is shown on the figures in **Attachment A** and includes an approximate 500-foot boundary around the limits of the study.

Figure 1-1: Study Corridor Geographic Location



The study corridor is described by geographic locations and has been analyzed for potential noise impacts within the following two sections (see **Figure 1-2**):

- South Section: I-39/90/94 between US 12/18 and WIS 60
- North Section: I-39/90/94 between WIS 60 and US 12/WIS 16 and I-39 from the I-39 I-90/94 Split to Levee Road

1.2.1. South Section

The South Section is 23 miles long. The corridor is a 6-lane divided freeway, which widens to eight lanes for 2.5 miles between the I-94/WIS 30 and US 151 interchanges. All locations along the South Section have 12-foot lane widths, 12-foot or greater paved shoulders along the median and 11-foot shoulders along the outside lane. The South Section contains seven interchanges:

- Three system interchanges: US 12/18, I-94/WIS 30 and US 151 (includes High Crossing Boulevard)
- Four service interchanges: US 51, WIS 19, County V and WIS 60

Spacing between interchanges is typically 2 to 4 miles, with 7 miles between County V and WIS 60. The south corridor contains 59 bridges and four box culverts.

1.2.2. North Section

The North Section is characterized by two distinct subsections:

WIS 60 to I-39 I-90/94 Split Interchange and I-39 to Levee Road. North of WIS 60, the study corridor travels 11 miles to the I-39 I-90/94 Split Interchange and then continues 3 miles north on I-39 to Levee Road. I-39/90/94 is a 6-lane divided freeway, which narrows to 4 lanes for the 3 miles between the I-39 I-90/94 Split Interchange and Levee Road. This section of the study corridor has 12-foot lane widths with paved inside shoulder widths varying from 4 to 12 feet and outside shoulder widths varying from 4 to 11 feet. This 11-mile section contains four interchanges:

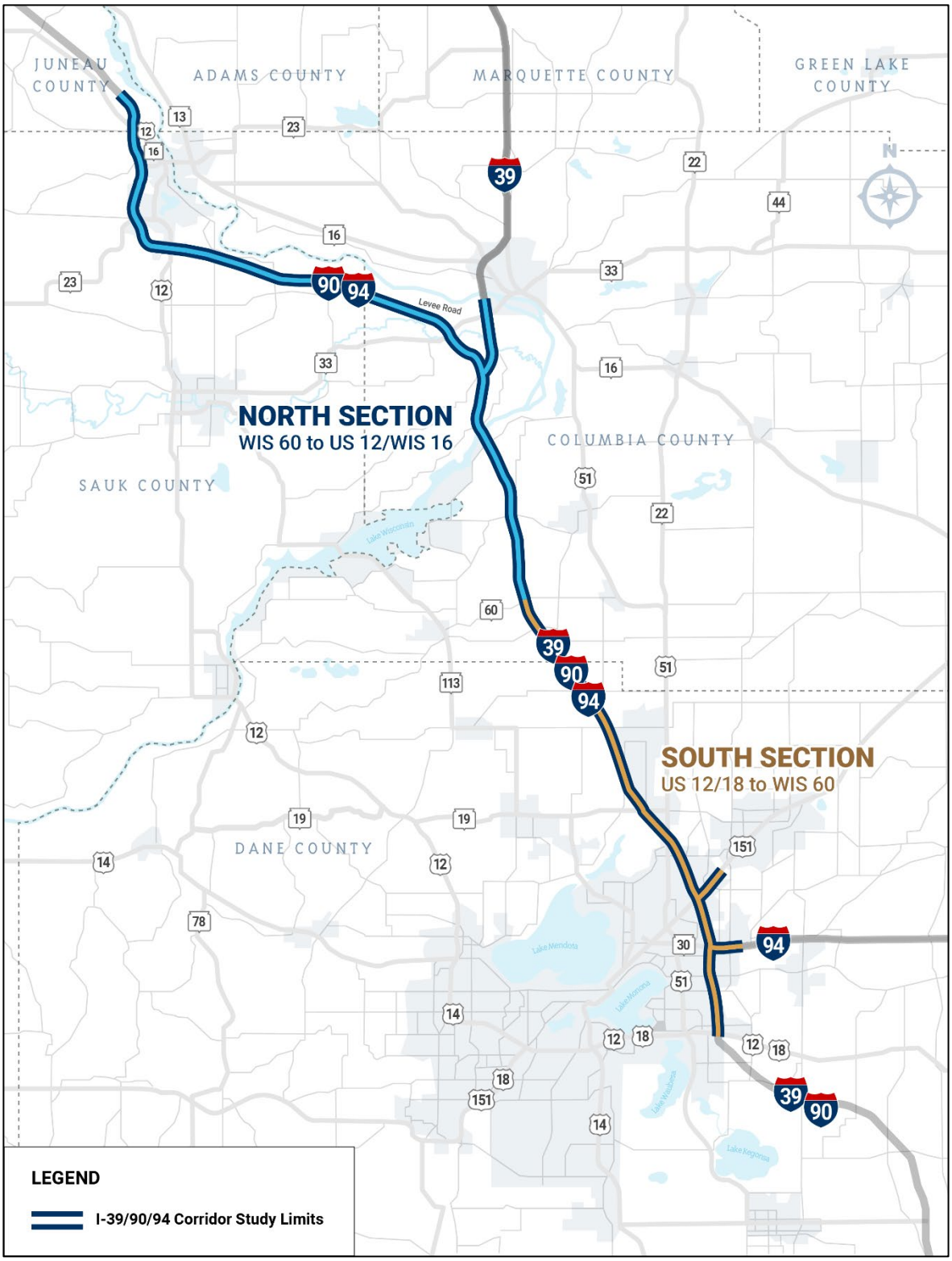
- One system interchange: I-39/90/94/WIS 78 (the I-39 I-90/94 Split)
- One service interchange on I-39/90/94: County CS
- Two service interchanges on I-39: Cascade Mountain Road and WIS 33

There are 4 miles between WIS 60 and County CS, 7 miles between County CS and the I-39 I-90/94 Split Interchange, 0.50 miles from the I-39 I-90/94 Split Interchange to Cascade Mountain Road and 2 miles between Cascade Mountain Road and WIS 33. The next interchange is beyond the study limits. There are 30 bridges and five box culverts.

I-39 I-90/94 Split Interchange to US 12/WIS 16. From the I-39 I-90/94 Split, the I-90/94 study corridor continues 25 miles to Dees Road, approximately 3,000 feet north of the US 12/WIS 16 interchange. This section has five service interchanges: WIS 33, US 12, WIS 23, WIS 13 and US 12/WIS 16. Spacing between interchanges is typically 2 miles, with 13 miles between WIS 33 and US 12.

I-90/94 is a 4-lane divided freeway for nearly the entire length; the highway narrows from three to two lanes in the westbound lanes 1 mile west of the I-39 I-90/94 Split Interchange and widens from two to three lanes eastbound at the I-39 I-90/94 Split Interchange. This section of the study corridor has 12-foot lane widths with paved inside shoulder widths varying from 4 to 12 feet and outside shoulder widths varying from 4 to 11 feet. There are 24 bridges and one box culvert in this section.

Figure 1-2: Study Corridor North and South Sections



1.2.3. Common Noise Environments

Along with these two sections, the study corridor was considered as three separate Common Noise Environments (CNEs) for the purposes of cost averaging noise abatement. The CNEs are shown in **Figure 1-3**. FDM 23, Section 23-35-15 describes the process of cost averaging multiple noise barriers within common noise environments as part of the reasonableness determination. A common noise environment generally includes receptors of similar land use that are exposed to similar noise sources and levels, traffic volumes, traffic mix and speed and topographic features. The following CNEs were identified based on the land use and traffic information available for the corridor:

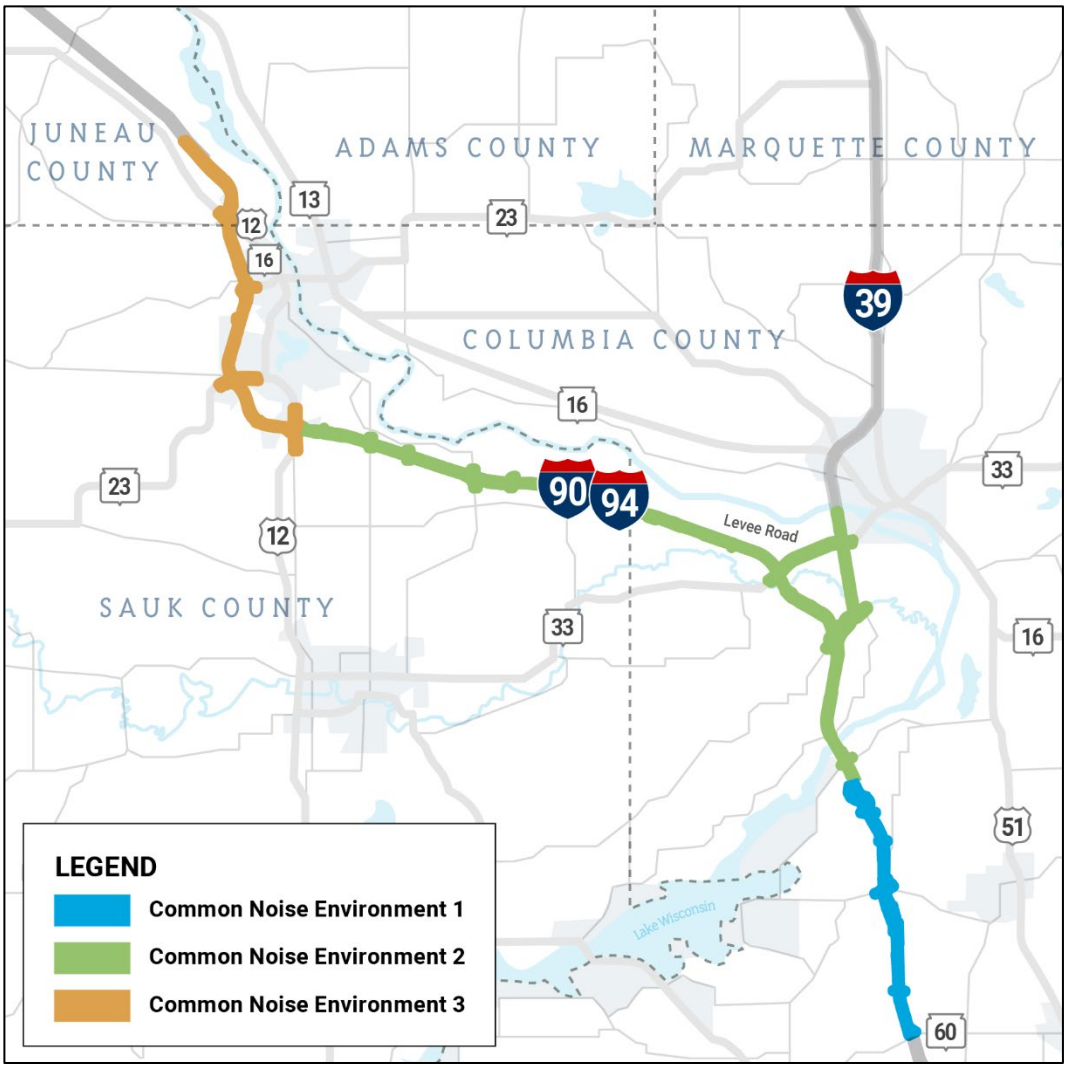
- CNE 1: Greater Madison area from the southern terminus at the US 12/18 interchange to County V
- CNE 2: Rural Dane, Columbia and Sauk counties from County V to approximately US 12, including I-39 from the I-90/94 Split to Levee Road
- CNE 3: Greater Wisconsin Dells area from approximately US 12 to the northern terminus north of the US 12/WIS 16 Interchange

For CNE 1, the land use generally consists of denser neighborhoods and businesses associated with the Greater Madison urban/suburban area. The traffic volumes along I-39/90/94 in Dane County indicate commuter traffic patterns with more than double the volumes on ramps to/from the south (heading toward Madison) versus ramps to/from the north (heading away from Madison). Mainline volumes are a mix of commuter, regional/recreational and freight traffic. Ramp and mainline volumes are highest in this section of the study corridor due to the mix of users.

For CNE 2, land use is more sparse consisting of a few neighborhood roads, scattered farmhouses and businesses that are not in close proximity to each other. There are also State nature and wildlife areas where no noise-sensitive land use is present. Volumes at all interchanges are lower than those in Dane County. Mainline volumes are lower in commuter travel compared to regional/recreational and freight.

For CNE 3, land use becomes denser with more residential neighborhoods and Wisconsin Dells outdoor use at various hotels, parks and other recreational properties. Traffic volumes in the Wisconsin Dells (points west of County A) show a varied pattern with ramps to/from Madison generally having higher volumes. Ramps at US 12 South, WIS 23 and WIS 13 to/from the south provide local connectivity around the Wisconsin Dells recreational area and have higher traffic volumes than other ramps.

Figure 1-3. Study Corridor Common Noise Environments



2. Legislation and Noise Fundamentals

2.1. Basic Noise Information

Noise is generally defined as unwanted sound. Airborne sound is what we hear when there are rapid fluctuations (or variations) in air pressure above and below atmospheric pressure. The ear is sensitive to these pressure variations and perceives them as sound. The intensity of these pressure variations causes the ear to discern different levels of loudness.

Sound pressure levels are measured and expressed in decibels (dB). The dB scale is logarithmic and expresses the ratio of the sound pressure level being measured to a standard reference level. The decibel scale audible to humans spans approximately 140 dB. A level of zero decibels corresponds to the lower limit of audibility, while 140 dB produces a sensation more like pain than sound. The decibel scale is a logarithmic representation of the actual sound pressure variations. Therefore, a 26 percent change in the energy level only changes the sound level 1 dB. The human ear would not detect this change except in a controlled environment. A doubling of the energy level would result in a 3-dB increase, which would be barely perceptible in the natural environment. A tripling of the energy level would result in a clearly noticeable 5-dB increase in the sound level. A change of 10 times the energy level would result in a 10-dB change in the sound level. This would be perceived as a doubling (or halving) of the apparent loudness.

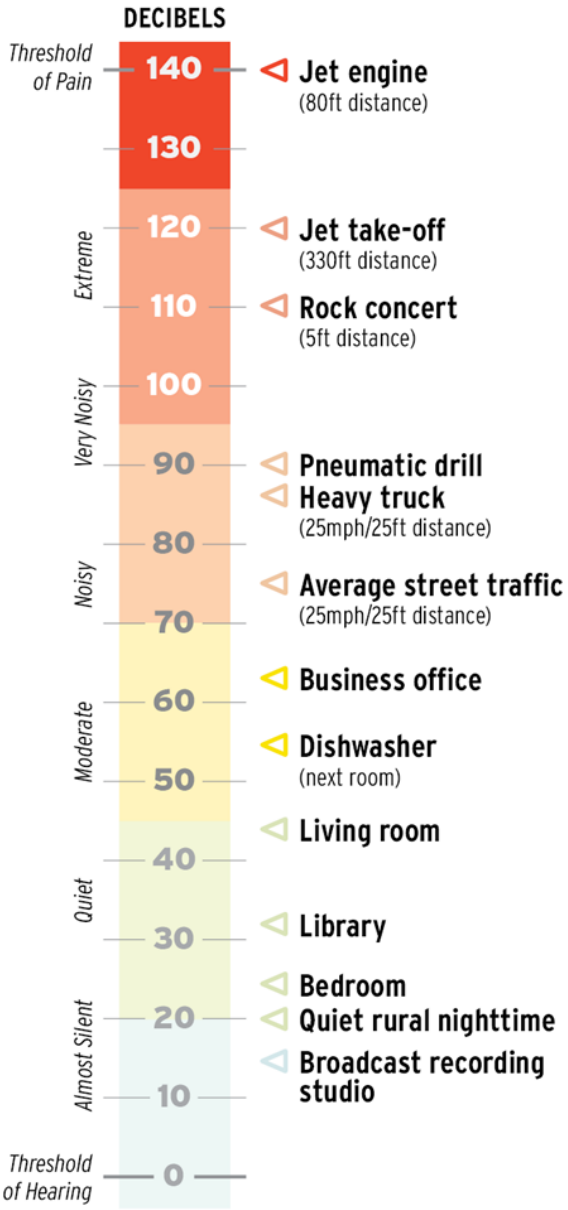
Most sounds occurring in the environment do not consist of a single frequency, but rather a broadband of differing frequencies. Because the human ear does not respond to all frequencies equally, weighting scales are used to define the relative loudness of different frequencies. The “A” weighting scale is widely used in environmental work because it closely resembles the non-linearity of human hearing. The A-weighted sound level in decibels is identified as dBA.

Traffic noise is not constant. It varies as each vehicle passes through a certain location. The time-varying characteristics of environmental noise are analyzed statistically to determine the duration and intensity of noise exposure. In an urban environment, noise is made up of two distinct parts. One is ambient or background noise. Wind noise and distant traffic noise make up the acoustical environment surrounding the study corridor. These sounds are not readily recognized but combine to produce a non-irritating ambient sound level. This background sound level varies throughout the day, being lowest at night and highest during the day. The other component of urban noise is intermittent and louder than the background noise. Transportation noise and local industrial noise are examples of this type of noise.

It is necessary to use a method of measure that will account for the time-varying nature of sound when studying environmental noise. The equivalent sound pressure level (L_{eq}) is defined as the continuous steady sound level that would have the same total A-weighted sound energy as the real fluctuating sound measured over a given period of time. As a result, the three characteristics of noise combine to form a single descriptor (L_{eq} in dBA) that is used to evaluate human response to noise. The time-period used to determine traffic noise levels is one hour and uses the descriptor $L_{eq(h)}$.

Figure 2-1 provides sound levels of typical noise sources.

Figure 2-1: Sound Levels of Typical Noise Sources



Source: Adopted from "Environmental Criteria for Road Traffic Noise", Environmental Protection Authority, South Sydney, NSW, May 1999, Page 38.

2.2. Federal Regulations and Guidance

The Noise Control Act of 1972 gave the US Environmental Protection Agency (USEPA) the authority to establish noise regulations to control major noise sources, including motor vehicles and construction equipment. Furthermore, the USEPA was required to set noise emission standards for motor vehicles used for interstate commerce and FHWA was required to enforce the USEPA noise emission standards through the Office of Motor Carrier Safety.

The National Environmental Policy Act (NEPA) gives broad authority and responsibility to Federal agencies to evaluate and mitigate adverse environmental impacts caused by Federal actions. FHWA is required to comply with NEPA including mitigating adverse highway traffic noise effects. The Federal-Aid Highway Act of 1970 mandates FHWA to develop standards for mitigating highway traffic noise. It also requires FHWA to establish traffic noise level criteria for various types of land uses. The Act prohibits FHWA approval of federal-aid highway projects unless adequate consideration has been made for noise abatement measures to comply with the standards.

The FHWA regulations for highway traffic noise for federal-aid highway projects are contained in *Procedures for Abatement of Highway Traffic Noise and Construction Noise* as presented in the 23 CFR 772, July 2010. This regulation and related guidance documents set forth the process for performing a traffic noise analysis. The process includes the following:

1. Identification of highway traffic noise impacts;
2. Examination of potential abatement measures;
3. Gathering of public input approval for reasonable and feasible abatement measures;
4. Incorporation of reasonable and feasible highway traffic noise abatement measures into the highway project;
5. Coordination with local officials to provide helpful information on compatible land use planning and control; and
6. Identification and incorporation of necessary measures to abate construction noise.

The highway traffic noise impact identification process involves a review of the existing land use activity categories that parallel the highway corridor and determining existing and future noise levels within those areas. Existing land uses are identified by inspecting aerial photography and performing site reconnaissance. Highway traffic noise analyses are also performed for undeveloped lands that have received a building permit.

After the existing and proposed land uses are established, traffic noise levels are measured along the corridor with simultaneous traffic counts. The measured noise levels are then compared to modeled noise levels based on the traffic counts. The model is validated if measured highway traffic noise levels and predicted highway traffic noise levels for the existing conditions are within +/- 3 dBA. This modeling, as required by the FHWA, is performed with Traffic Noise Model Version 2.5 (TNM2.5).[1] Once the model is validated, TNM2.5 is used to model the existing and the future build loudest hour for traffic noise.

TNM2.5 estimates vehicle noise emissions based on mean (average) noise emission levels for five classes of vehicles used for this analysis: automobiles, medium trucks (2-axle) and heavy trucks (3-axle or more), buses and motorcycles. TNM2.5 uses modeling objects called “receivers” where noise levels are predicted in the model. A receiver location is used to predict noise levels for noise-sensitive receptors and may represent multiple receptors. The following parameters were used in FHWA’s TNM2.5 model to calculate an hourly $L_{eq(h)}$ at specific receiver locations:

- Distance between roadway and receiver
- Relative elevations of roadway and receiver (all receivers are assumed to be 5 feet off the ground unless associated with an upper-level residential unit or other outdoor use)
- Hourly traffic volumes

[1] *As noted in FHWA’s December 2023 Frequently Asked Questions Traffic Noise Model 3.2, TNM 3.2 is not required for use on federal-aid highway project noise analyses until FHWA updates the noise regulations at 23 CFR 772 (FHWA 2023).*

- Vehicle speed
- Roadway grade
- Ground absorption
- Topographic features, including retaining walls and berms
- Noise source height of vehicles

Based on this input data, TNM2.5 uses its acoustic algorithms to predict noise levels at receiver locations by considering sound propagation divergence, intervening ground, barriers, building rows and topographic features.

23 CFR 772 also contains Noise Abatement Criteria (NAC), which represent the maximum acceptable level of highway traffic noise for specific types of land uses. The regulations do not mandate that the NAC be met in all situations, but rather require that feasible and reasonable efforts be made to provide noise abatement when the NAC are approached or exceeded. A traffic noise impact is defined as a future noise level that approaches or exceeds the NAC, or a future noise level that creates a substantial noise increase over existing noise levels. An approaching noise level is defined as being at least 1 dBA less than the noise level value listed in the NAC for Activity Category A through G. For Activity Category C/D land uses, NAC C is applied if an exterior use is present and NAC D is applied if there is no exterior use or if abatement (e.g., a noise barrier) for NAC C is not feasible and reasonable. The FHWA allows states to define a substantial noise increase as an increase of anywhere between 5 and 15 dBA.

After traffic noise impacts are identified, potential abatement alternatives are examined. The following abatement alternatives, which are listed in 23 CFR 772.15(c), are permitted and can be evaluated where applicable:

1. Construction of noise barriers including acquisition of property rights, either within or outside the highway right of way (ROW);
2. Traffic management measures;
3. Alteration of horizontal and vertical alignments;
4. Acquisition of real property or interests therein to serve as a buffer zone to preempt development; and
5. Noise insulation of Activity Category D land use activities listed in **Table 2-1**.

At a minimum, state highway agencies are required to consider noise abatement in the form of noise barriers.

FHWA defines feasible highway traffic noise abatement as objective engineering considerations (e.g., can a barrier be built given the topography of the location; can a substantial noise reduction be achieved given certain access, drainage, safety, or maintenance requirements; are other noise sources present in the area, etc.). An abatement measure must also achieve a noise reduction of at least 5 dBA to be considered feasible, according to 23 CFR 772.13 (d)(1)(i).

The FHWA lists three required reasonableness factors when considering noise barriers: cost effectiveness, viewpoints of benefiting receptors and achievement of noise reduction design goals. For reasonableness, 23 CFR 772.13 (d)(2)(iii) requires state Departments of Transportation to define design year noise reduction design goals somewhere between 7 and 10 dBA. FHWA lists optional reasonableness factors that can be added to but not overrule the required reasonableness factors.

2.3. State Regulatory Requirements

FHWA policy also requires each state Department of Transportation to adopt a state-specific noise policy, approved by FHWA, which defines specific terms and describes how the state implements the noise standard.

WisDOT developed FDM 23 as the state's written noise policy approved by FHWA. FDM 23 expands on 23 CFR 772 by defining the state's impact criteria, discussed in the following section, and feasibility and reasonableness criteria for abatement analysis (see **Section 4.3.1**).

FDM 23 is applicable to Type I federal-aid highway projects which involve the construction of a highway on a new location or the physical alteration of an existing highway that significantly changes either its horizontal or vertical alignment or increases the number of through traffic lanes. The structure of the policy focuses on identifying noise-sensitive land uses, predicting future noise levels, identifying potential traffic noise impacts and considering noise abatement.

A traffic noise impact occurs for a Type I project when the predicted equivalent sound levels at a receptor or common use area approach or exceed the *Noise Level Criteria*[2] *(NLC) for Considering Barriers* for any of the land uses in the study area listed in **Table 2-1**, or, when predicted future sound levels exceed existing levels by 15 dB or more. "Approach" is defined as 1 dB less than the NLC for the applicable Land Use Category. A noise receptor is a discrete or representative location placed at a noise-sensitive area, generally in an area of active human use, to determine traffic-generated noise levels. According to FDM 23, Section 23-35-5, "Land Use Category D is only used as the basis for noise impact determination in situations where no exterior activities are to be affected by the traffic noise, or where the exterior activities are far from or physically shielded from the roadway in a manner that prevents an impact on exterior activities."[3]

The NLC sound levels are only to be used to determine a roadway noise impact. These are the absolute values where abatement must be considered.

[2] *WisDOT has substituted the term "Noise Abatement Criteria" used in 23 CFR 772 with "Noise Level Criteria" throughout FDM 23 and in supporting documents. Further, Table 1 in 23 CFR 772 is the Noise Abatement Criteria for various land uses. WisDOT has adopted the land use categories, impact levels and evaluation locations in 23 CFR 772, Table 1, but refers to this table as "Noise Level Criteria for Considering Barriers". The word "Level" is used instead of "Abatement" because the department believes the use of the term "Noise Abatement Criteria" means that the noise impact levels indicated in the table require that abatement be provided. The term "Noise Level Criteria" accurately reflects the intent of the table which is to identify a sound level at which a noise impact occurs thus requiring determination of whether or not abatement is feasible, reasonable and likely to be incorporated into the project.*

[3] *Wisconsin Department of Transportation Facilities Development Manual Chapter 23 Noise Section 23-35-5.4. May 17, 2022.*

Table 2-1: Noise Level Criteria for Considering Barriers

Land Use Category	$L_{eq(h)}$[1] (dBA) (Evaluation Location)	Description of Land Use Category
A	57 (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[2]	67 (Exterior)	Residential
C[2]	67 (Exterior)	Active sport areas, amphitheaters, auditoriums, campgrounds, cemeteries, daycare centers, hospitals, libraries, medical facilities, parks, picnic areas, places of worship, playgrounds, public meeting rooms, public or non-profit institutional structures, radio studios, recording studios, recreation areas, Section 4(f) sites, schools, television studios, trails and trail crossings.
D[3]	52 (Interior)	Auditoriums, daycare centers, hospitals, libraries, medical facilities, places of worship, public meeting rooms, public or non-profit institutional structures, radio studios, recording studios, schools and television studios.
E[2]	72 (Exterior)	Hotels, motels, offices, restaurants/bars and other developed lands, properties or activities not included in 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.

[1] "L_{eq}" means the equivalent steady-state sound level, which in a stated period of time contains the same acoustic energy as the time-varying sound level during the same period. For purposes of measuring or predicting noise levels, a receptor is assumed to be at ear height, located five feet above ground surface. "$L_{eq(h)}$" means the hourly value of L_{eq}.

[2] Includes undeveloped lands permitted for this activity category or publicly owned recreation lands formally designated in a public agency's Master Plan.

[3] Use of interior noise levels shall be limited to situations where a determination has been made that exterior abatement measures will not be feasible and reasonable and after exhausting all outdoor mitigation options.

Source: Wisconsin Administrative Code – Chapter Trans 405

In accordance with the procedure in FDM 23, noise-sensitive receptors located within 500 feet of the edge of pavement of the build alternative were assessed for traffic noise impacts.[4]

Noise levels produced by highway vehicles can be attributed to three major categories:

- Running gear and accessories (tires, drive train, fan and other auxiliary equipment)
- Engine (intake and exhaust noise, radiation from engine casing)
- Aerodynamic and body noise

Tires are the dominant noise source at speeds greater than 20 to 30 mph for automobiles and 50 mph for trucks.[5] Tire sound levels increase with vehicle speed but also depend upon road surface, vehicle weight, tread design and

[4] Wisconsin Department of Transportation Facilities Development Manual Chapter 23 Noise Section 23-35-20.1. March 16, 2018.

[5] U.S. Department of Transportation Federal Highway Administration. Pavements. Sustainable Pavement Program. Tire-Pavement Noise. https://www.fhwa.dot.gov/pavement/sustainability/articles/tire_noise.cfm. Accessed March 28, 2024.

wear. Change in any of these can vary noise levels. At lower speeds, especially in trucks and buses, the dominant noise source is the engine and related accessories.

3. Affected Environment

3.1. Identification of Land Use

Noise-sensitive land use in the study area is described by geographic location below. In addition to review of aerial photography and performing site reconnaissance, information requests were initiated to municipalities along the study corridor to determine plans for future permitted or platted development. Noise-sensitive receptor locations were modeled for noise level prediction with TNM2.5 representative receivers. Each receiver represents a single point in the noise model and is representative of the noise receptors being analyzed. One receiver can represent multiple receptor units.

FDM 23, Section 23-35-15 defines how to determine the appropriate number of receptors for Land Use Category A, C, D and E facilities (or properties). Generally, each discrete parcel or property with outdoor use is counted as one receptor. Section 4(f) properties and other Land Use Category C properties are evaluated on a case-by-case basis to determine the location of TNM2.5 receivers that will each count as one receptor. WisDOT coordinated with FHWA to document the noise analysis receptors identified under Land Use Category C for Section 4(f) and other recreational outdoor use throughout the study area. For golf courses, receptor locations were identified for each hole within 500 feet of the roadway. For campgrounds, receptor locations were identified to represent each campsite within 500 feet of the roadway, with a usage factor applied based on months of the year the campground is open.

3.1.1. South Section

Aerial photos and land use data of the study area were reviewed to select 2,886 representative receivers (S1 – S1717) including 2,802 residential representative receivers, 47 recreational outdoor use representative receivers, two interior location representative receivers and 35 outdoor use representative receivers at hotels, restaurants or offices. The 2,886 representative receivers represent 3,861 total receptor units, described in the following paragraph and shown in **Table 3-1**.

There are 2,802 residential representative receivers (Land Use Category B) representing 3,777 single family and multi-family receptor units, 47 recreational outdoor use representative receivers (Land Use Category C) representing 47 receptor units at 25 facilities, including the a playground at Grace Baptist Church (1 unit), a picnic table at the City of Madison Police Department (1 unit), Heritage Prairie Park (1 unit), Joshua Circle Basketball Court (1 unit), Hiestand Woods Park (1 unit), the American Family Walking Path (1 Unit), Marsh View Bike Path (1 unit), Crosspoint Church of the Nazarene (1 unit), a playground and outdoor area at the Calvary Gospel Church (2 Units), In My Garden Bilingual Daycare (1 unit), Town Center Park (1 unit), baseball fields at Kennedy Little League (4 units), a playground at Holy Cross Lutheran Church (1 unit), Autumnwood East Bike Path (1 unit), a picnic table at Cardinal Stritch University (1 unit), two locations on the Daniel Morgan Path (2 units), Hidden Creek Path (1 unit), picnic tables at UW Health East Clinic (1 unit), an event center (1 unit), Token Creek Path (1 unit), a playground at Living Stone of Jesus (1 unit), eight holes at the Vallarta-Ast Disc Golf Course (8 units), Token Creek Park (1 unit), nine holes at Lake Windsor Country Club Golf Course (9 units), and three fields at the DeForest Athletic Complex (3 units), two interior use representative receivers (Land Use Category D) representing Madison Fire Station (1 unit) and the SSM Health Emergency Center (1 unit), and 35 hotel, restaurant, or office representative receivers (Land Use Category E) representing 35 receptor units at 32 facilities, including Comfort Inn and Suites Madison East (1 unit), GE Healthcare (1 unit), Tienda y taqueria la bonita (1 unit), Eagle Crest Bar (2 units), Bowl-A-Vard (1 unit), Microtel Inn & Suites by Wyndham Madison East (1 unit), Cracker Barrel Old Country

Store (1 unit), Home 2 Suites & Tru by Hilton (1 unit), Best Western East Towne Suites (1 unit), Dave's Hot Chicken (1 unit), Dickey's Barbecue Pit (1 unit), Potbelly (1 unit), Texas Roadhouse (1 unit), URUS Office Building (1 unit), Courtyard by Marriott Madison East (1 unit), Fairfield Inn & Suites by Marriott Madison East (1 unit), Park Bank Office Building (1 unit), La Taguara Bar & Grill (1 unit), Holiday Inn Express & Suites Madison (1 unit), Residence Inn by Marriott Madison East (1 unit), US Cellular Business Office Building (1 unit), Aerotek Office Building (1 unit), Johnson Bank Office Building (3 units), La Quinta Inn & Suites by Wyndham Madison American Center (1 unit), Happy Wok (1 unit), Highway Café (1 unit), Green Acres Pet Resort (1 unit), Shell/Pink Elephant (1 unit), A&W (1 unit), Super 8 by Wyndham Windsor/Madison North (1 unit), PinSeekers DeForest (1 unit), and Culver's (1 unit).

Table 3-1: South Section Receiver and Receptor Counts

Land Use Activity Category	Number of Facilities	Number of Representative Receivers in TNM2.5	Number of Represented Receptors Units
A	**0**	**0**	**0**
B	**0**	**2,802**	**3,777**
C	Grace Baptist Church	1	1
	City of Madison Police Department	1	1
	Heritage Prairie Park	1	1
	Joshua Circle Basketball Court	1	1
	Hiestand Woods Park	1	1
	American Family Walking Path	1	1
	Marsh View Bike Path	1	1
	Crosspoint Church of the Nazarene	1	1
	Calvary Gospel Church	2	2
	In My Garden Bilingual Daycare	1	1
	Town Center Park	1	1
	Kennedy Little League	4	4
	Holy Cross Lutheran Church	1	1
	Autumnwood East Bike Path	1	1
	Cardinal Stritch University	1	1
	Daniel Morgan Path	2	2
	Hidden Creek Path	1	1
	UW Health East Clinic	1	1
	Event Center	1	1
	Token Creek Path	1	1
	Living Stone of Jesus	1	1
	Vallarta-Ast Disc Golf Course	8	8
	Token Creek Park	1	1
	Lake Windsor Country Club Golf Course	9	9
	DeForest Athletic Complex	3	3
C (Total)	**25**	**47**	**47**
D	Madison Fire Station	1	1
	SSM Health Emergency Center	1	1
D (Total)	**2**	**2**	**2**
E	Comfort Inn and Suites Madison East	1	1
	GE Healthcare	1	1
	Tienda y taqueria la bonita	1	1
	Eagle Crest Bar	2	2

Land Use Activity Category	Number of Facilities	Number of Representative Receivers in TNM2.5	Number of Represented Receptors Units
	Bowl-A-Vard	1	1
	Microtel Inn & Suites by Wyndham Madison East	1	1
	Cracker Barrel Old Country Store	1	1
	Home 2 Suites & Tru by Hilton	1	1
	Best Western East Towne Suites	1	1
	Dave's Hot Chicken	1	1
	Dickey's Barbecue Pit	1	1
	Potbelly	1	1
	Texas Roadhouse	1	1
	URUS Office Building	1	1
	Courtyard by Marriott Madison East	1	1
	Fairfield Inn & Suites by Marriott Madison East	1	1
	Park Bank Office Building	1	1
	La Taguara Bar & Grill	1	1
	Holiday Inn Express & Suites Madison	1	1
	Residence Inn by Marriott Madison East	1	1
	US Cellular Business Office Building	1	1
	Aerotek Office Building	1	1
	Johnson Bank Office Building	3	3
	La Quinta Inn & Suites	1	1
	Happy Wok	1	1
	Highway Café	1	1
	A&W Restaurant	1	1
	Super 8 by Wyndham Windsor/Madison	1	1
	Green Acres Pet Resort	1	1
	Shell/Pink Elephant	1	1
	PinSeekers DeForest	1	1
	Culver's	1	1
E (Total)	**32**	**35**	**35**
Total	**59**	**2,886**	**3,861**

Information requests were initiated to Columbia and Dane counties, the towns of Blooming Grove, Burke, Cottage Grove, Sun Prairie and Vienna, the villages of Arlington, Cottage Grove, DeForest and Windsor and the cities of Madison and Sun Prairie. GIS parcel data was also utilized to determine where new development had been

approved along the corridor. Where available, permitted plans were used to determine receptor locations and dwelling unit information. Upon review of the information obtained, permitted noise-sensitive properties were identified in the city of Madison, including residential units at the Meadowlands, residential units at The Winston at Churchill, Home 2 Suites & Tru by Hilton, residential units at Signature Pointe Apartments, residential units at American Center Apartments, and residential units at Pumpkin Hollow North. Review of city of Madison information also identified that Super 8 by Wyndham Madison East will be converted to residential units called Sandburg Studios.

3.1.2. North Section

Aerial photos and land use data of the entire study area were reviewed to select 512 representative receivers (N1 – N301) including 461 residential representative receivers, 44 recreational outdoor use representative receivers, three interior location representative receivers and four outdoor use representative receivers at hotels or restaurants. The 512 representative receivers represent 581 total receptor units, described in the following paragraph and shown in **Table 3-2**.

There are 461 residential representative receivers (Land Use Category B) representing 530 single family and multi-family receptor units, 44 recreational outdoor use representative receivers (Land Use Category C) representing 44 receptor units at 12 facilities, including Wayside Park (1 unit) Portage Rest Area 11 Playground (1 unit), Rest Area 12 Playground (1 unit), Ishnala Super Club Trail (1 unit), campsites and outdoor use at Yogi Bear's Jellystone Park of Wisconsin Dells (15 units), campsites and a pool at Camp Delton Club (9 units), Jewish Community Center (JCC) Camp Chi (1 unit), four holes at Spring Brook Golf Course (4 units), three holes at Trappers Turn Golf Club (3 units), Indian Baptist Church Cemetery (1 unit), campsites at Rocky Arbor State Park (5 units), and a baseball field and playground at Ho-Chunk Housing and Community (2 units), three interior use representative receivers (Land Use Category D) representing Delton Family Medical Center (1 unit), DaVita Lake Delton Dialysis (1 unit) and Indian Baptist Church (1 unit), and four hotel or restaurant representative receivers (Land Use Category E) representing four receptor units at four facilities, including Cascade Mountain Ski Resort outdoor eating area (1 unit), Kalahari Resort outdoor waterpark (1 unit), Great Wolf Lodge outdoor waterpark (1 unit) and Polynesian Hotel and Suites outdoor waterpark (1 unit).

Table 3-2: North Section Receiver and Receptor Counts

Land Use Activity Category	Number of Facilities	Number of Representative Receivers in TNM2.5	Number of Represented Receptors Units
A	**0**	**0**	**0**
B	**0**	**461**	**530**
C	Wayside Park	1	1
	Portage Rest Area 11 Playground	1	1
	Rest Area 12 Playground	1	1
	Ishnala Super Club Trail	1	1
	Yogi Bear's Jellystone Park of Wisconsin Dells	15	15
	Camp Delton Club	9	9
	JCC Camp Chi	1	1
	Spring Brook Golf Course	4	4
	Trappers Turn Golf Club	3	3
	Indian Baptist Church Cemetery	1	1
	Rocky Arbor State Park	5	5
	Ho-Chunk Housing and Community	2	2
C (Total)	**12**	**44**	**44**
D	Delton Family Medical Center	1	1
	DaVita Lake Delton Dialysis	1	1
	Indian Baptist Church	1	1
D (Total)	**3**	**3**	**3**
E	Cascade Mountain Ski Resort	1	1
	Kalahari Resort	1	1
	Great Wolf Lodge	1	1
	Polynesian Hotel and Suites	1	1
E (Total)	**4**	**4**	**4**
Total	**19**	**512**	**581**

Information requests were initiated to Columbia, Juneau and Sauk counties, the towns of Arlington, Caledonia, Dekorra, Delton, Fairfield and Lyndon, the village of Lake Delton and the cities of Portage and Wisconsin Dells. GIS parcel data was also utilized to determine where new development had been approved along the corridor. Where available, permitted plans were used to determine receptor locations and dwelling unit information. Upon review of the information obtained, permitted noise-sensitive properties were identified in the city of Wisconsin Dells, including residential units at Stoney Acres Apartments and an expansion at the Kalahari Resort.

Per FDM 23, Section 23-35-15, the analysis used percentage of time open throughout the year to determine the appropriate number of receptors for campgrounds. The percentage is multiped by the number of campsites within the noise study area to determine the number of receptors to be modeled, rounded up to the nearest whole number. Calculations for each campground are as follows:

- 15 receivers (N72 through N86) were included at Yogi Bear's Jellystone Park to represent each campsite within 500 feet of the study corridor, with a usage factor applied based on months of the year the campground is open (April 1st through October 31st), resulting in a usage factor of 0.58 (7/12) multiplied by the total number of campsites (26) identified within 500 feet of the study corridor.
    - 26*0.58 = rounds up to 15 receivers.
- Nine receivers (N89 through N97) were included at Camp Delton Club to represent each campsite within 500 feet of the study corridor, with a usage factor applied based on months of the year the campground is open (April 1st through October 31st), resulting in a usage factor of 0.58 (7/12) multiplied by the total number of campsites (15) identified within 500 feet of the study corridor.
    - 15*0.58 = rounds up to nine receivers.
- Five receivers (N276 through N280) were included at Rocky Arbor State Park to represent each campsite within 500 feet of the study corridor, with a usage factor applied based on months of the year the campground is open (Memorial Day weekend through Labor Day weekend), resulting in a usage factor of 0.25 (3/12) multiplied by the total number of campsites (21) identified within 500 feet of the study corridor.
    - 21*0.25 = rounds up to five receivers.

3.2. Field Measurement of Existing Noise Levels

Existing noise level measurements were conducted on August 23 and August 24, 2022 at 14 locations in the South Section and on August 10, 2022 at 10 locations in the North Section. Four locations were field sites (FS) and 20 were used as model validation sites (VS). Note that measurements sites do not appear numbered sequentially since several measurement sites are no longer located in the study corridor.

Measurement locations were coordinated with WisDOT prior to the measurement being conducted. Measurements were taken with ANSI Type 1 integrating sound level meters for a duration of 20 minutes at each location. The measurements were made in accordance with WisDOT guidelines in FDM 23, Section 23-20.5.[6] Traffic counts were conducted concurrently with the noise measurements and classified by vehicle type: cars, medium trucks (two axle), heavy trucks (three or more axles), buses and motorcycles. The measurement sites are identified on the figures in **Attachment A**. Calibration certificates for equipment and field data sheets are located in **Attachment B**.

Table 3-1 describes each measurement location and lists the measured noise level. Existing measured noise levels ranged from 61 to 76 dBA in the South Section and 58 to 77 dBA in the North Section.

[6] *Wisconsin Department of Transportation Facilities Development Manual Chapter 23 Noise Section 23-20-5. July 28, 2011.*

Table 3-3: Measurement Site Descriptions and Measured Noise Levels

Monitoring Location Site	Site Description	Measured $L_{eq(h)}$ (dBA)
VS-1	Residential, The Point at Richmond Hills Apartments	73
VS-2	City of Madison Police Department- East District	73
VS-3	Single family residential at corner of Kurt Dr. and Thompson Dr.	63
VS-4	Residential, Harmony at Grandview Commons Apartments	67
VS-5	Parking lot of Steamfitters Local 601 near Town Center Park	67
FS-6	Residential, The Meadowlands Apartments at corner of Wyalusing Dr. and Milwaukee St.	61
VS-9	Single family residential at cul-de-sac of Tony Dr.	72
VS-10	Residential, Cherry Tree Crossings Apartments	74
FS-11	Residential, 22 Slate Apartments	63
FS-14	Bike path between Hoepker Rd. and Hanson Rd.	67
VS-15	Single family residential off Daentl Rd.	71
VS-17	DeForest Athletic Complex off River Rd.	73
VS-18	Grass area between Wibu Rd. and I-39/90/94 near single family residence, north of County DM	76
VS-19	Field north of single family residential off Prospect Dr.	66
VS-21	Grass area adjacent to single family residential on Sanderson Rd.	67
VS-22	Single family residential off St Lawrence Bluff Rd.	68
VS-23	Grass area along I-39 northbound adjacent to single family residence on County U	77
VS-24	Cascade Mountain parking lot	75
VS-25	Natural Resources Department maintenance buildings of Pine Island State Wildlife Area	76
FS-26	Overflow parking lot of Kalahari Resort & Convention Center	58
VS-27	Ishnala Trail	65
VS-28	Open area along I-94 northbound adjacent to single family residential on Painters Ln.	75
VS-29	Spring Brook Golf Course	76
VS-30	Rocky Arbor State Park campsite	68

3.3. Field Measurements Versus Modeled Noise Levels

Comparing the modeled noise levels to the measured noise levels validates TNM2.5 for use on the specific project. The validation process compares the measured sound levels at each site to the noise levels calculated with TNM2.5 using the existing site geometry and traffic counts taken during each measurement as input to the model.

The modeled data compared within 3 dBA of the measured levels, which satisfies the WisDOT requirement for validating noise measurements. The site-by-site comparison for the model validation sites is presented in **Table 3-2**. The field sites were not used for model validation due to either proximity from the roadway or the presence of significant topography features that partially or fully shielded the roadway.

Table 3-4: Comparison of Measured and Modeled Noise Levels

Monitoring Location Site	Measured $L_{eq(h)}$ (dBA)	TNM2.5-Predicted $L_{eq(h)}$ (dBA)	Difference (dBA)
VS-1	73	70	-3
VS-2	73	74	1
VS-3	63	62	-1
VS-4	67	65	-2
VS-5	67	66	-1
VS-9	72	74	2
VS-10	74	76	2
VS-15	71	74	3
VS-17	73	72	-1
VS-18	76	75	-1
VS-19	66	68	2
VS-21	67	68	1
VS-22	68	71	3
VS-23	77	75	-2
VS-24	75	76	1
VS-25	76	75	-1
VS-27	65	66	0
VS-28	75	73	-2
VS-29	76	76	0
VS-30	68	68	0

4. Environmental Consequences

4.1. Noise Study Methodology

TNM2.5 was used to calculate existing and future peak hour noise levels at the representative noise receivers identified for the study. (S1 through S1717 in the South Section and N1 through N301 in the North Section).

Each receiver represents a single point in the noise model and is representative of the noise receptors being analyzed. One receiver can represent multiple receptors or units in the noise analysis, such as a single receptor point representing multiple residential units. The modeled receivers are shown on the figures in **Attachment A**.

Note that receivers do not always appear numbered sequentially due to study area changes throughout the course of the study that resulted in some receiver locations dropping out of the study area and others being added compared to early identification of receivers with preliminary designs. Receiver sites also use the same number when they represent multiple floors at the same location. For example, receivers with a decimal point (.) indicate floor, such as S162.1 indicating first floor and S162.2 indicating second floor. If a receiver name does not include a decimal point, it is a first (ground) floor receptor.

Analysis of peak hour traffic volumes provided for the noise analysis was completed to compare overall mainline volumes, vehicular fleet mixes, speeds and Level of Service (LOS) data. When predicting traffic noise levels and assessing noise impact, traffic characteristics that would yield the loudest hour conditions should be used, which generally would be when traffic is moving at the highest speeds and highest volumes possible, also known as LOS C. FHWA's *Recommended Best Practices for the Use of the FHWA Traffic Noise Model (TNM2.5)* states, "The loudest hour of the day is dependent upon traffic conditions – vehicle volume, operating speed and number of trucks – that combine to produce the highest hourly noise levels adjacent to the highway corridor. According to FHWA guidance, the 'worst hourly traffic noise impact' usually occurs at a time when truck volumes and vehicle speeds are the greatest, typically when traffic is free flowing and at or near LOS C conditions."

The traffic data analysis determined that the peak hour representing the worst (noisiest) traffic hour varied throughout the study corridor. In general, the peak hours with the highest volumes, number of trucks and speeds, while operating at LOS C or better conditions on the mainline, were utilized for the noise analysis. The following peak hour volumes were applied in both the existing and design years:

- South Section, I-39/90/94: Sunday, 2 to 3 PM
- South Section, I-94/WIS 30: Friday, 4 to 5 PM
- South Section, US 151: Weekday, 4 to 5 PM
- North Section: Sunday, 12 to 1 PM

Posted speed limits were used in the noise model for both the existing and future conditions. Estimated speeds were used for ramps or other connecting roadways where no posted speeds were observed.

The South Section used existing year (2019) and design year (2050) traffic data, and the North Section used existing year (2021) and design year (2050) traffic data. The South Section utilized 2019 count data to maximize the investment in the data collection and traffic analysis already completed for this section of the corridor. The North Section utilized 2021 count data as a new data collection effort was required for this section and 2021 daily counts show higher volumes than the 2019 daily counts. Growth factors from the Dane County Travel Demand Model were utilized to develop design year 2050 volumes for the South Section. For the North Section design year

2050 volumes, growth factors from the Statewide Travel Demand Model were utilized. Appendix K of the Draft EIS provides more information on the traffic data used for this study.

4.2. Traffic Noise Levels and Noise Impact Analysis

A traffic noise impact is defined as a future noise level that approaches or exceeds the WisDOT NLC, or a future noise level that creates a substantial noise increase over existing noise levels. WisDOT identifies a noise impact when predicted future noise levels exceed existing levels by 15 dB or more, or when future noise levels "approach" (defined as 1 dB less than the NLC) or exceed the NLC level for the applicable Land Use Category.

The existing and future year noise levels and analysis results by receiver are presented in **Attachment C**, along with a distance to centerline of the nearest future roadway lane, a receptor description, the number of receptor units represented by each receiver and the NLC.

Land Use Category C facilities (or properties) that do not have an exterior area of frequent human use or have exterior use that is far from or physically shielded from the roadway are categorized under Land Use Category D, which are evaluated for interior impacts. Five receivers were modeled as Land Use Category D (interior) because no observable exterior area of frequent human use was identified, including Madison Fire Station (S958) and SSM Health Emergency Center (S1635) in the South Section and Delton Family Medical Center (N102), DaVita Lake Delton Dialysis (N103) and Indian Baptist Church (N282) in the North Section. Table 6 in FHWA's *Highway Traffic Noise: Analysis and Abatement Guidance* provides values to help estimate interior noise levels. [7] A building noise reduction factor of 25 dB was used for the medical facilities and Madison Fire Station as they are all masonry buildings with at least single glazed windows. A building noise reduction factor of 20 dB was used for Indian Baptist Church as it is a light frame building with assumed ordinary sash windows. The building noise reduction factors were applied to modeled exterior noise levels to determine interior noise levels at these receivers. No impacts are predicted at Land Use Category D receivers based on the estimated interior noise levels.

4.2.1. South Section

Predicted existing year (2019) exterior traffic noise levels for modeled receivers range from 44 to 77 dBA $L_{eq(h)}$. Predicted future year (2050) exterior traffic noise levels for modeled receivers range from 37 to 80 dBA $L_{eq(h)}$. Changes in $L_{eq(h)}$ noise levels in 2050 under the build alternative will range from -8 to 16 dBA compared to existing conditions.

The 2050 noise levels predicted with TNM2.5 indicate that 1,027 representative receivers representing 1,343 receptor units would be exposed to $L_{eq(h)}$ noise levels that approach or exceed the NLC, further detailed in **Table 4-1**. This includes 984 receivers representing 1,300 residential receptor units (Land Use Category B), 31 receivers representing 31 outdoor use receptor units (Land Use Category C) at 15 facilities, including Hiestand Woods (1 unit), American Family Walking Path (1 unit), Crosspoint Church of the Nazarene (1 unit), Town Center Park (1 unit), Holy Cross Lutheran Church (1 unit), Kennedy Little League (3 units), Autumnwood East Bike Trail (1 unit), Cardinal Stritch University (1 unit), Hidden Creek Path (1 unit), Daniel Morgan Path (2 units), Token Creek Path (1 unit), Living Stone of Jesus (1 unit), Vallarta-Ast Disc Golf Course (5 units), Lake Windsor Country Club (9 units),

[7] *U.S. Department of Transportation Federal Highway Administration Office of Planning, Environment, & Realty (HEP). Environment. Noise. Regulations and Guidance. Analysis and Abatement Guidance. Highway Traffic Noise Regulation. https://www.fhwa.dot.gov/Environment/noise/regulations_and_guidance/analysis_and_abatement_guidance/polguide02.cfm. Accessed March 19, 2024.*

and DeForest Athletic Complex (2 units), and 12 receivers representing 12 outdoor use receptor units at hotels, restaurants or offices (Land Use Category E) at 11 facilities, including GE Healthcare (1 unit), Microtel Inn & Suites by Wyndham Madison East (1 unit), Cracker Barrel Old Country Store (1 unit), Home 2 Suites & Tru by Hilton (1 unit), URUS Office Building (1 unit), Courtyard by Marriott Madison East (1 unit), Fairfield Inn & Suites by Marriott Madison East (1 unit), Johnson Bank Office Building (2 units), Highway Café (1 unit), Green Acres Pet Resort (1 unit) and PinSeekers DeForest (1 unit).

Table 4-1: South Section Receiver and Receptor Impact Counts

Land Use Activity Category	Number of Facilities Impacted	Number of Representative Receivers Impacted	Number of Receptors Units Impacted
A	**0**	**0**	**0**
B	**0**	**984**	**1,300**
C	Hiestand Woods Park	1	1
	American Family Walking Path	1	1
	Crosspoint Church of the Nazarene	1	1
	Town Center Park	1	1
	Holy Cross Lutheran Church	1	1
	Kennedy Little League	3	3
	Autumnwood East Bike Path	1	1
	Cardinal Stritch University	1	1
	Hidden Creek Path	1	1
	Daniel Morgan Path	2	2
	Token Creek Path	1	1
	Living Stone of Jesus	1	1
	Vallarta-Ast Disc Golf Course	5	5
	Lake Windsor Country Club Golf Course	9	9
	DeForest Athletic Complex	2	2
C (Total)	**15**	**31**	**31**
D	**0**	**0**	**0**
E	GE Healthcare	1	1
	Microtel Inn & Suites by Wyndham Madison East	1	1
	Cracker Barrel Old Country Store	1	1
	Home 2 Suites & Tru by Hilton	1	1
	URUS Office Building	1	1
	Courtyard by Marriott Madison East	1	1
	Fairfield Inn & Suites by Marriott Madison East	1	1
	Johnson Bank Office Building	2	2
	Highway Café	1	1
	Green Acres Pet Resort	1	1
	PinSeekers DeForest	1	1
E (Total)	**11**	**12**	**12**
Total	**26**	**1,027**	**1,343**

Three residential receptors in the study area (S1016, S1024 and S1027) would be exposed to an increase in sound levels of 15 dBA or more; these receptors are located west of I-39/90/94 north of the WIS 30/I-94 Interchange off of Tony Drive and Park Meadow Drive. The substantial increases are due to the design moving roadways closer to these receptors, with increases in traffic volumes in the future year, along with topographic changes due to the design that cut into an existing berm in this area. These three receptors are also impacted based on the NLC and are included in the impact counts given above (shown in **Table 4-1**).

There are three receptors (S1096, S1117 and S1512) that were identified as relocations due to the proposed design improvement encroaching on the parcel. The receiver locations were moved in the future condition for these three receptors. S1096 and S1512 are residential receptors where the building would need to be removed and reestablished in another location outside the limits of the proposed improvement; the receiver location for these residential receptors was moved to the future right-of-way as a worst-case location. S1117 is a Land Use Category C receptor on the Daniel Morgan Path; the receiver location was moved to the new path based on the proposed design. These receptors are predicted to be impacted in the future condition and are included in the impact counts given above (shown in **Table 4-1**).

4.2.2. North Section

Predicted existing year (2021) exterior traffic noise levels for modeled receivers range from 37 to 78 dBA $L_{eq(h)}$. Predicted future year (2050) exterior traffic noise levels for modeled receivers range from 38 to 77 dBA $L_{eq(h)}$. Changes in $L_{eq(h)}$) noise levels in 2050 under the build alternative will range from -8 to 6 dBA compared to existing conditions.

The 2050 noise levels predicted with TNM2.5 indicate that 190 representative receivers representing 255 receptor units would be exposed to $L_{eq(h)}$ noise levels that approach or exceed the NLC, further detailed in **Table 4-2**. This includes 151 receivers representing 216 residential receptor units (Land Use Category B) and 39 receivers representing 39 outdoor use receptors (Land Use Category C) at eight facilities, including Portage Rest Area 11 Playground (1 unit), Rest Area 12 Playground (1 unit), Ishnala Super Club Trail (1 unit), Yogi Bear's Jellystone Park of Wisconsin Dells (15 units), Camp Delton Club (9 units), Spring Brook Golf Course (4 units), Trappers Turn Golf Club (3 units), and Rocky Arbor State Park (5 units). No receptors in the North Section would be exposed to an increase in sound levels of 15 dBA or more.

Table 4-2: North Section Receiver and Receptor Impact Counts

Land Use Activity Category	Number of Facilities Impacted	Number of Representative Receivers Impacted	Number of Receptors Units Impacted
A	**0**	**0**	**0**
B	**0**	**151**	**216**
C	Portage Rest Area 11 Playground	1	1
	Rest Area 12 Playground	1	1
	Ishnala Super Club Trail	1	1
	Yogi Bear's Jellystone Park of Wisconsin Dells	15	15
	Camp Delton Club	9	9
	Spring Brook Golf Course	4	4
	Trappers Turn Golf Club	3	3
	Rocky Arbor State Park	5	5
C (Total)	**8**	**39**	**39**
D	**0**	**0**	**0**
E	**0**	**0**	**0**
Total	**8**	**190**	**255**

4.3. Noise Abatement Measures

Based on the requirements of 23 CFR 772 and within the framework of the FDM 23, various methods were reviewed to mitigate the noise impact of the preferred alternative. Among the mitigation options considered were those listed below.

- Restricting truck traffic to specific times of the day.
- Prohibiting truck traffic.
- Altering horizontal and vertical alignments.
- Acquiring property to create buffer zones to prevent development that could be adversely impacted.
- Soundproofing for land use Activity Category D only.
- Constructing berms (linear earthen mounds).
- Installing noise barriers (a wall located between the highway and receptors).

Restricting or prohibiting trucks is beyond the scope of this study and would require changes in legislation. Design criteria and recommended termini do not allow for sufficient changes in alignment to provide a noticeable change in the traffic noise levels at the abutting properties. A 15-foot-tall earthen noise berm would have a footprint ranging in width from 35 to 95 feet. Therefore, it is not the most feasible or reasonable abatement alternative to construct noise berms within the study area due to the cost of materials and potential need to acquire substantial amounts of ROW. Soundproofing of buildings is not necessary as noise impact is not predicted at Land Use

Category D land uses. The construction of noise barriers appears to be the most feasible and reasonable method to mitigate noise impacts for this study. Abatement is recommended for consideration where it is feasible and reasonable to construct a noise barrier.

A noise analysis identifies "where noise abatement is feasible and reasonable and locations with impacts that have no feasible or reasonable noise abatement alternatives." The most efficient location for a noise barrier is as close to the source or the receiver as possible. Therefore, in the areas of the predicted noise impacts where a noise barrier was feasible to analyze, noise barriers were generally modeled following the highest future elevation either as close to the edge of pavement or ROW as possible. Noise barriers were modeled to remain at least seven feet away from the proposed edge of the pavement or 10 feet away from the proposed ROW to allow sufficient clearance for concrete safety barriers and maintenance work.

Note that noise barriers were not modeled on WisDOT bridges due to a policy item in the WisDOT Bridge Manual, Chapter 30.3. Noise barriers are analyzed where impacts are identified and generally start with a length that is four times the perpendicular distance to the last impact in an area. If this results in a barrier that crosses intersecting roadways or roadway bridges, the barrier is gapped at that location and considered as a barrier system with separate segments.

4.3.1. Federal and State Abatement Guidance

FDM 23 has established criteria for determining noise barrier feasibility and reasonableness and summarized as follows:

- The barrier must meet engineering considerations, such as safety, height, drainage, utilities, and property and maintenance access to be considered feasible.
- The barrier must provide a minimum 5-decibel noise reduction at one impacted receptor or common use area to be considered feasible.
- One receptor or common use area must meet the 9-decibel noise reduction design goal for the noise barrier to be considered for reasonableness.
- A noise barrier must reduce noise levels by a minimum of 8 decibels for a receptor or common use area to be considered as benefited for the purposes of determining reasonableness. The total cost of the barrier may not exceed $50,000 per benefited receptor based on a noise barrier cost of $30.00 per square foot. A benefited receptor can be either an impacted or a non-impacted receptor.
- If a common noise environment exists within the study termini, cost averaging of multiple barriers within the common noise environment may occur as part of the reasonableness determination. Noise barriers exceeding $100,000 per benefited receptor cannot be included in the cost averaging. The order of cost averaging of eligible multiple barriers will start with the most cost-effective noise barrier increasing to the second most cost-effective barrier to the third, etc., until the average cost approaches or equals but does not exceed $50,000 per benefited receptor. The noise barriers included in the cost averaging may be carried forward for a determination of whether they will be incorporated into the project. WisDOT must receive a vote of support for the barrier from a simple majority of all votes cast by the owners or residents of the benefited receptors.

- For this noise analysis, the South and North sections were divided into three CNEs. The South Section contains CNE 1 (Greater Madison area) and part of CNE 2 (Rural Dane, Columbia and Sauk counties). The North Section also contains part of CNE 2 and CNE 3 (Greater Wisconsin Dells area). Cost averaging was implemented on the barriers where the average cost exceeds $50,000 per benefited receptor but is below $100,000 per benefited receptor. Two noise barriers were eligible for cost averaging (below $100,000 per benefited receptor) in CNE 1, no noise barriers were eligible for cost averaging in CNE 2, and one noise barrier was eligible for cost averaging in CNE 3.

4.3.2. Abatement Analysis

In the South Section, 25 noise barriers (labeled S1 through S25) and two existing noise barriers (labeled E1 and E2) were analyzed to determine feasibility and reasonableness. In the North Section, 14 noise barriers (labeled N1 through N14) were analyzed adjacent to the study area; there are no existing noise barriers in the North Section. These noise barriers are identified on the figures in **Attachment A** and are further described in the following sections.

For receptors that are isolated, meaning no other noise-sensitive receptors exist within 2,000 feet in either direction, barrier analysis has been completed qualitatively. A distance of 2,000 feet for isolated receptors has been determined based on the FHWA recommendation[8] that noise barriers extend at least four times the perpendicular distance between the receptor and the barrier. With this in mind, a receptor at 500 feet from the roadway (the noise study area distance) would need a noise barrier to extend 2,000 feet in either direction for it to be effective. If no other receptors exist within this 2,000-foot distance, the receptor would be isolated.

Receptors in the study area are generally at least 50 feet from either the roadway shoulder or the ROW. For an isolated receptor that is 50 feet from a potential noise barrier (whether located at the roadway shoulder or ROW), the noise barrier would need to extend four times that distance beyond the receptor on either end of the noise barrier. This would result in a minimum length noise barrier of 400 feet. At a conservative height of 10 feet, this size noise barrier would cost $120,000 (4,000 square feet x $30 per square foot). With only one noise-sensitive receptor behind the noise barrier, the cost per potential benefit would be over $100,000; therefore, noise barriers for isolated receptors would not be reasonable and would not be eligible for cost averaging.

The results of the noise barrier analysis completed with TNM2.5, including barrier location, future $L_{eq(h)}$ noise levels without and with a barrier, barrier length and height, estimated cost based on $30.00 per square foot, the number of benefited receptors, the noise reduction provided by the barrier and the cost per benefited receptor are presented in **Table 4-3** for the South Section and **Table 4-4** for the North Section. Noise level ranges presented in the tables are reported for benefited receptors only unless no benefits were achieved. Detailed noise barrier analysis results by receptor are presented in **Attachment D.** Cost averaging calculations across eligible barriers are presented in **Attachment E**.

The maximum noise barrier height that was analyzed for this study in TNM2.5 was 24 feet because noise barriers above this height generally require structural design considerations that result in greater costs to construct and may affect engineering feasibility. Note that shorter length noise barriers were also evaluated in several areas to confirm if any barrier designs for areas where receptors are denser or receiving higher noise reduction from abatement could reach a cost per benefited receptor that would allow for eligibility for cost averaging; however,

[8] *U.S. Department of Transportation Federal Highway Administration Office of Planning, Environment, & Realty (HEP). Environment. Noise. Noise Barriers. Design Construction. Noise Barrier Design Handbook. https://www.fhwa.dot.gov/environment/noise/noise_barriers/design_construction/design/design03.cfm. Accessed March 29, 2024.*

none of the shorter length noise barriers were found get closer to the threshold of $100,000 per benefited receptor.

4.3.2.1. South Section

The South Section analysis found eight noise barriers were feasible and reasonable, including S1, S2, S3, S4, S7, S10, S13, and S14. Two of these barriers, S1 and S4, are reasonable via cost averaging.

In addition to the 25 new noise barriers evaluated, two existing noise barriers were evaluated in the South Section. Per FHWA guidance, if noise impact is identified behind an existing noise barrier, an analysis should be completed to determine if the barrier is still feasible and reasonable.[9] The design year noise levels are determined with and without the existing noise barrier for this analysis. If the existing noise barrier is feasible and reasonable as built, no further analysis is required. Note that the figures in **Attachment A** show the existing noise barriers and reflect the impacted receptors with the existing barrier in place. The noise levels in **Attachment C** also reflects the results with the existing barrier in place. The barrier analysis for the existing noise barriers is reflected in the noise level results given in **Attachment D**. The analyzed barriers are further described below.

- E1 is an existing noise barrier with two segments located along the ROW of I-39/90 southbound from the Wisconsin and Southern Railroad to Cottage Grove Road. The first segment extends from the Wisconsin and Southern Railroad to East Buckeye Road and is 2,628 feet in length. The second segment extends from East Buckeye Road to Cottage Grove Road and is 3,907 feet in length. This barrier was evaluated as an existing noise barrier per FHWA guidance. Following the guidance outlined in FHWA-HEP-12-051, *Consideration of Existing Noise Barrier in a Type I Noise Analysis*, the barrier was analyzed at its existing height compared to a "no barrier" scenario to determine if the barrier achieves the WisDOT feasibility and reasonableness requirements. This noise barrier is 6,535 feet long and ranges in height from 7 to 21 feet. The barrier is acoustically feasible as 151 receptor units achieve at least 5 dBA reduction, at least one of which is an impacted receptor. E1 has a maximum insertion loss of 15 dBA. The total cost of the noise barrier is $2,701,620. The noise barrier benefits (achieve 8 dB insertion loss) 39 receivers representing 65 receptor units, and the resulting cost per benefited receptor is $41,563. Therefore, this existing noise barrier is feasible and reasonable as built.
- E2 is an existing noise barrier located along the ROW of I-39/90 southbound from Cottage Grove Road to Milwaukee Street. This barrier is being encroached upon by the proposed design improvements for an approximate 900-foot section. At this preliminary stage in design, it is anticipated that the portion of the barrier being encroached upon will be removed and replaced in kind, while the remaining portions of this existing barrier will remain in place. This existing barrier is 4,644 feet long in total and ranges in height from 5 to 21 feet. There is no predicted noise impact behind this existing barrier; therefore, no further noise abatement evaluation was completed.

[9] *U.S. Department of Transportation Federal Highway Administration Office of Planning, Environment, & Realty (HEP). Environment. Noise. Consideration of Existing Noise Barrier in a Type I Noise Analysis FHWA-HEP-12-051. https://www.fhwa.dot.gov/environment/noise/noise_barriers/abatement/existing.cfm. Accessed March 29, 2024.*

- S1 would be a noise barrier with two segments located along the ROW of I-39/90/94 northbound between the Wisconsin and Southern Railroad and Cottage Grove Road. The first segment extends from approximately 1,450 feet north of the Wisconsin and Southern Railroad to East Buckeye Road and is 1,399 feet in length, and the second segment extends from East Buckeye Road to 2,100 feet north of East Buckeye Road and is 2,050 feet in length. The noise barrier would be 3,449 feet long and range in height from 16 to 24 feet. The noise barrier is acoustically feasible as 79 receptor units achieve at least a 5 dBA reduction, at least one of which is an impacted receptor. S1 would have a maximum insertion loss of 11 dBA. The total cost of the noise barrier would be $2,358,060. The noise barrier would benefit (achieve 8 dB insertion loss) 29 receivers representing 31 receptor units, and the resulting cost per benefited receptor would be $76,066. This barrier is feasible and reasonable by cost averaging (see **Attachment E**).
- S2 would be a noise barrier with two segments located along the ROW of I-39/90/94 northbound between the East Buckeye Road and Milwaukee Street. The first segment extends from approximately 950 feet south of Cottage Grove Road to Cottage Grove Road and is 904 feet in length, and the second segment extends from Cottage Grove Road to about 2,000 feet south of Milwaukee Street and is 3,350 feet in length. The noise barrier would be 4,254 feet long and range in height from 18 to 24 feet. The noise barrier is acoustically feasible as 329 receptor units achieve at least a 5 dBA reduction, at least one of which is an impacted receptor. S2 would have a maximum insertion loss of 17 dBA. The total cost of the noise barrier would be $2,918,880. The noise barrier would benefit (achieve 8 dB insertion loss) 176 receivers representing 229 receptor units, and the resulting cost per benefited receptor would be $12,746. Therefore, this barrier is feasible and reasonable.
- S3 would be a noise barrier with three segments located along the shoulder and the ROW of WIS 30 eastbound from Milwaukee Street to US 151. The first segment extends along mostly ROW from Milwaukee Street to North Thompson Drive and is 4,389 feet in length, the second segment extends along the shoulder from North Thompson Drive to the WIS 30 eastbound exit ramp and is 395 feet in length, and the third segment extends along mostly ROW from the WIS 30 eastbound exit ramp to 750 feet east of US 51 and is 3,287 feet in length. The noise barrier would be 8,071 feet long and range in height from 16 to 24 feet. The noise barrier is acoustically feasible as 437 receptor units achieve at least a 5 dBA reduction, at least one of which is an impacted receptor. S3 would have a maximum insertion loss of 14 dBA. The total cost of the noise barrier would be $5,217,870. The noise barrier would benefit (achieve 8 dB insertion loss) 164 receivers representing 208 receptor units, and the resulting cost per benefited receptor would be $25,086. Therefore, this barrier is feasible and reasonable.
- S4 would be a noise barrier with three segments located along the shoulder of WIS 30 westbound from Walsh Road to approximately Wintergreen Drive. The first segment extends from Walsh Road to Pulley Drive along Commercial Avenue and is 1,850 feet in length, the second segment extends from Commercial Avenue to North Thompson Drive and is 842 feet in length, and the third segment extends from North Thompson Drive to approximately 300 feet east of North Thompson Drive along the I-39/90/94 exit ramp to WIS 30 westbound and is 254 feet in length. The noise barrier would be 2,946 feet long and range in height from 18 to 24 feet. The noise barrier is acoustically feasible as 45 receptor units achieve at least a 5 dBA reduction, at least one of which is an impacted receptor. S4 would have a maximum insertion loss of 14 dBA. The total cost of the noise barrier would be $1,906,650. The noise barrier would benefit (achieve 8 dB insertion loss) 25 receivers representing 35 receptor units, and the resulting cost per benefited receptor would be $54,476. This barrier is feasible and reasonable by cost averaging (see **Attachment E**).

- S5 would be located along the shoulder of WIS 30 westbound from approximately 400 feet east of North Thompson Drive to 2,300 feet east of North Thompson Drive. The noise barrier would be 1,900 feet long and a height of 24 feet. The noise barrier is acoustically feasible as one impacted receptor unit achieves at least a 5 dBA reduction, with a maximum insertion loss of 8 dBA. This noise barrier would not achieve the noise reduction design goal of 9 dBA insertion loss for at least one receptor. The total cost of the noise barrier would be $1,367,880. The noise barrier would benefit (achieve 8 dB insertion loss) one receiver representing one receptor unit, and the resulting cost per benefited receptor would be $1,367,880. Therefore, this barrier is feasible, but not reasonable.
- S6 would be located mostly along the shoulder of I-94 eastbound from approximately 750 feet west of Town Center Drive to Sprecher Road. The noise barrier would be 1,941 feet long with a height of 24 feet. The noise barrier is acoustically feasible as one impacted receptor unit achieves at least a 5 dBA reduction, with a maximum insertion loss of 8 dBA (note this insertion loss is predicted for a Land Use Category D receptor). This noise barrier would not achieve the noise reduction design goal of 9 dBA insertion loss for at least one receptor. The total cost of the noise barrier would be $1,397,280. The noise barrier would benefit (achieve 8 dB insertion loss) one receiver representing one receptor unit, and the resulting cost per benefited receptor would be $1,397,280. Therefore, this barrier is feasible, but not reasonable.
- S7 would be located mostly along the shoulder of I-94 eastbound from Sprecher Road to approximately 300 feet west of proposed Milwaukee Street at the new interchange over I-94. The noise barrier would be 3,092 feet long and range in height from 14 to 24 feet. The noise barrier is acoustically feasible as 88 receptor units achieve at least a 5 dBA reduction, at least one of which is an impacted receptor. S7 would have a maximum insertion loss of 13 dBA. The total cost of the noise barrier would be $2,011,470. The noise barrier would benefit (achieve 8 dB insertion loss) 68 receivers representing 68 receptor units, and the resulting cost per benefited receptor would be $29,580. Therefore, this barrier is feasible and reasonable.
- S8 would be a noise barrier with two segments located along the shoulder of I-94 westbound on either side of Gaston Road. The first segment on the west side of Gaston Road would be 1,239 feet in length, and the second segment on the east side of Gaston Road would be 1,500 feet in length. The noise barrier would be 2,739 feet long with a height of 24 feet. The noise barrier is acoustically feasible as three receptor units achieve at least a 5 dBA reduction, at least one of which is an impacted receptor. S8 would have a maximum insertion loss of 8 dBA. This noise barrier would not achieve the noise reduction design goal of 9 dBA insertion loss for at least one receptor. The total cost of the noise barrier would be $1,972,020. The noise barrier would benefit (achieve 8 dB insertion loss) one receiver representing one receptor unit, and the resulting cost per benefited receptor would be $1,972,020. Therefore, this barrier is feasible, but not reasonable.
- S9 would be located on along the ROW of I-94 westbound at the Kennedy Little League baseball fields. The noise barrier would be 1,900 feet long with a height of 22 feet. The noise barrier is acoustically feasible as three receptor units achieve at least a 5 dBA reduction, at least one of which is an impacted receptor. S9 would have a maximum insertion loss of 9 dBA. The total cost of the noise barrier would be $1,254,060. The noise barrier would benefit (achieve 8 dB insertion loss) two receivers representing two receptor units, and the resulting cost per benefited receptor would be $627,030. Therefore, this barrier is feasible, but not reasonable.

- S10 would be a noise barrier with three segments located along the shoulder and ROW of I-39/90/94 southbound from Commercial Avenue north to High Crossing Boulevard. The first segment extends from Commercial Avenue to Lien Road and is 5,130 feet in length, the second segment extends along the shoulder from Lien Road to the Wisconsin and Southern Railroad and is 1,113 feet in length, and the third segment extends from the Wisconsin and Southern Railroad to approximately 1,000 feet south of High Crossing Boulevard and is 2,368 feet in length. The noise barrier would be 8,611 feet long with a height ranging from 18 to 24 feet. The noise barrier is acoustically feasible as 293 receptor units achieve at least a 5 dBA reduction, at least one of which is an impacted receptor. S10 would have a maximum insertion loss of 19 dBA. The total cost of the noise barrier would be $6,039,510. The noise barrier would benefit (achieve 8 dB insertion loss) 87 receivers representing 126 receptor units, and the resulting cost per benefited receptor would be $47,933. Therefore, this barrier is feasible and reasonable.
- S11 would be located along the ROW of I-39/90/94 northbound from approximately 1,000 feet north of the Wisconsin and Southern Railroad to High Crossing Boulevard. The noise barrier would be 1,999 feet long with a height ranging from 12 to 22 feet. The noise barrier is acoustically feasible as three receptor units achieve at least a 5 dBA reduction, at least one of which is an impacted receptor. S11 would have a maximum insertion loss of 9 dBA. The total cost of the noise barrier would be $1,235,970. The noise barrier would benefit (achieve 8 dB insertion loss) three receivers representing three receptor units, and the resulting cost per benefited receptor would be $411,990. Therefore, this barrier is feasible, but not reasonable.
- S12 would be located along the shoulder of US 151 westbound from American Parkway to I-39/90/94. The noise barrier would be 1,024 feet long with a height ranging from 16 to 20 feet. The noise barrier is acoustically feasible as three receptor units achieve at least a 5 dBA reduction, at least one of which is an impacted receptor. S12 would have a maximum insertion loss of 9 dBA. The total cost of the noise barrier would be $559,920. The noise barrier would benefit (achieve 8 dB insertion loss) two receivers representing two receptor units, and the resulting cost per benefited receptor would be $279,960. Therefore, this barrier is feasible, but not reasonable.
- S13 would be located along the shoulder and ROW of US 151 westbound from approximately 700 feet west of the Goodman Path to 650 feet east of proposed Eastpark Boulevard. The noise barrier would be 2,802 feet long with a height ranging from 18 to 22 feet. The noise barrier is acoustically feasible as 76 receptor units achieve at least a 5 dBA reduction, at least one of which is an impacted receptor. S13 would have a maximum insertion loss of 10 dBA. The total cost of the noise barrier would be $1,700,910. The noise barrier would benefit (achieve 8 dB insertion loss) 43 receivers representing 43 receptor units, and the resulting cost per benefited receptor would be $39,556. Therefore, this barrier is feasible and reasonable.
- S14 would be a noise barrier with two segments located along the shoulder and ROW of I-39/90/94 southbound from approximately 750 feet north of US 151 to 2,500 feet south of Hanson Road. The first segment extends along the shoulder from approximately 750 feet north of US 151 to the I-39/90/94 exit ramp to US 151 and is 1,200 feet in length, and the second segment extends along the shoulder and ROW from approximately Morning Road to 2,500 feet south of Hanson Road and is 2,549 feet in length. The noise barrier system would be 3,749 feet long with a height ranging from 14 to 24 feet. The noise barrier is acoustically feasible as 638 receptor units achieve at least a 5 dBA reduction, at least one of which is an impacted receptor. S14 would have a maximum insertion loss of 16 dBA. The total cost of the noise barrier would be $2,503,380. The noise barrier would benefit (achieve 8 dB insertion loss) 451 receivers representing 554 receptor units, and the resulting cost per benefited receptor would be $4,519. Therefore, this barrier is feasible and reasonable.

- S15 would be a noise barrier with two segments located along the shoulder of I-39/90/94 northbound from approximately 1,000 feet south of Eastpark Boulevard to Hoepker Road. The first segment extends from approximately 1,000 feet south of Eastpark Boulevard to Hanson Road and is 1,000 feet in length, and the second segment extends from Hanson Road to Hoepker Road and is 4,037 feet in length. The noise barrier system would be 5,037 feet long with a height of 24 feet. The noise barrier is acoustically feasible as four receptor units achieve at least a 5 dBA reduction, at least one of which is an impacted receptor. S15 would have a maximum insertion loss of 8 dBA. This noise barrier would not achieve the noise reduction design goal of 9 dBA insertion loss for at least one receptor. The total cost of the noise barrier would be $3,6626,730. The noise barrier would benefit (achieve 8 dB insertion loss) two receivers representing two receptor units, and the resulting cost per benefited receptor would be $1,813,365. Therefore, this barrier is feasible, but not reasonable.
- S16 would be located along shoulder and ROW of I-39/90/94 northbound from approximately 1,200 feet north of Hoepker Road to the US 51 interchange. The noise barrier would be 4,140 feet long with a height ranging from 6 to 24 feet. The noise barrier is acoustically feasible as eight receptor units achieve at least a 5 dBA reduction, at least one of which is an impacted receptor. S16 would have a maximum insertion loss of 9 dBA. The total cost of the noise barrier would be $2,825,070. The noise barrier would benefit (achieve 8 dB insertion loss) three receivers representing three receptor units, and the resulting cost per benefited receptor would be $941,690. Therefore, this barrier is feasible, but not reasonable.
- S17 would be located along the shoulder and ROW of I-39/90/94 southbound along segment of Daentl Road near Token Creek. This barrier was analyzed with an approximately 60-foot gap for the proposed Token Creek bridge structure. The noise barrier would be 1,392 feet long with a height ranging from 18 to 22 feet. The noise barrier is acoustically feasible as 11 receptor units achieve at least a 5 dBA reduction, at least one of which is an impacted receptor. S17 would have a maximum insertion loss of 12 dBA. The total cost of the noise barrier would be $827,670. The noise barrier would benefit (achieve 8 dB insertion loss) six receivers representing seven receptor units, and the resulting cost per benefited receptor would be $118,239. Note that this barrier was also analyzed without the gap at Token Creek and did not gain more benefits. Therefore, this barrier is feasible, but not reasonable.
- S18 would be located along the shoulder and ROW of I-39/90/94 northbound from WIS 19 to River Road. The noise barrier would be 8,151 feet long with a height ranging from 10 to 22 feet. The noise barrier is acoustically feasible as 23 receptor units achieve at least a 5 dBA reduction, at least one of which is an impacted receptor. S18 would have a maximum insertion loss of 14 dBA. The total cost of the noise barrier would be $5,282,880. The noise barrier would benefit (achieve 8 dB insertion loss) 21 receivers representing 21 receptor units, and the resulting cost per benefited receptor would be $251,566. Therefore, this barrier is feasible, but not reasonable.

  S18 was also analyzed in shorter segments to confirm if any barrier designs for areas where receptors are denser or receiving higher noise reduction from abatement could reach a cost per benefited receptor that would allow for eligibility for cost averaging. An analysis was completed for S1563 through S1572 with a barrier 3,351 feet in length ranging in height from 6 to 22 feet. This design would be acoustically feasible with at least one impacted receptor achieving 5 dBA reduction and a maximum insertion loss of 12 dBA. However, the cost per benefited receptor would be $219,330 with 9 benefited receptor units and a total cost of $1,973,970. Similarly, an analysis was completed for S1577 through S1584 with a barrier 2,000 feet in length ranging in height from 20 to 24 feet. This design would be acoustically feasible with at least one impacted receptor achieving 5 dBA reduction and a maximum insertion loss of 12 dBA. However, the cost per benefited receptor would be $190,723 with 7 benefited receptor units and a total cost of $1,335,060.

- S19 would be a noise barrier with two segments located along the shoulder and ROW of I-39/90/94 southbound on either side of River Road. The first segment on the south side of River Road is 2,336 feet in length, and the second segment on the north side of River Road is 824 feet in length. The noise barrier would be 3,160 feet long with a height of 24 feet. The noise barrier is acoustically feasible as three receptor units achieve at least a 5 dBA reduction, at least one of which is an impacted receptor. S19 would have a maximum insertion loss of 8 dBA. This noise barrier would not achieve the noise reduction design goal of 9 dBA insertion loss for at least one receptor. The total cost of the noise barrier would be $2,274,870. The noise barrier would benefit (achieve 8 dB insertion loss) one receiver representing one receptor unit, and the resulting cost per benefited receptor would be $2,274,870. Therefore, this barrier is feasible, but not reasonable.
- S20 would be located along the shoulder of I-39/90/94 northbound from approximately 600 feet north of River Road to 400 feet south of Innovation Drive. The noise barrier would be 1,011 feet long with a height ranging from 10 to 18 feet. The noise barrier is acoustically feasible as two receptor units achieve at least a 5 dBA reduction, at least one of which is an impacted receptor. S20 would have a maximum insertion loss of 9 dBA. The total cost of the noise barrier would be $495,960. The noise barrier would benefit (achieve 8 dB insertion loss) two receivers representing two receptor units, and the resulting cost per benefited receptor would be $247,980. Therefore, this barrier is feasible, but not reasonable.
- S21 would be located along the shoulder of I-39/90/94 northbound from about 1,900 feet north of Innovation Drive to approximately 5,200 feet north of Innovation Drive. The noise barrier would be 3,200 feet long with a height ranging from 18 to 24 feet. The noise barrier is acoustically feasible as two receptor units achieve at least a 5 dBA reduction, at least one of which is an impacted receptor. S21 would have a maximum insertion loss of 9 dBA. The total cost of the noise barrier would be $2,057,820. The noise barrier would benefit (achieve 8 dB insertion loss) two receivers representing two receptor units, and the resulting cost per benefited receptor would be $1,028,910. Therefore, this barrier is feasible, but not reasonable.
- S22 would be a noise barrier with two segments located along the ROW of I-39/90/94 northbound from approximately 1,300 feet north of County V to Hahn Road. The first segment extends from approximately 1,300 feet north of County V to County I and is 1,808 feet in length, and the second segment extends from County I to Hahn Road and is 2,175 feet in length. The noise barrier would be 3,983 feet long with a height of 24 feet. The noise barrier is acoustically feasible as two receptor units achieve at least a 5 dBA reduction, at least one of which is an impacted receptor. S22 would have a maximum insertion loss of 6 dBA. This noise barrier would not achieve the noise reduction design goal of 9 dBA insertion loss for at least one receptor. The total cost of the noise barrier would be $2,867,730. The noise barrier would not benefit (achieve 8 dB insertion loss) any receptors. Noise barrier heights above 24 feet were not analyzed to determine if benefits could be achieved because noise barriers above this height require structural design considerations that result in greater costs to construct and may affect engineering feasibility. Therefore, this barrier is feasible, but not reasonable.

- S23 would be a noise barrier with two segments located along the shoulder and ROW of I-39/90/94 southbound on either side of Patton Road. The segment on the south side of Patton Road is 1,805 feet in length, and the segment on the north side of Patton Road is 1,860 feet in length. The noise barrier would be 3,665 feet long with a height of 24 feet. The noise barrier is acoustically feasible as two receptor units achieve at least a 5 dBA reduction, at least one of which is an impacted receptor. S23 would have a maximum insertion loss of 6 dBA. This noise barrier would not achieve the noise reduction design goal of 9 dBA insertion loss for at least one receptor. The total cost of the noise barrier would be $2,638,320. The noise barrier would not benefit (achieve 8 dB insertion loss) any receptors. Noise barrier heights above 24 feet were not analyzed to determine if benefits could be achieved because noise barriers above this height require structural design considerations that result in greater costs to construct and may affect engineering feasibility. Therefore, this barrier is feasible, but not reasonable.
- S24 would be a noise barrier with two segments located along the shoulder of I-39/90/94 southbound on either side of County K. The segment on the south side of County K is 500 feet in length, and the segment on the north side of County K is 855 feet in length. The noise barrier would be 1,355 feet long with a height ranging from of 6 to 16 feet. The noise barrier is acoustically feasible as two receptor units achieve at least a 5 dBA reduction, at least one of which is an impacted receptor. S24 would have a maximum insertion loss of 9 dBA. The total cost of the noise barrier would be $590,340. The noise barrier would benefit (achieve 8 dB insertion loss) two receivers representing two receptor units, and the resulting cost per benefited receptor would be $295,170. Therefore, this barrier is feasible, but not reasonable.
- S25 would be located along the shoulder of I-39/90/94 southbound from approximately 3,800 feet south of WIS 60 to 600 feet south of WIS 60. The noise barrier would be 3,099 feet long with a height ranging from of 20 to 22 feet. The noise barrier is acoustically feasible as eight receptor units achieve at least a 5 dBA reduction, at least one of which is an impacted receptor. S25 would have a maximum insertion loss of 14 dBA. The total cost of the noise barrier would be $2,009,010. The noise barrier would benefit (achieve 8 dB insertion loss) five receivers representing five receptor units, and the resulting cost per benefited receptor would be $401,802. Therefore, this barrier is feasible, but not reasonable.

Table 4-3: Acoustical Mitigation – Noise Barrier Locations Analyzed in the South Section

Barrier Number	Locations	Existing $L_{eq(h)}$ Noise Levels, dBA	Range of Future $L_{eq(h)}$ Noise Levels, dBA		Noise Reduction (dB)	Barrier Characteristics		Cost[a]	Number of Benefited Receptors	Cost per Benefited Receptor	Feasible and Reasonable
			w/o Barrier	Barrier		Length (ft)	Height (ft)				
E1	Along I-39/90 southbound from the Wisconsin and Southern Railroad to Cottage Grove Rd.	60-66	70-79	61-68	8-15	6,535	7-21	$2,701,620	65	$41,563	NA[c]
E2	Along I-39/90 southbound from Cottage Grove Rd. to Milwaukee St.	55-65	NA[c]	57-65	NA[c]	4,644	5-21	NA[c]	NA[c]	NA[c]	NA[c]
S1	Along I-39/90 northbound from the Wisconsin and Southern Railroad to Cottage Grove Rd.	59-73	60-74	52-65	8-11	3,449	16-24	$2,358,060	31	$76,066	Y[b]
S2	Along I-39/90 northbound from Buckeye Rd. to Milwaukee St.	48-74	50-79	42-68	8-17	4,254	18-24	$2,918,880	229	$12,746	Y
S3	Along WIS 30 eastbound from Milwaukee St. to US 51	51-72	53-72	45-62	8-14	8,071	16-24	$5,217,870	208	$25,086	Y
S4	Along WIS 30 westbound from Walsh Rd. to approximately 300 feet east of Thompson Dr.	56-71	58-73	49-65	8-14	2,946	18-24	$1,906,650	35	$54,476	Y[b]
S5	Along WIS 30 westbound from approximately 400 feet east of North Thompson Dr. to 2,300 feet east of Thompson Dr.	67	66	58	8	1,900	24	$1,367,880	1	$1,367,880	N
S6[d]	Along I-94 eastbound from approximately 750 feet west of Town Center Dr. to Sprecher Rd.	37	42	34	8	1,941	24	$1,397,280	1	$1,397,280	N
S7	Along I-94 eastbound from Sprecher Rd. to approximately 300 feet west of proposed Milwaukee St.	57-69	60-72	51-64	8-13	3,092	14-24	$2,011,470	68	$29,580	Y
S8	Along I-94 westbound on either side of Gaston Rd.	68	69	61	8	2,739	24	$1,972,020	1	$1,972,020	N
S9	Along I-94 westbound at the Kennedy Little League baseball fields	70-71	67-68	59	8-9	1,900	22	$1,254,060	2	$627,030	N
S10	Along I-39/90/94 southbound from Commercial Ave. to High Crossing Blvd.	55-77	56-80	48-66	8-19	8,611	18-24	$6,039,510	126	$47,933	Y

Barrier Number	Locations	Existing $L_{eq(h)}$ Noise Levels, dBA	Range of Future $L_{eq(h)}$ Noise Levels, dBA		Noise Reduction (dB)	Barrier Characteristics		Cost[a]	Number of Benefited Receptors	Cost per Benefited Receptor	Feasible and Reasonable
			w/o Barrier	Barrier		Length (ft)	Height (ft)				
S11	Along I-39/90/94 northbound from north of the Wisconsin and Southern Railroad to High Crossing Blvd.	69-71	74-75	65-67	8-9	1,999	12-22	$1,235,970	3	$411,990	N
S12	Along US 151 westbound from American Pkwy. to I-39/90/94	69-70	71-73	63-64	8-9	1,024	16-20	$559,920	2	$279,960	N
S13	Along US 151 westbound from west of the Goodman Path to proposed Eastpark Blvd.	57-68	61-71	53-62	8-10	2,802	18-22	$1,700,910	43	$39,556	Y
S14	Along I-39/90/94 southbound from US 151 to approx. 1,700 feet south of Hanson Rd.	55-77	57-79	48-70	8-16	3,749	14-24	$2,503,380	554	$4,519	Y
S15	Along I-39/90/94 northbound from south of Eastpark Blvd. to Hoepker Rd.	65-69	67-72	59-64	8	5,037	24	$3,626,730	2	$1,813,365	N
S16	Along I-39/90/94 northbound from north of Hoepker Rd. to US 51	63-67	68-70	60-62	8-9	4,140	6-24	$2,825,070	3	$941,690	N
S17	Along I-39/90/94 southbound at Daentl Rd. near Token Creek	67-74	66-76	60-64	8-12	1,392	18-22	$827,670	7	$118,239	N
S18	Along I-39/90/94 NB from WIS 19 to River Rd.	65-75	67-76	57-64	8-14	8,151	10-22	$5,282,880	21	$251,566	N
S19	Along I-39/90/94 southbound on either side of River Rd.	65	66	58	8	3,160	24	$2,274,870	1	$2,274,870	N
S20	Along I-39/90/94 northbound from River Rd. to Innovation Dr.	72	73	64-65	8-9	1,011	10-18	$495,960	2	$247,980	N
S21	Along I-39/90/94 northbound from approx. 1,900 feet north of Innovation Dr. to 5,200 feet north of Innovation Dr.	66-70	66-71	58-62	8-9	3,200	18-24	$2,057,820	2	$1,028,910	N
S22	Along I-39/90/94 northbound from County V to Hahn Rd.	63-65	63-66	59-61	4-6	3,983	24	$2,867,730	0	NA	N
S23	Along I-39/90/94 southbound on either side of Patton Rd.	64-65	65-66	60-61	5-6	3,665	24	$2,638,320	0	NA	N
S24	Along I-39/90/94 southbound on either side of County K	72-77	73-79	65-70	8-9	1,355	6-16	$590,340	2	$295,170	N

Barrier Number	Locations	Existing $L_{eq(h)}$ Noise Levels, dBA	Range of Future $L_{eq(h)}$ Noise Levels, dBA		Noise Reduction (dB)	Barrier Characteristics		Cost[a]	Number of Benefited Receptors	Cost per Benefited Receptor	Feasible and Reasonable
			w/o Barrier	Barrier		Length (ft)	Height (ft)				
S25	Along I-39/90/94 southbound from approx. 3,800 feet south of WIS 60 to 600 feet south of WIS 60	67-74	68-76	60-62	8-14	3,099	20-22	$2,009,010	5	$401,802	N

[a] Based on $30.00 per square foot.

[b] Based on cost averaging of multiple barriers within the common noise environment.

[c] Existing noise barriers were analyzed to determine if they are feasible and reasonable as built. E1 is feasible and reasonable as built at under $50,000 per benefited receptor. No impact is predicted behind E2; therefore, no barrier analysis was completed. Noise level ranges are provided for all receptors behind E2. This barrier is being encroached upon by the roadway design for an approximate 900-foot section and that section will be replaced in kind.

[d] This barrier benefits a Land Use Category D receptor only.

4.3.2.2. North Section

The North Section analysis found four noise barriers were feasible and reasonable, including N6, N8, N10 and N7. One of these barriers, N7, is reasonable via cost averaging. The analyzed barriers are further described below.

- N1 would be located along the shoulder of I-39/90/94 southbound from approximately Smokey Hollow Road to Richards Road. The noise barrier would be 3,782 feet long and 22 feet high. The barrier is acoustically feasible as four receptor units achieve at least 5 dBA reduction, at least one of which is an impacted receptor. N1 would have a maximum insertion loss of 11 dBA. The total cost of the noise barrier would be $2,496,120. The noise barrier would benefit (achieve 8 dB insertion loss) four receivers representing four receptor units, and the resulting cost per benefited receptor would be $624,030. Therefore, this barrier is feasible, but not reasonable.
- N2 would be located along the shoulder of I-39/90/94 northbound from approximately Sanderson Road to Smokey Hollow Road. The noise barrier would be 2,218 feet long and 16 feet high. The barrier is acoustically feasible as two receptor units achieves at least 5 dBA reduction, at least one of which is an impacted receptor. N2 would have a maximum insertion loss of 8 dBA. This noise barrier would not achieve the noise reduction design goal of 9 dBA insertion loss for at least one receptor. The total cost of the noise barrier would be $1,064,640. The noise barrier would benefit (achieve 8 dB insertion loss) one receiver representing one receptor unit, and the resulting cost per benefited receptor would be $1,064,640. Therefore, this barrier is feasible, but not reasonable.
- N3 would be located along the shoulder of I-39/90/94 northbound from approximately Smokey Hollow Road to County CS. The noise barrier would be 1,400 feet long and 24 feet high. The barrier is acoustically feasible as two receptor units achieve at least 5 dBA reduction, at least one of which is an impacted receptor. N3 would have a maximum insertion loss of 7 dBA. This noise barrier would not achieve the noise reduction design goal of 9 dBA insertion loss for at least one receptor. The total cost of the noise barrier would be $1,008,000. The noise barrier would not benefit (achieve 8 dB insertion loss) any receptors. Noise barrier heights above 24 feet were not analyzed to determine if benefits could be achieved because noise barriers above this height require structural design considerations that result in greater costs to construct and may affect engineering feasibility. Therefore, this barrier is feasible, but not reasonable.
- N4 would be located along the shoulder of I-39/90/94 northbound from approximately County CS to Kent Road. The noise barrier would be 1,035 feet long and 18 feet high. The barrier is acoustically feasible as three receptor units achieve at least 5 dBA reduction, at least one of which is an impacted receptor. N4 would have a maximum insertion loss of 8 dBA. This noise barrier would not achieve the noise reduction design goal of 9 dBA insertion loss for at least one receptor. The total cost of the noise barrier would be $558,900. The noise barrier would benefit (achieve 8 dB insertion loss) three receivers representing three receptor units, and the resulting cost per benefited receptor would be $186,300. Therefore, this barrier is feasible, but not reasonable.
- N5 would be located along the shoulder of I-90/94 westbound from approximately County A to Bunker Road. The noise barrier would be 2,608 feet long and 18 feet high. The barrier is acoustically feasible as three receptor units achieve at least 5 dBA reduction, at least one of which is an impacted receptor. N5 would have a maximum insertion loss of 11 dBA. The total cost of the noise barrier would be $1,408,320. The noise barrier would benefit (achieve 8 dB insertion loss) one receiver representing one receptor unit, and the resulting cost per benefited receptor would be $1,408,320. Therefore, this barrier is feasible, but not reasonable.

- N6 would be located along the shoulder of I-90/94 westbound from approximately US 12 to Ishnala Road. The noise barrier would be 1,488 feet long and 20 feet high. The barrier is acoustically feasible as 28 receptor units achieve at least 5 dBA reduction, at least one of which is an impacted receptor. N6 would have a maximum insertion loss of 12 dBA. The total cost of the noise barrier would be $892,800. The noise barrier would benefit (achieve 8 dB insertion loss) 24 receivers representing receptor 24 units, and the resulting cost per benefited receptor would be $37,200. Therefore, this barrier is feasible and reasonable.
- N7 would be located along the shoulder of I-90/94 northbound from approximately Ishnala Road to Mirror Lake. The noise barrier would be 2,284 feet long and 20 feet high. The barrier is acoustically feasible as 15 receptor units achieve at least 5 dBA reduction, at least one of which is an impacted receptor. N7 would have a maximum insertion loss of 13 dBA. The total cost of the noise barrier would be $1,370,400. The noise barrier would benefit (achieve 8 dB insertion loss) 15 receivers representing 15 receptor units, and the resulting cost per benefited receptor would be $91,360. This barrier is feasible and reasonable by cost averaging (see **Attachment E**).
- N8 would be located along the shoulder of I-90/94 southbound from approximately Mirror Lake to Xanadu Road. The noise barrier would be 793 feet long and 12 feet high. The barrier is acoustically feasible as eight receptor units achieve at least 5 dBA reduction, at least one of which is an impacted receptor. N8 would have a maximum insertion loss of 13 dBA. The total cost of the noise barrier would be $285,480. The noise barrier would benefit (achieve 8 dB insertion loss) eight receivers representing eight receptor units, and the resulting cost per benefited receptor would be $35,685. Therefore, this barrier is feasible and reasonable.
- N9 would be located along the shoulder of I-90/94 northbound from approximately Mirror Lake to Xanadu Road. The noise barrier would be 1,778 feet long and 24 feet high. The barrier is acoustically feasible as two receptor units achieve at least 5 dBA reduction, at least one of which is an impacted receptor. N9 would have a maximum insertion loss of 8 dBA. This noise barrier would not achieve the noise reduction design goal of 9 dBA insertion loss for at least one receptor. The total cost of the noise barrier would be $1,280,160. The noise barrier would benefit (achieve 8 dB insertion loss) two receivers representing two receptor units, and the resulting cost per benefited receptor would be $640,080. Therefore, this barrier is feasible, but not reasonable.
- N10 would be a noise barrier with two segments located along the shoulder of I-90/94 southbound from approximately WIS 23 to Trout Road. The first segment extends from WIS 23 to the roadway bridge at Lake Blas for 2,517 feet, and the second segment extends from the roadway bridge to Trout Road for 5,202 feet. The total length would be 7,719 feet and 14 feet high. The barrier is acoustically feasible as 164 receptor units achieve at least 5 dBA reduction, at least one of which is an impacted receptor. N10 would have a maximum insertion loss of 14 dBA. The total cost of the noise barrier would be $3,241,980. The noise barrier would benefit (achieve 8 dB insertion loss) 62 receivers representing 106 receptor units, and the resulting cost per benefited receptor would be $30,585. Therefore, this barrier is feasible and reasonable.
- N11 would be located along the shoulder of I-90/94 northbound from approximately Jones Road to WIS 13. The noise barrier would be 3,208 feet long and 24 feet high. The barrier is not acoustically feasible as 0 receptor units achieve at least 5 dBA reduction. Noise barrier heights above 24 feet were not analyzed to determine if benefits could be achieved because noise barriers above this height require structural design considerations that result in greater costs to construct and may affect engineering feasibility. The total cost of the noise barrier would be $2,309,760. Therefore, this barrier is not feasible or reasonable.

- N12 would be located along the shoulder of I-90/94 southbound from approximately County H to US 12. The noise barrier would be 2,800 feet long and 24 feet high. The barrier is acoustically feasible as two receptor units achieve at least 5 dBA reduction, at least one of which is an impacted receptor. N12 would have a maximum insertion loss of 12 dBA. The total cost of the noise barrier would be $2,016,000. The noise barrier would benefit (achieve 8 dB insertion loss) two receivers representing two receptor units, and the resulting cost per benefited receptor would be $1,008,000. Therefore, this barrier is feasible, but not reasonable.
- N13 would be located along the shoulder of I-90/94 northbound from approximately County H to US 12. The noise barrier would be 1,891 feet long and 18 feet high. The barrier is acoustically feasible as five receptor units achieve at least 5 dBA reduction, at least one of which is an impacted receptor. N13 would have a maximum insertion loss of 9 dBA. The total cost of the noise barrier would be $1,021,140. The noise barrier would benefit (achieve 8 dB insertion loss) five receivers representing five receptor units, and the resulting cost per benefited receptor would be $204,228. Therefore, this barrier is feasible, but not reasonable.
- N14 would be located along the shoulder of I-90/94 northbound from approximately 60th Street to Dees Road. The noise barrier would be 4,002 feet long and 14 feet high. The barrier is acoustically feasible as nine receptor units achieve at least 5 dBA reduction, at least one of which is an impacted receptor. N14 would have a maximum insertion loss of 12 dBA. The total cost of the noise barrier would be $1,680,840. The noise barrier would benefit (achieve 8 dB insertion loss) nine receivers representing nine receptor units, and the resulting cost per benefited receptor would be $186,760. Therefore, this barrier is feasible, but not reasonable.

  A shorter version of N14 was also analyzed to confirm if a barrier design for N286 through N295 only could reach a cost per benefited receptor that would allow for eligibility for cost averaging. A barrier 2,251 feet in length at a height of 14 feet would be acoustically feasible with at least one impacted receptor achieving 5 dBA reduction and a maximum insertion loss of 11 dBA. However, the cost per benefited receptor would be $118,178 with 8 benefited receptor units and a total cost of $945,420.

Table 4-4: Acoustical Mitigation – Noise Barrier Locations Analyzed in the North Section

Barrier Number	Locations	Existing $L_{eq(h)}$ Noise Levels, dBA	Range of Future Leq(h) Noise Levels, dBA		Noise Reduction (dB)	Barrier Characteristics		Cost[a]	Number of Benefited Receptors	Cost per Benefited Receptor	Feasible and Reasonable
			w/o Barrier	Barrier		Length (ft)	Height (ft)				
N1	Along I-39/90/94 southbound from Smokey Hollow Rd. to Richards Rd.	69-71	70-72	59-63	8-11	3,782	22	$2,496,120	4	$624,030	N
N2	Along I-39/90/94 northbound from Sanderson Rd. to Smokey Hollow Rd.	70	69	61	8	2,218	16	$1,064,640	1	$1,064,640	N
N3	Along I-39/90/94 northbound from Smokey Hollow Rd. to County CS	71-75	69-71	64	5-7	1,400	24	$1,008,000	0	NA	N
N4	Along I-39/90/94 northbound from County CS to Kent Rd.	73-74	73-74	65-66	8	1,035	18	$558,900	3	$186,300	N
N5	Along I-90/94 WB from County A to Bunker Rd.	72	72	61	11	2,608	18	$1,408,320	1	$1,408,320	N
N6	Along I-90/94 WB from US 12 to Ishnala Rd.	72-76	72-76	61-72	8-12	1,488	20	$892,800	24	$37,200	Y
N7	Along I-90/94 northbound from Ishnala Rd. to Mirror Lake	71-75	72-77	63-67	9-13	2,284	20	$1,370,400	15	$91,360	Y[b]
N8	Along I-90/94 southbound from Mirror Lake to Xanadu Rd.	76-78	75-77	64-66	9-13	793	12	$285,480	8	$35,685	Y
N9	Along I-90/94 northbound from Mirror Lake to Xanadu Rd.	61-66	67-68	59-60	8	1,778	24	$1,280,160	2	$640,080	N

Barrier Number	Locations	Existing $L_{eq(h)}$ Noise Levels, dBA	Range of Future Leq(h) Noise Levels, dBA		Noise Reduction (dB)	Barrier Characteristics		Cost[a]	Number of Benefited Receptors	Cost per Benefited Receptor	Feasible and Reasonable
			w/o Barrier	Barrier		Length (ft)	Height (ft)				
N10	Along I-90/94 southbound from WIS 23 to Trout Rd.	42-76	43-77	38-69	8-14	7,719	14	$3,241,980	106	$30,585	Y
N11	Along I-90/94 northbound from Jones Rd. to WIS 13	54-66	55-66	55-64	0-3	3,208	24	$2,309,760	0	NA	N
N12	Along I-90/94 northbound from County H to US 12	69-75	71-75	63	8-12	2,800	24	$2,016,000	2	$1,008,000	N
N13	Along I-90/94 northbound from County H to US 12	68-72	70-72	62-63	8-9	1,891	18	$1,021,140	5	$204,228	N
N14	Along I-90/94 northbound from 60th St. to Dees Rd.	67-72	67-72	58-62	8-12	4,002	14	$1,680,840	9	$186,760	N

[a] Based on $30.00 per square foot.

[b] Based on cost averaging of multiple barriers within the common noise environment.

4.4. Information for Local Officials

To promote compatibility between future development and anticipated highway sound levels and to avoid future noise impacts, WisDOT notifies local officials of future traffic noise impacts on undeveloped lands not currently permitted. The distances to 66 dBA $L_{eq(h)}$ and 71 dBA $L_{eq(h)}$, which vary along the study corridor, were developed to assist local planning authorities in developing land use control over the remaining undeveloped lands along the study corridor to prevent further development of incompatible land use. The distances given in **Table 4-5** are measured from the centerline of the nearest lane on the future roadway. Within these setback distances, noise levels would be at the $L_{eq(h)}$ specified or greater. These distances are given along the study corridor in order to cover any areas that may be undeveloped.

Note that the distances to each noise level described below are approximations for each area as the topography adjacent to the future roadways vary considerably in the study area. In addition, these distances are given for ground level (5 feet above ground) receptors without potential building shielding taken into account; therefore, they may vary from noise impact results for developed areas in the study corridor.

Table 4-5: Noise Level Setback Distances

Section	Distance from Near Lane Centerline (ft)	
	Activity Category B/C – 66 dBA	Activity Category E – 71 dBA
I-94/WIS 30 Interchange to US 12/18 Interchange (I-39/90 southbound)	475	125
US 12/18 Interchange to I-94/WIS 30 Interchange (I-39/90 northbound)	500	200
Milwaukee St.	25	Within ROW
I-94/WIS 30 Interchange to US 51 (WIS 30 westbound)	250	175
US 51 to I-94/WIS 30 Interchange (WIS 30 eastbound)	250	175
Milwaukee St. Interchange to I-94/WIS 30 Interchange (I-94 westbound)	450	350
I-94/WIS 30 Interchange to Milwaukee St. Interchange (I-94 eastbound)	500	300
East of Milwaukee St. Interchange (I-94 westbound)	300	150
East of Milwaukee St. Interchange (I-94 eastbound)	300	150
Lien Rd. to I-94/WIS 30 Interchange (I-39/90/94 southbound)	500	200
I-94/WIS 30 Interchange to Lien Rd. (I-39/90/94 northbound)	500	200
US 151 Interchange to Lien Rd. (I-39/90/94 southbound)	600	400
Lien Rd. to US 151 Interchange (I-39/90/94 northbound)	600	400
US 151 Interchange to East Springs Dr. (US 151 westbound)	250	50

Section	Distance from Near Lane Centerline (ft)	
	Activity Category B/C – 66 dBA	Activity Category E – 71 dBA
East Springs Dr. to US 151 Interchange (US 151 eastbound)	250	50
American Pkwy. to US 151 Interchange (US 151 westbound)	150	50
US 151 Interchange to American Pkwy. (US 151 eastbound)	600	250
Reiner Rd. to American Pkwy. (US 151 westbound)	350	225
American Pkwy. to Reiner Rd. (US 151 eastbound)	350	225
Eastpark Blvd., North of US 151	25	Within ROW
High Crossing Blvd., South of US 151	45	Within ROW
Hanson Rd. to US 151 Interchange (I-39/90/94 southbound)	400	250
US 151 Interchange to Hanson Rd. (I-39/90/94 northbound)	400	125
Hoepker Rd. to Hanson Rd. (I-39/90/94 southbound)	500	300
Hanson Rd. to Hoepker Rd. (I-39/90/94 northbound)	600	300
WIS 19 to Hoepker Rd. (I-39/90/94 southbound)	500	300
Hoepker Rd. to WIS 19 (I-39/90/94 northbound)	450	175
County V to WIS 19 (I-39/90/94 southbound)	500	300
WIS 19 to County V (I-39/90/94 northbound)	500	250
WIS 60 to County V (I-39/90/94 southbound)	500	275
County V to WIS 60 (I-39/90/94 northbound)	400	150
Richards Rd. to WIS 60 (I-39/90/94 southbound)	545	310
WIS 60 to Richards Rd. (I-39/90/94 northbound)	610	380
County CS to Richards Rd. (I-39/90/94 southbound)	510	335
Richards Rd. to County CS (I-39/90/94 northbound)	735	410
County V to County CS (I-39/90/94 southbound)	600	355
County CS to County V (I-39/90/94 northbound)	505	115
WIS 78 to County U (I-39/90/94 southbound)	550	325
County U to WIS 78 (I-39/90/94 northbound)	550	360
WIS 33 to WIS 78 (I-90/94 southbound)	520	310
WIS 78 to WIS 33 (I-90/94 northbound)	440	170
WIS 33 to WIS 78 (I-39 southbound)	255	85
WIS 78 to WIS 33 (I-39 northbound)	220	60
Schepp Rd. to WIS 33 (I-90/94 southbound)	545	195

Section	Distance from Near Lane Centerline (ft)	
	Activity Category B/C – 66 dBA	Activity Category E – 71 dBA
WIS 33 to Schepp Rd. (I-90/94 northbound)	260	95
County T to Schepp Rd. (I-90/94 southbound)	490	340
Schepp Rd. to County T (I-90/94 northbound)	445	270
Gillem Rd. to County T (I-90/94 southbound)	485	270
County T to Gillem Rd. (I-90/94 northbound)	445	140
County A to Gillem Rd. (I-90/94 southbound)	485	320
Gillem Rd. to County A (I-90/94 northbound)	450	270
US 12 to County A (I-90/94 southbound)	470	275
County A to US 12 (I-90/94 northbound)	465	290
US 12 to Ishnala Rd. (I-90/94 northbound)	520	315
Ishnala Rd. to US 12 (I-90/94 southbound)	325	215
WIS 13 to Trout Rd. (I-90/94 southbound)	600	350
Trout Rd. to WIS 13 (I-90/94 northbound)	450	270
US 12 to County H (I-90/94 southbound)	515	275
County H to US 12 (I-90/94 northbound)	440	285
Dees Rd. to US 12 (I-90/94 southbound)	395	155
US 12 to Dees Rd. (I-90/94 northbound)	510	295

5. Conclusions and Recommendations

WisDOT has identified noise receptors that would be exposed to future year (2050) noise levels approaching or exceeding the WisDOT NLC. Predicted future year (2050) exterior traffic noise levels for modeled receivers range from 37 to 80 dBA $L_{eq(h)}$. Changes in $L_{eq(h)}$ noise levels under in the future year will range from -8 to 16 dBA compared to existing conditions. The future noise levels predicted with TNM2.5 indicate that 1,217 representative noise receivers representing 1,598 receptor units would be exposed to $L_{eq(h)}$ noise levels that approach or exceed the NLC, including 1,135 receivers representing 1,516 residential receptor units (Land Use Category B), 70 receivers representing 70 outdoor use receptor units (Land Use Category C) at 23 facilities, and 12 receivers representing 12 outdoor use receptor units at hotels, restaurants or offices (Land Use Category E) at 11 facilities. A summary of the impact counts is presented in **Table 5-1**.

Table 5-1: Total Receiver and Receptor Impact Counts

Land Use Activity Category	Number of Facilities Impacted			Number of Representative Receivers Impacted			Number of Receptors Units Impacted		
	South Section	North Section	Total	South Section	North Section	Total	South Section	North Section	Total
A	0	0	**0**	0	0	**0**	0	0	**0**
B	0	0	**0**	984	151	**1,135**	1,300	216	**1,516**
C	15	8	**23**	31	39	**70**	31	39	**70**
D	0	0	**0**	0	0	**0**	0	0	**0**
E	11	0	**11**	12	0	**12**	12	0	**12**
Total	**26**	**8**	**34**	**1,027**	**190**	**1,217**	**1,343**	**255**	**1,598**

The study analyzed two existing noise barriers and 39 new noise barriers. Of the 39 new noise barriers analyzed across both sections of the study corridor, 12 noise barriers were found feasible and reasonable, including three via cost averaging. Twenty-six noise barriers were found feasible, but not reasonable and one noise barrier was found not feasible or reasonable. Existing noise barrier E1 was analyzed and found to be feasible and reasonable as built and will remain in place. E2 is considered a replacement in kind due to the proposed relocation of an approximate 900-foot section. There is no predicted noise impact behind this replacement barrier; therefore, no further noise abatement evaluation was completed.

5.1. Statement of Likelihood

Based on the studies thus far accomplished, WisDOT is likely to incorporate the noise barriers shown as feasible and reasonable in **Table 4-3** and **Table 4-4**, pending final design and public involvement. The preliminary indications of likely abatement measures are based on preliminary design for the barrier cost and noise reduction. WisDOT will initiate a separate public involvement process to determine whether or not the benefited owners and tenants support noise barrier construction. If final design results in substantial changes in roadway design from modeled conditions, noise abatement measures will be reviewed.

5.2. Construction Noise

The I-39/90/94 Corridor Study has numerous adjacent land uses and as a result, numerous noise-sensitive areas that may be affected by construction noise. Noise would be generated by construction equipment used to reconstruct Interstate and portions of local roadway within the study corridor. Typical construction equipment includes dump trucks, graders, cranes, bulldozers, pile-driving equipment and pavement construction equipment. The noise generated by the construction equipment will vary greatly depending on the equipment type and model, mode and duration of operation and specific type of work effort; however, typical noise levels may occur in the 75 to 95 dBA range at a distance of 50 feet. **Table 5-2** shows other distance-typical noise level ranges related to construction.

Variations in building setbacks and land use, local intensity of specific construction activities and sequencing and timing of construction will result in varying degrees of exposure to construction noise and hence, varying levels of resulting construction noise impacts. Adverse effects related to construction noise are anticipated to be localized, temporary and transient. WisDOT will conduct a public involvement process to inform noise-sensitive receptors about construction activities. Construction noise would be controlled in accordance with FDM 23, Section 23-40-1.

WisDOT Standard Specifications 107.8(6) and 108.7.1 will apply. This includes checking for and complying with local ordinances governing the hours for operation of construction equipment and obtaining the engineer's written approval for operations between the hours of 10:00 p.m. to 6:00 a.m. Pursuant to WisDOT Standard Specification 108.7.1(3), motorized construction equipment will be required to have mufflers constructed in accordance with the equipment manufacturer's specifications or a system of equivalent noise-reducing capacity. WisDOT will also require that mufflers and exhaust systems are maintained in good operating condition, free of leaks and holes.

Table 5-2: Construction Noise/Distance Relationships

Distance from Construction Site (feet)	Ranges of Typical Noise Levels (dBA)[1]
25	82 – 102
50	75 – 95
100	69 – 89
200	63 – 83
300	59 – 79
400	57 – 77
500	55 – 75
1000	49 – 69

[1] Point Sources = 6 dBA reduction per doubling of distance (Source: EPA and WisDOT)

Table Source: FDM 23-40-1.2, Attachment 1.1

6. References

FHWA, Frequently Asked Questions: Traffic Noise Model 3.2, FHWA-HEP-24-013, https://www.fhwa.dot.gov/environment/noise/traffic_noise_model/tnm_v32/tnm32-faq-2023.pdf, December 2023.

FHWA, "Highway Traffic Noise: Analysis and Abatement Guidance", FHWA-HEP-10-035, https://www.in.gov/indot/files/FHWA-Highway-Traffic-Noise-Analysis-and-Abatement-Guidance-December-2011.pdf, December 2011.

FHWA, Procedures for Abatement of Highway Traffic Noise and Construction Noise, Code of Federal Regulations, Title 23 Part 772 (23 CFR 722), July 13, 2010.

FHWA, Recommended Best Practices for the Use of the FHWA Traffic Noise Model (TNM), TNM Object Input, Noise Barrier Optimization, and Quality Assurance, Final Report, December 8, 2015

WisDOT, Bridge Manual, Chapter 30: Railings, July 2021.

WisDOT, Facilities Development Manual, Chapter 23: Noise, July 28, 2011. Last updated February 15, 2024.

Attachment A. Noise Analysis Receiver Location Maps



South Section
CNE 1





Legend

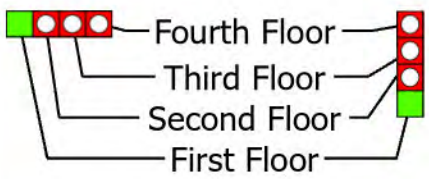
- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

RECEIVER RESULTS BY FLOOR



Note: Receiver ID may represent multiple floors or receptor dwelling units. If one symbol is shown, results are the same for all floors.

If the floor is not indicated, generally it is a ground floor receiver. Some receivers where floor is not indicated represent upper floor outdoor use at multi-family buildings.

See detailed results by receiver in Attachment D for floor information.

N

Feet
0 300 600

South Section
CNE 1





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

RECEIVER RESULTS BY FLOOR



Note: Receiver ID may represent multiple floors or receptor dwelling units. If one symbol is shown, results are the same for all floors.

If the floor is not indicated, generally it is a ground floor receiver. Some receivers where floor is not indicated represent upper floor outdoor use at multi-family buildings.

See detailed results by receiver in Attachment D for floor information.

N

Feet
0 300 600



South Section
CNE 1





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

RECEIVER RESULTS BY FLOOR



Note: Receiver ID may represent multiple floors or receptor dwelling units. If one symbol is shown, results are the same for all floors.

If the floor is not indicated, generally it is a ground floor receiver. Some receivers where floor is not indicated represent upper floor outdoor use at multi-family buildings.

See detailed results by receiver in Attachment D for floor information.

N

Feet
0 300 600

South Section
CNE 1





Legend

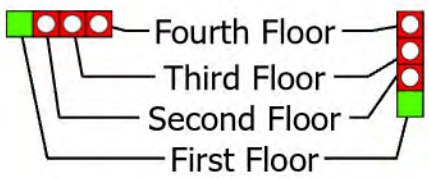
- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

RECEIVER RESULTS BY FLOOR



Note: Receiver ID may represent multiple floors or receptor dwelling units. If one symbol is shown, results are the same for all floors.

If the floor is not indicated, generally it is a ground floor receiver. Some receivers where floor is not indicated represent upper floor outdoor use at multi-family buildings.

See detailed results by receiver in Attachment D for floor information.

Note: Impacts shown behind existing barriers are with the existing barrier in place. Results of the barrier analysis for these barriers are given in Table 4-1, and barrier analysis results by receiver, including benefits behind the existing barrier based on future year noise levels with and without the barrier in place, are given in Table D-1 in Appendix D.

N

Feet
0 300 600

South Section
CNE 1





Note: Some receivers represent 2nd through 5th floor only as the 1st floor is garages.

Note: Some receivers represent 2nd through 4th floor only as the 1st floor is garages.

Note: Impacts shown behind existing barriers are with the existing barrier in place. Results of the barrier analysis for these barriers are given in Table 4-1, and barrier analysis results by receiver, including benefits behind the existing barrier based on future year noise levels with and without the barrier in place, are given in Table D-1 in Appendix D.

Legend

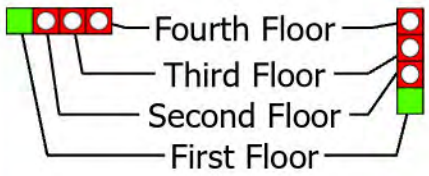
- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

RECEIVER RESULTS BY FLOOR



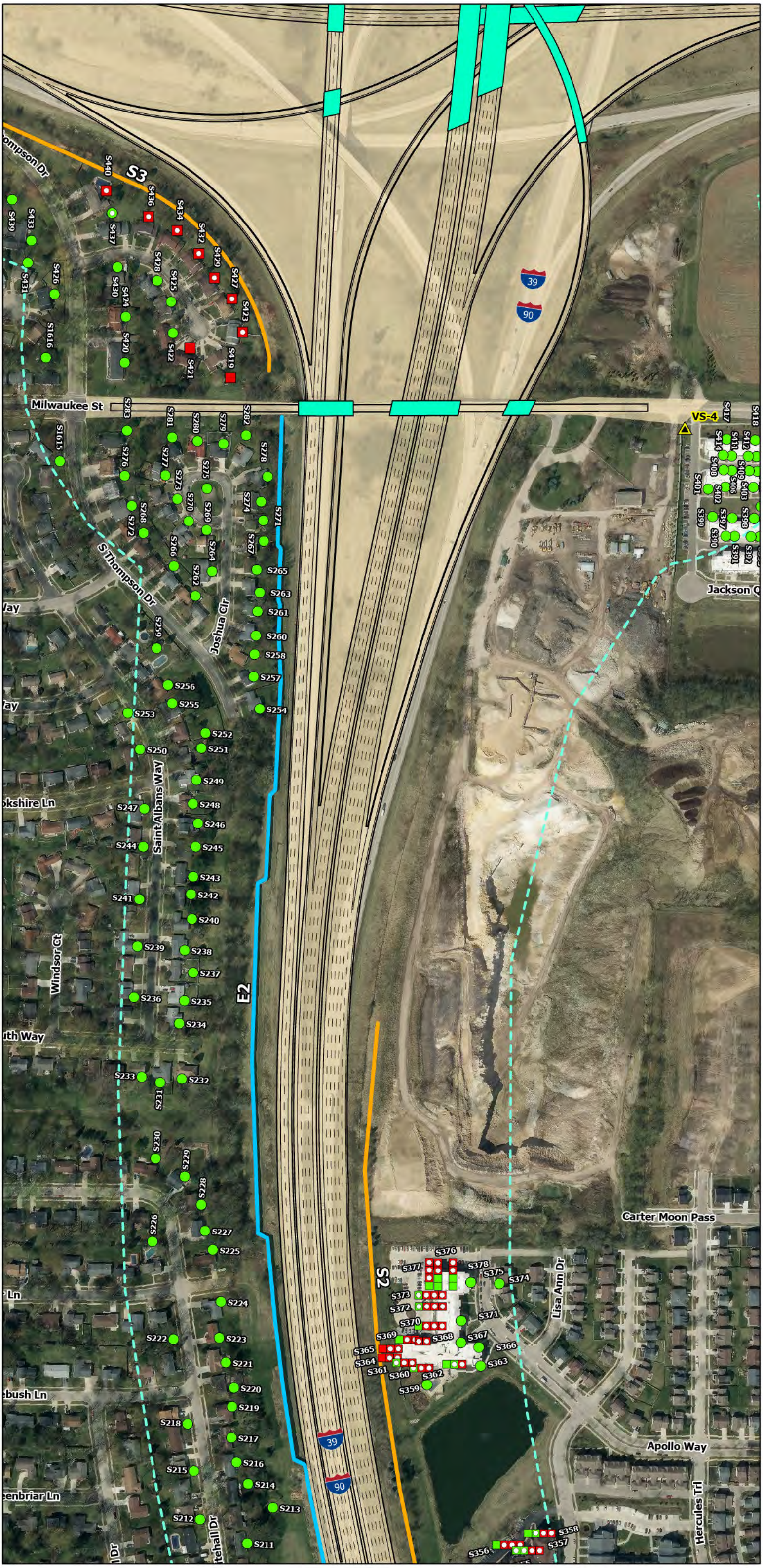
Note: Receiver ID may represent multiple floors or receptor dwelling units. If one symbol is shown, results are the same for all floors.

If the floor is not indicated, generally it is a ground floor receiver. Some receivers where floor is not indicated represent upper floor outdoor use at multi-family buildings.

See detailed results by receiver in Attachment D for floor information.

N

Feet
0 300 600



South Section
CNE 1





Legend

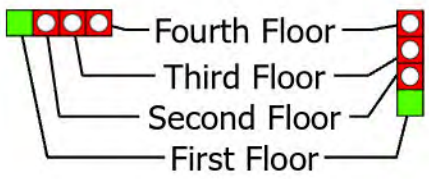
- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

RECEIVER RESULTS BY FLOOR



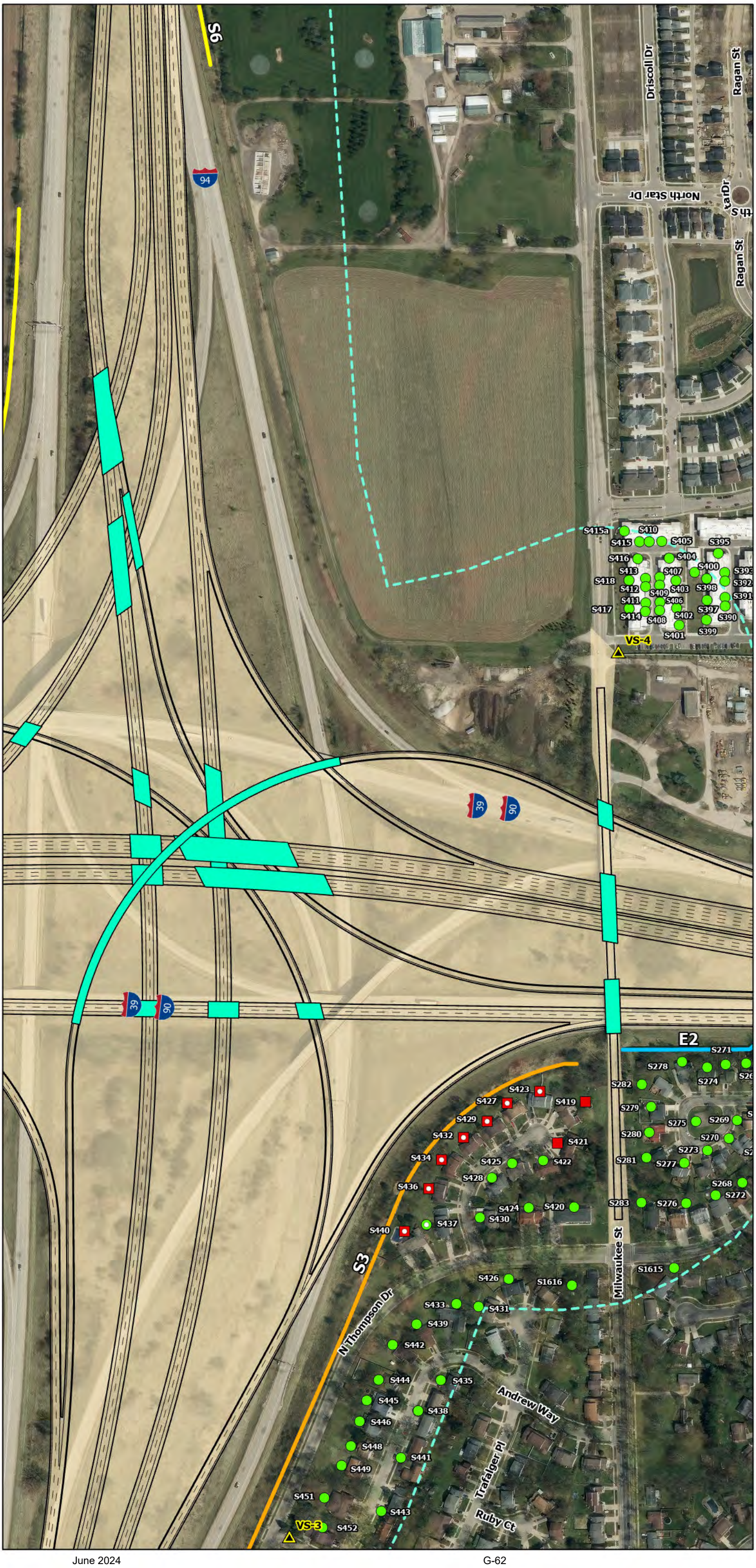
Note: Receiver ID may represent multiple floors or receptor dwelling units. If one symbol is shown, results are the same for all floors.

If the floor is not indicated, generally it is a ground floor receiver. Some receivers where floor is not indicated represent upper floor outdoor use at multi-family buildings.

See detailed results by receiver in Attachment D for floor information.

N

Feet
0 300 600



South Section
CNE 1





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

RECEIVER RESULTS BY FLOOR



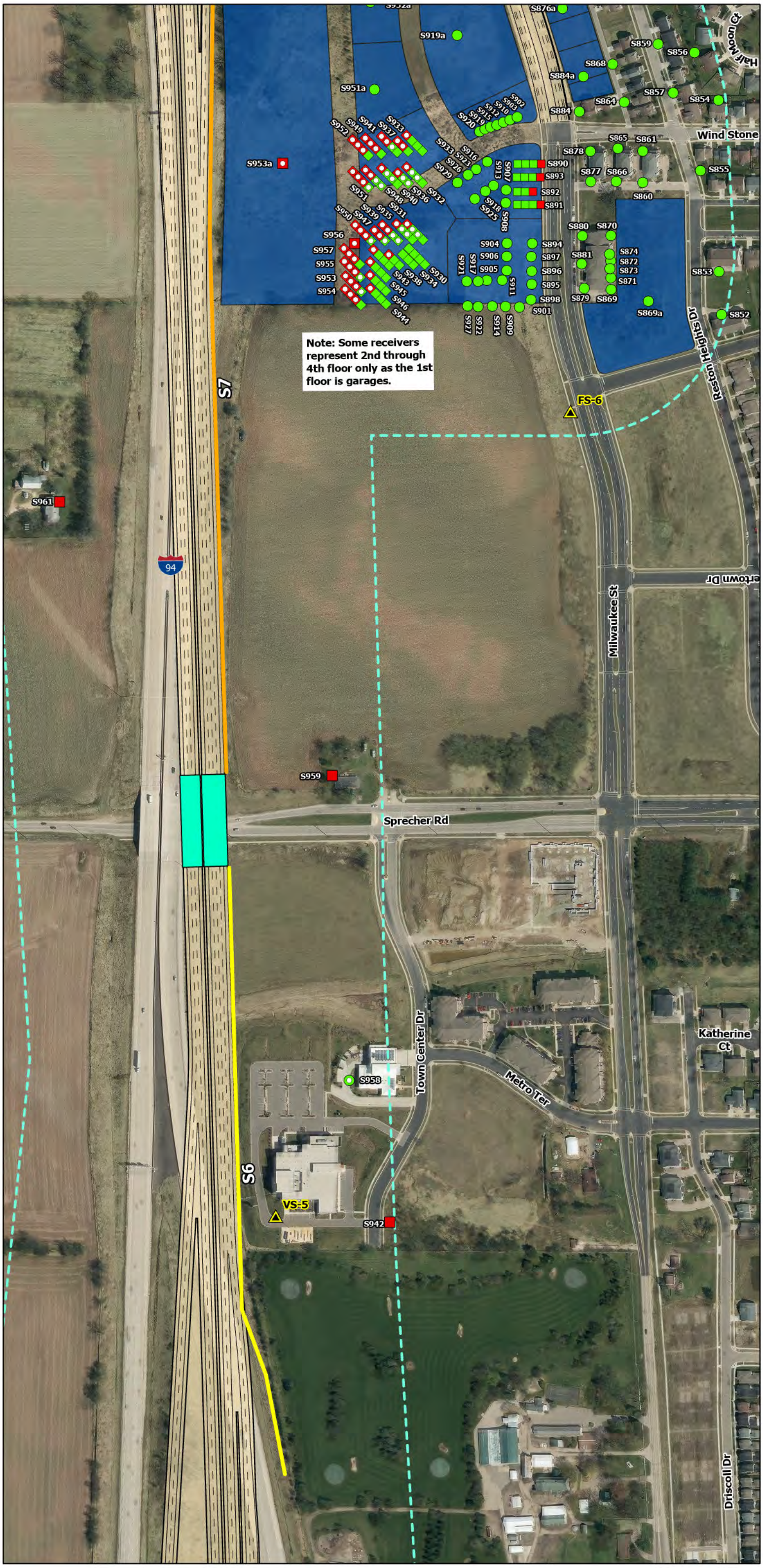
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If the floor is not indicated, generally it is a ground floor receiver. Some receivers where floor is not indicated represent upper floor outdoor use at multi-family buildings.

See detailed results by receiver in Attachment D for floor information.

N

Feet
0 300 600



South Section
CNE 1





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

RECEIVER RESULTS BY FLOOR



Note: Receiver ID may represent multiple floors or receptor dwelling units. If one symbol is shown, results are the same for all floors.

If the floor is not indicated, generally it is a ground floor receiver. Some receivers where floor is not indicated represent upper floor outdoor use at multi-family buildings.

See detailed results by receiver in Attachment D for floor information.

N

Feet
0 300 600

South Section
CNE 1





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

RECEIVER RESULTS BY FLOOR



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If the floor is not indicated, generally it is a ground floor receiver. Some receivers where floor is not indicated represent upper floor outdoor use at multi-family buildings.

See detailed results by receiver in Attachment D for floor information.

N

Feet
0 300 600



South Section
CNE 1





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

RECEIVER RESULTS BY FLOOR



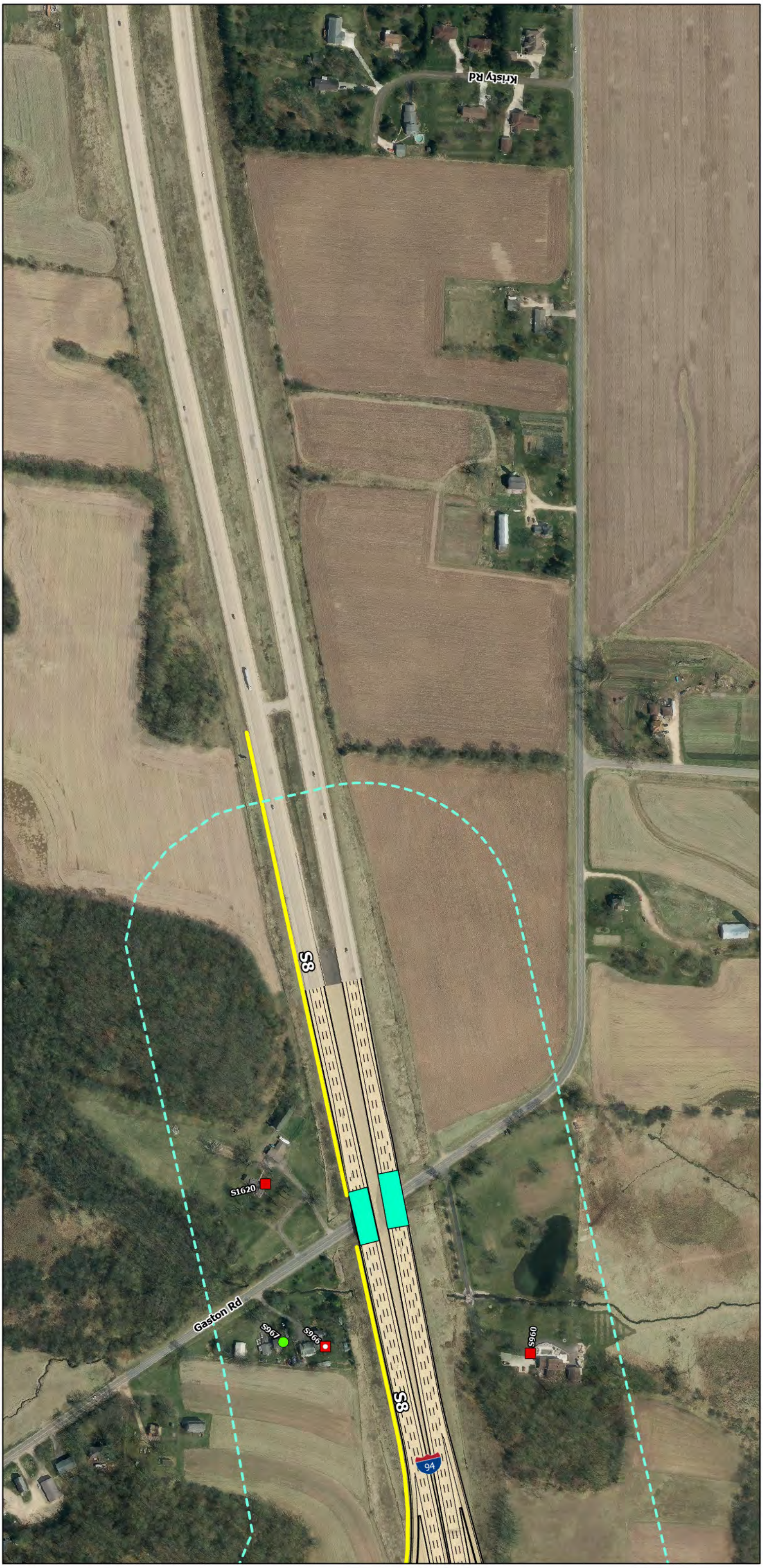
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N

Feet
0 300 600



South Section
CNE 1





Legend

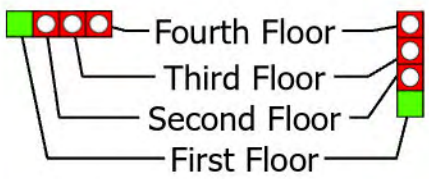
- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
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- Measurement Sites

Receivers

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- Not Impacted or Benefited
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DRAFT

RECEIVER RESULTS BY FLOOR



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N

Feet
0 300 600

South Section
CNE 1





Legend

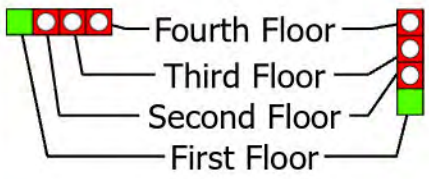
- County Boundaries
- 500 ft Noise Study Area
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- Proposed Structures
- Project Linework
- Existing Noise Barrier
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Receivers

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DRAFT

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N

Feet
0 300 600



South Section
CNE 1





Legend

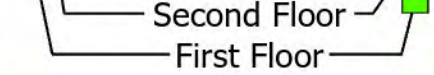
- County Boundaries
- 500 ft Noise Study Area
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- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
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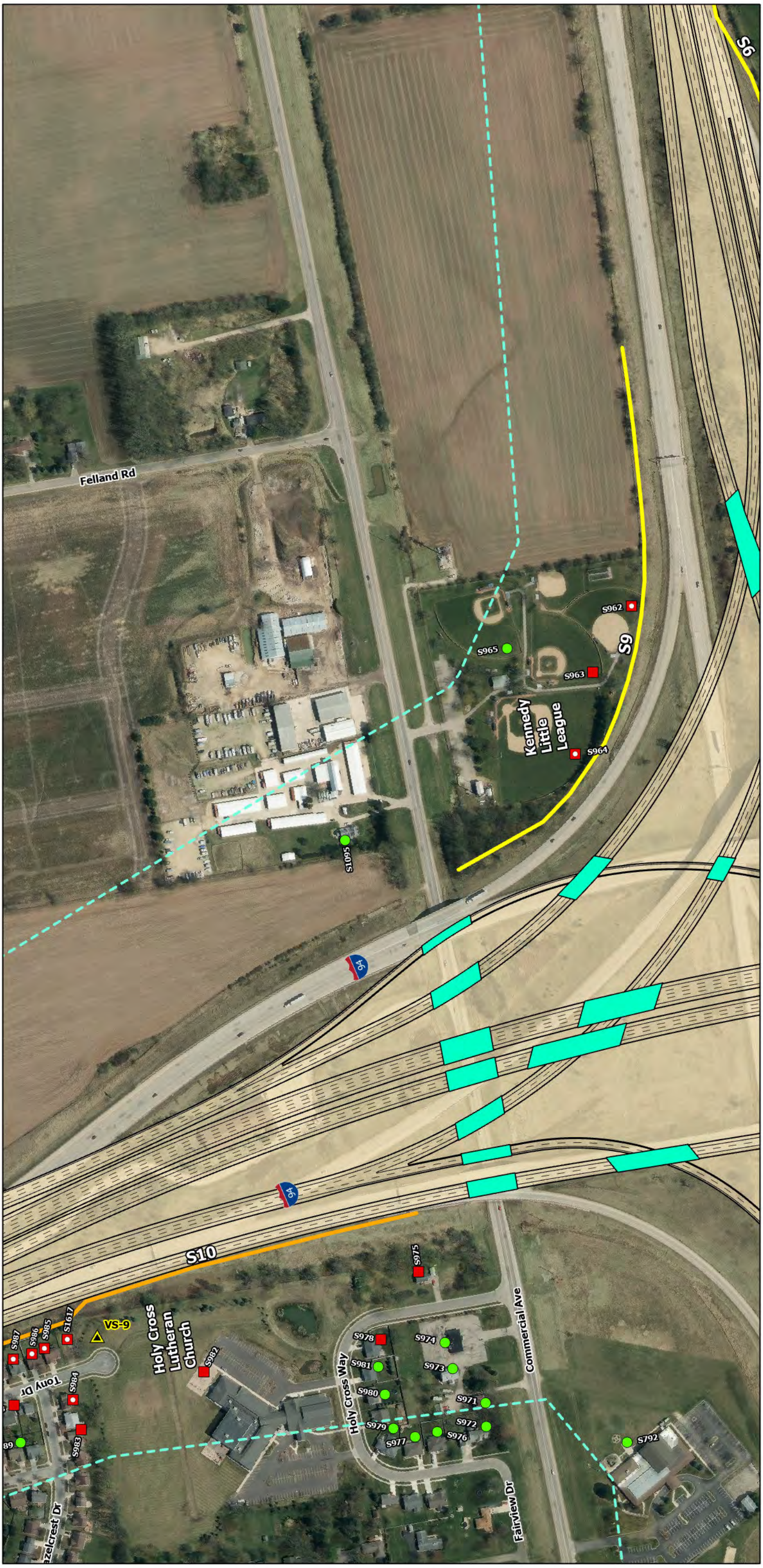
N

Feet
0 300 600

South Section
CNE 1







Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

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- Not Impacted or Benefited
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DRAFT

RECEIVER RESULTS BY FLOOR



Note: Receiver ID may represent multiple floors or receptor dwelling units. If one symbol is shown, results are the same for all floors.

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N

Feet
0 300 600

South Section
CNE 1





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
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DRAFT

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N

Feet
0 300 600

South Section
CNE 1





Legend

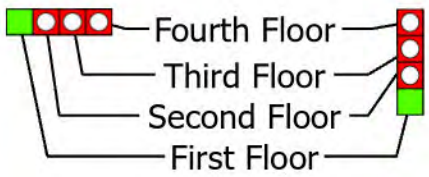
- County Boundaries
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- Permitted Parcels
- Proposed Structures
- Project Linework
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- Feasible Not Reasonable Noise Barrier
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DRAFT

RECEIVER RESULTS BY FLOOR



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N

Feet
0 300 600

South Section
CNE 1





Legend

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- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
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N

Feet
0 300 600

South Section
CNE 1





Legend

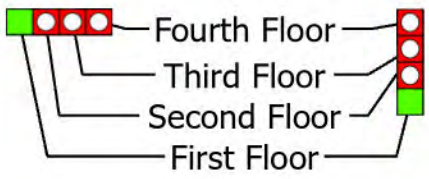
- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
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- Measurement Sites

Receivers

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DRAFT

RECEIVER RESULTS BY FLOOR



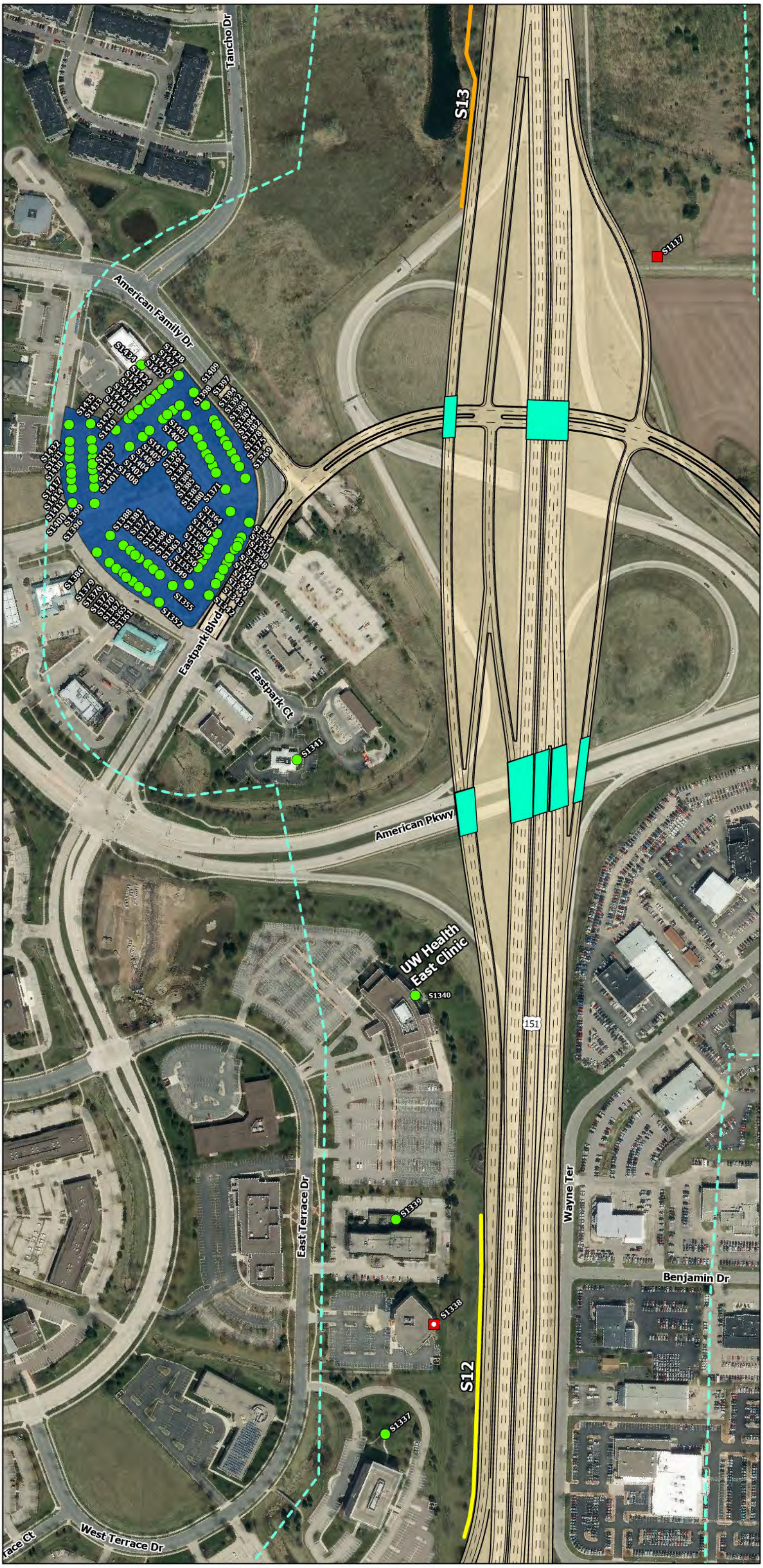
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If the floor is not indicated, generally it is a ground floor receiver. Some receivers where floor is not indicated represent upper floor outdoor use at multi-family buildings.

See detailed results by receiver in Attachment D for floor information.

N

Feet
0 300 600



South Section
CNE 1





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
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- Measurement Sites

Receivers

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- Impacted, Not Benefited
- Not Impacted or Benefited
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DRAFT

RECEIVER RESULTS BY FLOOR



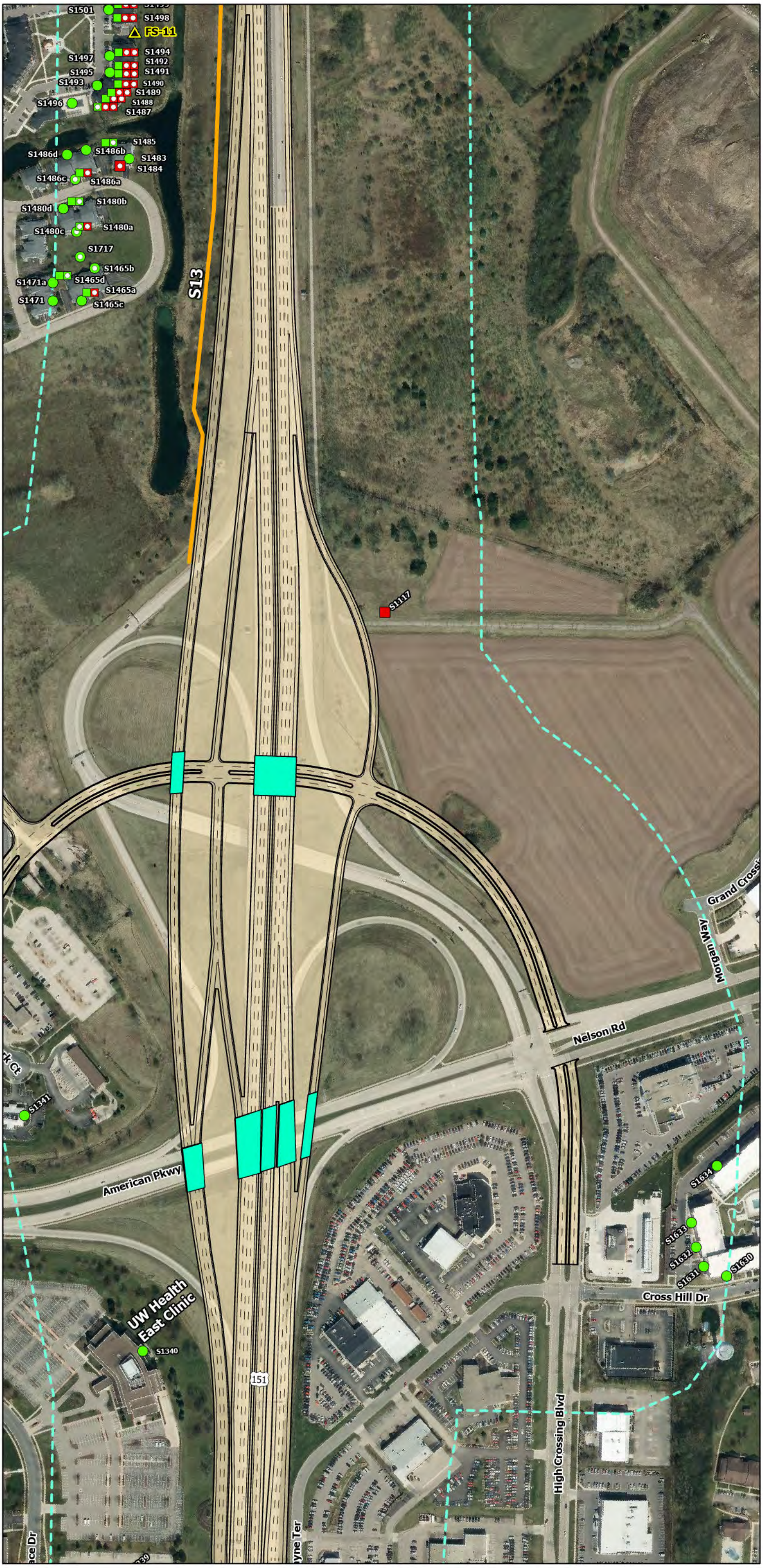
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See detailed results by receiver in Attachment D for floor information.

N

Feet
0 300 600



South Section
CNE 1





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

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DRAFT

RECEIVER RESULTS BY FLOOR



Note: Receiver ID may represent multiple floors or receptor dwelling units. If one symbol is shown, results are the same for all floors.

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N

Feet
0 300 600

South Section
CNE 1







Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

RECEIVER RESULTS BY FLOOR



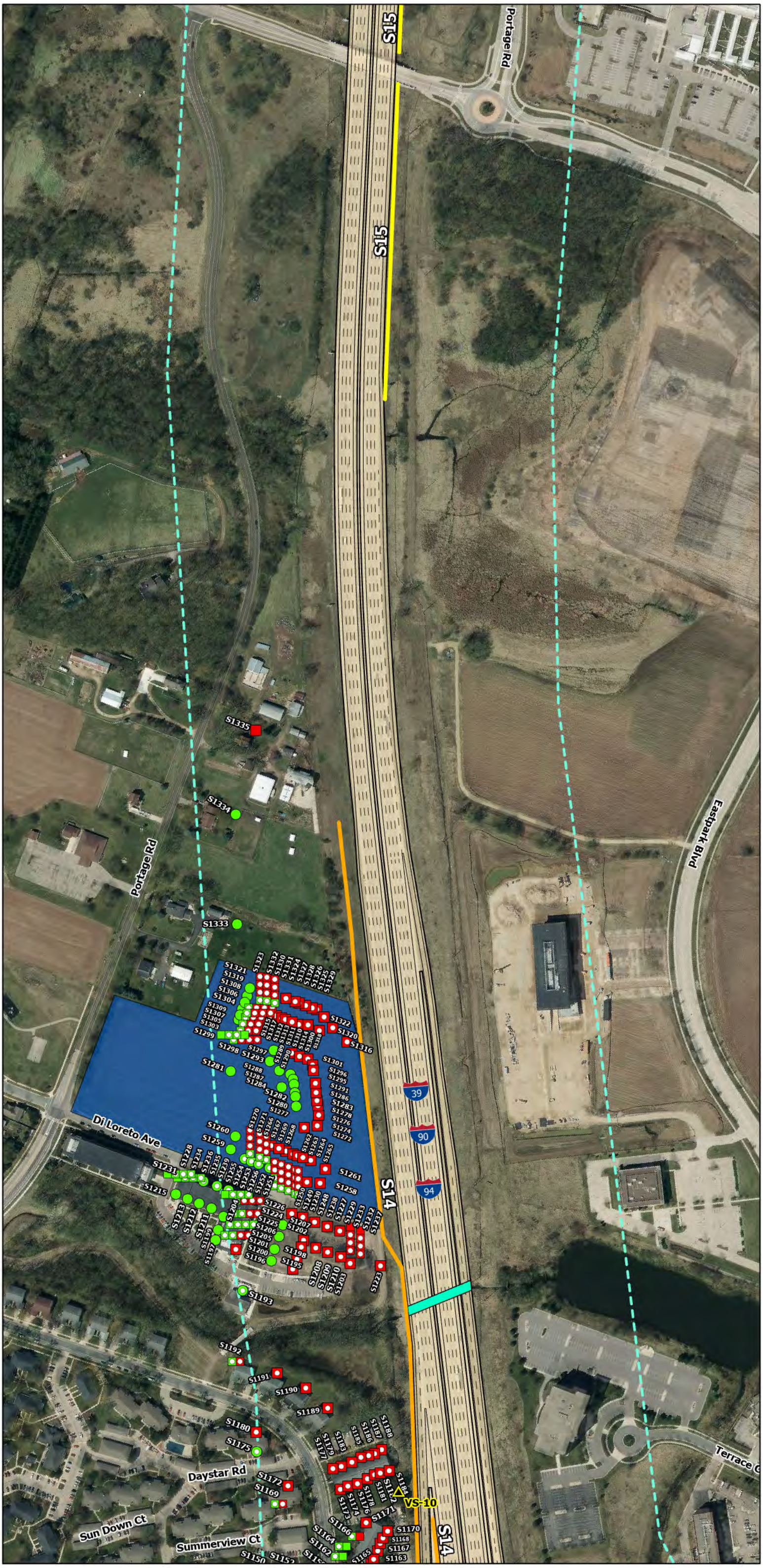
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N

Feet
0 300 600



South Section
CNE 1





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

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DRAFT

RECEIVER RESULTS BY FLOOR



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See detailed results by receiver in Attachment D for floor information.

N

Feet
0 300 600



South Section
CNE 1





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
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DRAFT

RECEIVER RESULTS BY FLOOR



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See detailed results by receiver in Attachment D for floor information.

N

Feet
0 300 600

South Section
CNE 1





PORTAGE ROAD
Manufacturers Dr
Hoepker Rd
John Wall Dr
S16
S15
S1512
S1513
S1645a
S1645b
S1645c
S1645d
S1645e
S1646
FS-14
39
90
94

Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
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DRAFT

RECEIVER RESULTS BY FLOOR



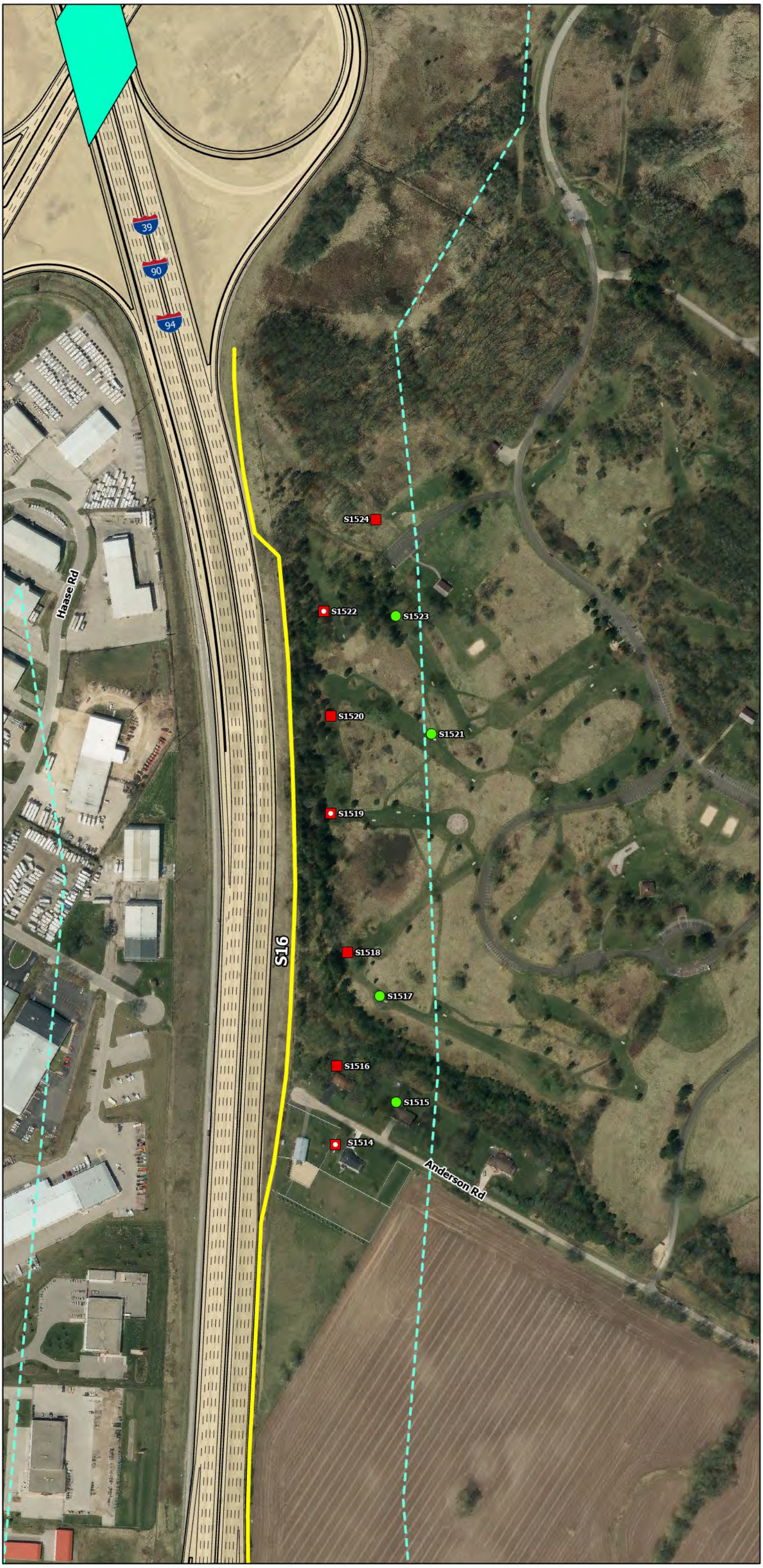
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N

Feet
0 300 600



South Section
CNE 1





Legend

- County Boundaries
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- Permitted Parcels
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- Not Impacted and Benefited

DRAFT

RECEIVER RESULTS BY FLOOR



Note: Receiver ID may represent multiple floors or receptor dwelling units. If one symbol is shown, results are the same for all floors.

If the floor is not indicated, generally it is a ground floor receiver. Some receivers where floor is not indicated represent upper floor outdoor use at multi-family buildings.

See detailed results by receiver in Attachment D for floor information.

N

Feet
0 300 600



South Section
CNE 1





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

RECEIVER RESULTS BY FLOOR



Note: Receiver ID may represent multiple floors or receptor dwelling units. If one symbol is shown, results are the same for all floors.

If the floor is not indicated, generally it is a ground floor receiver. Some receivers where floor is not indicated represent upper floor outdoor use at multi-family buildings.

See detailed results by receiver in Attachment D for floor information.

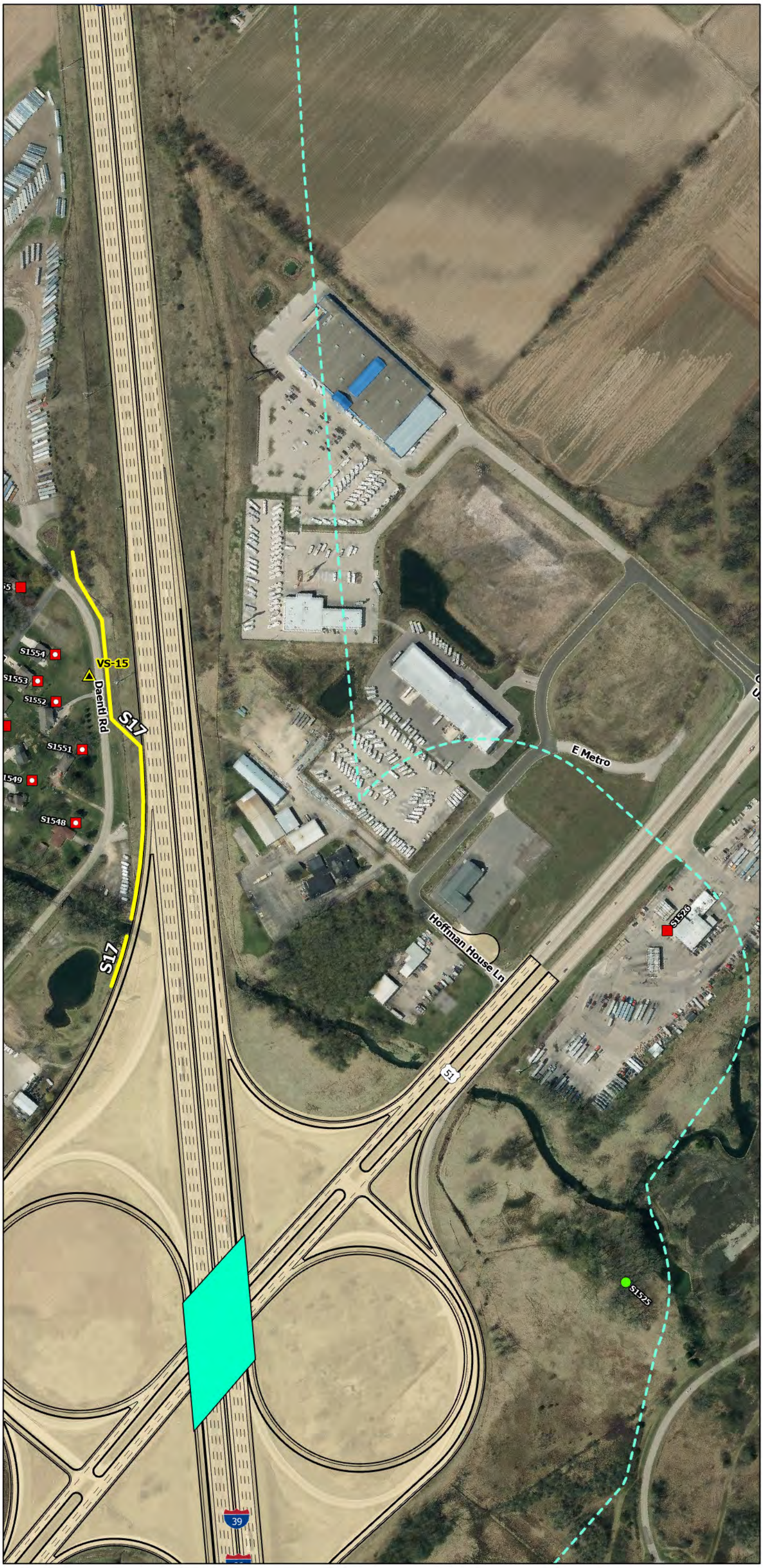
N

Feet
0 300 600

South Section
CNE 1







Legend

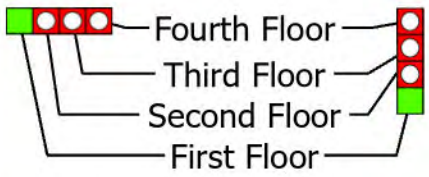
- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

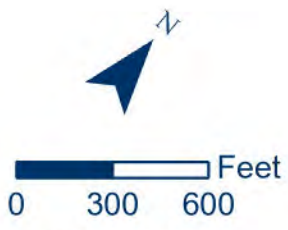
RECEIVER RESULTS BY FLOOR

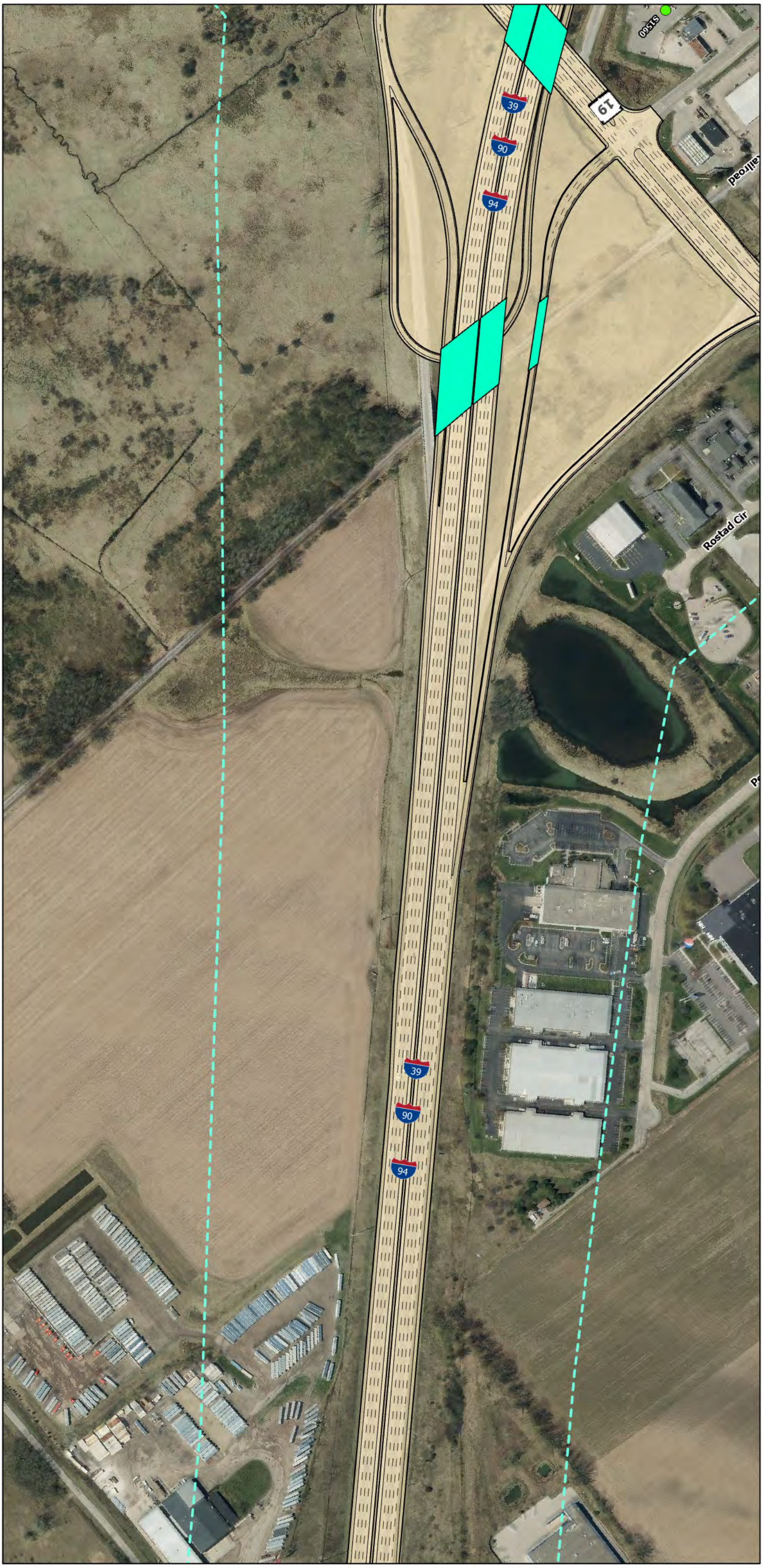


Note: Receiver ID may represent multiple floors or receptor dwelling units. If one symbol is shown, results are the same for all floors.

If the floor is not indicated, generally it is a ground floor receiver. Some receivers where floor is not indicated represent upper floor outdoor use at multi-family buildings.

See detailed results by receiver in Attachment D for floor information.





South Section
CNE 1





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

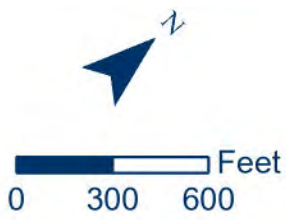
RECEIVER RESULTS BY FLOOR

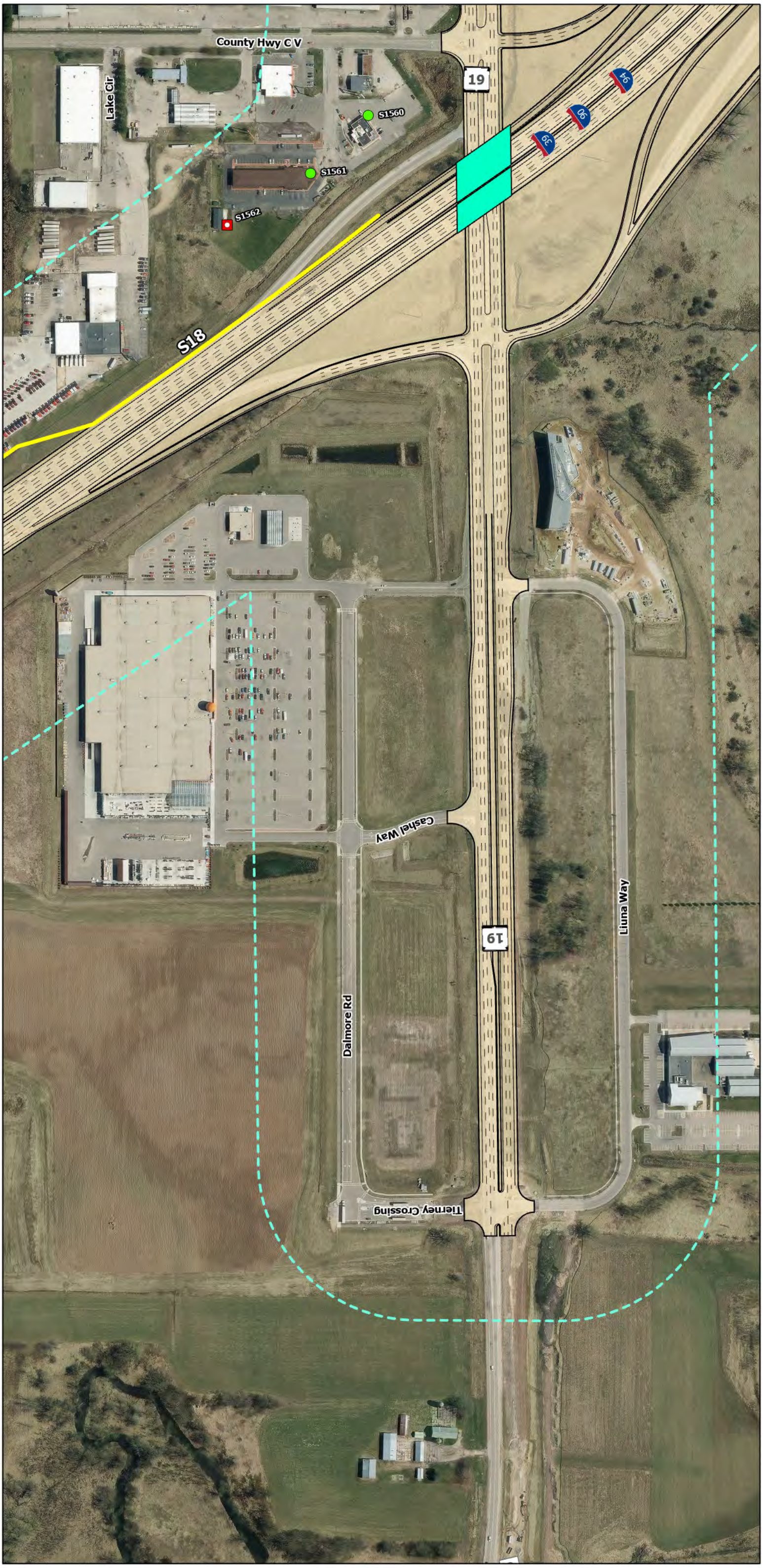


Note: Receiver ID may represent multiple floors or receptor dwelling units. If one symbol is shown, results are the same for all floors.

If the floor is not indicated, generally it is a ground floor receiver. Some receivers where floor is not indicated represent upper floor outdoor use at multi-family buildings.

See detailed results by receiver in Attachment D for floor information.





South Section
CNE 1





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

RECEIVER RESULTS BY FLOOR



Note: Receiver ID may represent multiple floors or receptor dwelling units. If one symbol is shown, results are the same for all floors.

If the floor is not indicated, generally it is a ground floor receiver. Some receivers where floor is not indicated represent upper floor outdoor use at multi-family buildings.

See detailed results by receiver in Attachment D for floor information.

N

Feet
0 300 600



South Section
CNE 1





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

RECEIVER RESULTS BY FLOOR



Note: Receiver ID may represent multiple floors or receptor dwelling units. If one symbol is shown, results are the same for all floors.

If the floor is not indicated, generally it is a ground floor receiver. Some receivers where floor is not indicated represent upper floor outdoor use at multi-family buildings.

See detailed results by receiver in Attachment D for floor information.

N

Feet
0 300 600



South Section
CNE 1





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

RECEIVER RESULTS BY FLOOR



Note: Receiver ID may represent multiple floors or receptor dwelling units. If one symbol is shown, results are the same for all floors.

If the floor is not indicated, generally it is a ground floor receiver. Some receivers where floor is not indicated represent upper floor outdoor use at multi-family buildings.

See detailed results by receiver in Attachment D for floor information.

N

Feet
0 300 600

South Section
CNE 1





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

RECEIVER RESULTS BY FLOOR



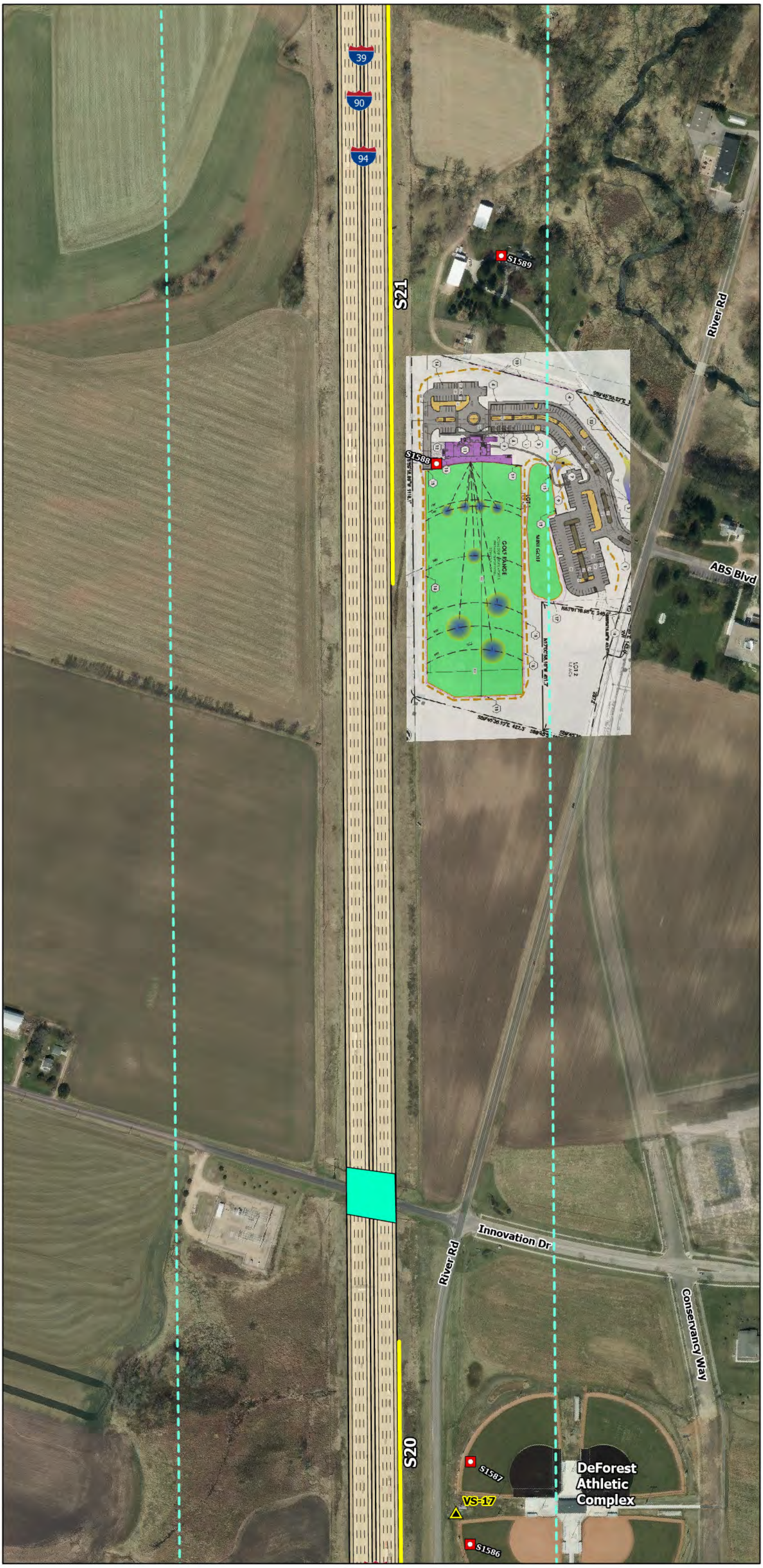
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If the floor is not indicated, generally it is a ground floor receiver. Some receivers where floor is not indicated represent upper floor outdoor use at multi-family buildings.

See detailed results by receiver in Attachment D for floor information.

N

Feet
0 300 600



South Section
CNE 1





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

RECEIVER RESULTS BY FLOOR



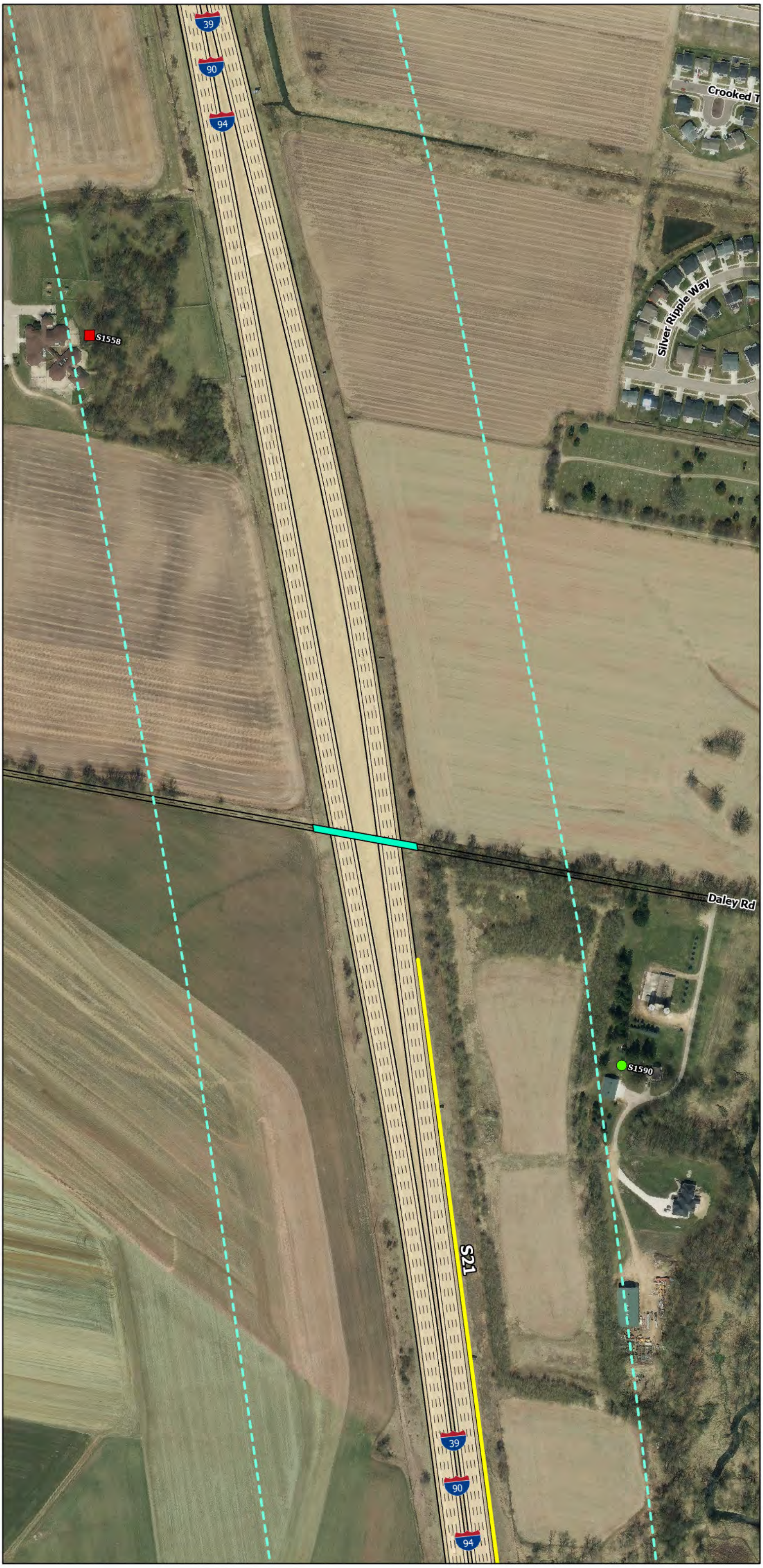
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If the floor is not indicated, generally it is a ground floor receiver. Some receivers where floor is not indicated represent upper floor outdoor use at multi-family buildings.

See detailed results by receiver in Attachment D for floor information.

N

Feet
0 300 600



South Section
CNE 1





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

RECEIVER RESULTS BY FLOOR



Note: Receiver ID may represent multiple floors or receptor dwelling units. If one symbol is shown, results are the same for all floors.

If the floor is not indicated, generally it is a ground floor receiver. Some receivers where floor is not indicated represent upper floor outdoor use at multi-family buildings.

See detailed results by receiver in Attachment D for floor information.

N

Feet
0 300 600



South Section
CNE 1/CNE 2





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

RECEIVER RESULTS BY FLOOR



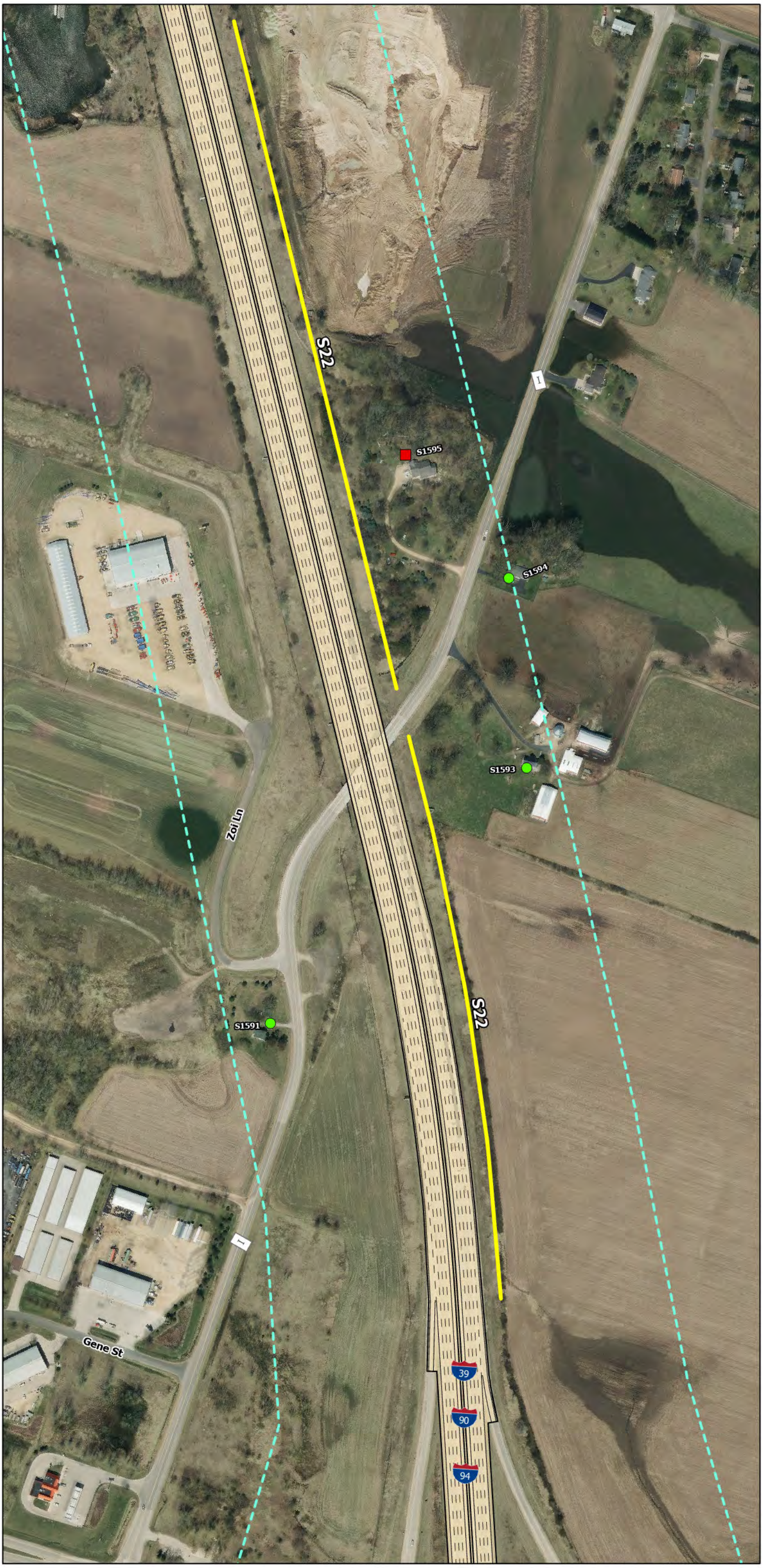
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If the floor is not indicated, generally it is a ground floor receiver. Some receivers where floor is not indicated represent upper floor outdoor use at multi-family buildings.

See detailed results by receiver in Attachment D for floor information.

N

Feet
0 300 600



South Section
CNE 2





Legend

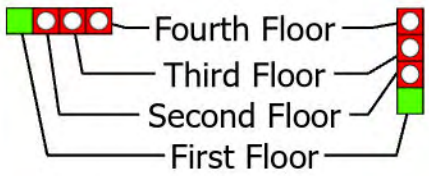
- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

RECEIVER RESULTS BY FLOOR



Note: Receiver ID may represent multiple floors or receptor dwelling units. If one symbol is shown, results are the same for all floors.

If the floor is not indicated, generally it is a ground floor receiver. Some receivers where floor is not indicated represent upper floor outdoor use at multi-family buildings.

See detailed results by receiver in Attachment D for floor information.

N

Feet
0 300 600



South Section
CNE 2





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

RECEIVER RESULTS BY FLOOR



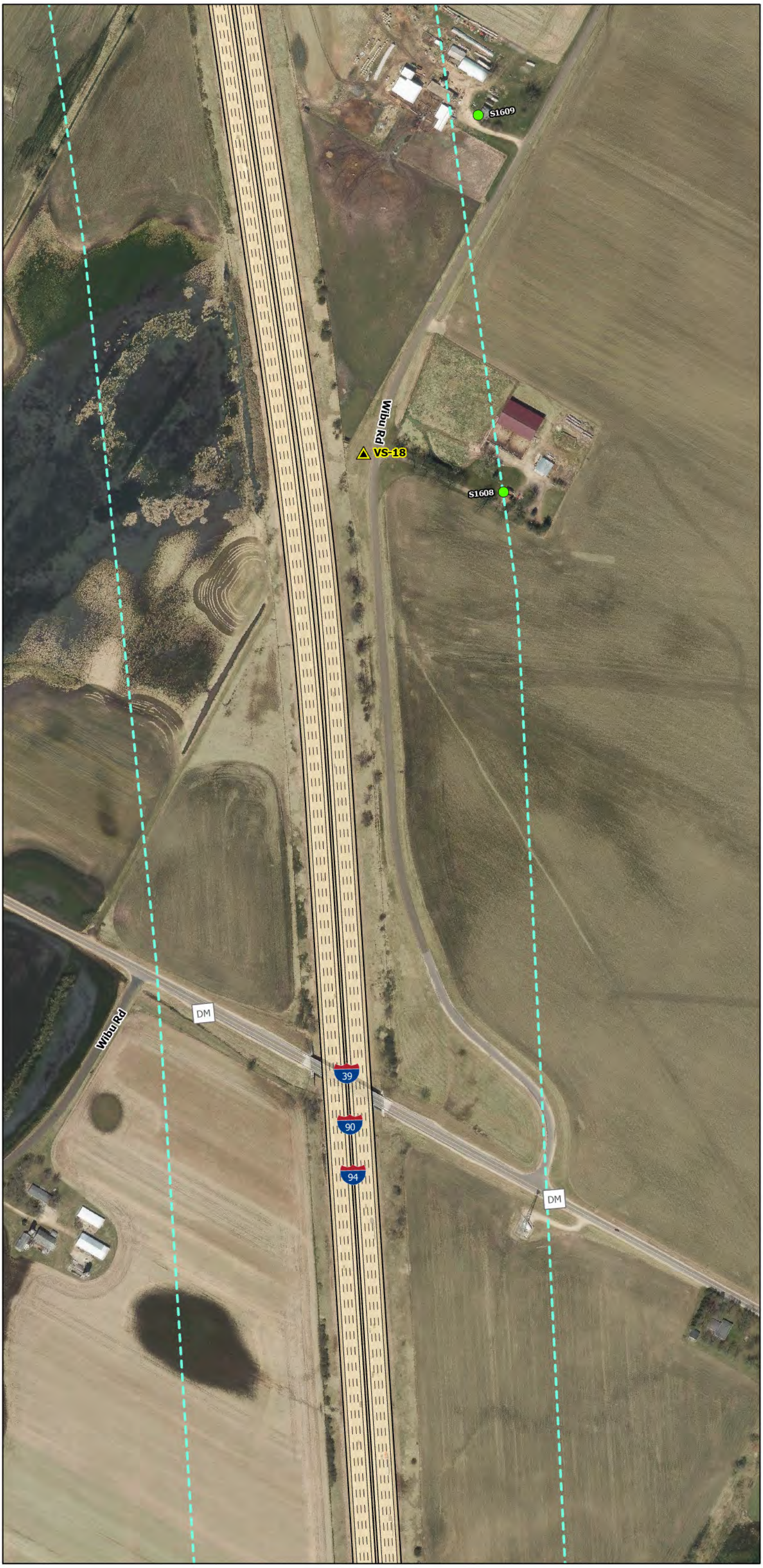
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If the floor is not indicated, generally it is a ground floor receiver. Some receivers where floor is not indicated represent upper floor outdoor use at multi-family buildings.

See detailed results by receiver in Attachment D for floor information.

N

Feet
0 300 600



South Section
CNE 2





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

RECEIVER RESULTS BY FLOOR



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See detailed results by receiver in Attachment D for floor information.

N

Feet
0 300 600



South Section
CNE 2





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

RECEIVER RESULTS BY FLOOR



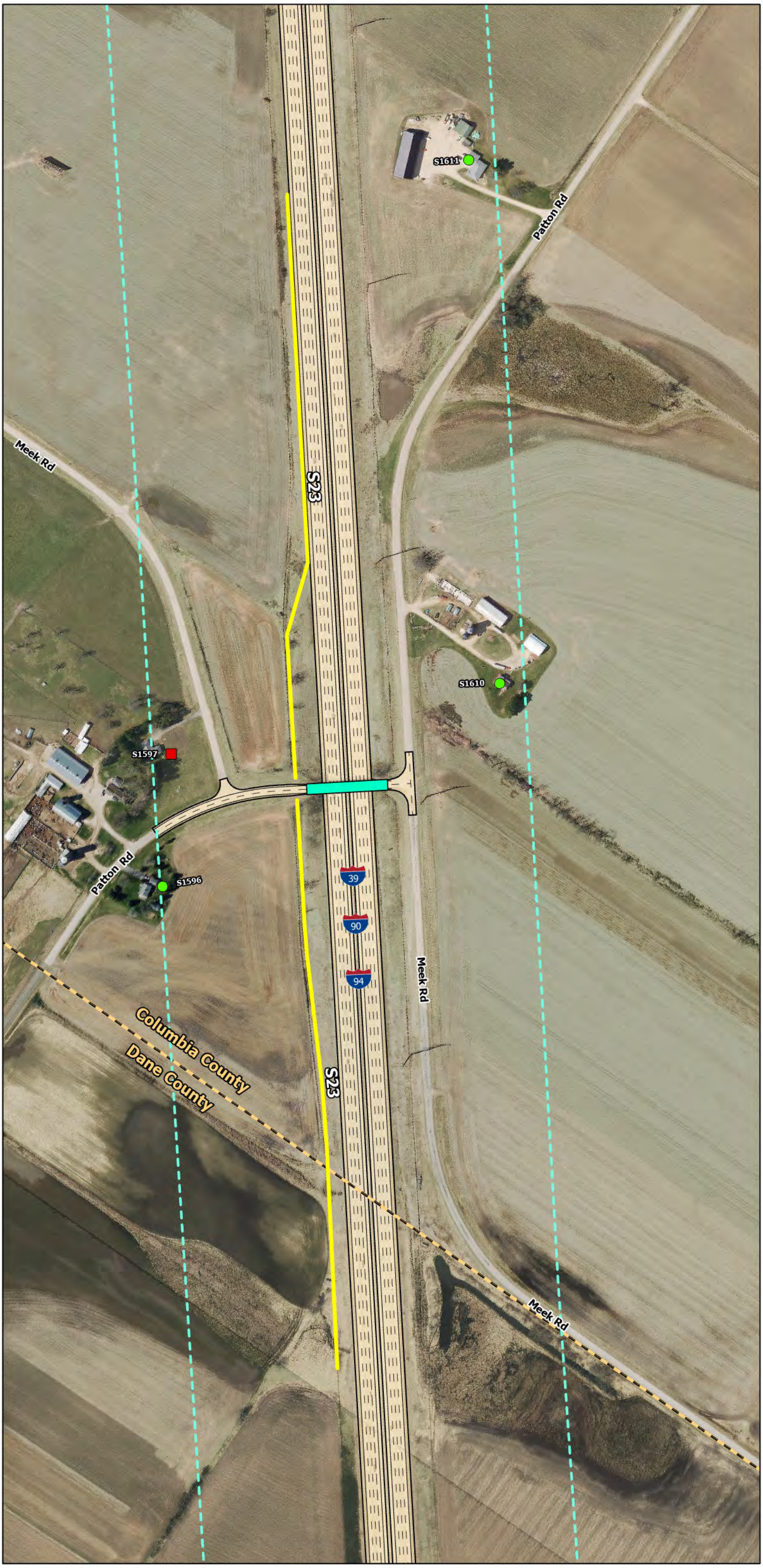
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N

Feet
0 300 600



South Section
CNE 2





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

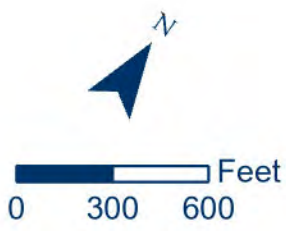
RECEIVER RESULTS BY FLOOR



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South Section
CNE 2





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
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DRAFT

RECEIVER RESULTS BY FLOOR



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N

Feet
0 300 600



South Section
CNE 2





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

RECEIVER RESULTS BY FLOOR



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N

Feet
0 300 600



South Section
CNE 2





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

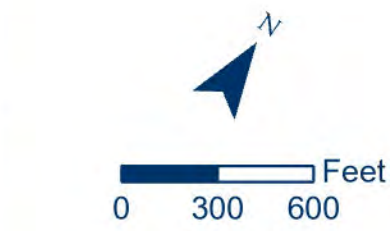
RECEIVER RESULTS BY FLOOR



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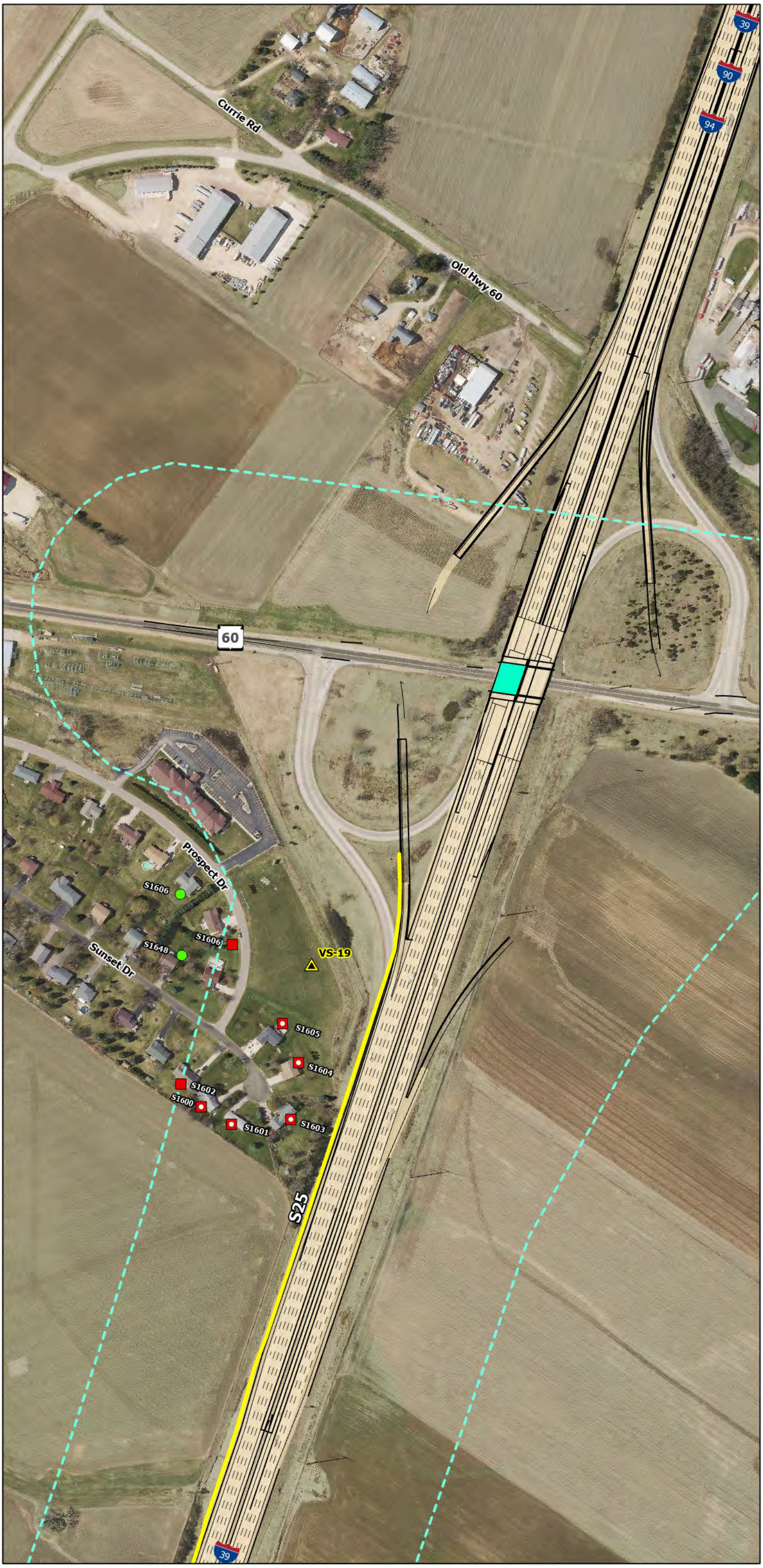
See detailed results by receiver in Attachment D for floor information.



South Section
CNE 2







Legend

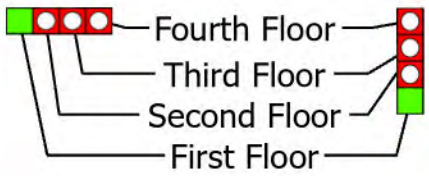
- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Existing Noise Barrier
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited
- Not Impacted and Benefited

DRAFT

RECEIVER RESULTS BY FLOOR



Note: Receiver ID may represent multiple floors or receptor dwelling units. If one symbol is shown, results are the same for all floors.

If the floor is not indicated, generally it is a ground floor receiver. Some receivers where floor is not indicated represent upper floor outdoor use at multi-family buildings.

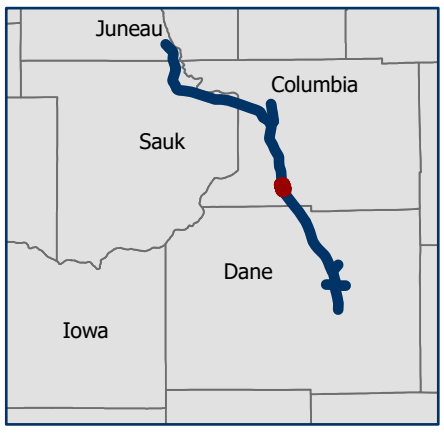
See detailed results by receiver in Attachment D for floor information.

N

Feet
0 300 600

North Section
CNE 2





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

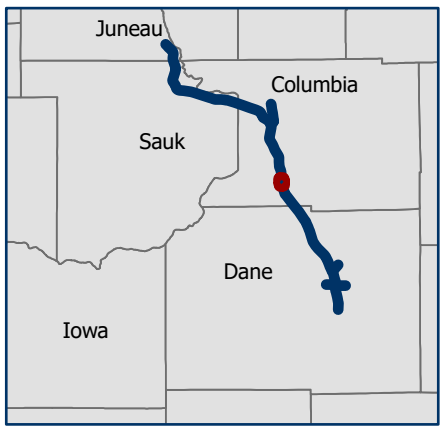
- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

N

Feet
0 150 300

North Section
CNE 2





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

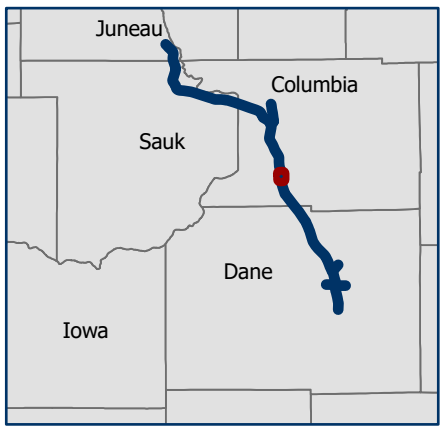
Richards Rd
Smokey Hollow Rd
39
90
94
N1

N

0 150 300 Feet

North Section
CNE 2







Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

N

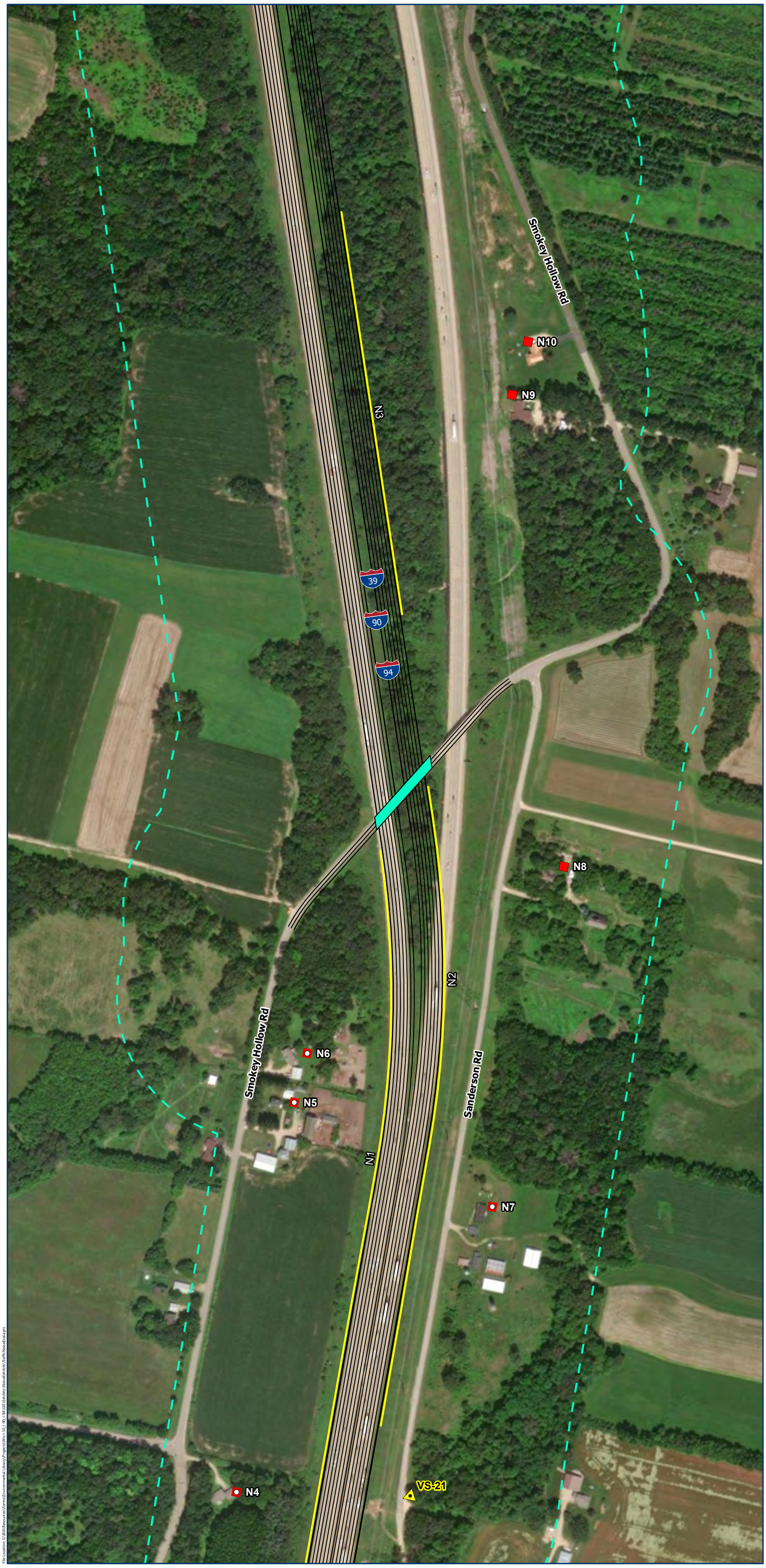
Feet
0 150 300

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North Section
CNE 2







Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

N

Feet
0 150 300

North Section
CNE 2





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

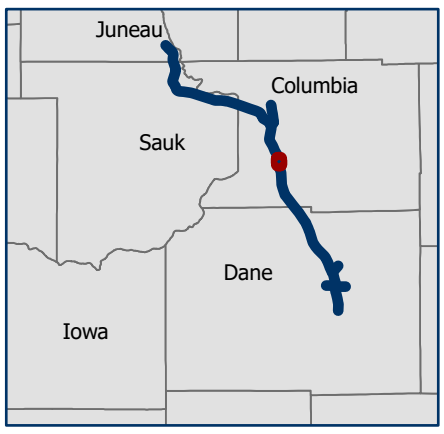
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- Impacted, Not Benefited
- Not Impacted or Benefited

N

Feet
0 150 300

North Section
CNE 2





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

N19
N18
N17
N16
N15
N14
N4
39
90
94
Heintz Rd

N

0 150 300 Feet

File Location: G:\BA\Resources\Forms\Environmental Library\Projects\Wis I-39_I-90_I-94 (WI)\Exhibits\NoiseExhibits\TrafficNoiseExa.aprx

North Section
CNE 2







Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

N

0 150 300 Feet

File Location: G:\BIA\Resources\Fermi\Environmental Library\Projects\Wis I-39\I_90_I-94\GIS\Exhibits\NoiseExhibits\Traffic NoiseEval.aprx

North Section
CNE 2





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

N22

Rest Area # 11

39

90

94

Rest Area # 12

N21

N20

Black Rd

N

Feet

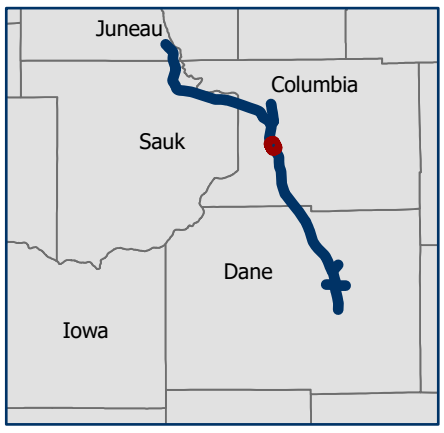
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North Section
CNE 2







Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

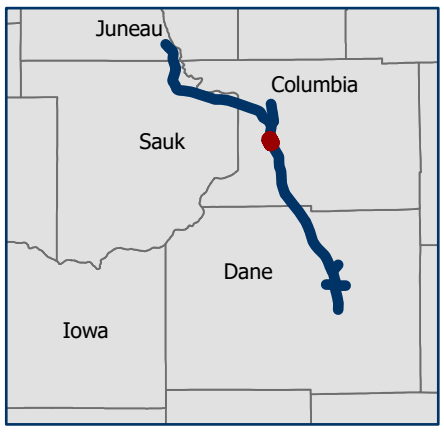
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- Not Impacted or Benefited

N

Feet
0 150 300

North Section
CNE 2





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

Note: Project ties into forthcoming I-39/90/94 Wisconsin River Bridges Project.

Note: Project ties into forthcoming I-39/90/94 Wisconsin River Bridges Project.

St Lawrence Bluff Rd

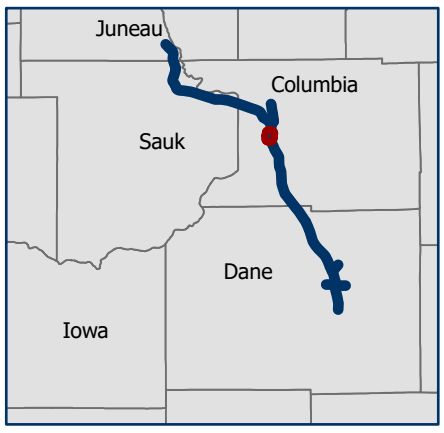
VS-22

N

Feet
0 150 300

North Section
CNE 2







Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

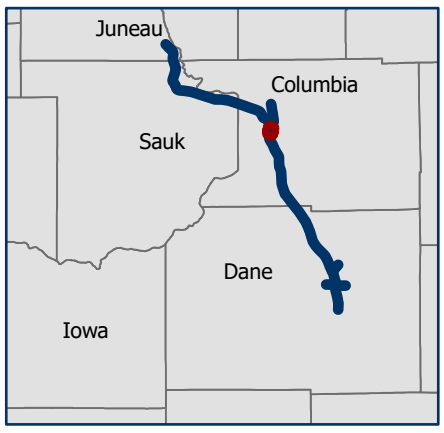
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North Section
CNE 2





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

39
90
94
Potter Dr
Ziehmke Rd

N

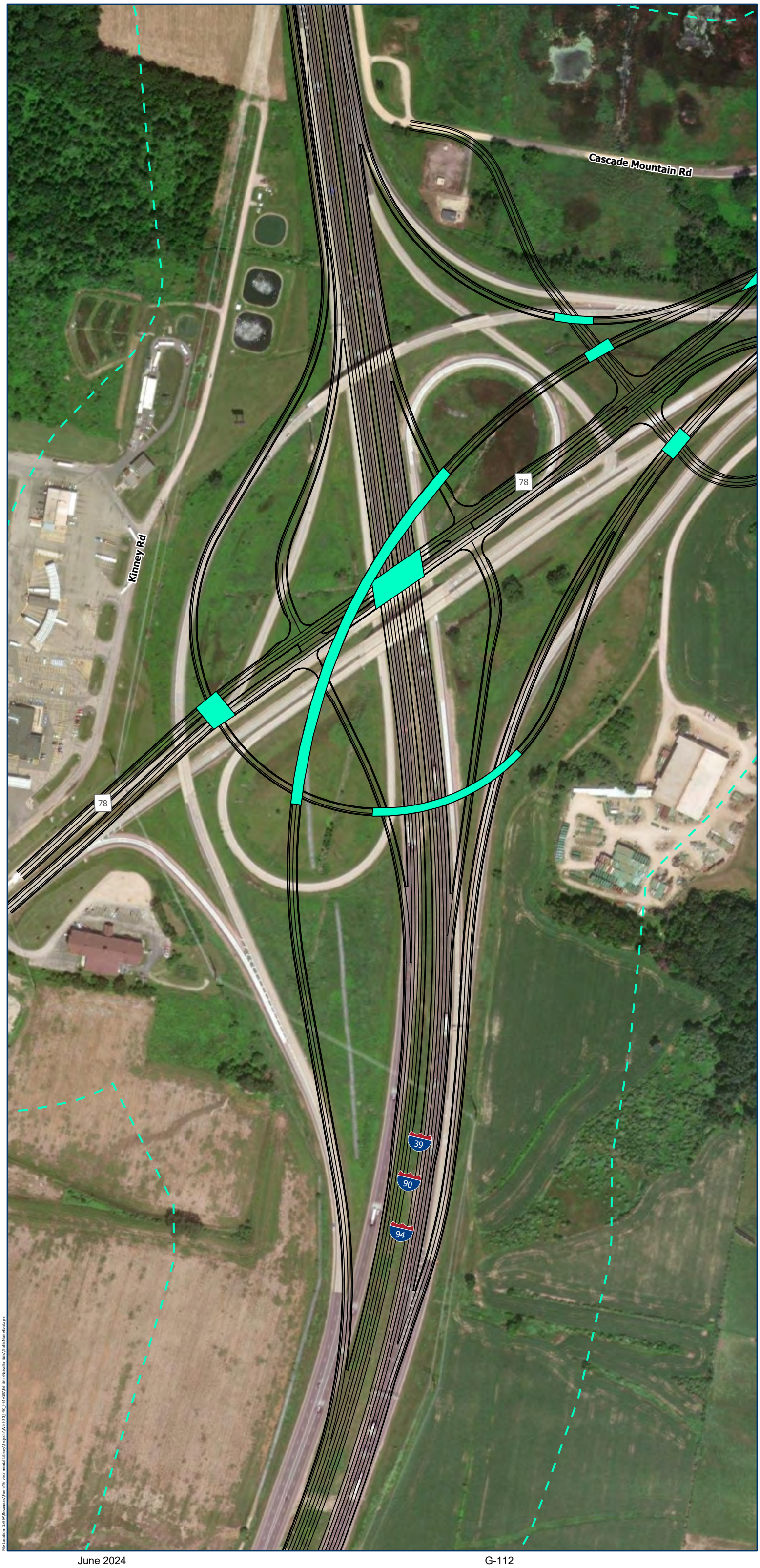
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North Section
CNE 2







Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

N

Feet
0 150 300

File Location: G:\BIA\Resources\Forms\Environmental Library\Projects\Wis I-90_I-94\GIS\Exhibits\NoiseExhibits\TrafficNoiseEval.aprx

North Section
CNE 2







Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

N

Feet
0 150 300

North Section
CNE 2







Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

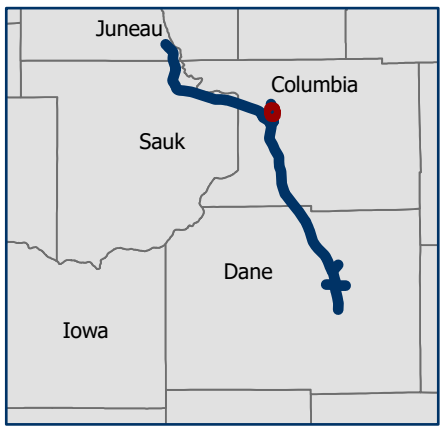
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Feet

0 150 300

North Section
CNE 2





Legend

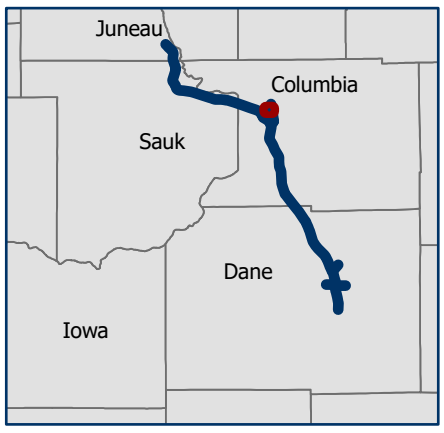
- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

North Section
CNE 2





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

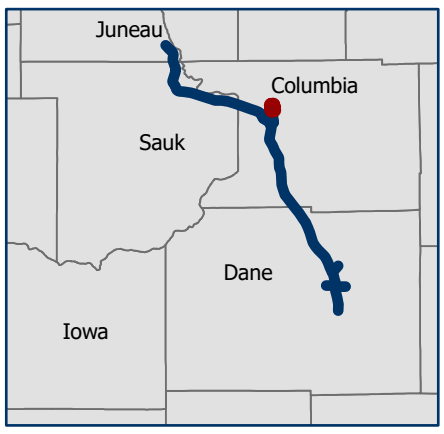
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- Not Impacted or Benefited

N

Feet
0 150 300

North Section
CNE 2





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

N32

Fairfield St

39

33

N

0 150 300 Feet

File Location: G:\BIA\Resources\Forms\Environmental Library\Projects\Wis I-39_90_94\GIS\Exhibits\NoiseExhibits\TrafficNoiseEval.prx

North Section
CNE 2





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

Cascade Mountain Rd

90

94

N

Feet

0 150 300

File Location: G:\BIA\Resources\Forms\Environmental Library\Projects\Wis I-90_I-94\GIS\Exhibits\NoiseExhibits\TrafficNoiseEval.aprx

North Section
CNE 2





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

Cascade Mountain Rd
Bulgrien Rd
Bulgrien Dr
VS-24
N33
90
94
Cascade Mountain Rd

N

0 150 300 Feet

File Location: G:\BIA\Resources\Forms\Environmental Library\Projects\Wis I-39\I-90_I-94\GIS\Exhibits\NoiseExhibits\Traffic NoiseEvals.prx

North Section
CNE 2





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

N

Feet
0 150 300

North Section
CNE 2







Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

N

Feet
0 150 300

File Location: G:\BIA\Resources\Exmod\Environmental Library\Projects\WIs-I-39_I-90_I-94\GIS\Exhibits\NoiseExhibits\TrafficNoiseExhibit.aprx

North Section
CNE 2





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

N

Feet
0 150 300

North Section
CNE 2







Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

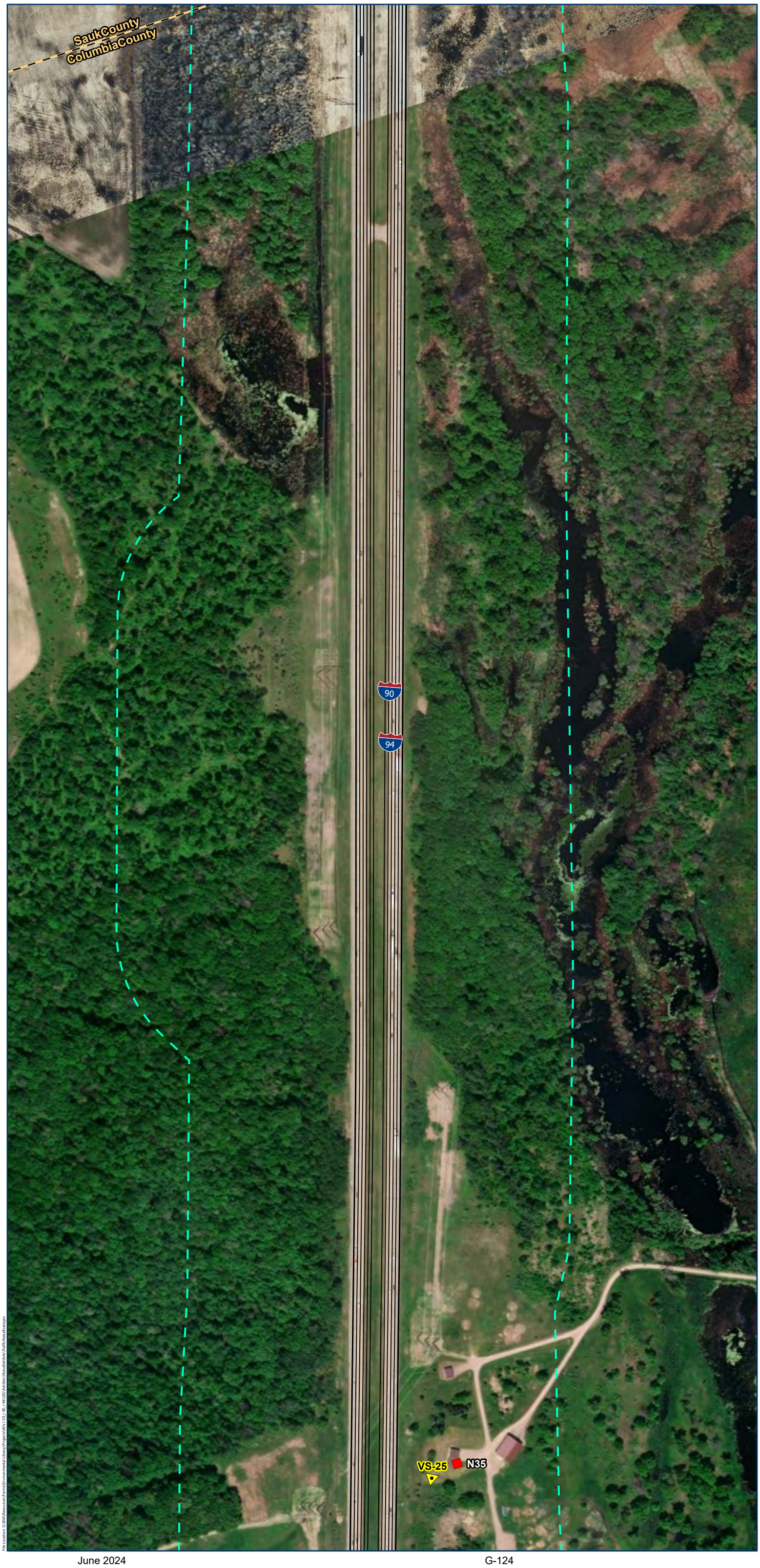
Receivers

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- Impacted, Not Benefited
- Not Impacted or Benefited

N

Feet
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North Section
CNE 2







Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

N

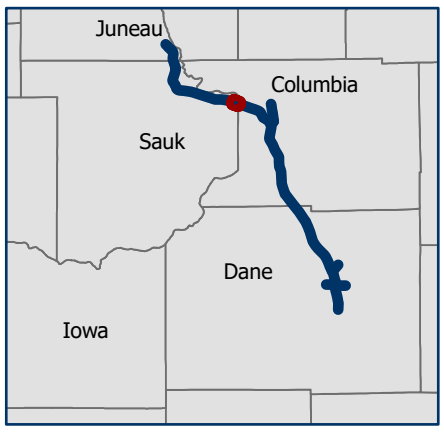
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North Section
CNE 2





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

SaukCounty
ColumbiaCounty

N

Feet
0 150 300

File Location: G:\BA\Resources\Forms\Environmental Library\Projects\Wis I-90_I-94\GIS\Exhibits\NoiseExhibits\TrafficNoiseEval.prx

North Section
CNE 2







Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

N

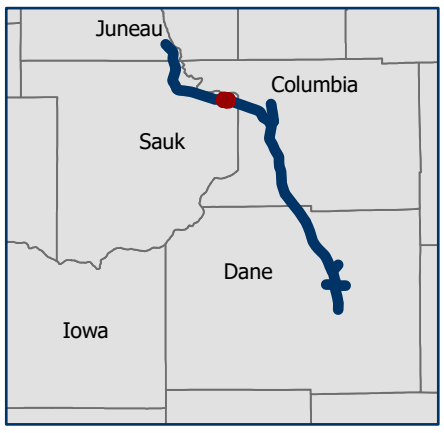
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North Section
CNE 2





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

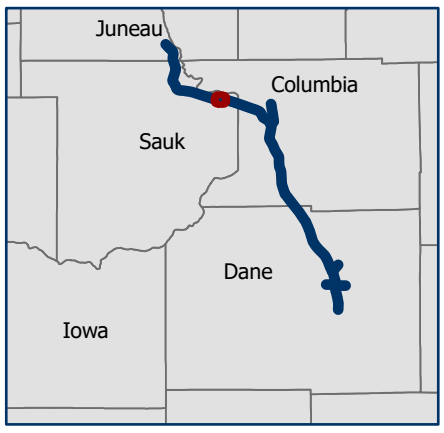
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Feet
0 150 300

North Section
CNE 2







Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

N

Feet
0 150 300

North Section
CNE 2







Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

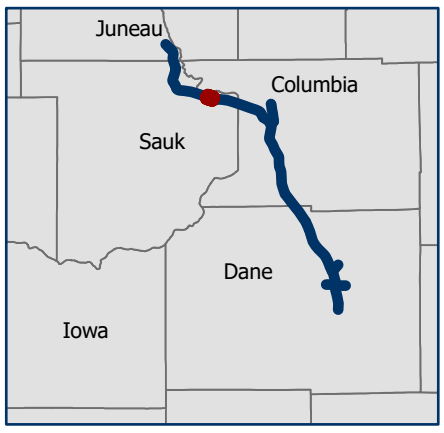
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North Section
CNE 2





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

N

Feet

0 150 300

North Section
CNE 2





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

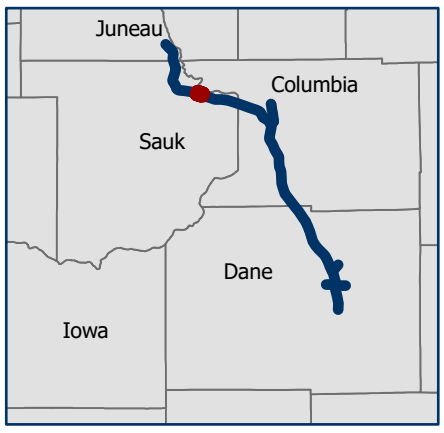
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Feet
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North Section
CNE 2





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

90
94
Gillem Rd
N48

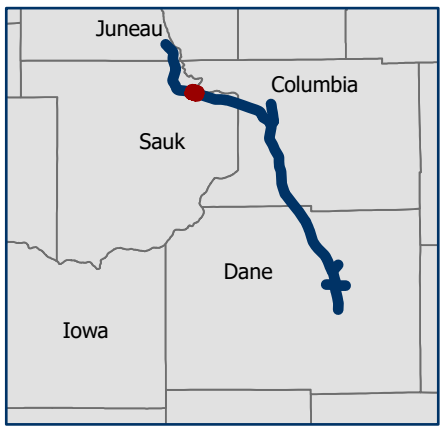
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North Section
CNE 2





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

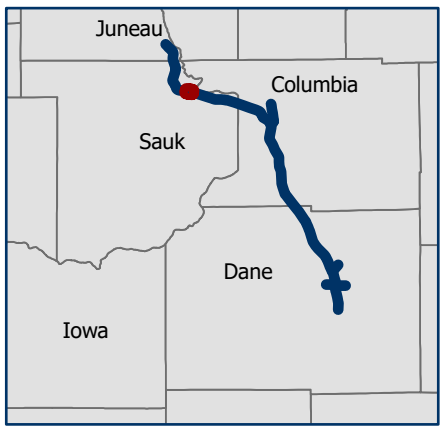
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N

Feet
0 150 300

North Section
CNE 2





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

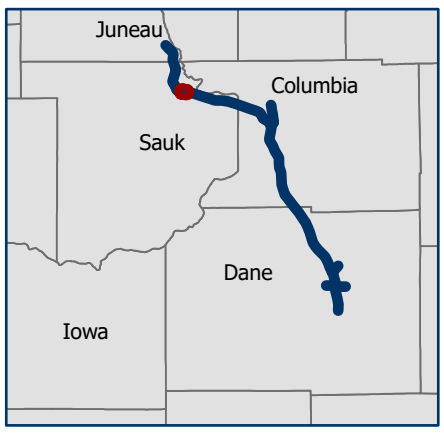
FS-26
90
94
N5
Bunker Dr
N52
N51
N50

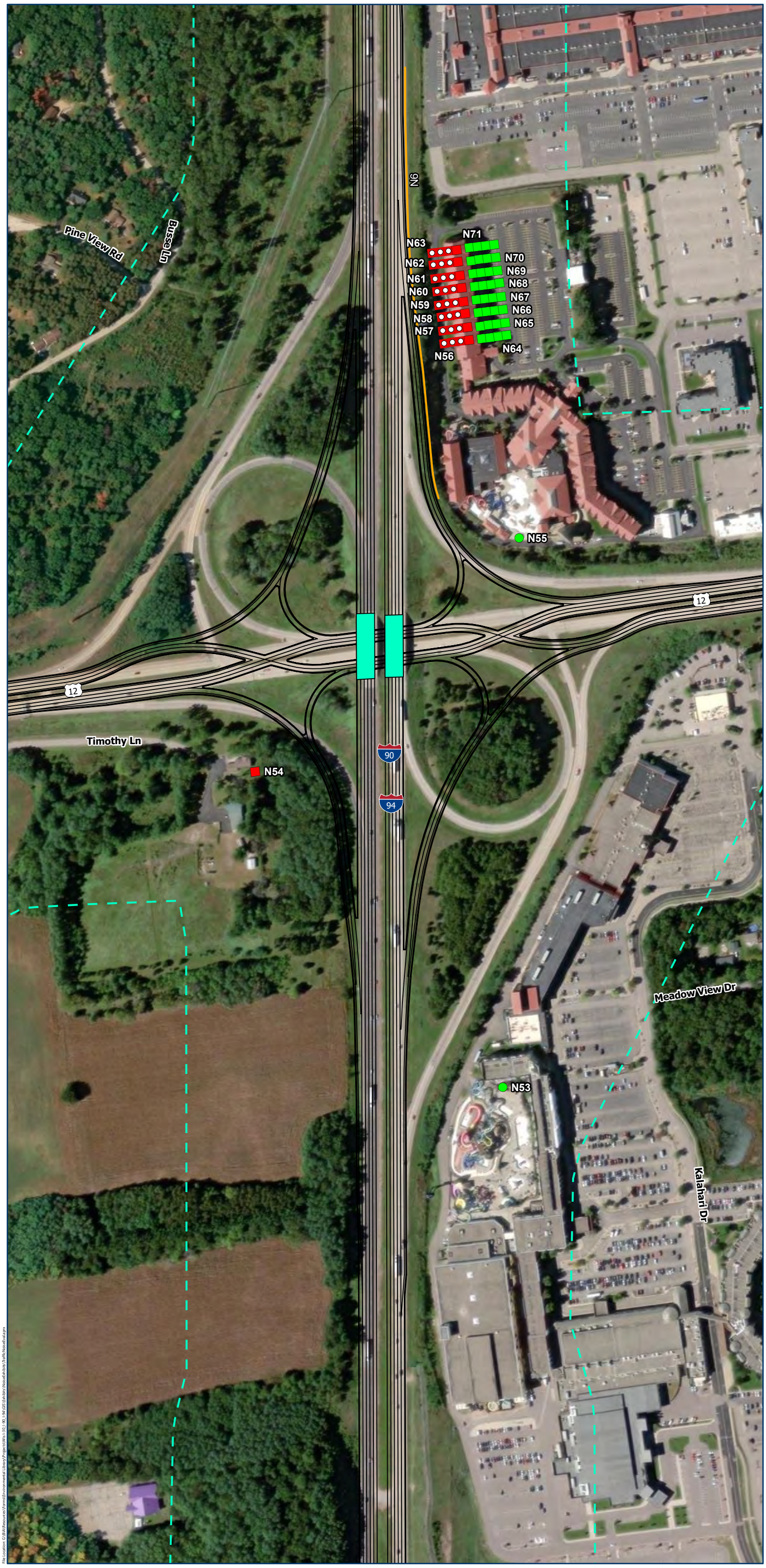
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0 150 300 Feet

North Section
CNE 2/CNE 3







Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

RECEIVER RESULTS BY FLOOR

- Fourth Floor
- Third Floor
- Second Floor
- First Floor

Note: If the floor is not indicated, generally it is a ground floor receiver

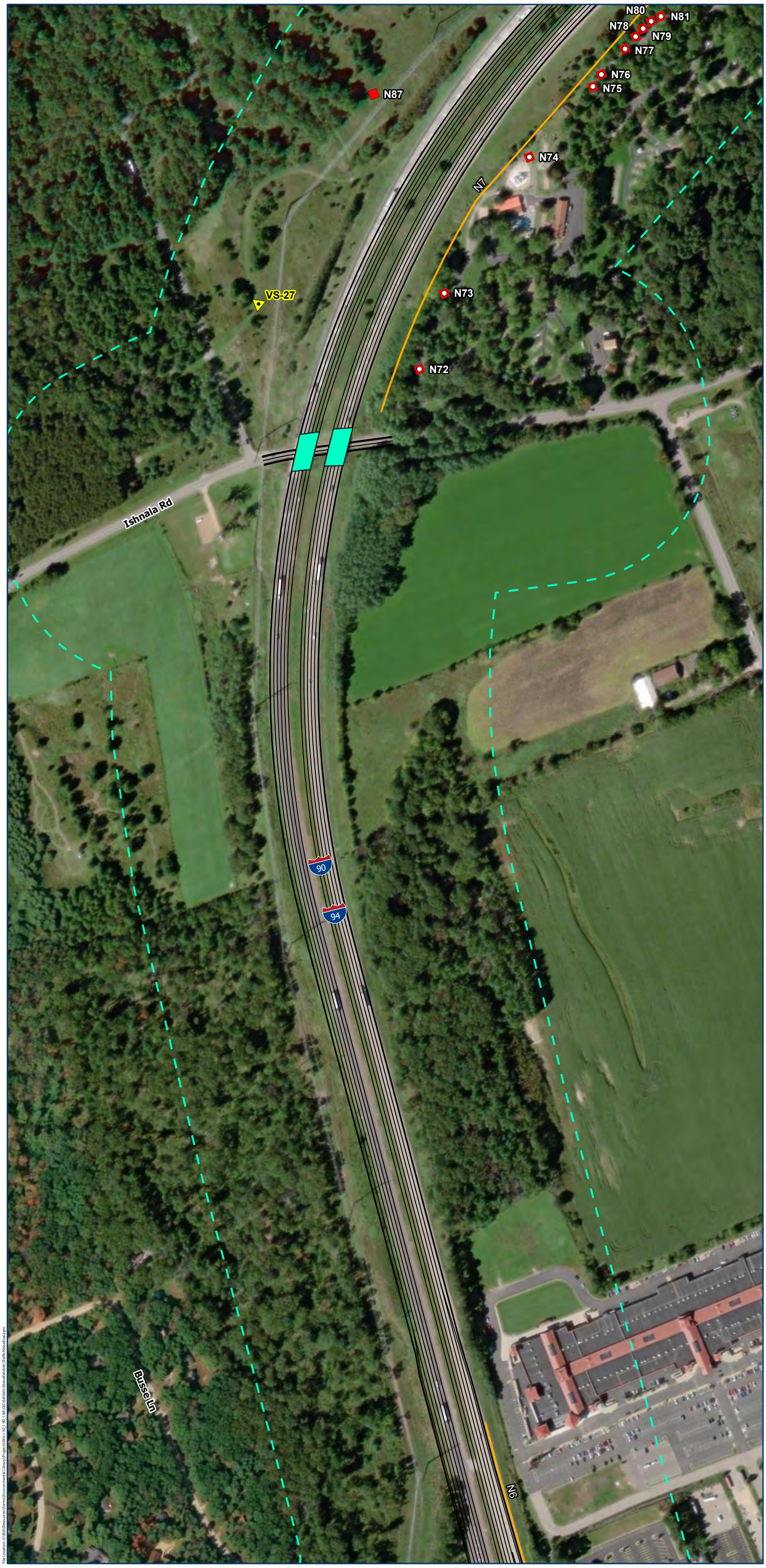
See detailed results by receiver in Attachment D for floor information.

N

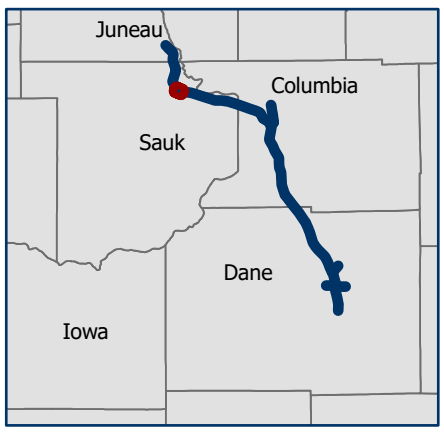
Feet
0 150 300

File Location: G:\BIA\Resources\Exports\Environmental Library\Projects\Wis I-39_I-90_I-94\GIS\Exhibits\NoiseExhibits\TrafficNoiseEval.prjx

North Section
CNE 3







Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

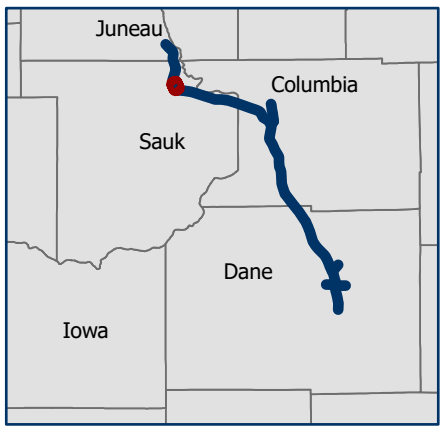
- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

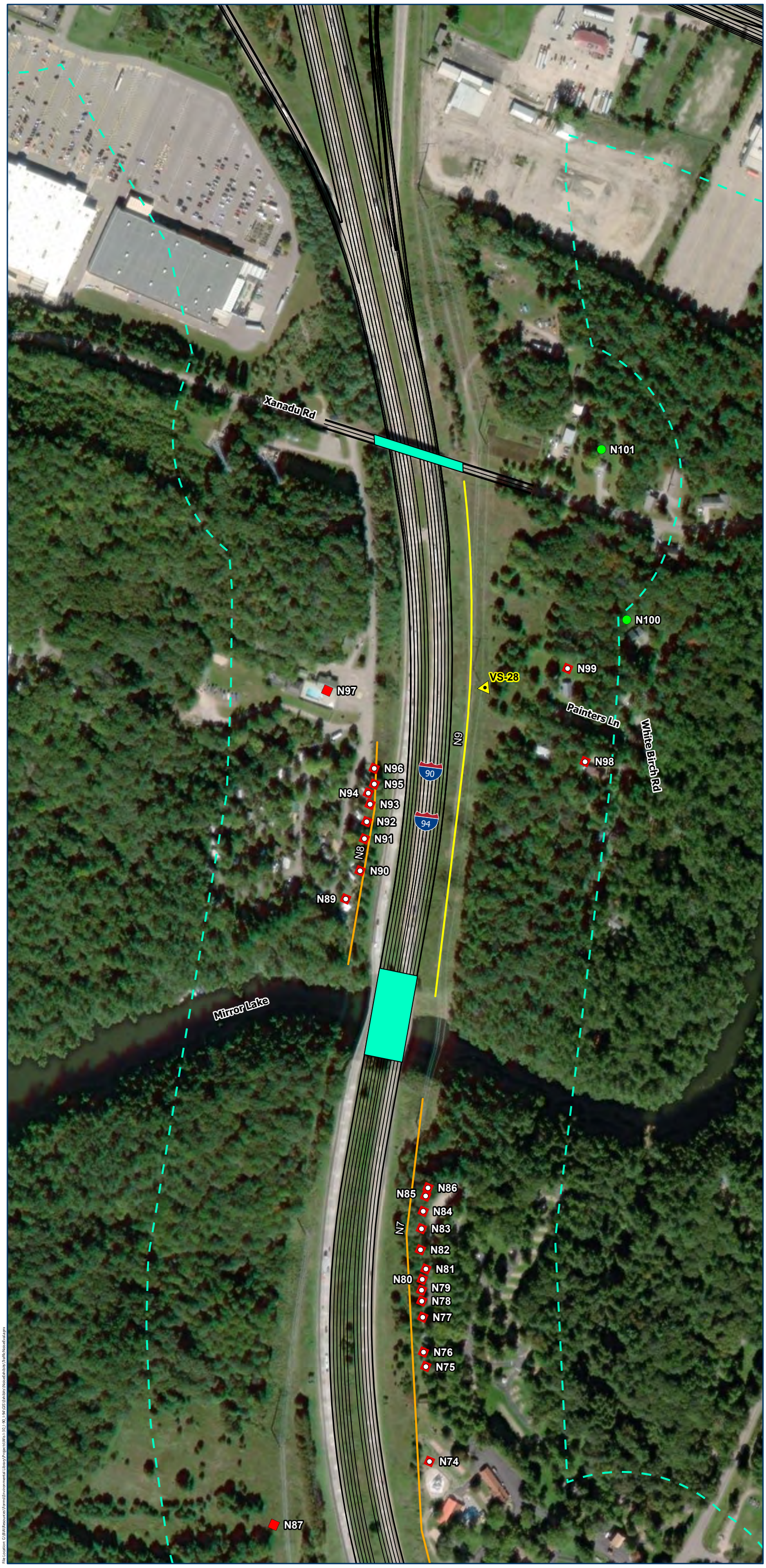
N

Feet
0 150 300

North Section
CNE 3







Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

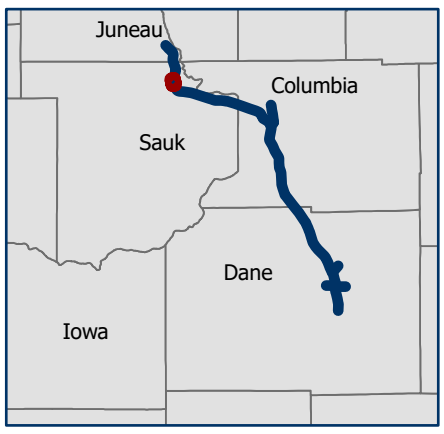
- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

N

Feet
0 150 300

North Section
CNE 3





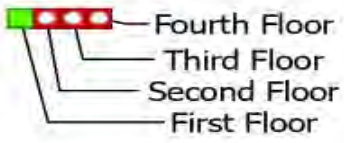
Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

RECEIVER RESULTS BY FLOOR



Note: If the floor is not indicated, generally it is a ground floor receiver

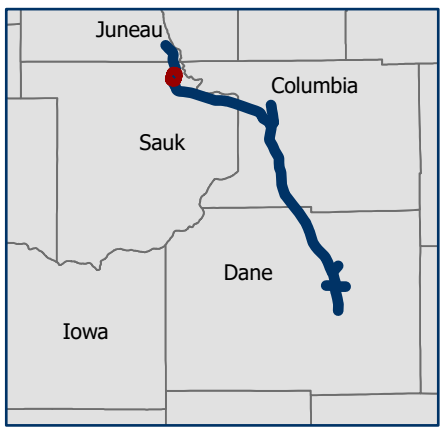
See detailed results by receiver in Attachment D for floor information.

N

Feet
0 150 300

North Section
CNE 3





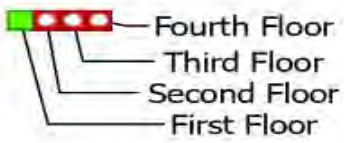
Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

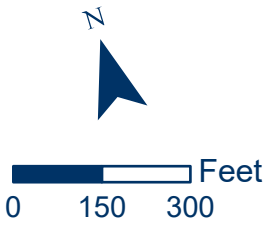
- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

RECEIVER RESULTS BY FLOOR



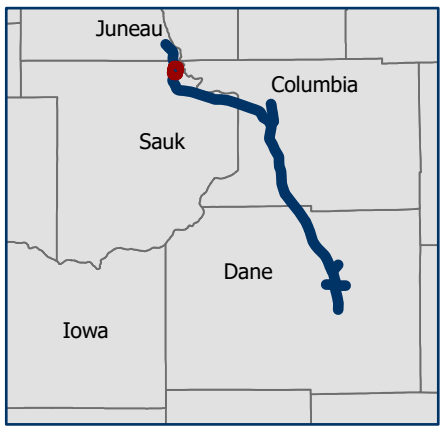
Note: If the floor is not indicated, generally it is a ground floor receiver

See detailed results by receiver in Attachment D for floor information.



North Section
CNE 3





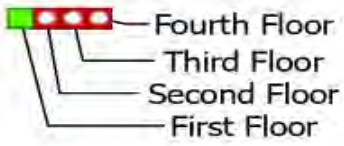
Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

RECEIVER RESULTS BY FLOOR



Note: If the floor is not indicated, generally it is a ground floor receiver

See detailed results by receiver in Attachment D for floor information.

N

Feet
0 150 300

North Section
CNE 3





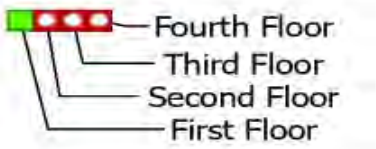
Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

RECEIVER RESULTS BY FLOOR



Note: If the floor is not indicated, generally it is a ground floor receiver

See detailed results by receiver in Attachment D for floor information.

N

Feet
0 150 300

North Section
CNE 3





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

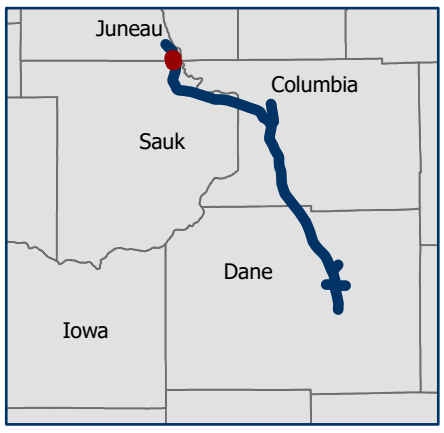
N275
90
94
N12
Old US 12
N272
N270
N271
N268
N269
N267
N266
N274
N273
N265
N264
Old US 12
Frontage Rd
13

N

Feet
0 150 300

North Section
CNE 3







Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

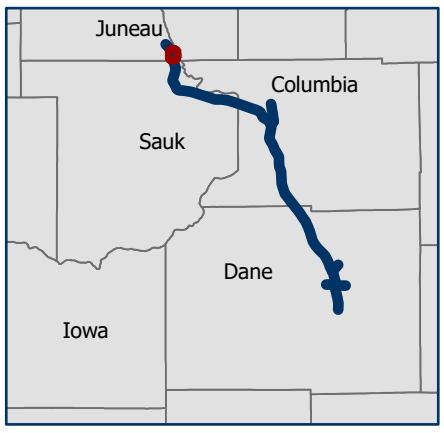
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0 150 300 Feet

File Location: G:\BIA\Resources\Forms\Environmental Library\Projects\WIs I-39_I-90_I-94\GIS\Exhibits\Noise\Exhibits\Traffic Noise\Exhibit.aprx

North Section
CNE 3





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

N281
N282
N283
90
94
60th St
12
16
Plaza Rd
Curry Rd

N

Feet
0 150 300

File Location: G:\BIA\Resources\Forms\Environmental Library\Projects\WIs I-39_I-90_I-94\GIS\Exhibits\NoiseExhibits\Traffic-NoiseEval.aprx

North Section
CNE 3







Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

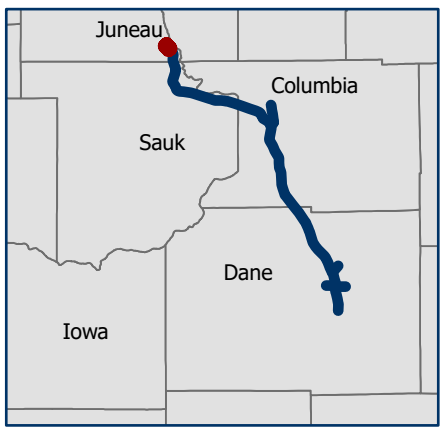
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Feet
0 150 300

File Location: G:\BIA\Resources\Forms\Environmental Library\Projects\Wis I-39_I-90_I-94\GIS\Exhibits\Noise\Exhibits\Traffic Noise\Exhibit.aprx

North Section
CNE 3





Legend

- County Boundaries
- 500 ft Noise Study Area
- Permitted Parcels
- Proposed Structures
- Project Linework
- Feasible Not Reasonable Noise Barrier
- Feasible and Reasonable Noise Barrier
- Not Feasible or Reasonable Noise Barrier
- Measurement Sites

Receivers

- Impacted and Benefited
- Impacted, Not Benefited
- Not Impacted or Benefited

63rd St
N14
Arbor Lake E
N300
N299
N298
N297
N301
N295
N296
N293
N294
N292
N291
N290
N288
N289
N287
Johnson St
Dyer St

N

Feet
0 150 300

Attachment B. Calibration Certificates and Data Sheets

Scantek, Inc.
CALIBRATION LABORATORY

ISO 17025: 2017, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.47438

Instrument: **Sound Level Meter**
Model: **Sound Track LxT1L**
Manufacturer: **Larson Davis**
Serial number: **0006277**
Tested with: **Microphone 377B02 s/n 325784**
Preamplifier PRMLXT1L s/n
Type (class): **1**
Customer: **HNTB Corporation**
Tel/Fax: **612-358-8938**

Date Calibrated: **1/28/2022** *Cal Due:*

Status:	Received	Sent
In tolerance:	X	X
Out of tolerance:		
See comments:		

Contains non-accredited tests: ___Yes _X_ No
Calibration service: ___ Basic _X_ Standard
Address: **250E Wisconsin Ave #2000, Milwaukee, WI 53202**

Tested in accordance with the following procedures and standards:
Calibration of Sound Level Meters, Scantek Inc., Rev. 6/26/2015
SLM & Dosimeters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

Instrumentation used for calibration: Nor-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31052	Nov 8, 2021	Scantek, Inc./ NVLAP	Nov 8, 2022
DS-360-SRS	Function Generator	88077	Dec 3, 2020	ACR Env./ A2LA	Dec 3, 2022
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Feb 4, 2021	ACR Env. / A2LA	Feb 4, 2022
PTU300-Vaisala	EnvironmentalMonitor	P5011262	Sept 10, 2021	ACR Env./ A2LA	Sept 10, 2022
PC Program 1019 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1251-Norsonic	Calibrator	30878	Oct 27, 2021	Scantek, Inc./ NVLAP	Oct 27, 2022

Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK).

Environmental conditions:

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
23.4	100.68	30.8

Calibrated by:	Bailey Partoza	**Authorized signatory:**	William Gallagher
Signature		Signature	
Date	1/28/22	Date	2/04/2022

Calibration Certificates or Test Reports shall not be reproduced, except in full, without written approval of the laboratory.
This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.
Document stored Y:\Calibration Lab\SLM 2022\LDLXT1L_0006277_M1.doc

Scantek, Inc.
CALIBRATION LABORATORY
ISO 17025: 2017, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.47440

Instrument:	**Acoustical Calibrator**
Model:	**CAL200**
Manufacturer:	**Larson Davis**
Serial number:	**17856**
Class (IEC 60942):	**1**
Barometer type:	
Barometer s/n:	
Customer:	**HNTB Corporation**
Tel/Fax:	**612-358-8938 /**

Date Calibrated: **1/27/2022** *Cal Due:*

	Received	Sent
Status:		
In tolerance:	X	X
Out of tolerance:		
See comments:		

Contains non-accredited tests: __Yes _X_ No

Address: **250E Wisconsin Ave #2000, Milwaukee, WI 53202**

Tested in accordance with the following procedures and standards:
Calibration of Acoustical Calibrators, Scantek Inc., Rev. 10/1/2010

Instrumentation used for calibration: Nor-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31052	Nov 8, 2021	Scantek, Inc./ NVLAP	Nov 8, 2022
DS-360-SRS	Function Generator	88077	Dec 3, 2020	ACR Env./ A2LA	Dec 3, 2022
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Feb 4, 2021	ACR Env. / A2LA	Feb 4, 2022
PTU300-Vaisala	EnvironmentalMonitor	P5011262	Sept 10, 2021	ACR Env./ A2LA	Sept 10, 2022
140-Norsonic	Real Time Analyzer	1406423	Nov 8, 2021	Scantek / NVLAP	Nov 8, 2022
PC Program 1018 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
4134-Brüel&Kjær	Microphone	173368	Nov 8, 2021	Scantek, Inc. / NVLAP	Nov 8, 2022
1203-Norsonic	Preamplifier	14059	March 3, 2021	Scantek, Inc./ NVLAP	March 3, 2022

Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK)

Calibrated by:	Bailey Partoza	**Authorized signatory:**	William Gallagher
Signature		Signature	
Date	1/27/22	Date	2/03/2022

Calibration Certificates or Test Reports shall not be reproduced, except in full, without written approval of the laboratory.
This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.
Document stored as: Y:\Calibration Lab\Cal 2022\LDCAL200_17856_M2.doc

Scantek, Inc.
CALIBRATION LABORATORY

ISO 17025: 2017, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.47439

Instrument: **Microphone**
Model: **377B02**
Manufacturer: **PCB Piezotronics**
Serial number: **325784**
Composed of:

Customer: **HNTB Corporation**
Tel/Fax: **612-358-8938/**

Date Calibrated: **1/27/2022** *Cal Due:*

Status:	Received	Sent
In tolerance:	X	X
Out of tolerance:		
See comments:		

Contains non-accredited tests: ___Yes _X_ No

Address: **250E Wisconsin Ave #2000, Milwaukee, WI 53202**

Tested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 2/25/2015

Instrumentation used for calibration: N-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31052	Nov 8, 2021	Scantek, Inc./ NVLAP	Nov 8, 2022
DS-360-SRS	Function Generator	88077	Dec 3, 2020	ACR Env./ A2LA	Dec 3, 2022
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Feb 4, 2021	ACR Env. / A2LA	Feb 4, 2022
PTU300-Vaisala	EnvironmentalMonitor	P5011262	Sept 10, 2021	ACR Env./ A2LA	Sept 10, 2022
PC Program 1017 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1253-Norsonic	Calibrator	28326	Oct 27, 2021	Scantek, Inc./ NVLAP	Oct 27, 2022
1203-Norsonic	Preamplifier	14059	March 3, 2021	Scantek, Inc./ NVLAP	March 3, 2022
4180-Brüel&Kjær	Microphone	2246115	Oct 6, 2021	DPLA / DANAK	Oct 6, 2023

Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) and NIST (USA)

Calibrated by:	Bailey Partoza	**Authorized signatory:**	William Gallagher
Signature		Signature	
Date	1/27/22	Date	2/03/2022

Calibration Certificates or Test Reports shall not be reproduced, except in full, without written approval of the laboratory.
This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.
Document stored as: Y:\Calibration Lab\Mic 2022\PCB377B02_325784_M1.doc

Scantek, Inc.
CALIBRATION LABORATORY

ISO 17025: 2017, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.47435

Instrument: **Sound Level Meter**
Model: **118**
Manufacturer: **Norsonic**
Serial number: **31483**
Tested with: **Microphone 1225 s/n 48094**
Preamplifier 1206 s/n 30522
Type (class): **1**
Customer: **HNTB Corporation**
Tel/Fax: **612-358-8938 /**

Date Calibrated: **1/28/2022** *Cal Due:*

Status:	Received	Sent
In tolerance:	X	X
Out of tolerance:		
See comments:		

Contains non-accredited tests: __Yes X No
Calibration service: __ Basic X Standard
Address: **250E Wisconsin Ave #2000, Milwaukee, WI 53202**

Tested in accordance with the following procedures and standards:
Calibration of Sound Level Meters, Scantek Inc., Rev. 6/26/2015
SLM & Dosimeters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

Instrumentation used for calibration: Nor-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31052	Nov 8, 2021	Scantek, Inc./ NVLAP	Nov 8, 2022
DS-360-SRS	Function Generator	88077	Dec 3, 2020	ACR Env./ A2LA	Dec 3, 2022
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Feb 4, 2021	ACR Env. / A2LA	Feb 4, 2022
PTU300-Vaisala	EnvironmentalMonitor	P5011262	Sept 10, 2021	ACR Env./ A2LA	Sept 10, 2022
PC Program 1019 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1251-Norsonic	Calibrator	30878	Oct 27, 2021	Scantek, Inc./ NVLAP	Oct 27, 2022

Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK).

Environmental conditions:

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
22.1	101.09	41.0

Calibrated by:	Bailey Partoza	**Authorized signatory:**	William Gallagher
Signature		Signature	
Date	1/28/22	Date	2/03/2022

Calibration Certificates or Test Reports shall not be reproduced, except in full, without written approval of the laboratory.
This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.
Document stored Y:\Calibration Lab\SLM 2022\NOR118_31483_M1.doc

Scantek, Inc.
CALIBRATION LABORATORY

ISO 17025: 2017, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.47437

Instrument:	**Acoustical Calibrator**
Model:	**1251**
Manufacturer:	**Norsonic**
Serial number:	**30825**
Class (IEC 60942):	**1**
Barometer type:	
Barometer s/n:	
Customer:	**HNTB Corporation**
Tel/Fax:	**612-358-8938 /**

Date Calibrated: **1/27/2022** *Cal Due:*

Status:	**Received**	**Sent**
In tolerance:	**X**	**X**
Out of tolerance:		
See comments:		

Contains non-accredited tests: **__Yes _X_ No**

Address: **250E Wisconsin Ave #2000, Milwaukee, WI 53202**

Tested in accordance with the following procedures and standards:
Calibration of Acoustical Calibrators, Scantek Inc., Rev. 10/1/2010

Instrumentation used for calibration: Nor-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31052	Nov 8, 2021	Scantek, Inc./ NVLAP	Nov 8, 2022
DS-360-SRS	Function Generator	88077	Dec 3, 2020	ACR Env./ A2LA	Dec 3, 2022
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Feb 4, 2021	ACR Env. / A2LA	Feb 4, 2022
PTU300-Vaisala	EnvironmentalMonitor	P5011262	Sept 10, 2021	ACR Env./ A2LA	Sept 10, 2022
140-Norsonic	Real Time Analyzer	1406423	Nov 8, 2021	Scantek / NVLAP	Nov 8, 2022
PC Program 1018 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
4134-Brüel&Kjær	Microphone	173368	Nov 8, 2021	Scantek, Inc. / NVLAP	Nov 8, 2022
1203-Norsonic	Preamplifier	14059	March 3, 2021	Scantek, Inc./ NVLAP	March 3, 2022

Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK)

Calibrated by:	Bailey Partoza	**Authorized signatory:**	William Gallagher
Signature		Signature	
Date	1/27/22	Date	2/03/2022

Calibration Certificates or Test Reports shall not be reproduced, except in full, without written approval of the laboratory.
This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.
Document stored as: Y:\Calibration Lab\Cal 2022\NOR1251_30825_M1.doc

Scantek, Inc.
CALIBRATION LABORATORY

ISO 17025: 2017, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.47491

Instrument: **Microphone**
Model: **1225**
Manufacturer: **Norsonic**
Serial number: **48094**
Composed of:

Date Calibrated: **2/3/2022** *Cal Due:*

Status:	Received	Sent
In tolerance:	X	X
Out of tolerance:		
See comments:		

Contains non-accredited tests: __Yes _X_ No

Customer: **HNTB Corporation**
Tel/Fax: **612-358-8938/**
Address: **250E Wisconsin Ave #2000, Milwaukee, WI 53202**

Tested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 2/25/2015

Instrumentation used for calibration: N-1504 Norsonic Test System:

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31052	Nov 8, 2021	Scantek, Inc./ NVLAP	Nov 8, 2022
DS-360-SRS	Function Generator	88077	Dec 3, 2020	ACR Env./ A2LA	Dec 3, 2022
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Feb 4, 2021	ACR Env. / A2LA	Feb 4, 2022
PTU300-Vaisala	EnvironmentalMonitor	P5011262	Sept 10, 2021	ACR Env./ A2LA	Sept 10, 2022
PC Program 1017 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1253-Norsonic	Calibrator	28326	Oct 27, 2021	Scantek, Inc./ NVLAP	Oct 27, 2022
1203-Norsonic	Preamplifier	14059	March 3, 2021	Scantek, Inc./ NVLAP	March 3, 2022
4180-Brüel&Kjær	Microphone	2246115	Oct 6, 2021	DPLA / DANAK	Oct 6, 2023

Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) and NIST (USA)

Calibrated by:	Bailey Partoza	Authorized signatory:	William Gallagher
Signature		Signature	
Date	2/3/22	Date	2/03/2022

Calibration Certificates or Test Reports shall not be reproduced, except in full, without written approval of the laboratory.
This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.
Document stored as: Y:\Calibration Lab\Mic 2022\NOR1225_48094_M1.doc

INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

3130 Rogerdale Rd., Suite 120
Houston, TX 77042 US
Phone: (713) 331-3924

Pine Environmental Services, Inc.

Instrument ID 15871
Description Sound Pro DL-2
Calibrated 8/9/2022 9:44:19AM

Manufacturer	Quest	**State Certified**	
Model Number	SoundPro DL-2	**Status**	Pass
Serial Number/ Lot Number	BGI070014	**Temp °C**	22
Location	Texas	**Humidity %**	48
Department			

Calibration Specifications

Group # 1
Group Name Calibrated @ 114.0dB
Test Performed: Yes **As Found Result: Pass** **As Left Result: Pass**

Test Instruments Used During the Calibration **(As Of Cal Entry Date)**

Test Standard ID	Description	Manufacturer	Model Number	Serial Number / Lot Number	Last Cal Date/ Opened Date	Next Cal Date / Expiration Date

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Ryan A Jones

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment
Please call 800-301-9663 for Technical Assistance

HNTB

NOISE MEASUREMENT DATA SHEET

PROJECT: I-39/90/94 South Segment JOB #: 79182 BY: JAR

SITE: VS-1 DATE: 8/23/22 TIME: 9:24 AM

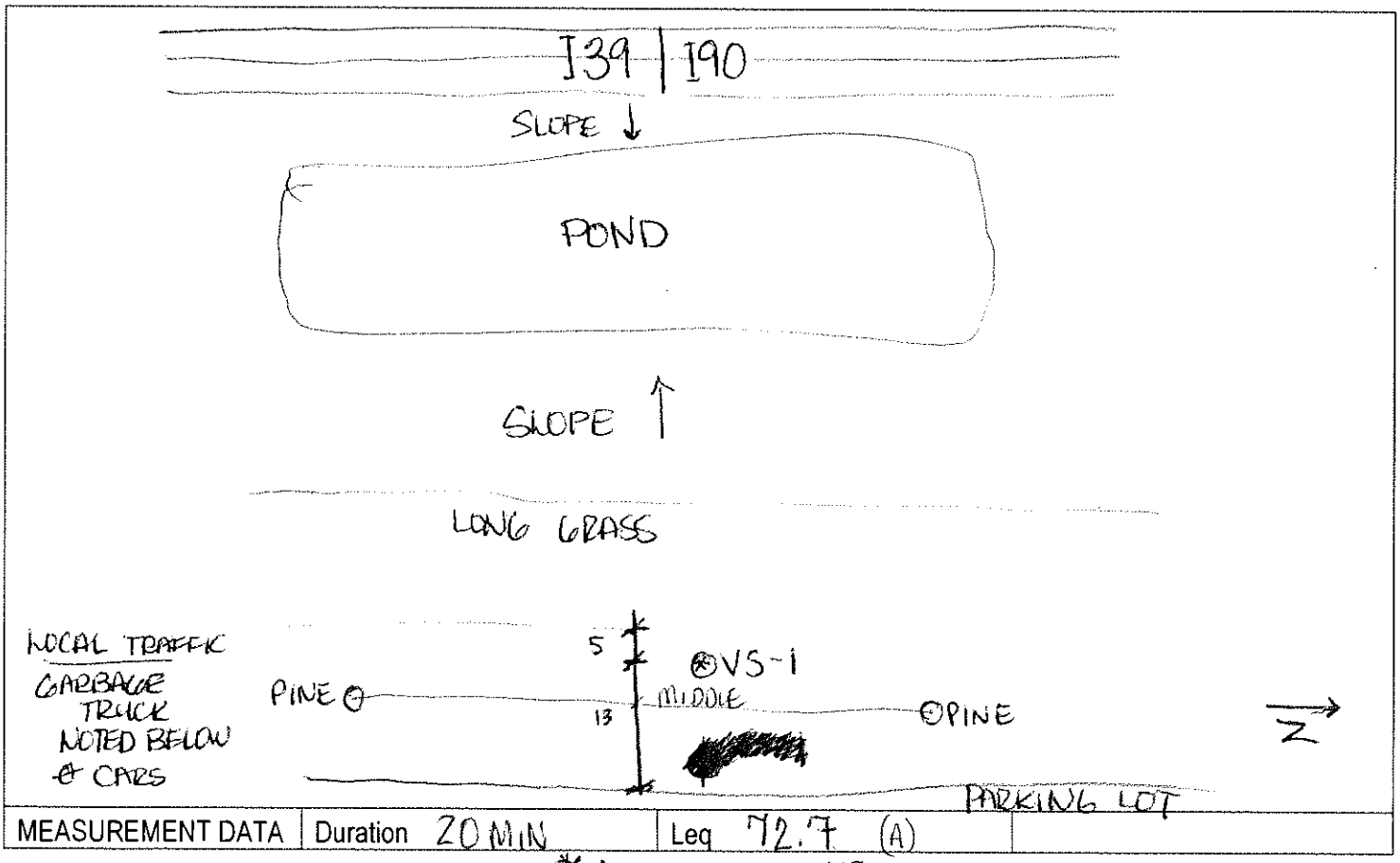
CALIBRATION: 113.8 at 1k Hz dB.

RESPONSE: FAST / SLOW WEIGHTING: A / C / LIN.

TRAFFIC DATA		
ROAD (Name/Dir)	39/90 NB	SB
AUTOS	337	355
MED TRKS	22	29
HVY TRKS	79	80
BUS	0	0
MOTORCYCLE	0	1
SPEED	70-75	70-75

EQUIPMENT	
INSTRUMENT	
SLM MANUFACTURER	Norsonic
SLM MODEL	Type 118
SLM	S / N 31483
PREAMPLIFIER – Type 1206	S / N 30522
MICROPHONE – Type 1225	S / N 48094
CALIBRATOR – Type 1251	S / N 30825

SITE SKETCH



MEASUREMENT DATA	Duration 20 MIN	Leq 72.7 (A)	

WEATHER DATA WIND SPEED (MPH) ≤1 DIR. NE TEMP. 78 HUMIDITY CLOUD COVER CLEAR

BACKGROUND NOISE

MAJOR SOURCES

UNUSUAL EVENTS EB- 0:53, 1:19

OTHER NOTES 19:30 GARBAGE TRUCK

NOISE MEASUREMENT DATA SHEET

SW-LT-007

PROJECT: I-39/90/94 South Segment JOB #: 79182 BY: ZAM

SITE: VS-2 DATE: 08/23/2022 TIME: 9:25

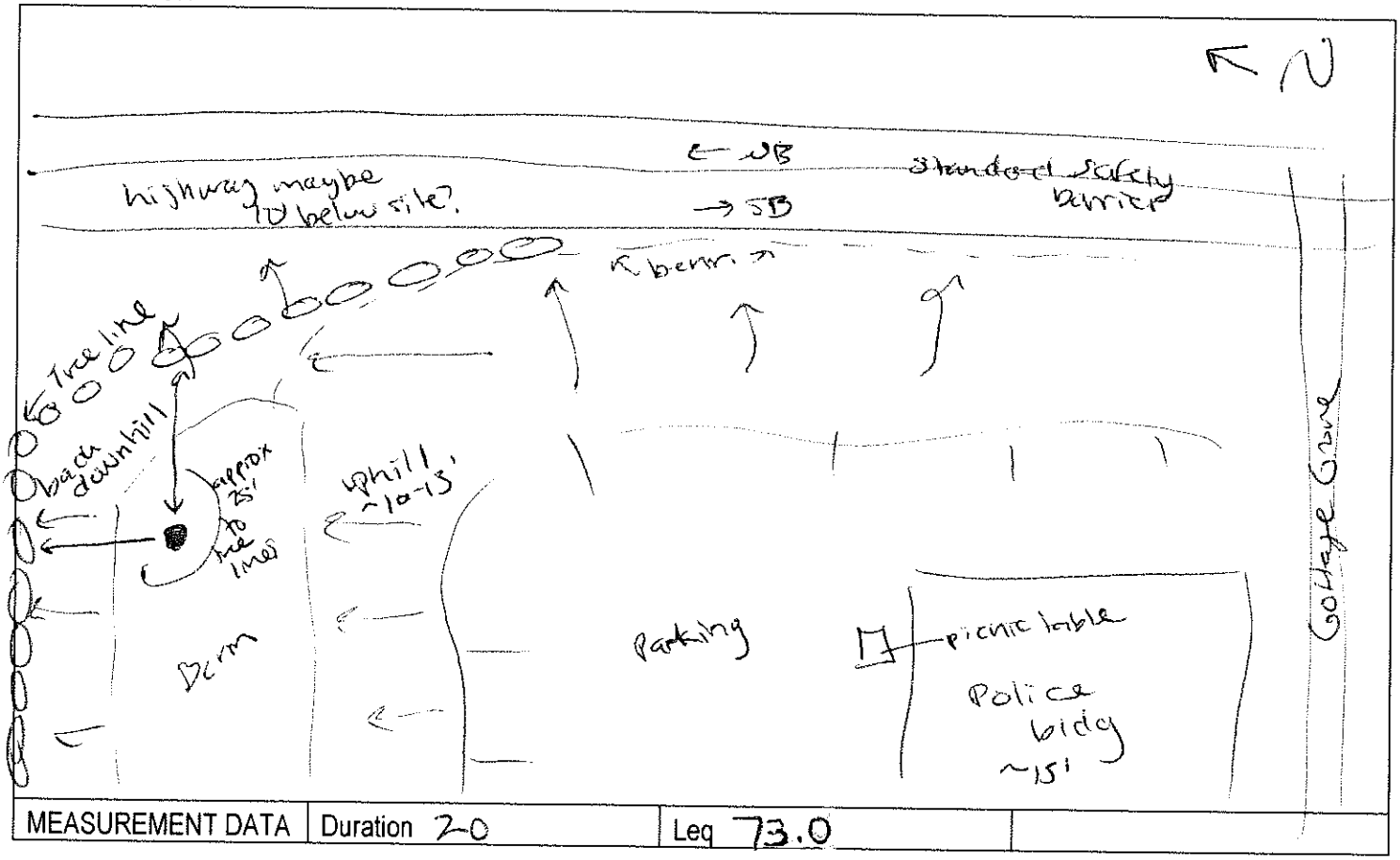
CALIBRATION: 114.0 at 1k Hz dB. 0.05 offset

RESPONSE: FAST / SLOW WEIGHTING: A / C / LIN.

TRAFFIC DATA		
ROAD (Name/Dir)	39/90 NB	SB
AUTOS	337	355
MED TRKS	22	29
HVY TRKS	79	80
BUS	0	0
MOTORCYCLE	0	1
SPEED	70-75	70-75

EQUIPMENT	
INSTRUMENT	
SLM MANUFACTURER	Larson Davis
SLM MODEL	LxT SE
SLM	S / N 0006277
PREAMPLIFIER – PRMLxT1L	S / N 069992
MICROPHONE – PCB 377B02	S / N 325784
CALIBRATOR – CAL200	S / N 9079

SITE SKETCH



MEASUREMENT DATA	Duration 20	Leq 73.0	

WEATHER DATA WIND SPEED (MPH)<5 DIR. W TEMP. 70° HUMIDITY 60% CLOUD COVER No

BACKGROUND NOISE

MAJOR SOURCES I-39-90-94

UNUSUAL EVENTS

OTHER NOTES

HNTB

NOISE MEASUREMENT DATA SHEET

SW_GT_010

PROJECT: I-39/90/94 South Segment JOB #: 79182 BY: RAM

SITE: VS-3 DATE: 08/23/2022 TIME: 11:40

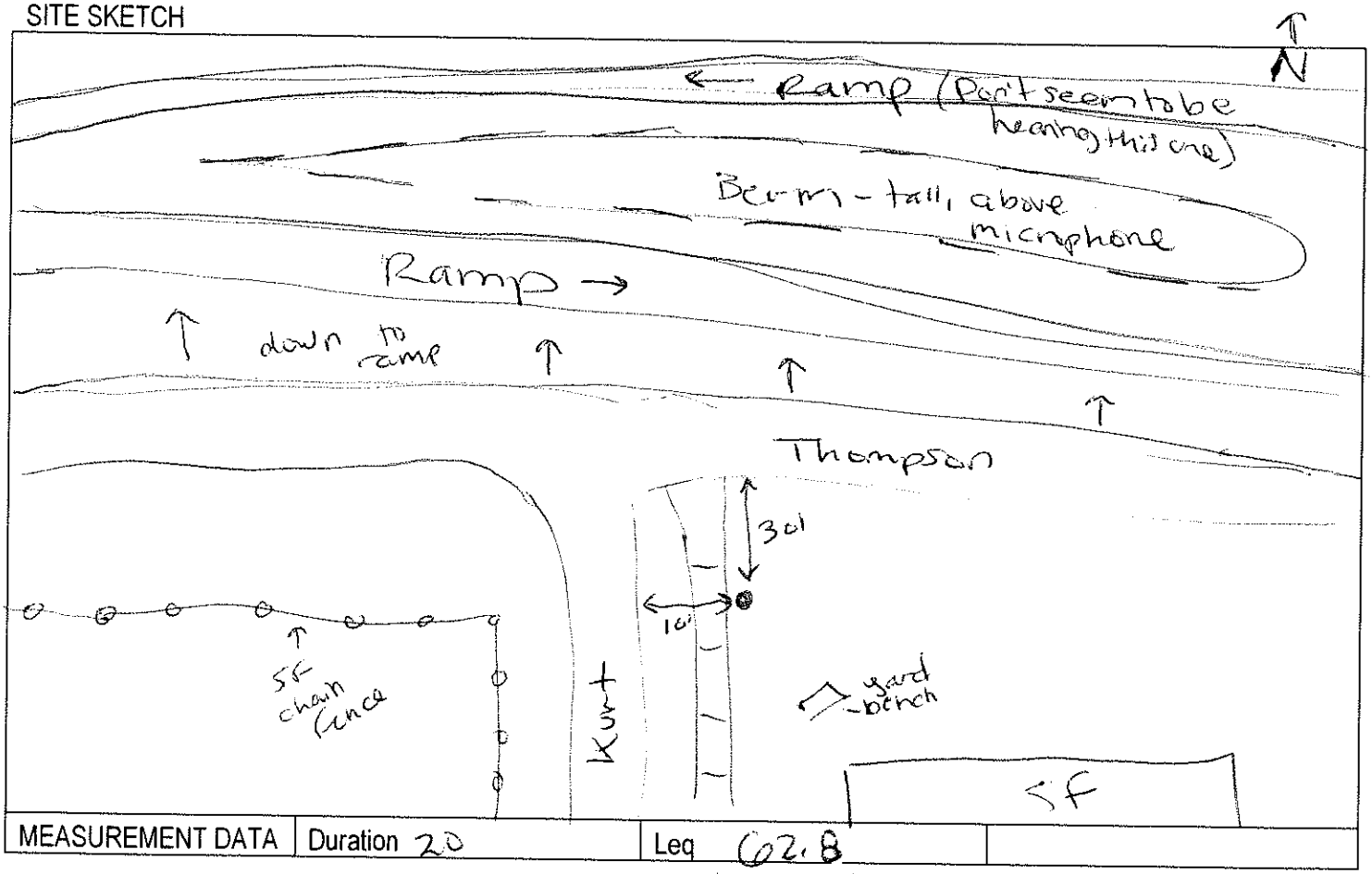
CALIBRATION: 114.0 at 1k Hz dB. -0.03 offset

RESPONSE: FAST / SLOW WEIGHTING: A / C / LIN.

20 min	TRAFFIC DATA ~~Thompson~~	
ROAD (Name/Dir)	Thompson	Kurt
AUTOS	61	12
MED TRKS	1	1
HVY TRKS	0	0
BUS	0	0
MOTORCYCLE	0	0
SPEED	35	25

EQUIPMENT	
INSTRUMENT	
SLM MANUFACTURER	Larson Davis
SLM MODEL	LxT SE
SLM	S / N 0006277
PREAMPLIFIER – PRMLxT1L	S / N 069992
MICROPHONE – PCB 377B02	S / N 325784
CALIBRATOR – CAL200	S / N 9079

SITE SKETCH



MEASUREMENT DATA	Duration 20	Leq 62.8	

WEATHER DATA WIND SPEED (MPH) ≤5 DIR. NW TEMP. 79° HUMIDITY 49% CLOUD COVER partly

BACKGROUND NOISE birds, aircraft

MAJOR SOURCES WIS 30 Ramps (Badger Interchange), Thompson/Kurt

UNUSUAL EVENTS

OTHER NOTES

HNTB

NOISE MEASUREMENT DATA SHEET

Sub-LxT-008

PROJECT: I-39/90/94 South Segment JOB #: 79182 BY: RAM

SITE: MS-4 DATE: 08/23/2022 TIME: 10:03

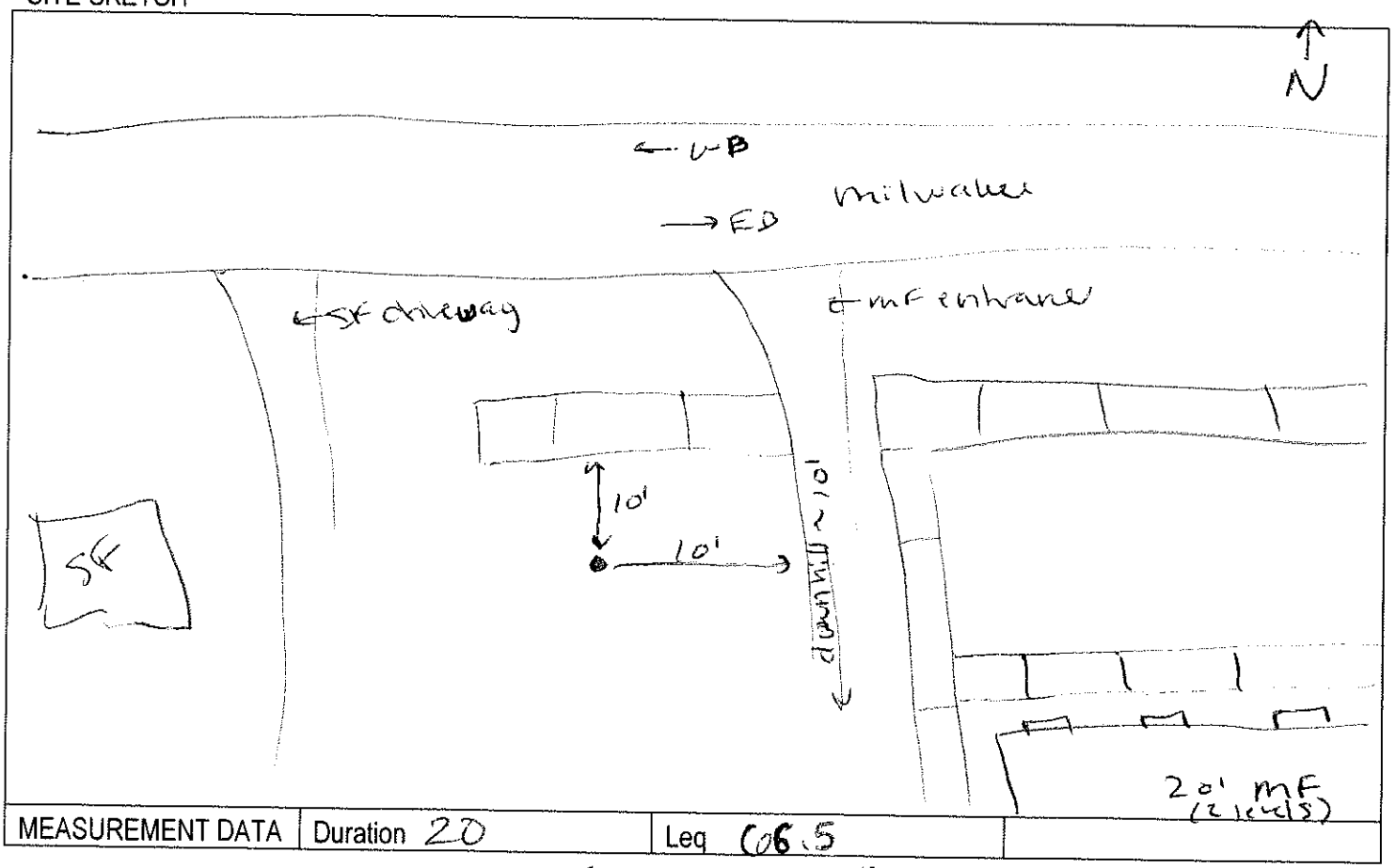
CALIBRATION: 114.0 at 1k Hz dB. 0.01 offset

RESPONSE: FAST / SLOW WEIGHTING: A / C / LIN.

TRAFFIC DATA Milwaukee St 20 min count, 35-40mph		
ROAD (Name/Dir)	EB	WB
AUTOS	50	46
MED TRKS	3	2
HVY TRKS	0	2
BUS	0	0
MOTORCYCLE	0	1
SPEED -posted	35	35

EQUIPMENT	
INSTRUMENT	
SLM MANUFACTURER	Larson Davis
SLM MODEL	LxT SE
SLM	S / N 0006277
PREAMPLIFIER – PRMLxT1L	S / N 069992
MICROPHONE – PCB 377B02	S / N 325784
CALIBRATOR – CAL200	S / N 9079

SITE SKETCH



MEASUREMENT DATA	Duration 20	Leq 66.5	

WEATHER DATA WIND SPEED (MPH) <5 DIR. W TEMP. 74° HUMIDITY 63% CLOUD COVER No

BACKGROUND NOISE

MAJOR SOURCES Milwaukee St, I-39-90-94 more distant, aircraft

UNUSUAL EVENTS

OTHER NOTES

NOISE MEASUREMENT DATA SHEET

PROJECT: I-39/90/94 South Segment JOB #: 79182 BY: JAR

SITE: VS-5 DATE: 8/23/22 TIME: 10:58 AM (11:58 AM ON MACHINE)

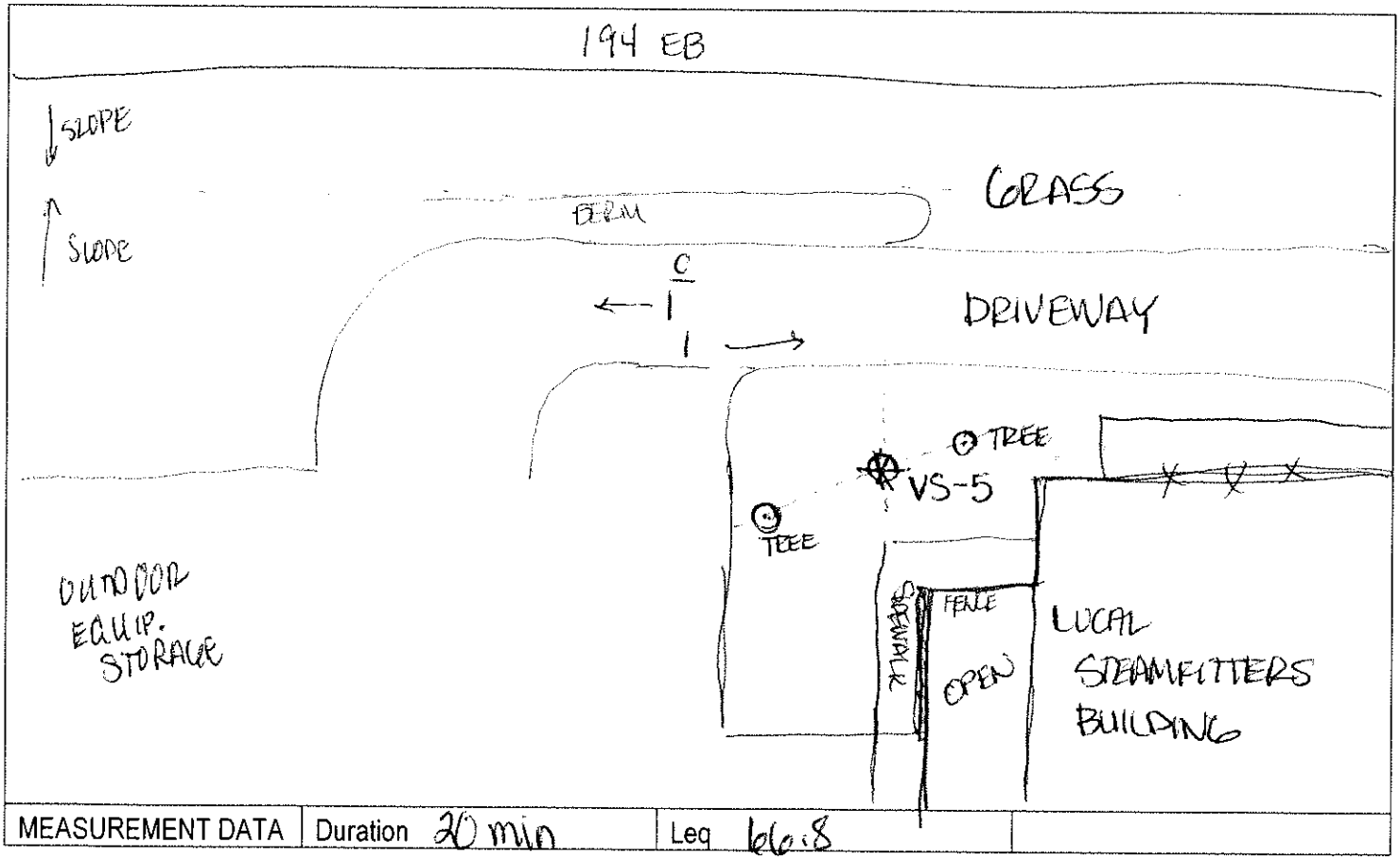
CALIBRATION: 113.8 at 1k Hz dB.

RESPONSE: FAST / **SLOW** WEIGHTING: **A** / C / LIN.

TRAFFIC DATA			
ROAD (Name/Dir)	EB 194	NB	DRIVEWAY
AUTOS	162	241	WB 1 2 EB 1
MED TRKS	8	6	
HVY TRKS	20	18	
BUS	0	1	
MOTORCYCLE	0	0	
SPEED	70-75	70-75	

EQUIPMENT	
INSTRUMENT	
SLM MANUFACTURER	Norsonic
SLM MODEL	Type 118
SLM	S / N 31483
PREAMPLIFIER – Type 1206	S / N 30522
MICROPHONE – Type 1225	S / N 48094
CALIBRATOR – Type 1251	S / N 30825

SITE SKETCH



MEASUREMENT DATA	Duration 20 min	Leq 66.8	

WEATHER DATA WIND SPEED (MPH) 1 DIR. NE TEMP. 78 HUMIDITY CLOUD COVER PARTLY

BACKGROUND NOISE

MAJOR SOURCES

UNUSUAL EVENTS

OTHER NOTES

NOISE MEASUREMENT DATA SHEET

PROJECT: I-39/90/94 South Segment JOB #: 79182 BY: JAR

SITE: FS-6 DATE: 8/23/22 TIME: 10:06 AM

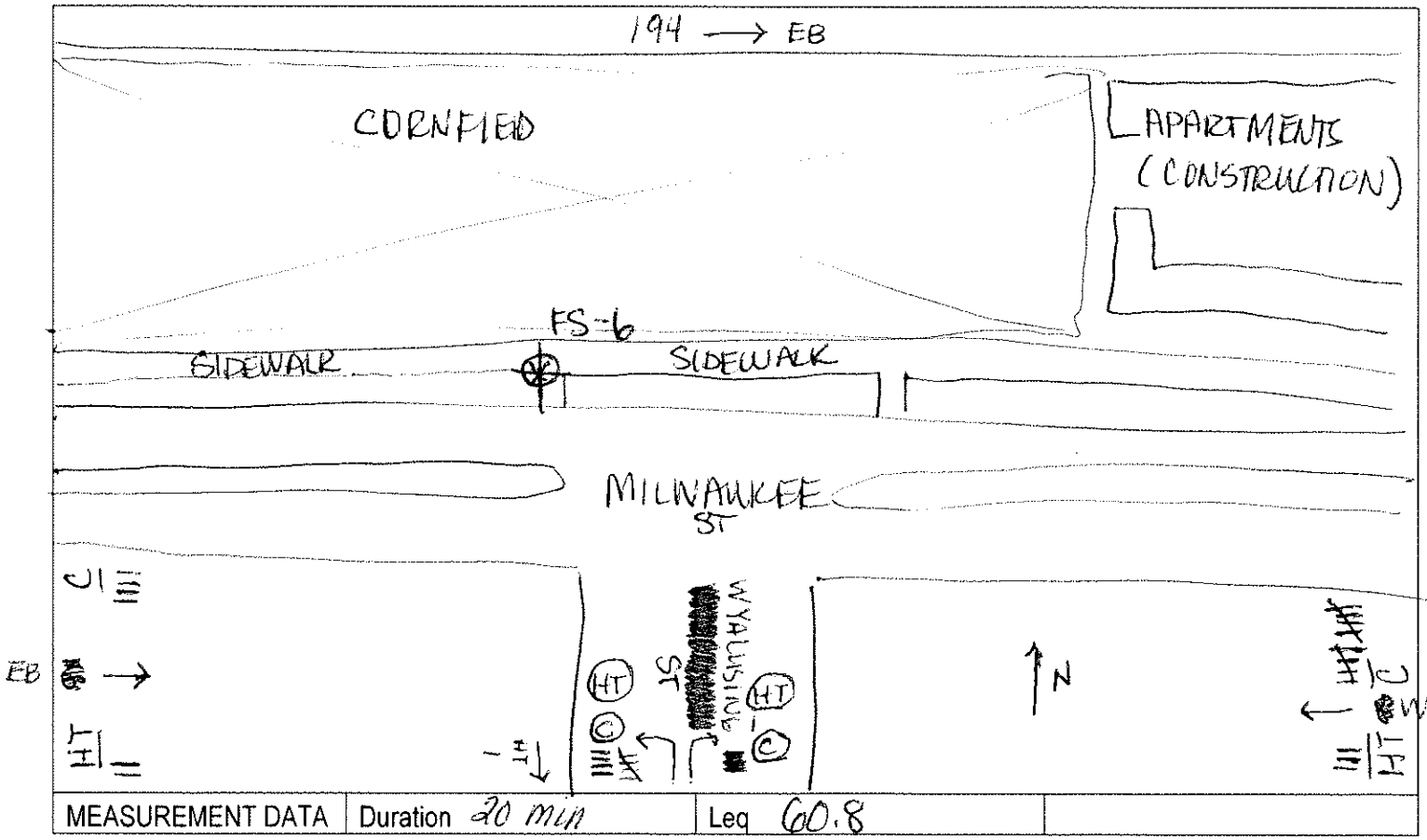
CALIBRATION: 113.8 at 1k Hz dB.

RESPONSE: FAST / SLOW WEIGHTING: A / C / LIN.

TRAFFIC DATA						
ROAD (Name/Dir)	194 EB	194 WB	MLW ST EB	MLW ST WB	WYALUSING 2 EB	WYALUSING 2 WB
AUTOS			4	10	0	9
MED TRKS			0	0	0	0
HVY TRKS			2	3	1	1
BUS			0	0	0	0
MOTORCYCLE			0	0	0	0
SPEED						

EQUIPMENT	
INSTRUMENT	
SLM MANUFACTURER	Norsonic
SLM MODEL	Type 118
SLM	S / N 31483
PREAMPLIFIER – Type 1206	S / N 30522
MICROPHONE – Type 1225	S / N 48094
CALIBRATOR – Type 1251	S / N 30825

SITE SKETCH



MEASUREMENT DATA	Duration 20 min	Leq 60.8	

WEATHER DATA WIND SPEED (MPH) | DIR. NE TEMP. 78 HUMIDITY CLOUD COVER CLEAR

BACKGROUND NOISE

MAJOR SOURCES

UNUSUAL EVENTS 11:33 GARBAGE TRUCK 13:37 - GARBAGE TRUCK

OTHER NOTES

HNTB

NOISE MEASUREMENT DATA SHEET

SW-LxT-012

PROJECT: I-39/90/94 South Segment JOB #: 79182 BY: RAM

SITE: VS-9 DATE: 8/23/2022 TIME: 14:25

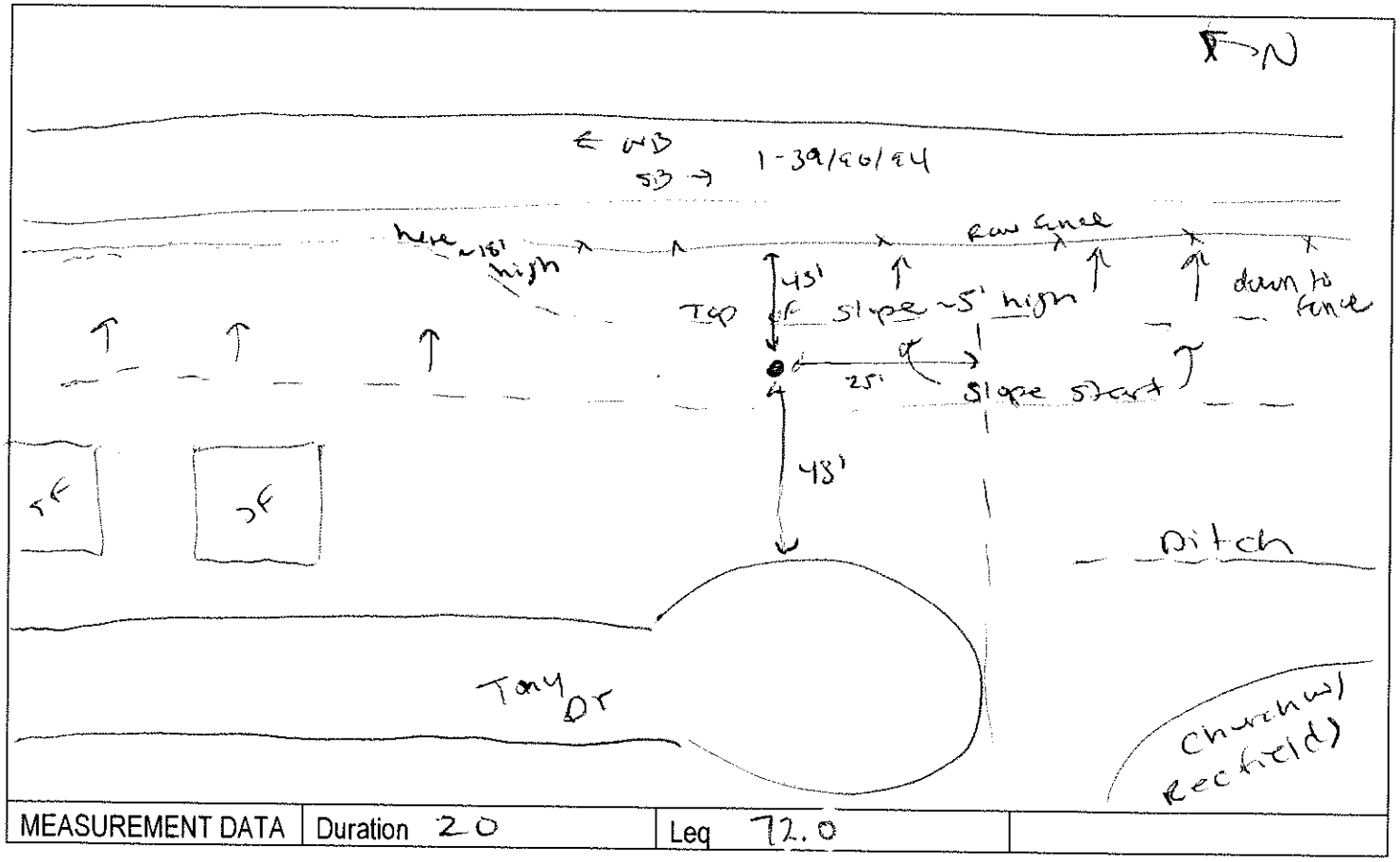
CALIBRATION: 114.0 at 1k Hz dB. 0.02 dB offset

RESPONSE: FAST / SLOW WEIGHTING: A / C / LIN.

TRAFFIC DATA		
ROAD (Name/Dir)	39/90 NB	SB
AUTOS	494	539
MED TRKS	20	30
HVY TRKS	92	~~130~~ 103
BUS	0	1
MOTORCYCLE	2	1
SPEED	70-75	70-75

EQUIPMENT	
INSTRUMENT	
SLM MANUFACTURER	Larson Davis
SLM MODEL	LxT SE
SLM	S / N 0006277
PREAMPLIFIER – PRMLxT1L	S / N 069992
MICROPHONE – PCB 377B02	S / N 325784
CALIBRATOR – CAL200	S / N 9079

SITE SKETCH



MEASUREMENT DATA	Duration 20	Leq 72.0	

WEATHER DATA WIND SPEED (MPH) <5 DIR. W TEMP. 80 HUMIDITY 43 % CLOUD COVER partly

BACKGROUND NOISE

MAJOR SOURCES I-39/90/94

UNUSUAL EVENTS

OTHER NOTES

NOISE MEASUREMENT DATA SHEET

SW-LxT_013

PROJECT: I-39/90/94 South Segment JOB #: 79182 BY: RAM

SITE: VS-10 DATE: 8/23/2022 TIME: 15:26

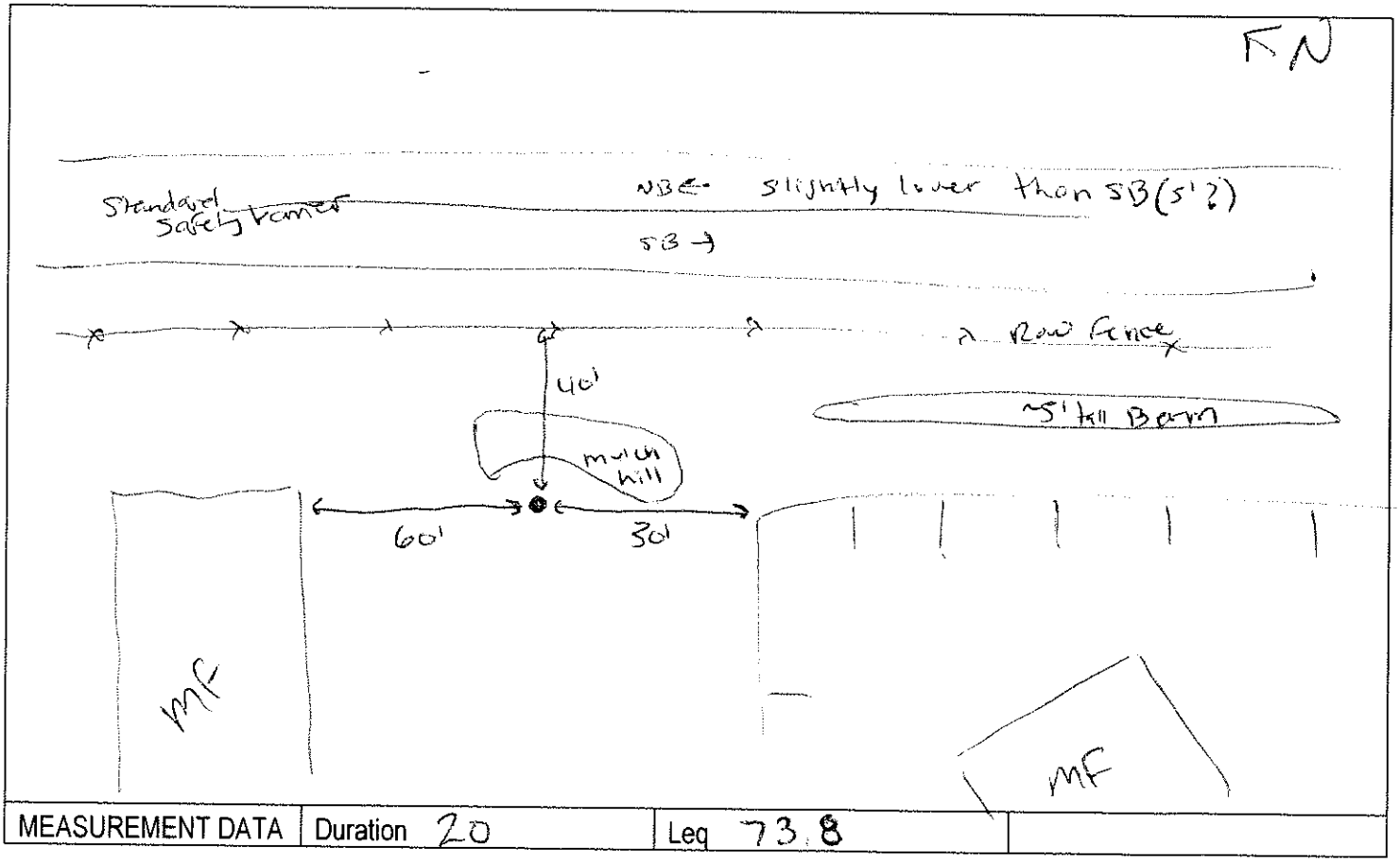
CALIBRATION: 114.0 at 1k Hz dB. 0.01 offset

RESPONSE: FAST / SLOW WEIGHTING: A / C / LIN.

TRAFFIC DATA		
ROAD (Name/Dir)	39/90 NB	SB
AUTOS	355	406
MED TRKS	17	18
HVY TRKS	88	84
BUS	0	0
MOTORCYCLE	2	2
SPEED	70-75	70-75

EQUIPMENT	
INSTRUMENT	
SLM MANUFACTURER	Larson Davis
SLM MODEL	LxT SE
SLM	S / N 0006277
PREAMPLIFIER – PRMLxT1L	S / N 069992
MICROPHONE – PCB 377B02	S / N 325784
CALIBRATOR – CAL200	S / N 9079

SITE SKETCH



MEASUREMENT DATA	Duration 20	Leq 73.8	

WEATHER DATA WIND SPEED (MPH) <5 DIR. NW TEMP. 81 HUMIDITY 44% CLOUD COVER partly

BACKGROUND NOISE

MAJOR SOURCES I-90/94

UNUSUAL EVENTS

OTHER NOTES

SW_LxT_018

HNTB

NOISE MEASUREMENT DATA SHEET

PROJECT: I-39/90/94 South Segment JOB #: 79182 BY: DAM

SITE: FS-11 DATE: 8/24/2022 TIME: 10:39

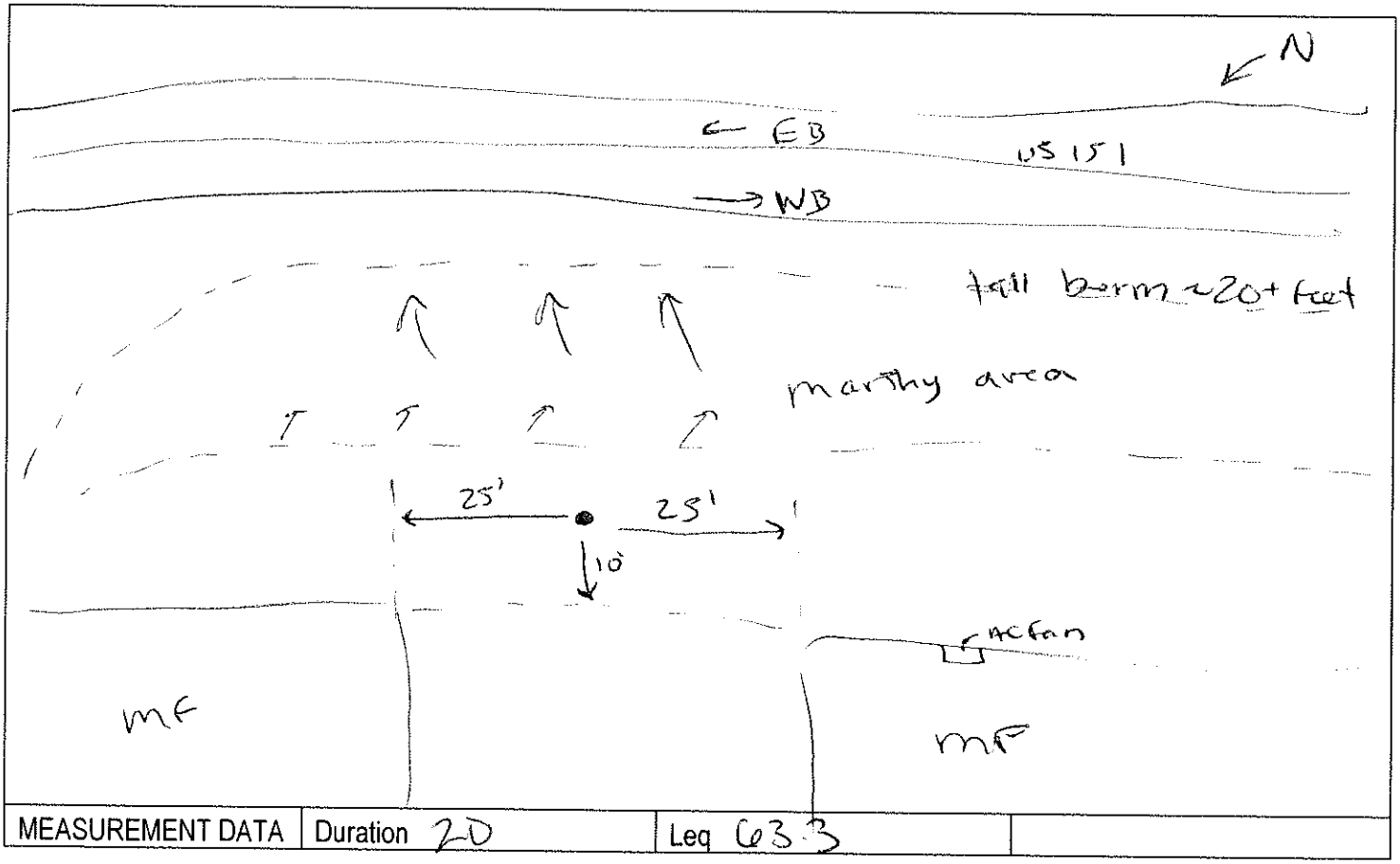
CALIBRATION: 114.0 at 1k Hz dB. -0.07 offset

RESPONSE: FAST / SLOW WEIGHTING: A / C / LIN.

TRAFFIC DATA		
ROAD (Name/Dir)		
AUTOS		
MED TRKS		
HVY TRKS		
BUS		
MOTORCYCLE		
SPEED		

EQUIPMENT	
INSTRUMENT	
SLM MANUFACTURER	Larson Davis
SLM MODEL	LxT SE
SLM	S / N 0006277
PREAMPLIFIER – PRMLxT1L	S / N 069992
MICROPHONE – PCB 377B02	S / N 325784
CALIBRATOR – CAL200	S / N 9079

SITE SKETCH



MEASUREMENT DATA	Duration 20	Leq 63.3	

WEATHER DATA WIND SPEED (MPH) < 5 DIR. SSW TEMP. 77 HUMIDITY 53% CLOUD COVER NO

BACKGROUND NOISE insects, some A/C fans nearby

MAJOR SOURCES US 151 (behind berm), aircraft

UNUSUAL EVENTS

OTHER NOTES

HNTB

NOISE MEASUREMENT DATA SHEET

PROJECT: I-39/90/94 South Segment JOB #: 79182 BY: JAR

SITE: FS-14 DATE: 8/23/22 TIME: 3:25 PM

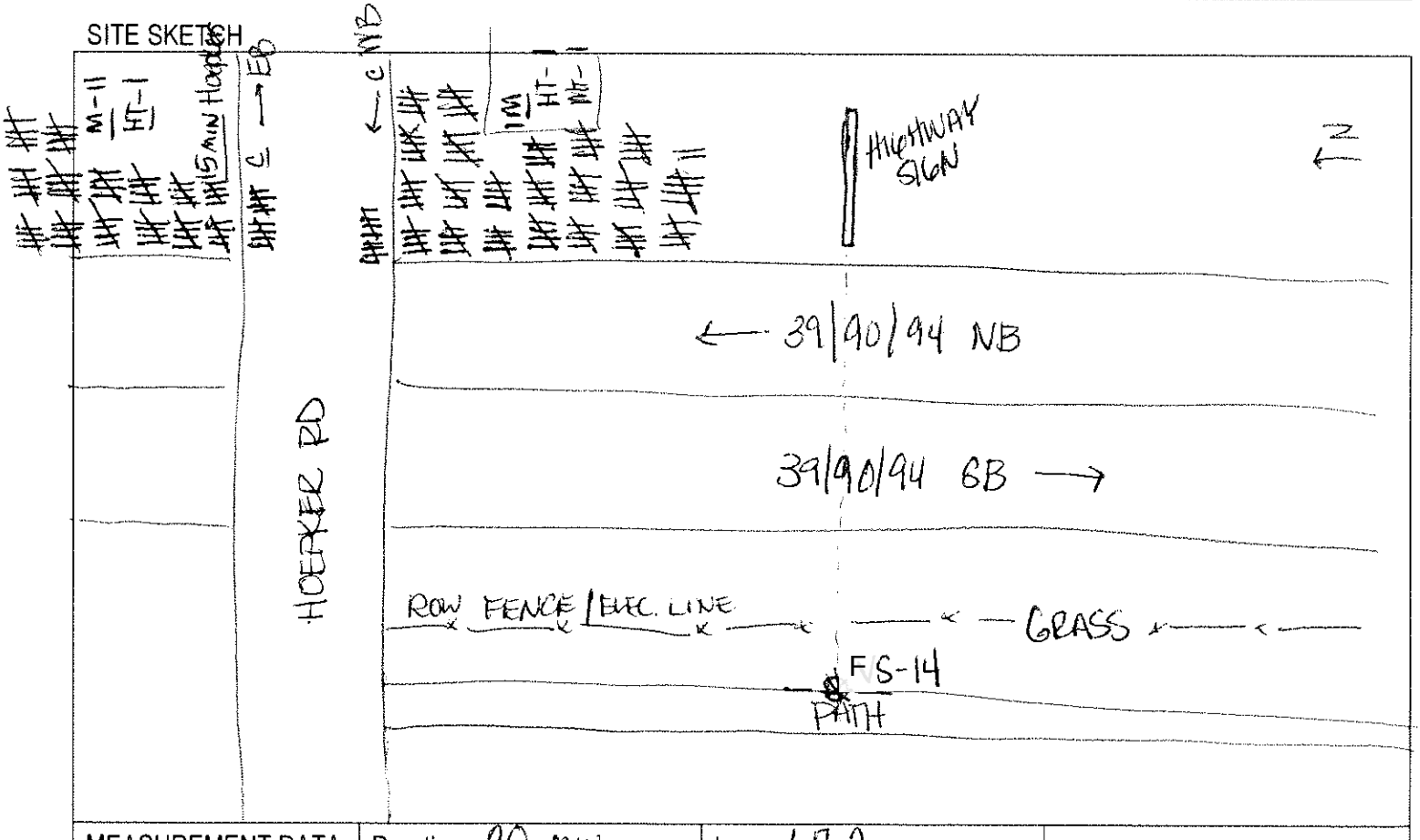
CALIBRATION: 113.8 at 1k Hz dB.

RESPONSE: FAST / SLOW WEIGHTING: A / C / LIN.

TRAFFIC DATA				
ROAD (Name/Dir)	39/90/94 NB	39/90/94 SB	HOERNER RD EB	HOERNER RD WB
AUTOS	355	2106	80	117
MED TRKS	17	18	0	0
HVY TRKS	88	84	1	1
BUS	0	0	0	0
MOTORCYCLE	2	2	2	1
SPEED	70-75	70-75	40-45	40-45

EQUIPMENT	
INSTRUMENT	
SLM MANUFACTURER	Norsonic
SLM MODEL	Type 118
SLM	S / N 31483
PREAMPLIFIER – Type 1206	S / N 30522
MICROPHONE – Type 1225	S / N 48094
CALIBRATOR – Type 1251	S / N 30825

SITE SKETCH



MEASUREMENT DATA	Duration 20 MIN	Leq 67.2	

WEATHER DATA WIND SPEED (MPH) DIR. TEMP. HUMIDITY CLOUD COVER MOSTLY SUNNY

BACKGROUND NOISE

MAJOR SOURCES

UNUSUAL EVENTS

OTHER NOTES

NOISE MEASUREMENT DATA SHEET

SLO_LxT_.002

PROJECT: I-39/90/94 South Segment JOB #: 79182 BY: RAM

SITE: VS-15 DATE: 08/22/2022 TIME: 14:08

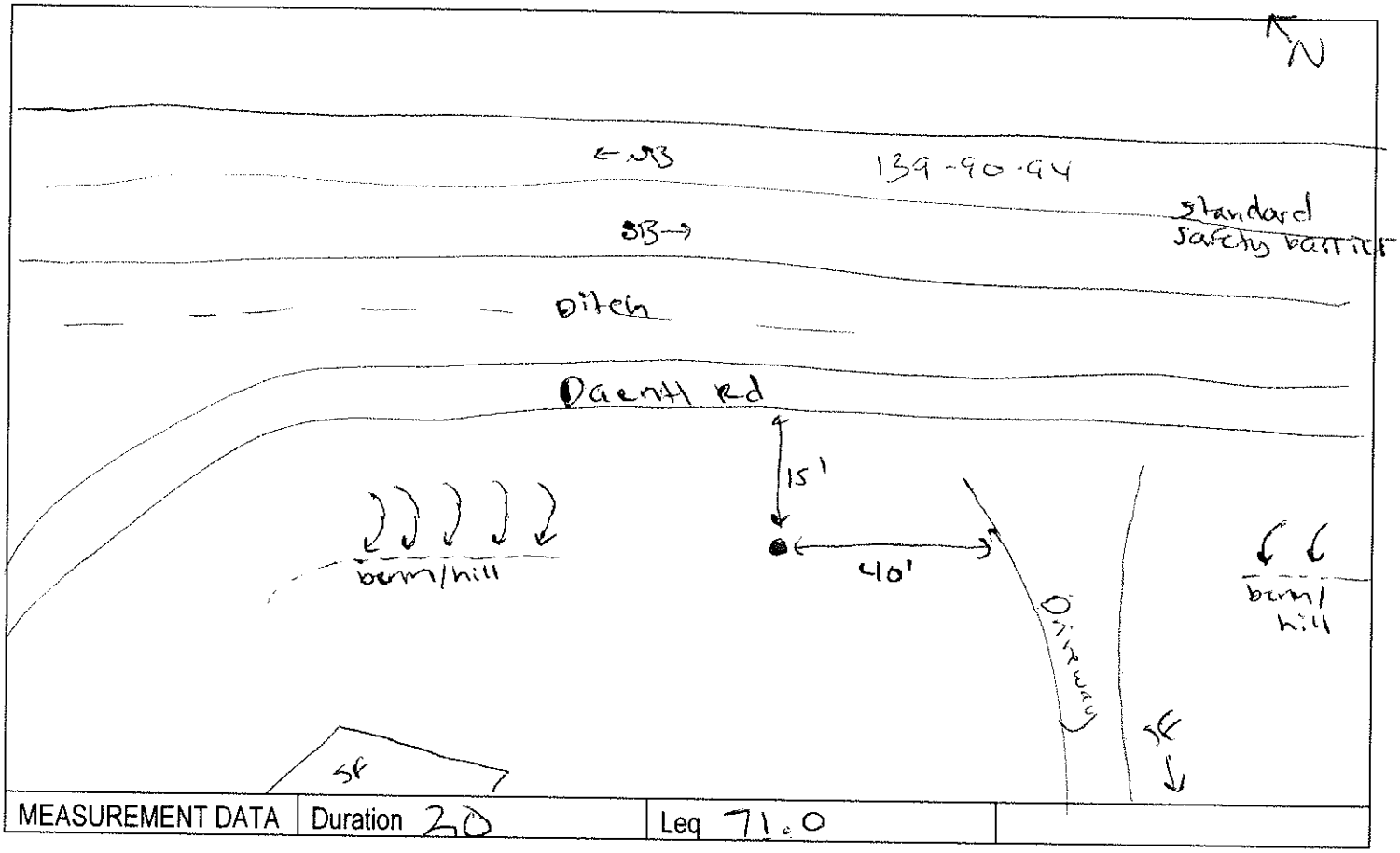
CALIBRATION: 114.0 at 1k Hz dB. -.01 offset

RESPONSE: FAST / SLOW WEIGHTING: A / C / LIN.

TRAFFIC DATA		
ROAD (Name/Dir)	39/90 NB	SB
AUTOS	310	361
MED TRKS	16	13
HVY TRKS	64	76
BUS	0	0
MOTORCYCLE	0	1
SPEED	70-75	70-75

EQUIPMENT	
INSTRUMENT	
SLM MANUFACTURER	Larson Davis
SLM MODEL	LxT SE
SLM	S / N 0006277
PREAMPLIFIER – PRMLxT1L	S / N 069992
MICROPHONE – PCB 377B02	S / N 325784
CALIBRATOR – CAL200	S / N 9079

SITE SKETCH



MEASUREMENT DATA	Duration 20	Leq 71.0	

WEATHER DATA WIND SPEED (MPH) <5 DIR. NW TEMP. 79° HUMIDITY 44% CLOUD COVER No

BACKGROUND NOISE

MAJOR SOURCES I-39-90-94, Daenth Rd

UNUSUAL EVENTS military jets overhead

OTHER NOTES

HNTB

NOISE MEASUREMENT DATA SHEET

SW_LxT_.004

PROJECT: I-39/90/94 South Segment JOB #: 79182 BY: RAW

SITE: VS-17 DATE: 8/22/2022 TIME: 15:51

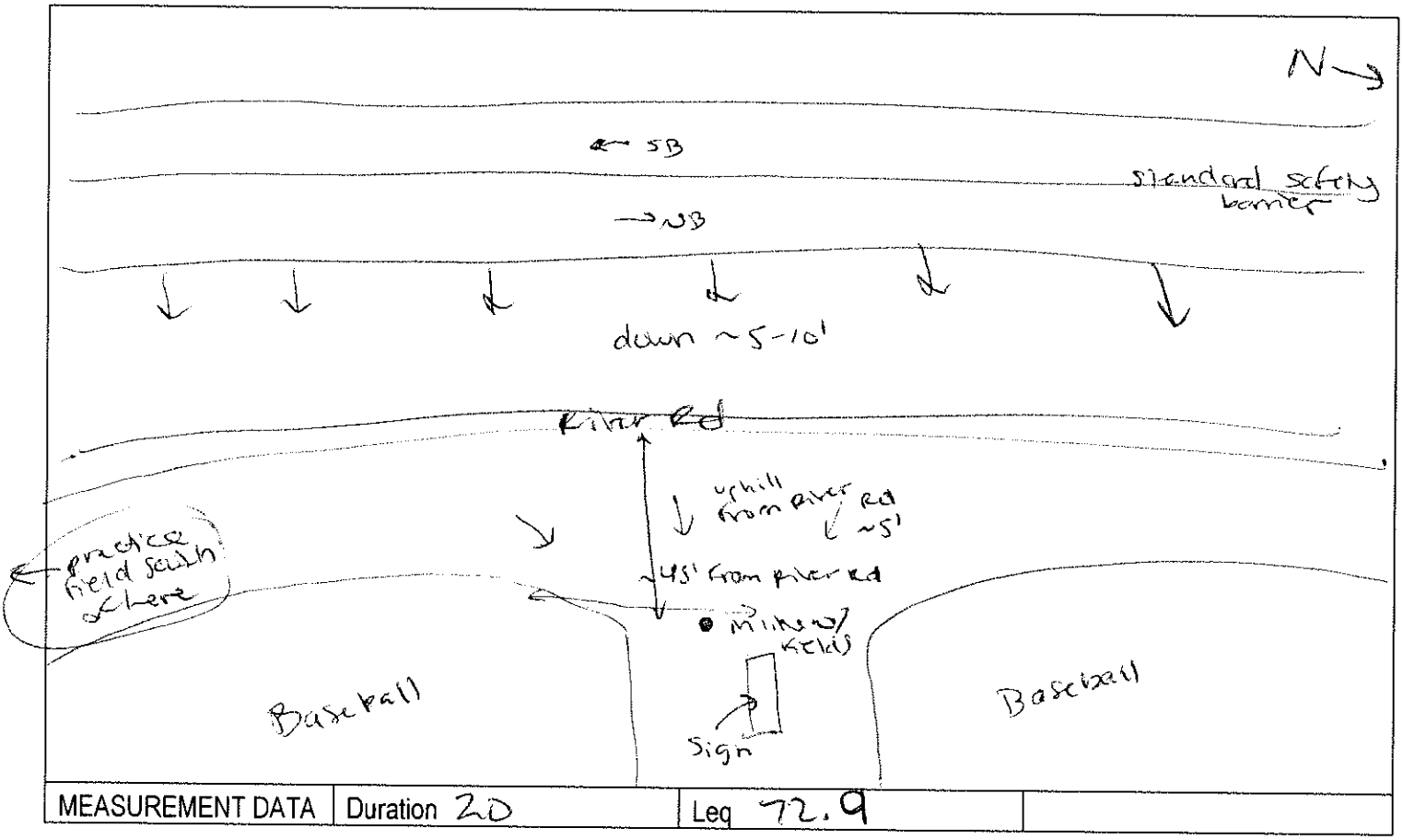
CALIBRATION: 114.0 at 1k Hz dB. -0.02 offset

RESPONSE: FAST / SLOW WEIGHTING: A / C / LIN.

TRAFFIC DATA		
ROAD (Name/Dir)	39/90 NB	SB
AUTOS	307	309
MED TRKS	14	09
HVY TRKS	59	92
BUS	0	0
MOTORCYCLE	1	1
SPEED	70.75	70.75

EQUIPMENT	
INSTRUMENT	
SLM MANUFACTURER	Larson Davis
SLM MODEL	LxT SE
SLM	S / N 0006277
PREAMPLIFIER – PRMLxT1L	S / N 069992
MICROPHONE – PCB 377B02	S / N 325784
CALIBRATOR – CAL200	S / N 9079

SITE SKETCH



MEASUREMENT DATA	Duration 20	Leq 72.9	

WEATHER DATA WIND SPEED (MPH) <5 DIR. NW TEMP. 79 HUMIDITY 45% CLOUD COVER partly

BACKGROUND NOISE

MAJOR SOURCES I-39-90-94, River Rd

UNUSUAL EVENTS military jets

OTHER NOTES

HNTB

NOISE MEASUREMENT DATA SHEET

Sw_LxT_005

PROJECT: I-39/90/94 South Segment JOB #: 79182 BY: AJP

SITE: VS-18 DATE: 8/22/2022 TIME: ~~13~~ 16:42

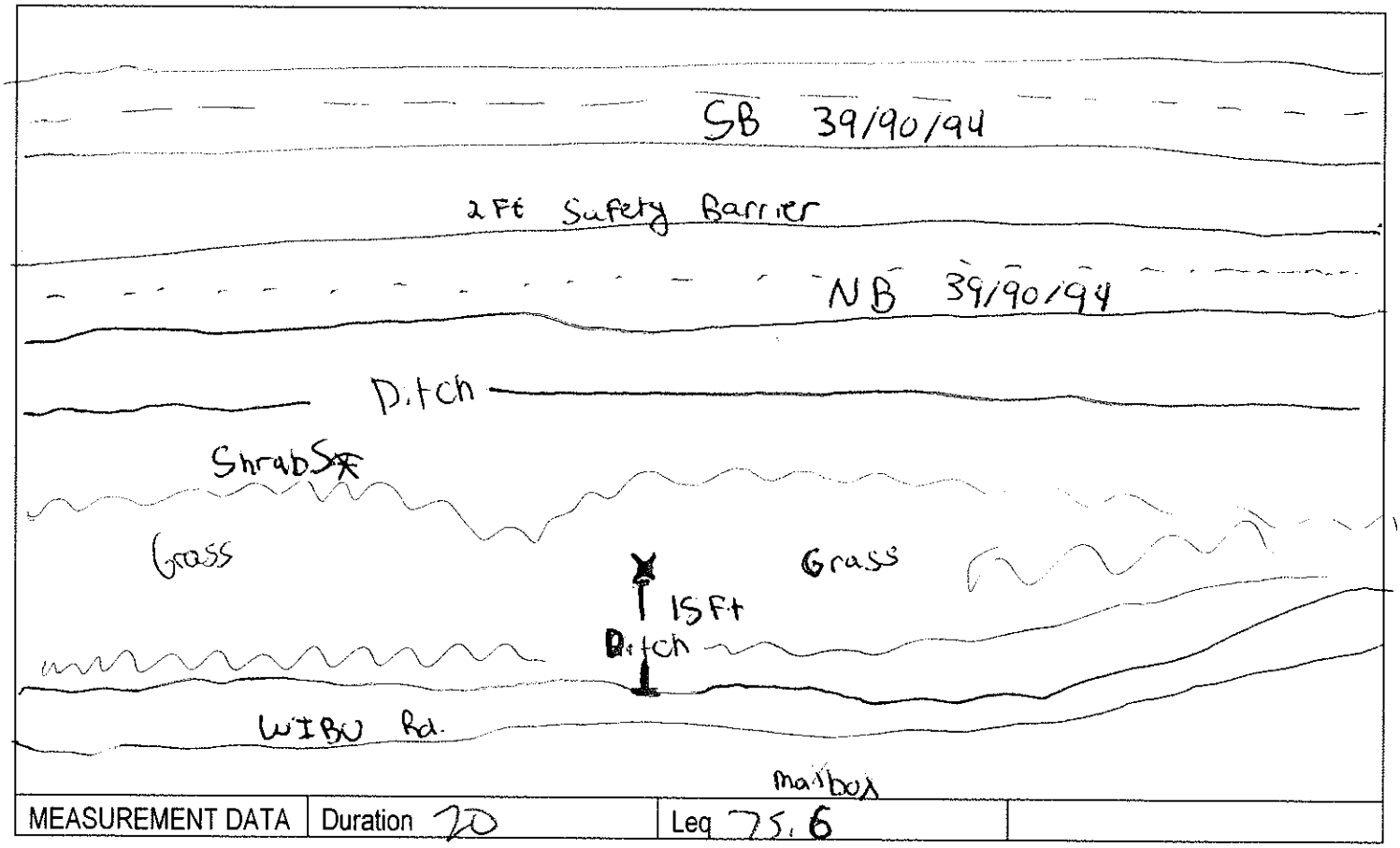
CALIBRATION: 114.0 at 1k Hz dB. -0.04

RESPONSE: FAST / SLOW WEIGHTING: A / C / LIN.

TRAFFIC DATA		
ROAD (Name/Dir)	39/90 NB	SB
AUTOS	309	341
MED TRKS	4	8
HVY TRKS	69	80
BUS	0	1
MOTORCYCLE	2	0
SPEED	70-75	70-75

EQUIPMENT	
INSTRUMENT	
SLM MANUFACTURER	Larson Davis
SLM MODEL	LxT SE
SLM	S / N 0006277
PREAMPLIFIER – PRMLxT1L	S / N 069992
MICROPHONE – PCB 377B02	S / N 325784
CALIBRATOR – CAL200	S / N 9079

SITE SKETCH



MEASUREMENT DATA	Duration 20	Leq 75.6	

WEATHER DATA WIND SPEED (MPH) 10 S DIR. WNW TEMP. 91 HUMIDITY 44 CLOUD COVER 50

BACKGROUND NOISE

MAJOR SOURCES I-39/90/94

UNUSUAL EVENTS

OTHER NOTES

HNTB

NOISE MEASUREMENT DATA SHEET

SW-CXT-.004

PROJECT: I-39/90/94 South Segment JOB #: 79182 BY: RAW

SITE: VS-19 DATE: 08/22/2022 TIME: 17:32

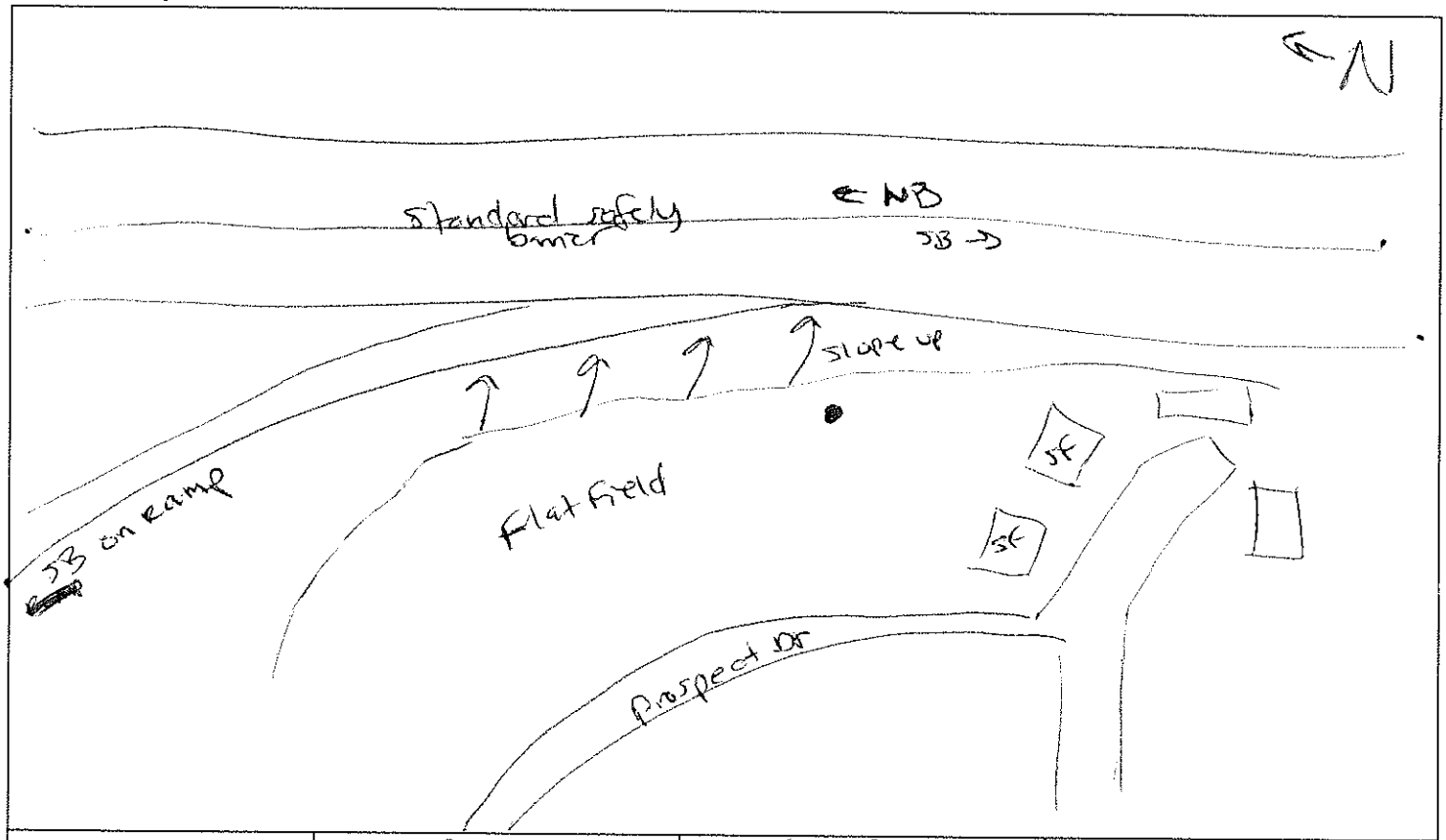
CALIBRATION: 114.0 at 1k Hz dB. -0.03 offset

RESPONSE: FAST / SLOW WEIGHTING: A / C / LIN.

TRAFFIC DATA		
ROAD (Name/Dir)	39/90 WB	SB
AUTOS	289	257
MED TRKS	2	3
HVY TRKS	72	83
BUS	1	0
MOTORCYCLE	1	0
SPEED	70-75	

EQUIPMENT	
INSTRUMENT	
SLM MANUFACTURER	Larson Davis
SLM MODEL	LxT SE
SLM	S / N 0006277
PREAMPLIFIER – PRMLxT1L	S / N 069992
MICROPHONE – PCB 377B02	S / N 325784
CALIBRATOR – CAL200	S / N 9079

SITE SKETCH



MEASUREMENT DATA	Duration 20	Leq 65.6	

WEATHER DATA WIND SPEED (MPH) <5 DIR. NNW TEMP. 73° HUMIDITY 48% CLOUD COVER partly

BACKGROUND NOISE

MAJOR SOURCES I-39-90-94

UNUSUAL EVENTS

OTHER NOTES

Noise Measurement Data Sheet

Site: VS-21 I-39/I-90/I-94 Project Lodi, WI				Date 8/10/2022
Project Team Patrick Joseph Caitlyn Wagner Cliff Riley Octave	CSJs: Noise Meter Model: SoundPro DL 1-1/3	Response Fast ☒ Slow ☐	Weighting A ☒ C ☐	Battery* 100% *replace if below 50%
Calibrator Model QC-10-Sound Calibrator		Calibrator @ 114 dBA Start	End	
Weather Data Temperature:	Humidity:	Wind Speed:	Notes: sunny	

Measurement Data

Event	Begin Time	End Time	L_{eq} (dBA)	L_{min} (dBA)	L_{max} (dBA)
1	4:59	5:19	66.7	59.2	73.1
2					
3					

Traffic Data and Average Speeds

Event	Direction	Autos	Medium Trucks	Heavy Trucks	Motorcycle	Buses
Total Average Hourly Count	Northbound (ML)	1740	72	426	9	3
Total Average Hourly Count	Northbound (Frontage)					
Total Average Hourly Count	Southbound (ML)	1626	99	510	12	3
Total Average Hourly Count	Southbound (Frontage)					

Site Sketch



Notes
(Major sources, background noise, unusual events, etc.)

Noise Measurement Data Sheet

Site: VS-22, I-39/I-90/I-94 Project Poynette, WI				Date 8/10/2022
Project Team Patrick Joseph Caitlyn Wagner Cliff Riley	CSJs: Noise Meter Model: SoundPro DL 1-1/3 Octave	Response Fast ☒ Slow ☐	Weighting A ☒ C ☐	Battery* 100% *replace if below 50%
Calibrator Model QC-10-Sound Calibrator		Calibrator @ 114 dBA Start End		
Weather Data Temperature: Humidity: Wind Speed: Notes:				

Measurement Data

Event	Begin Time	End Time	L_{eq} (dBA)	L_{min} (dBA)	L_{max} (dBA)
1	4:18	4:38	68.2	60.3	75.8
2					
3					

Traffic Data and Average Speeds

Event	Direction	Autos	Medium Trucks	Heavy Trucks	Motorcycle	Buses
Total Average Hourly Count	Northbound (ML)	1839	66	474	6	3
Total Average Hourly Count	Northbound (Frontage)					
Total Average Hourly Count	Southbound (ML)	2064	84	393	9	0
Total Average Hourly Count	Southbound (Frontage)					

Site Sketch



Notes
(Major sources, background noise, unusual events, etc.)

Noise Measurement Data Sheet

Site: VS-23 I-39/I-90/I-94 Project Portage, WI				Date 8/10/2022
Project Team Patrick Joseph Caitlyn Wagner Cliff Riley	CSJs: Noise Meter Model: SoundPro DL 1-1/3 Octave	Response Fast ☒ Slow ☐	Weighting A ☒ C ☐	Battery* 100% *replace if below 50%
Calibrator Model QC-10-Sound Calibrator		Calibrator @ 114 dBA Start End		
Weather Data Temperature: Humidity: Wind Speed: Notes:				

Measurement Data

Event	Begin Time	End Time	L_{eq} (dBA)	L_{min} (dBA)	L_{max} (dBA)
1	3:30	3:50	76.5	56.7	86.4
2					
3					

Traffic Data and Average Speeds

Event	Direction	Autos	Medium Trucks	Heavy Trucks	Motorcycle	Buses
Total Average Hourly Count	Northbound (ML)	960	51	69	6	3
Total Average Hourly Count	Northbound (Frontage)					
Total Average Hourly Count	Southbound (ML)	645	21	105	0	3
Total Average Hourly Count	Southbound (Frontage)					

Site Sketch



Notes
(Major sources, background noise, unusual events, etc.)

Noise Measurement Data Sheet

Site: VS-24 I-39/I-90/I-94 Project Portage, WI				Date 8/10/2022
Project Team Patrick Joseph Caitlyn Wagner Cliff Riley	CSJs: Noise Meter Model: SoundPro DL 1-1/3 Octave	Response Fast ☒ Slow ☐	Weighting A ☒ C ☐	Battery* 100% *replace if below 50%
Calibrator Model QC-10-Sound Calibrator		Calibrator @ 114 dBA Start End		
Weather Data Temperature: Humidity: Wind Speed: Notes:				

Measurement Data

Event	Begin Time	End Time	L_{eq} (dBA)	L_{min} (dBA)	L_{max} (dBA)
1	2:54	3:14	74.7	58.6	84.5
2					
3					

Traffic Data and Average Speeds

Event	Direction	Autos	Medium Trucks	Heavy Trucks	Motorcycle	Buses
Total Average Hourly Count	Northbound (ML)	1191	48	453	0	12
Total Average Hourly Count	Northbound (Frontage)					
Total Average Hourly Count	Southbound (ML)	1074	57	363	3	0
Total Average Hourly Count	Southbound (Frontage)					

Site Sketch



Notes
(Major sources, background noise, unusual events, etc.)

Noise Measurement Data Sheet

Site: VS-25 I-39/I-90/I-94 Project Baraboo, WI				Date 8/10/2022
Project Team Patrick Joseph Caitlyn Wagner Cliff Riley	CSJs: Noise Meter Model: SoundPro DL 1-1/3 Octave	Response Fast ☒ Slow ☐	Weighting A ☒ C ☐	Battery* 100% *replace if below 50%
Calibrator Model QC-10-Sound Calibrator		Calibrator @ 114 dBA Start	End	
Weather Data Temperature:	Humidity:	Wind Speed:	Notes:	

Measurement Data

Event	Begin Time	End Time	L_{eq} (dBA)	L_{min} (dBA)	L_{max} (dBA)
1	2:00	2:20	75.6	63.3	84.2
2					
3					

Traffic Data and Average Speeds

Event	Direction	Autos	Medium Trucks	Heavy Trucks	Motorcycle	Buses
Total Average Hourly Count	Northbound (ML)	1110	42	360	6	0
Total Average Hourly Count	Northbound (Frontage)					
Total Average Hourly Count	Southbound (ML)	1257	42	405	18	0
Total Average Hourly Count	Southbound (Frontage)					

Site Sketch



Notes
(Major sources, background noise, unusual events, etc.)

Noise Measurement Data Sheet

Site: FS-26 I-39/I-90/I-94 Project Baraboo, WI				Date 8/10/2022
Project Team Patrick Joseph Caitlyn Wagner Cliff Riley Octave	CSJs: Noise Meter Model: SoundPro DL 1-1/3	Response Fast ☒ Slow ☐	Weighting A ☒ C ☐	Battery* 100% *replace if below 50%
Calibrator Model QC-10-Sound Calibrator		Calibrator @ 114 dBA Start End		
Weather Data Temperature: Humidity: Wind Speed: Notes:				

Measurement Data

Event	Begin Time	End Time	L_{eq} (dBA)	L_{min} (dBA)	L_{max} (dBA)
1	11:54	12:14	58.2	50.7	64.6
2					
3					

Traffic Data and Average Speeds

Event	Direction	Autos	Medium Trucks	Heavy Trucks	Motorcycle	Buses
Total Average Hourly Count	Northbound (ML)	1266	39	393	6	0
Total Average Hourly Count	Northbound (Frontage)					
Total Average Hourly Count	Southbound (ML)	1140	39	369	12	0
Total Average Hourly Count	Southbound (Frontage)					

Site Sketch



Notes
(Major sources, background noise, unusual events, etc.)

Noise Measurement Data Sheet

Site: VS-27 I-39/I-90/I-94 Project Wisconsin Dells, WI				Date 8/10/2022
Project Team Patrick Joseph Caitlyn Wagner Cliff Riley Octave	CSJs: Noise Meter Model: SoundPro DL 1-1/3	Response Fast ☒ Slow ☐	Weighting A ☒ C ☐	Battery* 100% *replace if below 50%
Calibrator Model QC-10-Sound Calibrator	Calibrator @ 114 dBA Start End			
Weather Data Temperature: Humidity: Wind Speed: Notes:				

Measurement Data

Event	Begin Time	End Time	L_{eq} (dBA)	L_{min} (dBA)	L_{max} (dBA)
1	12:59	1:19	65.2	53.6	79
2					
3					

Traffic Data and Average Speeds

Event	Direction	Autos	Medium Trucks	Heavy Trucks	Motorcycle	Buses
Total Average Hourly Count	Northbound (ML)	1254	60	405	3	9
Total Average Hourly Count	Northbound (Frontage)					
Total Average Hourly Count	Southbound (ML)	1224	57	321	6	3
Total Average Hourly Count	Southbound (Frontage)					

Site Sketch



Notes
(Major sources, background noise, unusual events, etc.)

Noise Measurement Data Sheet

Site: VS-28 I-39/I-90/I-94 Project Wisconsin Dells, WI				Date 8/10/2022
Project Team Patrick Joseph Caitlyn Wagner Cliff Riley Octave	CSJs: Noise Meter Model: SoundPro DL 1-1/3	Response Fast ☒ Slow ☐	Weighting A ☒ C ☐	Battery* 100% *replace if below 50%
Calibrator Model QC-10-Sound Calibrator		Calibrator @ 114 dBA Start End		
Weather Data Temperature: Humidity: Wind Speed: Notes:				

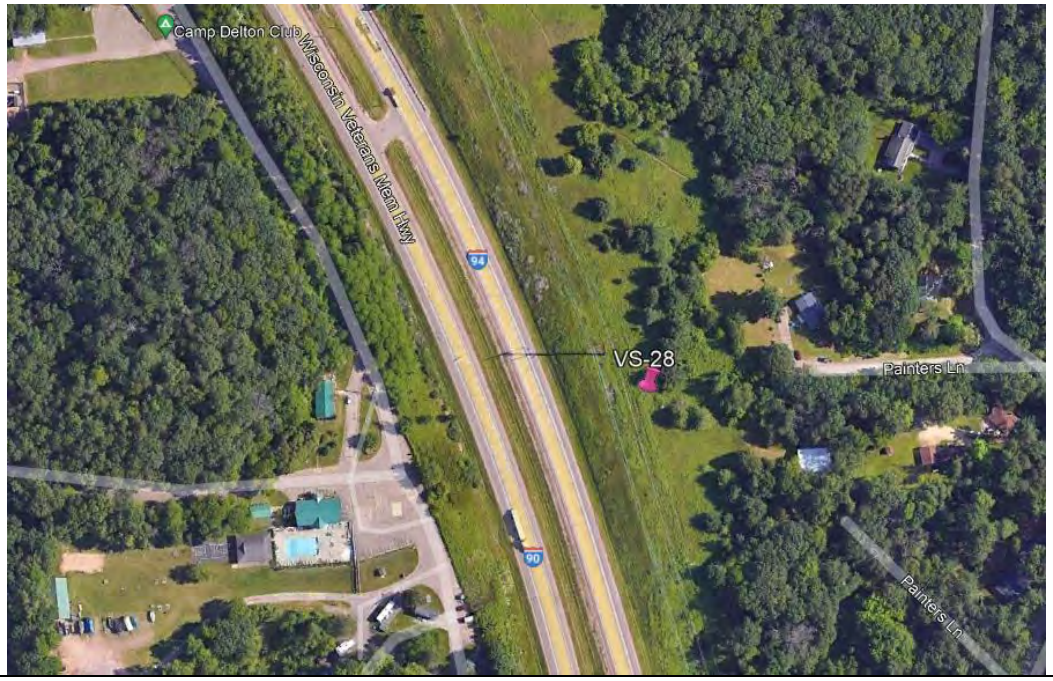
Measurement Data

Event	Begin Time	End Time	L_{eq} (dBA)	L_{min} (dBA)	L_{max} (dBA)
1	10:59	11:19	74.8	63.2	80.3
2					
3					

Traffic Data and Average Speeds

Event	Direction	Autos	Medium Trucks	Heavy Trucks	Motorcycle	Buses
Total Average Hourly Count	Northbound (ML)	1059	48	351	15	6
Total Average Hourly Count	Northbound (Frontage)					
Total Average Hourly Count	Southbound (ML)	1176	69	321	15	0
Total Average Hourly Count	Southbound (Frontage)					

Site Sketch



Notes
(Major sources, background noise, unusual events, etc.)

Noise Measurement Data Sheet

Site: VS-29 I-39/I-90/I-94 Project Wisconsin Dells, WI				Date 8/10/2022
Project Team Patrick Joseph Caitlyn Wagner Cliff Riley Octave	CSJs: Noise Meter Model: SoundPro DL 1-1/3	Response Fast ☒ Slow ☐	Weighting A ☒ C ☐	Battery* 100% *replace if below 50%
Calibrator Model QC-10-Sound Calibrator		Calibrator @ 114 dBA Start End		
Weather Data Temperature: Humidity: Wind Speed: Notes:				

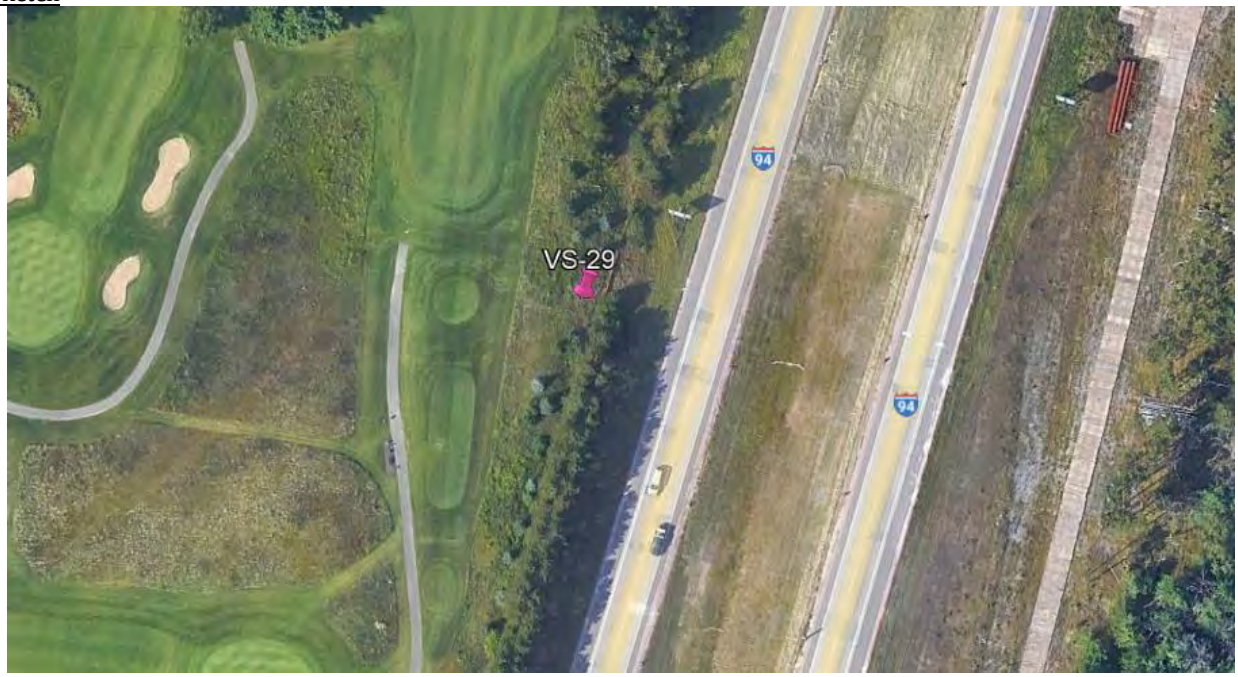
Measurement Data

Event	Begin Time	End Time	L_{eq} (dBA)	L_{min} (dBA)	L_{max} (dBA)
1	10:05	10:25	76.1	56.2	84.7
2					
3					

Traffic Data and Average Speeds

Event	Direction	Autos	Medium Trucks	Heavy Trucks	Motorcycle	Buses
Total Average Hourly Count	Northbound (ML)	1080	33	261	12	6
Total Average Hourly Count	Northbound (Frontage)					
Total Average Hourly Count	Southbound (ML)	1080	63	291	39	15
Total Average Hourly Count	Southbound (Frontage)					

Site Sketch



Notes
(Major sources, background noise, unusual events, etc.)

Noise Measurement Data Sheet

Site: VS-30 I-39/I-90/I-94 Project Baraboo, WI				Date 8/10/2022
Project Team Patrick Joseph Caitlyn Wagner Cliff Riley Octave	CSJs: Noise Meter Model: SoundPro DL 1-1/3	Response Fast ☒ Slow ☐	Weighting A ☒ C ☐	Battery* 100% *replace if below 50%
Calibrator Model QC-10-Sound Calibrator		Calibrator @ 114 dBA Start End		
Weather Data Temperature: Humidity: Wind Speed: Notes:				

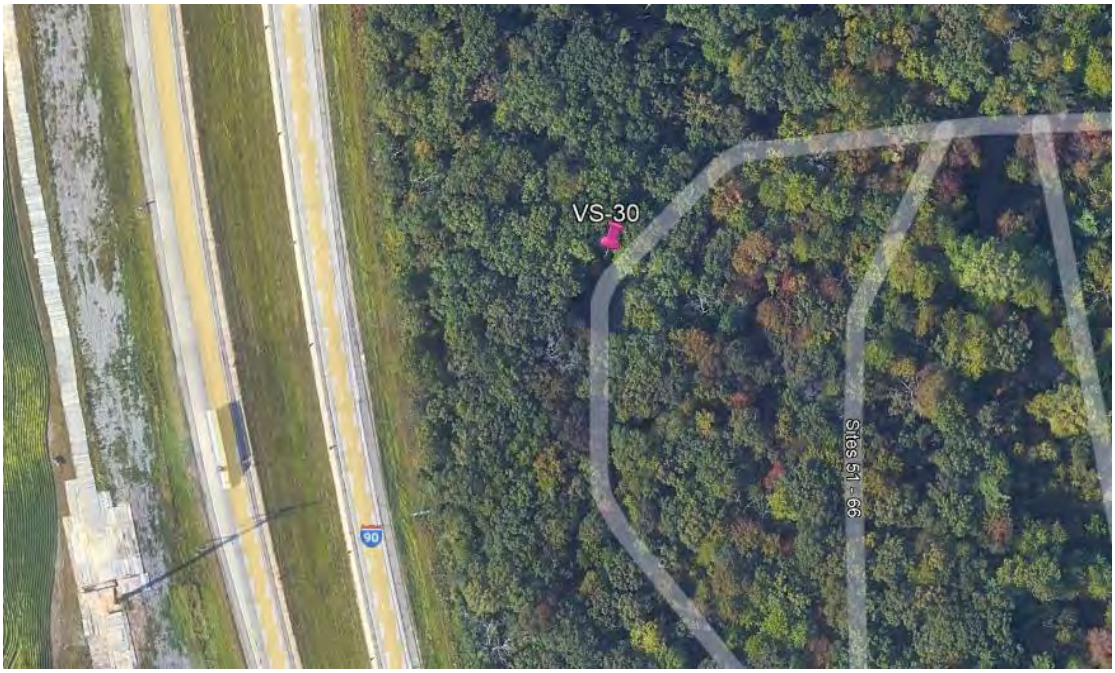
Measurement Data

Event	Begin Time	End Time	L_{eq} (dBA)	L_{min} (dBA)	L_{max} (dBA)
1	8:49	9:10	68.1	58.1	73.2
2					
3					

Traffic Data and Average Speeds

Event	Direction	Autos	Medium Trucks	Heavy Trucks	Motorcycle	Buses
Total Average Hourly Count	Northbound (ML)	639	63	249	9	3
Total Average Hourly Count	Northbound (Frontage)					
Total Average Hourly Count	Southbound (ML)	774	36	312	3	6
Total Average Hourly Count	Southbound (Frontage)					

Site Sketch



Notes
(Major sources, background noise, unusual events, etc.)

Attachment C. Receiver Data Tables

Table C-1: South Section Summary of Receiver Data

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1	146	Hotel (1)	72	63	64	-1	-9	N
S2	449	Residential (2)	67	64	64	0	-3	N
S3	205	Business (1)	72	75	73	2	3	I
S4	458	Residential (1)	67	65	65	0	-2	N
S5	393	Residential (1)	67	68	67	1	1	I
S6	312	Residential (1)	67	69	69	0	2	I
S7	243	Residential (1)	67	71	69	2	4	I
S8	184	Residential (1)	67	71	69	2	4	I
S9	446	Residential (1)	67	65	65	0	-2	N
S10	344	Residential (1)	67	66	65	1	-1	I
S11	146	Residential (1)	67	71	70	1	4	I
S12	139	Residential (1)	67	69	68	1	2	I
S13	425	Residential (2)	67	64	64	0	-3	N
S14	307	Residential (2)	67	65	64	1	-2	N
S15	150	Residential (1)	67	68	67	1	1	I
S16	142	Residential (1)	67	67	66	1	0	I
S17	440	Residential (3)	67	62	62	0	-5	N
S18	309	Residential (2)	67	64	63	1	-3	N
S19	149	Residential (1)	67	66	65	1	-1	I
S20	144	Residential (1)	67	66	65	1	-1	I
S21	147	Residential (1)	67	66	64	2	-1	I
S22	152	Residential (1)	67	66	64	2	-1	I
S23	143	Residential (1)	67	66	65	1	-1	I
S24	324	Residential (2)	67	62	61	1	-5	N
S25	400	Residential (2)	67	60	59	1	-7	N
S26	450	Residential (2)	67	59	57	2	-8	N
S27	144	Residential (1)	67	66	64	2	-1	I
S28	162	Residential (1)	67	65	64	1	-2	N
S29	134	Residential (1)	67	65	64	1	-2	N

Impact occurs when future sound levels exceed existing sound levels by 15 dB or more, or, approach/exceed the NLC (“approach” is defined as 1 dB less than the NLC, therefore an impact occurs when Column H is –1 dB or greater). I = Impact, N = No Impact.

Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S30	210	Residential (1)	67	64	62	2	-3	N
S31	376	Residential (2)	67	59	57	2	-8	N
S32	276	Residential (2)	67	62	60	2	-5	N
S33	443	Residential (2)	67	57	56	1	-10	N
S34	158	Residential (1)	67	65	63	2	-2	N
S35	131	Residential (1)	67	66	64	2	-1	I
S36	257	Residential (1)	67	62	60	2	-5	N
S37	177	Residential (1)	67	64	62	2	-3	N
S38	398	Residential (4)	67	59	57	2	-8	N
S39	331	Residential (2)	67	60	59	1	-7	N
S40	234	Residential (1)	67	63	61	2	-4	N
S41	160	Residential (1)	67	65	63	2	-2	N
S42	132	Residential (1)	67	67	65	2	0	I
S43	157	Residential (1)	67	65	63	2	-2	N
S44	256	Residential (1)	67	62	61	1	-5	N
S45	313	Residential (2)	67	61	59	2	-6	N
S46	431	Residential (2)	67	58	57	1	-9	N
S47	374	Residential (2)	67	59	58	1	-8	N
S48	241	Residential (1)	67	63	62	1	-4	N
S49	142	Residential (1)	67	65	63	2	-2	N
S50	114	Residential (1)	67	66	65	1	-1	I
S51	440	Residential (2)	67	57	56	1	-10	N
S52	181	Residential (1)	67	65	63	2	-2	N
S53	260	Residential (1)	67	62	61	1	-5	N
S54	367	Residential (2)	67	59	58	1	-8	N
S55	296	Residential (2)	67	61	59	2	-6	N
S56	206	Residential (1)	67	65	63	2	-2	N
S57	139	Residential (1)	67	66	65	1	-1	I
S58	123	Residential (1)	67	67	65	2	0	I

Impact occurs when future sound levels exceed existing sound levels by 15 dB or more, or, approach/exceed the NLC ("approach" is defined as 1 dB less than the NLC, therefore an impact occurs when Column H is –1 dB or greater). I = Impact, N = No Impact.

Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S59	415	Residential (2)	67	61	59	2	-6	N
S60	306	Residential (2)	67	63	61	2	-4	N
S61	109	Residential (1)	67	67	65	2	0	I
S62	479	Residential (3)	67	60	59	1	-7	N
S63	246	Residential (1)	67	64	62	2	-3	N
S64	123	Residential (1)	67	68	66	2	1	I
S65	290	Grace Baptist Church (1)	67	64	62	2	-3	N
S66	481	Residential (2)	67	57	56	1	-10	N
S67	389	Residential (1)	67	59	58	1	-8	N
S68	319	Residential (1)	67	62	60	2	-5	N
S69	234	Residential (1)	67	66	63	3	-1	I
S70	120	Residential (1)	67	65	64	1	-2	N
S71	119	Residential (1)	67	63	62	1	-4	N
S72	272	Residential (1)	67	60	59	1	-7	N
S73	398	Residential (2)	67	57	56	1	-10	N
S74	474	Residential (2)	67	56	54	2	-11	N
S75	172	Residential (1)	67	63	62	1	-4	N
S76	336	Residential (2)	67	58	57	1	-9	N
S77	203	Residential (1)	67	62	61	1	-5	N
S78	157	Residential (1)	67	63	61	2	-4	N
S79	127	Residential (1)	67	63	62	1	-4	N
S80	277	Residential (1)	67	59	58	1	-8	N
S81	427	Residential (2)	67	56	55	1	-11	N
S82	350	Residential (2)	67	58	57	1	-9	N
S83	173	Residential (1)	67	62	61	1	-5	N
S84	217	Residential (1)	67	61	60	1	-6	N
S85	140	Residential (1)	67	63	62	1	-4	N
S86	506	Residential (2)	67	56	55	1	-11	N
S87	132	Residential (1)	67	63	62	1	-4	N

Impact occurs when future sound levels exceed existing sound levels by 15 dB or more, or, approach/exceed the NLC ("approach" is defined as 1 dB less than the NLC, therefore an impact occurs when Column H is –1 dB or greater). I = Impact, N = No Impact.

Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S88	323	Residential (2)	67	59	58	1	-8	N
S89	473	Residential (2)	67	57	56	1	-10	N
S90	124	Residential (1)	67	62	61	1	-5	N
S91	218	Residential (1)	67	61	60	1	-6	N
S92	180	Residential (2)	67	62	62	0	-5	N
S93	174	Residential (2)	67	62	61	1	-5	N
S94	499	Residential (1)	67	56	55	1	-11	N
S95	362	Residential (2)	67	59	58	1	-8	N
S96	175	Residential (2)	67	63	62	1	-4	N
S97	506	Residential (2)	67	55	54	1	-12	N
S98	353	Residential (2)	67	59	58	1	-8	N
S99	182	Residential (2)	67	64	63	1	-3	N
S100	197	Residential (2)	67	63	62	1	-4	N
S101	351	Residential (2)	67	59	58	1	-8	N
S102	189	Residential (2)	67	63	62	1	-4	N
S103	481	Residential (2)	67	55	54	1	-12	N
S104	199	Residential (2)	67	63	62	1	-4	N
S105	366	Residential (1)	67	59	58	1	-8	N
S106	191	Residential (2)	67	63	62	1	-4	N
S107	352	Residential (2)	67	60	59	1	-7	N
S108	503	Residential (2)	67	55	54	1	-12	N
S109	195	Residential (2)	67	63	62	1	-4	N
S110	353	Residential (2)	67	59	58	1	-8	N
S111	193	Residential (2)	67	63	62	1	-4	N
S112	505	Residential (2)	67	56	55	1	-11	N
S113	182	Residential (2)	67	63	62	1	-4	N
S114	353	Residential (2)	67	61	60	1	-6	N
S115	184	Residential (2)	67	63	62	1	-4	N
S116	182	Residential (2)	67	62	62	0	-5	N

Impact occurs when future sound levels exceed existing sound levels by 15 dB or more, or, approach/exceed the NLC ("approach" is defined as 1 dB less than the NLC, therefore an impact occurs when Column H is –1 dB or greater). I = Impact, N = No Impact.

Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S117	368	Residential (1)	67	59	58	1	-8	N
S118	502	Residential (2)	67	55	54	1	-12	N
S119	190	Residential (2)	67	63	62	1	-4	N
S120	353	Residential (4)	67	59	58	1	-8	N
S121	177	Residential (2)	67	62	62	0	-5	N
S122	188	Residential (2)	67	62	61	1	-5	N
S123	478	Residential (2)	67	55	55	0	-12	N
S124	346	Residential (4)	67	59	59	0	-8	N
S125	179	Residential (2)	67	62	62	0	-5	N
S126	354	Residential (2)	67	60	59	1	-7	N
S127	143	Residential (2)	67	61	61	0	-6	N
S128	361	Residential (1)	67	60	59	1	-7	N
S129	96	Residential (2)	67	64	63	1	-3	N
S130	186	Residential (2)	67	62	61	1	-5	N
S131	347	Residential (4)	67	59	59	0	-8	N
S132	178	Residential (2)	67	62	61	1	-5	N
S133	178	Residential (2)	67	62	61	1	-5	N
S134	393	Residential (2)	67	59	58	1	-8	N
S135	185	Residential (2)	67	62	61	1	-5	N
S136	463	Residential (2)	67	59	58	1	-8	N
S137	266	Residential (2)	67	60	59	1	-7	N
S138	183	Residential (2)	67	64	63	1	-3	N
S139	150	Residential (2)	67	64	63	1	-3	N
S140	384	Residential (4)	67	60	58	2	-7	N
S141	288	Residential (2)	67	61	60	1	-6	N
S142	165	Residential (2)	67	64	63	1	-3	N
S143	319	Residential (2)	67	60	59	1	-7	N
S144	493	Residential (2)	67	57	56	1	-10	N
S145	427	Residential (2)	67	59	58	1	-8	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S146	243	Residential (2)	67	62	61	1	-5	N
S147	182	Residential (2)	67	62	61	1	-5	N
S148	564	Residential (4)	67	55	54	1	-12	N
S149	365	Residential (2)	67	59	58	1	-8	N
S150	369	Residential (2)	67	60	59	1	-7	N
S151	149	Residential (2)	67	62	62	0	-5	N
S152	563	Residential (6)	67	56	55	1	-11	N
S153	486	Residential (2)	67	57	55	2	-10	N
S154	333	Residential (2)	67	59	58	1	-8	N
S155	401	Residential (2)	67	58	57	1	-9	N
S156	173	Residential (2)	67	62	61	1	-5	N
S157	546	Residential (6)	67	57	56	1	-10	N
S158	154	Residential (2)	67	62	62	0	-5	N
S159	500	Residential (2)	67	58	57	1	-9	N
S160	390	Residential (2)	67	59	58	1	-8	N
S161	161	Residential (2)	67	61	60	1	-6	N
S162.1	433	Residential (1)	67	65	64	1	-2	N
S162.2	433	Residential (1)	67	68	67	1	1	I
S162.3	433	Residential (1)	67	70	68	2	3	I
S163.1	478	Residential (1)	67	63	61	2	-4	N
S163.2	478	Residential (1)	67	67	66	1	0	I
S163.3	478	Residential (1)	67	68	67	1	1	I
S164.1	380	Residential (1)	67	70	69	1	3	I
S164.2	380	Residential (1)	67	72	71	1	5	I
S164.3	380	Residential (1)	67	74	72	2	7	I
S165.1	515	Residential (1)	67	62	60	2	-5	N
S165.2	515	Residential (1)	67	66	64	2	-1	I
S165.3	515	Residential (1)	67	68	66	2	1	I
S166.1	550	Residential (1)	67	61	59	2	-6	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S166.2	550	Residential (1)	67	65	63	2	-2	N
S166.3	550	Residential (1)	67	67	66	1	0	I
S167.1	375	Residential (1)	67	71	69	2	4	I
S167.2	375	Residential (1)	67	73	71	2	6	I
S167.3	375	Residential (1)	67	74	72	2	7	I
S168.1	371	Residential (1)	67	71	69	2	4	I
S168.2	371	Residential (1)	67	73	71	2	6	I
S168.3	371	Residential (1)	67	74	72	2	7	I
S169.1	483	Residential (2)	67	54	53	1	-13	N
S169.2	483	Residential (2)	67	57	56	1	-10	N
S169.3	483	Residential (2)	67	61	60	1	-6	N
S170.1	445	Residential (1)	67	50	48	2	-17	N
S170.2	445	Residential (1)	67	52	50	2	-15	N
S170.3	445	Residential (1)	67	57	55	2	-10	N
S171.1	546	Residential (1)	67	60	59	1	-7	N
S171.2	546	Residential (1)	67	62	61	1	-5	N
S171.3	546	Residential (1)	67	64	62	2	-3	N
S172.1	503	Residential (1)	67	66	65	1	-1	I
S172.2	503	Residential (1)	67	68	66	2	1	I
S172.3	503	Residential (1)	67	69	67	2	2	I
S173.1	498	Residential (1)	67	66	65	1	-1	I
S173.2	498	Residential (1)	67	68	67	1	1	I
S173.3	498	Residential (1)	67	70	68	2	3	I
S174.1	494	Residential (1)	67	66	65	1	-1	I
S174.2	494	Residential (1)	67	68	67	1	1	I
S174.3	494	Residential (1)	67	70	68	2	3	I
S175.1	495	Residential (1)	67	66	64	2	-1	I
S175.2	495	Residential (1)	67	68	67	1	1	I
S175.3	495	Residential (1)	67	69	68	1	2	I

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S176.1	540	Residential (2)	67	65	63	2	-2	N
S176.2	540	Residential (2)	67	67	66	1	0	I
S176.3	540	Residential (2)	67	68	67	1	1	I
S177.1	601	Residential (2)	67	63	62	1	-4	N
S177.2	601	Residential (2)	67	65	64	1	-2	N
S177.3	601	Residential (2)	67	67	65	2	0	I
S178.1	319	Residential (1)	67	69	67	2	2	I
S178.2	319	Residential (1)	67	71	70	1	4	I
S178.3	319	Residential (1)	67	73	72	1	6	I
S179.1	416	Residential (1)	67	66	64	2	-1	I
S179.2	416	Residential (1)	67	68	66	2	1	I
S179.3	416	Residential (1)	67	69	67	2	2	I
S180.3	301	Residential (1)	67	74	72	2	7	I
S181.3	436	Residential (1)	67	68	66	2	1	I
S182.1	455	Residential (1)	67	64	62	2	-3	N
S182.2	455	Residential (1)	67	65	63	2	-2	N
S182.3	455	Residential (1)	67	67	65	2	0	I
S183.3	281	Residential (1)	67	74	73	1	7	I
S184.3	477	Residential (1)	67	66	64	2	-1	I
S185.1	302	Residential (1)	67	63	61	2	-4	N
S185.2	302	Residential (1)	67	68	67	1	1	I
S185.3	302	Residential (1)	67	72	71	1	5	I
S186.3	373	Residential (2)	67	62	60	2	-5	N
S187.3	316	Residential (1)	67	71	70	1	4	I
S188.1	411	Residential (1)	67	56	55	1	-11	N
S188.2	411	Residential (1)	67	60	58	2	-7	N
S188.3	411	Residential (1)	67	63	62	1	-4	N
S189.3	429	Residential (1)	67	63	63	0	-4	N
S190.3	342	Residential (2)	67	71	70	1	4	I

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S191.3	410	Residential (1)	67	64	63	1	-3	N
S192.1	427	Residential (1)	67	56	54	2	-11	N
S192.2	427	Residential (1)	67	60	59	1	-7	N
S192.3	427	Residential (1)	67	62	60	2	-5	N
S193.3	462	Residential (2)	67	61	60	1	-6	N
S194.3	361	Residential (1)	67	69	67	2	2	I
S195.1	384	Residential (1)	67	59	57	2	-8	N
S195.2	384	Residential (1)	67	64	62	2	-3	N
S195.3	384	Residential (1)	67	68	66	2	1	I
S196.3	402	Residential (1)	67	67	65	2	0	I
S197.1	425	Residential (1)	67	58	57	1	-9	N
S197.2	425	Residential (1)	67	63	61	2	-4	N
S197.3	425	Residential (1)	67	66	64	2	-1	I
S198.1	519	Residential (1)	67	54	52	2	-13	N
S198.2	519	Residential (1)	67	57	54	3	-10	N
S198.3	519	Residential (1)	67	59	57	2	-8	N
S199	373	Residential (1)	67	65	62	3	-2	N
S200	235	Residential (1)	67	71	67	4	4	I
S201	286	City of Madison Police Department (1)	67	65	65	0	-2	N
S202	386	Heritage Prairie Park (1)	67	62	62	0	-5	N
S203	418	Residential (2)	67	59	58	1	-8	N
S204	250	Residential (1)	67	61	60	1	-6	N
S205	269	Residential (1)	67	61	60	1	-6	N
S206	401	Residential (2)	67	60	58	2	-7	N
S207	223	Residential (1)	67	62	61	1	-5	N
S208	254	Residential (1)	67	62	61	1	-5	N
S209	389	Residential (2)	67	60	58	2	-7	N
S210	250	Residential (1)	67	62	61	1	-5	N
S211	247	Residential (1)	67	62	61	1	-5	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S212	380	Residential (2)	67	59	58	1	-8	N
S213	146	Residential (1)	67	63	62	1	-4	N
S214	210	Residential (1)	67	62	61	1	-5	N
S215	373	Residential (2)	67	60	59	1	-7	N
S216	235	Residential (1)	67	62	61	1	-5	N
S217	239	Residential (1)	67	62	61	1	-5	N
S218	370	Residential (2)	67	60	58	2	-7	N
S219	222	Residential (1)	67	62	61	1	-5	N
S220	209	Residential (1)	67	63	62	1	-4	N
S221	225	Residential (1)	67	63	62	1	-4	N
S222	381	Residential (2)	67	60	59	1	-7	N
S223	237	Residential (1)	67	62	61	1	-5	N
S224	221	Residential (1)	67	63	62	1	-4	N
S225	234	Residential (1)	67	62	61	1	-5	N
S226	423	Residential (2)	67	59	58	1	-8	N
S227	255	Residential (1)	67	61	60	1	-6	N
S228	263	Residential (1)	67	61	60	1	-6	N
S229	312	Residential (1)	67	60	59	1	-7	N
S230	403	Residential (1)	67	59	58	1	-8	N
S231	388	Residential (1)	67	58	57	1	-9	N
S232	319	Residential (1)	67	58	58	0	-9	N
S233	446	Residential (1)	67	58	57	1	-9	N
S234	332	Residential (1)	67	60	59	1	-7	N
S235	319	Residential (1)	67	60	60	0	-7	N
S236	479	Residential (2)	67	58	57	1	-9	N
S237	296	Residential (1)	67	61	60	1	-6	N
S238	326	Residential (1)	67	61	60	1	-6	N
S239	476	Residential (2)	67	58	57	1	-9	N
S240	308	Residential (1)	67	61	60	1	-6	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S241	478	Residential (2)	67	58	57	1	-9	N
S242	315	Residential (1)	67	61	60	1	-6	N
S243	311	Residential (1)	67	61	60	1	-6	N
S244	471	Residential (2)	67	58	57	1	-9	N
S245	305	Residential (1)	67	61	60	1	-6	N
S246	296	Residential (1)	67	61	61	0	-6	N
S247	464	Residential (1)	67	58	57	1	-9	N
S248	311	Residential (1)	67	61	60	1	-6	N
S249	303	Residential (1)	67	61	60	1	-6	N
S250	486	Residential (1)	67	58	57	1	-9	N
S251	292	Residential (1)	67	61	60	1	-6	N
S252	282	Residential (1)	67	61	61	0	-6	N
S253	530	Residential (2)	67	58	56	2	-9	N
S254	114	Residential (1)	67	63	63	0	-4	N
S255	392	Residential (1)	67	60	59	1	-7	N
S256	408	Residential (1)	67	60	58	2	-7	N
S257	138	Residential (1)	67	63	62	1	-4	N
S258	139	Residential (1)	67	63	62	1	-4	N
S259	449	Residential (2)	67	59	57	2	-8	N
S260	138	Residential (1)	67	63	62	1	-4	N
S261	136	Residential (1)	67	63	63	0	-4	N
S262	335	Residential (2)	67	59	58	1	-8	N
S263	132	Residential (1)	67	63	63	0	-4	N
S264	286	Residential (1)	67	60	59	1	-7	N
S265	145	Residential (1)	67	63	63	0	-4	N
S266	408	Residential (2)	67	58	57	1	-9	N
S267	128	Residential (1)	67	63	62	1	-4	N
S268	509	Residential (2)	67	57	56	1	-10	N
S269	310	Residential (1)	67	59	58	1	-8	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S270	368	Residential (1)	67	58	57	1	-9	N
S271	132	Residential (1)	67	62	62	0	-5	N
S272	550	Residential (1)	67	58	56	2	-9	N
S273	408	Residential (2)	67	59	58	1	-8	N
S274	142	Residential (1)	67	62	61	1	-5	N
S275	316	Joshua Circle Basketball Court (1)	67	59	59	0	-8	N
S276	578	Residential (4)	67	58	56	2	-9	N
S277	449	Residential (1)	67	59	58	1	-8	N
S278	126	Residential (1)	67	61	61	0	-6	N
S279	271	Residential (1)	67	60	59	1	-7	N
S280	353	Residential (1)	67	59	58	1	-8	N
S281	434	Residential (1)	67	59	57	2	-8	N
S282	200	Residential (1)	67	62	61	1	-5	N
S283	577	Residential (2)	67	61	59	2	-6	N
S284.2	223	Residential (1)	67	69	64	5	2	I
S284.3	223	Residential (1)	67	74	69	5	7	I
S284.4	223	Residential (1)	67	76	72	4	9	I
S285.2	264	Residential (1)	67	66	62	4	-1	I
S285.3	264	Residential (1)	67	70	66	4	3	I
S285.4	264	Residential (1)	67	73	69	4	6	I
S286.2	296	Residential (1)	67	66	63	3	-1	I
S286.3	296	Residential (1)	67	70	67	3	3	I
S286.4	296	Residential (1)	67	72	69	3	5	I
S287.2	344	Residential (1)	67	65	62	3	-2	N
S287.3	344	Residential (1)	67	69	66	3	2	I
S287.4	344	Residential (1)	67	71	68	3	4	I
S288.2	381	Residential (1)	67	64	62	2	-3	N
S288.3	381	Residential (1)	67	68	65	3	1	I
S288.4	381	Residential (1)	67	70	67	3	3	I

Impact occurs when future sound levels exceed existing sound levels by 15 dB or more, or, approach/exceed the NLC ("approach" is defined as 1 dB less than the NLC, therefore an impact occurs when Column H is –1 dB or greater). I = Impact, N = No Impact.

Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S289.2	423	Residential (1)	67	63	60	3	-4	N
S289.3	423	Residential (1)	67	66	64	2	-1	I
S289.4	423	Residential (1)	67	69	66	3	2	I
S290.2	213	Residential (1)	67	70	63	7	3	I
S290.3	213	Residential (1)	67	75	69	6	8	I
S290.4	213	Residential (1)	67	76	73	3	9	I
S291.2	469	Residential (1)	67	52	50	2	-15	N
S291.3	469	Residential (1)	67	56	54	2	-11	N
S291.4	469	Residential (1)	67	68	65	3	1	I
S292.2	218	Residential (1)	67	71	62	9	4	I
S292.3	218	Residential (1)	67	75	69	6	8	I
S292.4	218	Residential (1)	67	76	73	3	9	I
S293.1	350	Residential (2)	67	57	53	4	-10	N
S293.2	350	Residential (2)	67	61	55	6	-6	N
S293.3	350	Residential (2)	67	64	59	5	-3	N
S294.1	433	Residential (2)	67	57	52	5	-10	N
S294.2	433	Residential (2)	67	61	54	7	-6	N
S294.3	433	Residential (2)	67	63	56	7	-4	N
S295.1	297	Residential (2)	67	51	49	2	-16	N
S295.2	297	Residential (2)	67	54	52	2	-13	N
S295.3	297	Residential (2)	67	57	55	2	-10	N
S296.2	230	Residential (1)	67	71	61	10	4	I
S296.3	230	Residential (1)	67	74	68	6	7	I
S296.4	230	Residential (1)	67	75	71	4	8	I
S297.1	216	Residential (1)	67	67	58	9	0	I
S297.2	216	Residential (1)	67	72	63	9	5	I
S297.3	216	Residential (1)	67	75	70	5	8	I
S298.1	453	Residential (1)	67	59	53	6	-8	N
S298.2	453	Residential (1)	67	63	55	8	-4	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S298.3	453	Residential (1)	67	65	58	7	-2	N
S299.1	427	Residential (1)	67	61	54	7	-6	N
S299.2	427	Residential (1)	67	65	56	9	-2	N
S299.3	427	Residential (1)	67	66	60	6	-1	I
S300.1	390	Residential (1)	67	63	55	8	-4	N
S300.2	390	Residential (1)	67	66	58	8	-1	I
S300.3	390	Residential (1)	67	68	62	6	1	I
S301.1	508	Residential (1)	67	56	52	4	-11	N
S301.2	508	Residential (1)	67	61	54	7	-6	N
S301.3	508	Residential (1)	67	63	56	7	-4	N
S302.4	363	Residential (1)	67	71	66	5	4	I
S303.2	354	Residential (1)	67	67	59	8	0	I
S303.3	354	Residential (1)	67	68	63	5	1	I
S304.2	190	Residential (1)	67	74	62	12	7	I
S304.3	190	Residential (1)	67	77	68	9	10	I
S304.4	190	Residential (1)	67	77	74	3	10	I
S305.1	273	Residential (2)	67	54	52	2	-13	N
S305.2	273	Residential (2)	67	58	56	2	-9	N
S305.3	273	Residential (2)	67	62	60	2	-5	N
S306.2	195	Residential (1)	67	73	62	11	6	I
S306.3	195	Residential (1)	67	77	68	9	10	I
S306.4	195	Residential (1)	67	77	73	4	10	I
S307.2	360	Residential (2)	67	65	58	7	-2	N
S307.3	360	Residential (2)	67	66	61	5	-1	I
S307.4	360	Residential (2)	67	69	65	4	2	I
S308.1	468	Residential (1)	67	48	46	2	-19	N
S308.2	468	Residential (1)	67	50	49	1	-17	N
S308.3	468	Residential (1)	67	52	51	1	-15	N
S309.2	443	Residential (2)	67	49	47	2	-18	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S309.3	443	Residential (2)	67	52	49	3	-15	N
S310.1	524	Residential (1)	67	50	48	2	-17	N
S310.2	524	Residential (1)	67	51	48	3	-16	N
S310.3	524	Residential (1)	67	53	50	3	-14	N
S311.2	203	Residential (1)	67	73	62	11	6	I
S311.3	203	Residential (1)	67	76	67	9	9	I
S311.4	203	Residential (1)	67	77	73	4	10	I
S312.1	280	Residential (2)	67	52	49	3	-15	N
S312.2	280	Residential (2)	67	56	52	4	-11	N
S312.3	280	Residential (2)	67	60	57	3	-7	N
S313.1	436	Residential (1)	67	46	44	2	-21	N
S313.2	436	Residential (1)	67	48	46	2	-19	N
S313.3	436	Residential (1)	67	51	49	2	-16	N
S314.2	207	Residential (1)	67	73	61	12	6	I
S314.3	207	Residential (1)	67	76	67	9	9	I
S314.4	207	Residential (1)	67	77	73	4	10	I
S315.2	374	Residential (1)	67	63	57	6	-4	N
S315.3	374	Residential (1)	67	65	60	5	-2	N
S315.4	374	Residential (1)	67	67	64	3	0	I
S316.1	257	Residential (1)	67	64	55	9	-3	N
S316.2	257	Residential (1)	67	69	59	10	2	I
S316.3	257	Residential (1)	67	71	65	6	4	I
S317.1	545	Residential (1)	67	54	49	5	-13	N
S317.2	545	Residential (1)	67	58	50	8	-9	N
S317.3	545	Residential (1)	67	60	53	7	-7	N
S318	468	Residential Courtyard (1)	67	57	51	6	-10	N
S319.1	513	Residential (1)	67	55	50	5	-12	N
S319.2	513	Residential (1)	67	59	51	8	-8	N
S319.3	513	Residential (1)	67	61	54	7	-6	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S320.1	495	Residential (1)	67	56	51	5	-11	N
S320.2	495	Residential (1)	67	60	52	8	-7	N
S320.3	495	Residential (1)	67	62	55	7	-5	N
S321.2	230	Residential (1)	67	73	64	9	6	I
S321.3	230	Residential (1)	67	75	70	5	8	I
S322.2	410	Residential (1)	67	62	55	7	-5	N
S322.3	410	Residential (1)	67	64	58	6	-3	N
S322.4	410	Residential (1)	67	66	61	5	-1	I
S323.1	448	Residential (1)	67	59	53	6	-8	N
S323.2	448	Residential (1)	67	64	56	8	-3	N
S323.3	448	Residential (1)	67	65	59	6	-2	N
S324.1	478	Residential (1)	67	57	52	5	-10	N
S324.2	478	Residential (1)	67	62	53	9	-5	N
S324.3	478	Residential (1)	67	63	56	7	-4	N
S325.3	498	Residential (2)	67	61	54	7	-6	N
S326.2	191	Residential (1)	67	74	63	11	7	I
S326.3	191	Residential (1)	67	77	69	8	10	I
S326.4	191	Residential (1)	67	77	74	3	10	I
S327.2	396	Residential (1)	67	61	55	6	-6	N
S327.3	396	Residential (1)	67	64	58	6	-3	N
S327.4	396	Residential (1)	67	67	62	5	0	I
S328.1	312	Residential (2)	67	55	51	4	-12	N
S328.2	312	Residential (2)	67	58	52	6	-9	N
S328.3	312	Residential (2)	67	61	56	5	-6	N
S329.2	417	Residential (1)	67	60	55	5	-7	N
S329.3	417	Residential (1)	67	63	57	6	-4	N
S329.4	417	Residential (1)	67	65	61	4	-2	N
S330.2	205	Residential (2)	67	74	63	11	7	I
S330.3	205	Residential (2)	67	77	69	8	10	I

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S330.4	205	Residential (2)	67	77	73	4	10	I
S331.2	448	Residential (1)	67	55	52	3	-12	N
S331.3	448	Residential (1)	67	57	54	3	-10	N
S331.4	448	Residential (1)	67	60	59	1	-7	N
S332.2	493	Residential (1)	67	55	52	3	-12	N
S332.3	493	Residential (1)	67	56	54	2	-11	N
S332.4	493	Residential (1)	67	59	58	1	-8	N
S333.2	547	Residential (2)	67	55	52	3	-12	N
S333.3	547	Residential (2)	67	56	54	2	-11	N
S333.4	547	Residential (2)	67	58	57	1	-9	N
S334.2	211	Residential (1)	67	73	63	10	6	I
S334.3	211	Residential (1)	67	76	68	8	9	I
S334.4	211	Residential (1)	67	77	73	4	10	I
S335.1	302	Residential (4)	67	51	46	5	-16	N
S335.2	302	Residential (4)	67	54	50	4	-13	N
S335.3	302	Residential (4)	67	59	55	4	-8	N
S336.2	226	Residential (2)	67	73	62	11	6	I
S336.3	226	Residential (2)	67	76	68	8	9	I
S336.4	226	Residential (2)	67	77	73	4	10	I
S337.1	344	Residential (2)	67	54	51	3	-13	N
S337.2	344	Residential (2)	67	56	52	4	-11	N
S337.3	344	Residential (2)	67	59	56	3	-8	N
S338.2	230	Residential (1)	67	72	61	11	5	I
S338.3	230	Residential (1)	67	75	67	8	8	I
S338.4	230	Residential (1)	67	77	73	4	10	I
S339.1	305	Residential (1)	67	62	55	7	-5	N
S339.2	305	Residential (1)	67	66	60	6	-1	I
S339.3	305	Residential (1)	67	69	65	4	2	I
S340	170	Oak Park Nursing and Rehab Center (1)	67	65	58	7	-2	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S341	244	Oak Park Nursing and Rehab Center (1)	67	63	57	6	-4	N
S342	341	Oak Park Nursing and Rehab Center (1)	67	52	49	3	-15	N
S343.2	287	Oak Park Nursing and Rehab Center (1)	67	69	65	4	2	I
S344	362	Oak Park Nursing and Rehab Center (1)	67	63	57	6	-4	N
S345.2	271	Residential (1)	67	69	64	5	2	I
S345.3	271	Residential (1)	67	73	70	3	6	I
S345.4	271	Residential (1)	67	75	72	3	8	I
S345.5	271	Residential (1)	67	76	73	3	9	I
S346.2	261	Residential (1)	67	69	65	4	2	I
S346.3	261	Residential (1)	67	73	70	3	6	I
S346.4	261	Residential (1)	67	76	72	4	9	I
S346.5	261	Residential (1)	67	76	74	2	9	I
S347.3	351	Residential (1)	67	65	60	5	-2	N
S347.4	351	Residential (1)	67	67	64	3	0	I
S348.1	267	Residential (1)	67	68	63	5	1	I
S348.2	267	Residential (1)	67	72	69	3	5	I
S348.3	267	Residential (1)	67	74	72	2	7	I
S348.4	267	Residential (1)	67	76	73	3	9	I
S349.1	363	Residential (2)	67	50	47	3	-17	N
S349.2	363	Residential (2)	67	52	50	2	-15	N
S349.3	363	Residential (2)	67	54	52	2	-13	N
S349.4	363	Residential (2)	67	59	56	3	-8	N
S350.1	267	Residential (2)	67	69	66	3	2	I
S350.2	267	Residential (2)	67	73	71	2	6	I
S350.3	267	Residential (2)	67	75	72	3	8	I
S350.4	267	Residential (2)	67	76	73	3	9	I
S351.2	350	Residential (1)	67	52	50	2	-15	N
S351.3	350	Residential (1)	67	54	52	2	-13	N
S352.1	381	Residential (2)	67	50	48	2	-17	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S352.2	381	Residential (2)	67	52	50	2	-15	N
S352.3	381	Residential (2)	67	54	52	2	-13	N
S352.4	381	Residential (2)	67	58	56	2	-9	N
S353.1	290	Residential (1)	67	67	64	3	0	I
S353.2	290	Residential (1)	67	70	69	1	3	I
S353.3	290	Residential (1)	67	73	71	2	6	I
S353.4	290	Residential (1)	67	75	72	3	8	I
S354.1	441	Residential (1)	67	51	49	2	-16	N
S354.2	441	Residential (1)	67	51	49	2	-16	N
S354.3	441	Residential (1)	67	54	52	2	-13	N
S354.4	441	Residential (1)	67	58	56	2	-9	N
S355.1	336	Residential (2)	67	63	61	2	-4	N
S355.2	336	Residential (2)	67	67	65	2	0	I
S355.3	336	Residential (2)	67	70	69	1	3	I
S355.4	336	Residential (2)	67	71	70	1	4	I
S356.1	402	Residential (2)	67	63	61	2	-4	N
S356.2	402	Residential (2)	67	66	64	2	-1	I
S356.3	402	Residential (2)	67	69	66	3	2	I
S356.4	402	Residential (2)	67	70	68	2	3	I
S357.1	450	Residential (1)	67	63	60	3	-4	N
S357.2	450	Residential (1)	67	65	61	4	-2	N
S357.3	450	Residential (1)	67	67	64	3	0	I
S357.4	450	Residential (1)	67	68	66	2	1	I
S358.2	497	Residential (2)	67	62	60	2	-5	N
S358.3	497	Residential (2)	67	64	62	2	-3	N
S358.4	497	Residential (2)	67	66	63	3	-1	I
S358.5	497	Residential (2)	67	69	66	3	2	I
S359	217	Residential Pool (1)	67	63	55	8	-4	N
S360.2	232	Residential (2)	67	64	56	8	-3	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S360.3	232	Residential (2)	67	69	62	7	2	I
S360.4	232	Residential (2)	67	72	68	4	5	I
S361.2	179	Residential (1)	67	65	55	10	-2	N
S361.3	179	Residential (1)	67	71	61	10	4	I
S361.4	179	Residential (1)	67	75	70	5	8	I
S362.1	336	Residential (1)	67	61	55	6	-6	N
S362.2	336	Residential (1)	67	64	59	5	-3	N
S362.3	336	Residential (1)	67	67	63	4	0	I
S363.1	392	Residential (1)	67	59	54	5	-8	N
S363.2	392	Residential (1)	67	62	57	5	-5	N
S364.1	135	Residential (1)	67	66	56	10	-1	I
S364.2	135	Residential (1)	67	74	61	13	7	I
S364.3	135	Residential (1)	67	79	72	7	12	I
S365.1	141	Residential (1)	67	66	56	10	-1	I
S365.2	141	Residential (1)	67	74	61	13	7	I
S365.3	141	Residential (1)	67	78	72	6	11	I
S366.1	395	Residential (1)	67	52	49	3	-15	N
S366.2	395	Residential (1)	67	54	51	3	-13	N
S366.3	395	Residential (1)	67	56	53	3	-11	N
S367.1	341	Residential (1)	67	48	46	2	-19	N
S367.2	341	Residential (1)	67	49	47	2	-18	N
S367.3	341	Residential (1)	67	50	49	1	-17	N
S368.3	258	Residential (1)	67	72	69	3	5	I
S368.4	258	Residential (1)	67	75	72	3	8	I
S369.1	197	Residential (2)	67	63	55	8	-4	N
S369.2	197	Residential (2)	67	68	60	8	1	I
S369.3	197	Residential (2)	67	73	66	7	6	I
S370.1	263	Residential (2)	67	63	54	9	-4	N
S370.2	263	Residential (2)	67	66	59	7	-1	I

Impact occurs when future sound levels exceed existing sound levels by 15 dB or more, or, approach/exceed the NLC ("approach" is defined as 1 dB less than the NLC, therefore an impact occurs when Column H is –1 dB or greater). I = Impact, N = No Impact.

Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S370.3	263	Residential (2)	67	70	66	4	3	I
S370.4	263	Residential (2)	67	73	70	3	6	I
S371.1	349	Residential (4)	67	48	46	2	-19	N
S371.2	349	Residential (4)	67	50	48	2	-17	N
S371.3	349	Residential (4)	67	52	50	2	-15	N
S371.4	349	Residential (4)	67	56	54	2	-11	N
S372.1	270	Residential (2)	67	64	54	10	-3	N
S372.2	270	Residential (2)	67	67	59	8	0	I
S372.3	270	Residential (2)	67	71	66	5	4	I
S372.4	270	Residential (2)	67	73	70	3	6	I
S373.1	272	Residential (2)	67	63	54	9	-4	N
S373.2	272	Residential (2)	67	66	58	8	-1	I
S373.3	272	Residential (2)	67	69	64	5	2	I
S373.4	272	Residential (2)	67	72	69	3	5	I
S374	481	Residential (2)	67	58	54	4	-9	N
S375.1	391	Residential (2)	67	53	51	2	-14	N
S375.2	391	Residential (2)	67	54	52	2	-13	N
S375.3	391	Residential (2)	67	57	55	2	-10	N
S375.4	391	Residential (2)	67	60	58	2	-7	N
S376.1	291	Residential (1)	67	61	53	8	-6	N
S376.2	291	Residential (1)	67	63	56	7	-4	N
S376.3	291	Residential (1)	67	68	63	5	1	I
S376.4	291	Residential (1)	67	71	68	3	4	I
S377.1	264	Residential (1)	67	64	54	10	-3	N
S377.2	264	Residential (1)	67	66	58	8	-1	I
S377.3	264	Residential (1)	67	71	65	6	4	I
S377.4	264	Residential (1)	67	74	71	3	7	I
S378.1	338	Residential (2)	67	60	53	7	-7	N
S378.2	338	Residential (2)	67	62	55	7	-5	N

Impact occurs when future sound levels exceed existing sound levels by 15 dB or more, or, approach/exceed the NLC ("approach" is defined as 1 dB less than the NLC, therefore an impact occurs when Column H is –1 dB or greater). I = Impact, N = No Impact.

Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S378.3	338	Residential (2)	67	66	61	5	-1	I
S378.4	338	Residential (2)	67	69	66	3	2	I
S390.2	766	Residential (1)	67	59	58	1	-8	N
S391.2	791	Residential (1)	67	59	57	2	-8	N
S392.2	839	Residential (1)	67	57	55	2	-10	N
S393.2	863	Residential (1)	67	57	54	3	-10	N
S395.2	909	Residential (1)	67	52	50	2	-15	N
S397.2	759	Residential (2)	67	61	59	2	-6	N
S398.2	820	Residential (2)	67	60	58	2	-7	N
S399.2	701	Residential (1)	67	64	62	2	-3	N
S400	824	Residential Patio (1)	67	56	54	2	-11	N
S401.1	649	Residential (1)	67	60	57	3	-7	N
S401.2	649	Residential (1)	67	63	61	2	-4	N
S402.1	696	Residential (2)	67	57	55	2	-10	N
S402.2	696	Residential (2)	67	60	58	2	-7	N
S403.1	775	Residential (2)	67	56	54	2	-11	N
S403.2	775	Residential (2)	67	59	57	2	-8	N
S404.2	830	Residential (1)	67	55	53	2	-12	N
S405.2	867	Residential (1)	67	59	59	0	-8	N
S406.2	690	Residential (1)	67	59	58	1	-8	N
S407.2	762	Residential (1)	67	58	56	2	-9	N
S408.2	666	Residential (1)	67	61	59	2	-6	N
S409.2	739	Residential (1)	67	58	56	2	-9	N
S410.2	848	Residential (1)	67	61	60	1	-6	N
S411.2	668	Residential (1)	67	60	58	2	-7	N
S412.2	715	Residential (1)	67	59	57	2	-8	N
S413.2	738	Residential (1)	67	58	56	2	-9	N
S414.2	643	Residential (1)	67	61	59	2	-6	N
S415.2	835	Residential (1)	67	61	61	0	-6	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S415a.2	848	Residential (1)	67	55	54	1	-12	N
S416.2	783	Residential (1)	67	58	57	1	-9	N
S417.1	629	Residential (2)	67	62	61	1	-5	N
S417.2	629	Residential (2)	67	64	64	0	-3	N
S418.1	709	Residential (2)	67	62	61	1	-5	N
S418.2	709	Residential (2)	67	64	64	0	-3	N
S419	243	Residential (2)	67	66	66	0	-1	I
S420	550	Residential (4)	67	63	62	1	-4	N
S421	342	Residential (2)	67	66	65	1	-1	I
S422	373	Residential (2)	67	65	64	1	-2	N
S423	168	Residential (2)	67	70	72	-2	3	I
S424	469	Residential (2)	67	61	59	2	-6	N
S425	327	Residential (2)	67	64	63	1	-3	N
S426	551	Residential (2)	67	60	58	2	-7	N
S427	157	Residential (2)	67	69	70	-1	2	I
S428	320	Residential (2)	67	63	62	1	-4	N
S429	171	Residential (2)	67	69	69	0	2	I
S430	373	Residential (2)	67	63	62	1	-4	N
S431	509	Residential (2)	67	61	60	1	-6	N
S432	163	Residential (2)	67	68	69	-1	1	I
S433	442	Residential (2)	67	62	61	1	-5	N
S434	164	Residential (2)	67	68	69	-1	1	I
S435	514	Residential (2)	67	59	58	1	-8	N
S436	186	Residential (2)	67	68	69	-1	1	I
S437	237	Residential (2)	67	65	66	-1	-2	N
S438	498	Residential (4)	67	59	57	2	-8	N
S439	360	Residential (2)	67	61	60	1	-6	N
S440	186	Residential (2)	67	67	68	-1	0	I
S441	521	Residential (4)	67	59	57	2	-8	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S442	325	Residential (2)	67	61	61	0	-6	N
S443	548	Residential (4)	67	59	57	2	-8	N
S444	339	Residential (2)	67	61	60	1	-6	N
S445	338	Residential (2)	67	61	60	1	-6	N
S446	350	Residential (2)	67	61	61	0	-6	N
S447	553	Residential (2)	67	58	57	1	-9	N
S448	363	Residential (2)	67	61	61	0	-6	N
S449	366	Residential (2)	67	61	61	0	-6	N
S450	565	Residential (2)	67	57	56	1	-10	N
S451	368	Residential (2)	67	62	61	1	-5	N
S452	408	Residential (2)	67	61	60	1	-6	N
S453	572	Residential (2)	67	57	55	2	-10	N
S454	593	Residential (1)	67	57	56	1	-10	N
S455	638	Residential (2)	67	57	55	2	-10	N
S456	391	Residential (1)	67	62	62	0	-5	N
S457	418	Residential (1)	67	62	61	1	-5	N
S458	411	Residential (1)	67	63	62	1	-4	N
S459	422	Residential (1)	67	62	62	0	-5	N
S460	435	Residential (1)	67	62	61	1	-5	N
S461	480	Residential (1)	67	62	61	1	-5	N
S462	456	Residential (1)	67	61	61	0	-6	N
S463	586	Residential (1)	67	58	57	1	-9	N
S464	640	Residential (2)	67	56	55	1	-11	N
S465	548	Residential (1)	67	60	59	1	-7	N
S466	514	Residential (1)	67	61	60	1	-6	N
S467.1	439	Residential (1)	67	48	48	0	-19	N
S467.2	439	Residential (1)	67	50	50	0	-17	N
S467.3	439	Residential (1)	67	54	53	1	-13	N
S468.1	393	Residential (1)	67	61	63	-2	-6	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S468.2	393	Residential (1)	67	66	66	0	-1	I
S468.3	393	Residential (1)	67	68	67	1	1	I
S469.1	580	Residential (1)	67	50	49	1	-17	N
S469.2	580	Residential (1)	67	53	52	1	-14	N
S470.1	530	Residential (1)	67	47	47	0	-20	N
S470.2	530	Residential (1)	67	51	50	1	-16	N
S471.1	406	Residential (2)	67	47	47	0	-20	N
S471.2	406	Residential (2)	67	50	50	0	-17	N
S471.3	406	Residential (2)	67	53	53	0	-14	N
S472.1	549	Residential (2)	67	49	49	0	-18	N
S472.2	549	Residential (2)	67	53	52	1	-14	N
S473.1	371	Residential (1)	67	62	64	-2	-5	N
S473.2	371	Residential (1)	67	67	67	0	0	I
S473.3	371	Residential (1)	67	68	68	0	1	I
S474.1	495	Residential (1)	67	53	53	0	-14	N
S474.2	495	Residential (1)	67	56	56	0	-11	N
S475.1	511	Residential (2)	67	47	46	1	-20	N
S475.2	511	Residential (2)	67	51	50	1	-16	N
S476.1	566	Residential (1)	67	53	51	2	-14	N
S476.2	566	Residential (1)	67	56	55	1	-11	N
S477.1	351	Residential (1)	67	63	65	-2	-4	N
S477.2	351	Residential (1)	67	67	68	-1	0	I
S477.3	351	Residential (1)	67	69	69	0	2	I
S478.1	534	Residential (1)	67	56	55	1	-11	N
S478.2	534	Residential (1)	67	60	59	1	-7	N
S479.1	587	Residential (2)	67	57	56	1	-10	N
S479.2	587	Residential (2)	67	60	60	0	-7	N
S480.1	546	Residential (1)	67	54	52	2	-13	N
S480.2	546	Residential (1)	67	57	56	1	-10	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S481.1	381	Residential (1)	67	47	48	-1	-20	N
S481.2	381	Residential (1)	67	50	49	1	-17	N
S481.3	381	Residential (1)	67	55	54	1	-12	N
S482.1	364	Residential (2)	67	47	47	0	-20	N
S482.2	364	Residential (2)	67	50	50	0	-17	N
S482.3	364	Residential (2)	67	54	54	0	-13	N
S483.1	513	Residential (1)	67	57	55	2	-10	N
S483.2	513	Residential (1)	67	60	59	1	-7	N
S484.1	463	Residential (1)	67	54	54	0	-13	N
S484.2	463	Residential (1)	67	57	58	-1	-10	N
S485.1	495	Residential (1)	67	56	55	1	-11	N
S485.2	495	Residential (1)	67	60	59	1	-7	N
S486.1	556	Residential (1)	67	57	56	1	-10	N
S486.2	556	Residential (1)	67	60	60	0	-7	N
S487.1	322	Residential (1)	67	64	68	-4	-3	N
S487.2	322	Residential (1)	67	69	69	0	2	I
S487.3	322	Residential (1)	67	70	70	0	3	I
S488.1	572	Residential (1)	67	58	57	1	-9	N
S488.2	572	Residential (1)	67	61	60	1	-6	N
S489	402	Residential (1)	67	50	49	1	-17	N
S490.1	532	Residential (1)	67	57	56	1	-10	N
S490.2	532	Residential (1)	67	60	60	0	-7	N
S491.1	464	Residential (1)	67	56	55	1	-11	N
S491.2	464	Residential (1)	67	60	60	0	-7	N
S492.1	359	Residential (1)	67	63	64	-1	-4	N
S492.2	359	Residential (1)	67	67	67	0	0	I
S492.3	359	Residential (1)	67	68	68	0	1	I
S493.1	334	Residential (1)	67	65	67	-2	-2	N
S493.2	334	Residential (1)	67	68	68	0	1	I

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S493.3	334	Residential (1)	67	69	69	0	2	I
S494.1	562	Residential (1)	67	58	56	2	-9	N
S494.2	562	Residential (1)	67	61	60	1	-6	N
S495.1	310	Residential (1)	67	65	68	-3	-2	N
S495.2	310	Residential (1)	67	69	69	0	2	I
S495.3	310	Residential (1)	67	70	70	0	3	I
S496.1	370	Residential (2)	67	50	49	1	-17	N
S496.2	370	Residential (2)	67	51	51	0	-16	N
S496.3	370	Residential (2)	67	55	54	1	-12	N
S497.1	573	Residential (2)	67	56	54	2	-11	N
S497.2	573	Residential (2)	67	60	58	2	-7	N
S497.3	573	Residential (2)	67	62	60	2	-5	N
S498.1	335	Residential (1)	67	64	66	-2	-3	N
S498.2	335	Residential (1)	67	68	68	0	1	I
S498.3	335	Residential (1)	67	69	69	0	2	I
S499.1	537	Residential (1)	67	59	57	2	-8	N
S499.2	537	Residential (1)	67	62	60	2	-5	N
S500.1	318	Residential (1)	67	64	66	-2	-3	N
S500.2	318	Residential (1)	67	69	68	1	2	I
S500.3	318	Residential (1)	67	69	69	0	2	I
S501.1	352	Residential (1)	67	50	50	0	-17	N
S501.2	352	Residential (1)	67	52	51	1	-15	N
S501.3	352	Residential (1)	67	57	55	2	-10	N
S502.1	334	Residential (2)	67	49	48	1	-18	N
S502.2	334	Residential (2)	67	52	51	1	-15	N
S502.3	334	Residential (2)	67	56	55	1	-11	N
S503.1	520	Residential (1)	67	59	57	2	-8	N
S503.2	520	Residential (1)	67	62	61	1	-5	N
S504	452	Residential Pool (1)	67	58	58	0	-9	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S505.1	533	Residential (1)	67	57	56	1	-10	N
S505.2	533	Residential (1)	67	61	60	1	-6	N
S505.3	533	Residential (1)	67	63	61	2	-4	N
S506.1	589	Residential (2)	67	55	53	2	-12	N
S506.2	589	Residential (2)	67	58	57	1	-9	N
S507.1	288	Residential (1)	67	66	68	-2	-1	I
S507.2	288	Residential (1)	67	69	69	0	2	I
S507.3	288	Residential (1)	67	70	70	0	3	I
S508.1	490	Residential (1)	67	60	58	2	-7	N
S508.2	490	Residential (1)	67	63	61	2	-4	N
S509.1	377	Residential (1)	67	52	51	1	-15	N
S509.2	377	Residential (1)	67	54	53	1	-13	N
S509.3	377	Residential (1)	67	57	56	1	-10	N
S510.1	577	Residential (1)	67	54	52	2	-13	N
S510.2	577	Residential (1)	67	59	58	1	-8	N
S511.1	306	Residential (1)	67	65	66	-1	-2	N
S511.2	306	Residential (1)	67	69	68	1	2	I
S511.3	306	Residential (1)	67	70	69	1	3	I
S512.1	544	Residential (1)	67	56	54	2	-11	N
S512.2	544	Residential (1)	67	60	59	1	-7	N
S513.1	354	Residential (1)	67	52	51	1	-15	N
S513.2	354	Residential (1)	67	54	52	2	-13	N
S513.3	354	Residential (1)	67	58	56	2	-9	N
S514.1	282	Residential (1)	67	66	68	-2	-1	I
S514.2	282	Residential (1)	67	69	69	0	2	I
S514.3	282	Residential (1)	67	70	70	0	3	I
S515.1	319	Residential (1)	67	50	50	0	-17	N
S515.2	319	Residential (1)	67	52	51	1	-15	N
S515.3	319	Residential (1)	67	57	56	1	-10	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S516.1	331	Residential (1)	67	51	50	1	-16	N
S516.2	331	Residential (1)	67	52	51	1	-15	N
S516.3	331	Residential (1)	67	57	56	1	-10	N
S517.1	541	Residential (1)	67	54	52	2	-13	N
S517.2	541	Residential (1)	67	59	58	1	-8	N
S518.1	273	Residential (1)	67	65	67	-2	-2	N
S518.2	273	Residential (1)	67	69	69	0	2	I
S519.1	296	Residential (2)	67	50	49	1	-17	N
S519.2	296	Residential (2)	67	53	52	1	-14	N
S519.3	296	Residential (2)	67	57	56	1	-10	N
S520.1	331	Residential (1)	67	63	64	-1	-4	N
S520.2	331	Residential (1)	67	68	67	1	1	I
S521	387	Residential Playground (1)	67	58	56	2	-9	N
S522.1	306	Residential (1)	67	64	65	-1	-3	N
S522.2	306	Residential (1)	67	68	67	1	1	I
S523.1	532	Residential (1)	67	52	50	2	-15	N
S523.2	532	Residential (1)	67	57	55	2	-10	N
S524.1	288	Residential (1)	67	65	66	-1	-2	N
S524.2	288	Residential (1)	67	69	68	1	2	I
S525.1	487	Residential (1)	67	51	49	2	-16	N
S525.2	487	Residential (1)	67	56	54	2	-11	N
S526.1	247	Residential (1)	67	66	69	-3	-1	I
S526.2	247	Residential (1)	67	70	70	0	3	I
S527.1	323	Residential (1)	67	52	50	2	-15	N
S527.2	323	Residential (1)	67	54	52	2	-13	N
S527.3	323	Residential (1)	67	58	57	1	-9	N
S528.1	529	Residential (1)	67	60	57	3	-7	N
S528.2	529	Residential (1)	67	63	62	1	-4	N
S529.1	483	Residential (2)	67	49	48	1	-18	N

Impact occurs when future sound levels exceed existing sound levels by 15 dB or more, or, approach/exceed the NLC ("approach" is defined as 1 dB less than the NLC, therefore an impact occurs when Column H is –1 dB or greater). I = Impact, N = No Impact.

Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S529.2	483	Residential (2)	67	56	54	2	-11	N
S530.1	257	Residential (1)	67	66	68	-2	-1	I
S530.2	257	Residential (1)	67	70	69	1	3	I
S531.1	490	Residential (2)	67	50	48	2	-17	N
S531.2	490	Residential (2)	67	56	54	2	-11	N
S532	339	Residential Recreation Area (1)	67	59	58	1	-8	N
S533.1	279	Residential (1)	67	64	65	-1	-3	N
S533.2	279	Residential (1)	67	69	68	1	2	I
S534.1	297	Residential (1)	67	52	50	2	-15	N
S534.2	297	Residential (1)	67	53	52	1	-14	N
S534.3	297	Residential (1)	67	58	57	1	-9	N
S535.1	371	Residential (1)	67	57	56	1	-10	N
S535.2	371	Residential (1)	67	62	61	1	-5	N
S536.1	487	Residential (1)	67	60	58	2	-7	N
S536.2	487	Residential (1)	67	64	62	2	-3	N
S537.1	427	Residential (1)	67	59	57	2	-8	N
S537.2	427	Residential (1)	67	63	61	2	-4	N
S538.1	344	Residential (1)	67	59	58	1	-8	N
S538.2	344	Residential (1)	67	65	63	2	-2	N
S539.1	281	Residential (1)	67	51	50	1	-16	N
S539.2	281	Residential (1)	67	53	52	1	-14	N
S539.3	281	Residential (1)	67	58	56	2	-9	N
S540.1	424	Residential (1)	67	59	57	2	-8	N
S540.2	424	Residential (1)	67	63	61	2	-4	N
S541.1	254	Residential (1)	67	65	66	-1	-2	N
S541.2	254	Residential (1)	67	70	68	2	3	I
S542.1	424	Residential (1)	67	59	57	2	-8	N
S542.2	424	Residential (1)	67	63	61	2	-4	N
S543.1	428	Residential (1)	67	59	57	2	-8	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S543.2	428	Residential (1)	67	63	61	2	-4	N
S544.1	280	Residential (1)	67	53	51	2	-14	N
S544.2	280	Residential (1)	67	54	52	2	-13	N
S544.3	280	Residential (1)	67	60	58	2	-7	N
S545.1	236	Residential (1)	67	66	67	-1	-1	I
S545.2	236	Residential (1)	67	70	69	1	3	I
S546.1	329	Residential (1)	67	61	59	2	-6	N
S546.2	329	Residential (1)	67	65	63	2	-2	N
S546.3	329	Residential (1)	67	66	64	2	-1	I
S547.1	248	Residential (2)	67	51	49	2	-16	N
S547.2	248	Residential (2)	67	53	52	1	-14	N
S547.3	248	Residential (2)	67	58	57	1	-9	N
S548.1	296	Residential (2)	67	60	59	1	-7	N
S548.2	296	Residential (2)	67	64	62	2	-3	N
S548.3	296	Residential (2)	67	65	63	2	-2	N
S549.1	207	Residential (1)	67	68	69	-1	1	I
S549.2	207	Residential (1)	67	71	70	1	4	I
S550.1	229	Residential (1)	67	69	68	1	2	I
S550.2	229	Residential (1)	67	71	69	2	4	I
S551.1	245	Residential (1)	67	65	65	0	-2	N
S551.2	245	Residential (1)	67	69	68	1	2	I
S552.1	264	Residential (1)	67	61	59	2	-6	N
S552.2	264	Residential (1)	67	65	64	1	-2	N
S552.3	264	Residential (1)	67	66	64	2	-1	I
S553.1	201	Residential (1)	67	70	69	1	3	I
S553.2	201	Residential (1)	67	71	70	1	4	I
S554.1	320	Residential (1)	67	58	56	2	-9	N
S554.2	320	Residential (1)	67	61	59	2	-6	N
S555.1	245	Residential (1)	67	62	60	2	-5	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S555.2	245	Residential (1)	67	66	65	1	-1	I
S555.3	245	Residential (1)	67	67	65	2	0	I
S556.1	221	Residential (1)	67	67	66	1	0	I
S556.2	221	Residential (1)	67	70	68	2	3	I
S557.1	361	Residential (1)	67	60	58	2	-7	N
S557.2	361	Residential (1)	67	63	60	3	-4	N
S559.1	284	Residential (1)	67	61	59	2	-6	N
S559.2	284	Residential (1)	67	63	61	2	-4	N
S560.1	202	Residential (1)	67	68	67	1	1	I
S560.2	202	Residential (1)	67	71	69	2	4	I
S561.1	214	Residential (1)	67	64	62	2	-3	N
S561.2	214	Residential (1)	67	68	67	1	1	I
S561.3	214	Residential (1)	67	69	67	2	2	I
S562.1	339	Residential (1)	67	62	60	2	-5	N
S562.2	339	Residential (1)	67	65	62	3	-2	N
S563	388	Residential (2)	67	59	58	1	-8	N
S564.1	312	Residential (1)	67	58	57	1	-9	N
S564.2	312	Residential (1)	67	62	60	2	-5	N
S565.1	281	Residential (1)	67	59	57	2	-8	N
S565.2	281	Residential (1)	67	63	61	2	-4	N
S567.1	172	Residential (1)	67	69	67	2	2	I
S567.2	172	Residential (1)	67	72	70	2	5	I
S568	366	Residential (2)	67	59	58	1	-8	N
S569.1	283	Residential (2)	67	58	56	2	-9	N
S569.2	283	Residential (2)	67	61	59	2	-6	N
S570.1	240	Residential (2)	67	58	57	1	-9	N
S570.2	240	Residential (2)	67	63	61	2	-4	N
S571.1	241	Residential (1)	67	59	57	2	-8	N
S571.2	241	Residential (1)	67	62	60	2	-5	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S573.1	187	Residential (1)	67	65	64	1	-2	N
S573.2	187	Residential (1)	67	67	65	2	0	I
S574	255	Residential (4)	67	61	60	1	-6	N
S575.1	208	Residential (1)	67	60	60	0	-7	N
S575.2	208	Residential (1)	67	64	62	2	-3	N
S579.1	222	Residential (1)	67	60	59	1	-7	N
S579.2	222	Residential (1)	67	63	61	2	-4	N
S581.1	240	Residential (1)	67	65	63	2	-2	N
S581.2	240	Residential (1)	67	66	64	2	-1	I
S582	346	Residential (4)	67	60	58	2	-7	N
S584.1	193	Residential (1)	67	63	62	1	-4	N
S584.2	193	Residential (1)	67	65	63	2	-2	N
S585.1	166	Residential (1)	67	65	64	1	-2	N
S585.2	166	Residential (1)	67	68	66	2	1	I
S586.1	208	Residential (1)	67	65	63	2	-2	N
S586.2	208	Residential (1)	67	67	65	2	0	I
S587.1	189	Residential (1)	67	65	64	1	-2	N
S587.2	189	Residential (1)	67	67	66	1	0	I
S588	470	Residential (1)	67	60	59	1	-7	N
S591	346	Residential (4)	67	60	59	1	-7	N
S595	380	Residential (4)	67	60	59	1	-7	N
S597	474	Residential (1)	67	61	59	2	-6	N
S598.1	159	Residential (1)	67	66	64	2	-1	I
S598.2	159	Residential (1)	67	68	66	2	1	I
S602	453	Residential (1)	67	61	60	1	-6	N
S604	185	Residential (4)	67	64	62	2	-3	N
S605	394	Residential (4)	67	61	60	1	-6	N
S606.1	487	Residential (1)	67	49	48	1	-18	N
S606.2	487	Residential (1)	67	50	49	1	-17	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S608	413	Residential (2)	67	62	61	1	-5	N
S609	419	Residential (2)	67	62	61	1	-5	N
S610.1	483	Residential (1)	67	47	46	1	-20	N
S610.2	483	Residential (1)	67	49	48	1	-18	N
S612.1	476	Residential (1)	67	55	54	1	-12	N
S612.2	476	Residential (1)	67	59	57	2	-8	N
S613.1	477	Residential (1)	67	53	52	1	-14	N
S613.2	477	Residential (1)	67	56	55	1	-11	N
S614.1	472	Residential (1)	67	49	48	1	-18	N
S614.2	472	Residential (1)	67	50	49	1	-17	N
S615.1	471	Residential (1)	67	54	53	1	-13	N
S615.2	471	Residential (1)	67	58	57	1	-9	N
S616.1	471	Residential (1)	67	57	56	1	-10	N
S616.2	471	Residential (1)	67	59	58	1	-8	N
S617.1	467	Residential (1)	67	53	52	1	-14	N
S617.2	467	Residential (1)	67	56	54	2	-11	N
S618.1	451	Residential (1)	67	50	49	1	-17	N
S618.2	451	Residential (1)	67	51	50	1	-16	N
S620.1	441	Residential (1)	67	55	54	1	-12	N
S620.2	441	Residential (1)	67	59	58	1	-8	N
S621.1	439	Residential (1)	67	55	55	0	-12	N
S621.2	439	Residential (1)	67	59	58	1	-8	N
S623.1	432	Residential (1)	67	58	56	2	-9	N
S623.2	432	Residential (1)	67	60	59	1	-7	N
S625.1	428	Residential (1)	67	52	51	1	-15	N
S625.2	428	Residential (1)	67	54	53	1	-13	N
S626.1	429	Residential (1)	67	55	54	1	-12	N
S626.2	429	Residential (1)	67	59	58	1	-8	N
S627	155	Residential (4)	67	65	63	2	-2	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S628	365	Residential (2)	67	60	59	1	-7	N
S629.1	409	Residential (1)	67	56	55	1	-11	N
S629.2	409	Residential (1)	67	60	59	1	-7	N
S631.1	401	Residential (1)	67	52	50	2	-15	N
S631.2	401	Residential (1)	67	52	51	1	-15	N
S633.1	384	Residential (1)	67	55	53	2	-12	N
S633.2	384	Residential (1)	67	57	56	1	-10	N
S634.1	382	Residential (1)	67	58	57	1	-9	N
S634.2	382	Residential (1)	67	60	59	1	-7	N
S635	333	Residential (2)	67	61	60	1	-6	N
S636.1	367	Residential (1)	67	49	48	1	-18	N
S636.2	367	Residential (1)	67	51	50	1	-16	N
S637.1	365	Residential (1)	67	50	49	1	-17	N
S637.2	365	Residential (1)	67	52	50	2	-15	N
S638.1	361	Residential (1)	67	58	56	2	-9	N
S638.2	361	Residential (1)	67	62	60	2	-5	N
S639.1	358	Residential (1)	67	54	52	2	-13	N
S639.2	358	Residential (1)	67	56	55	1	-11	N
S640.1	359	Residential (1)	67	55	53	2	-12	N
S640.2	359	Residential (1)	67	57	55	2	-10	N
S642.1	352	Residential (1)	67	59	58	1	-8	N
S642.2	352	Residential (1)	67	62	60	2	-5	N
S644.1	347	Residential (1)	67	53	52	1	-14	N
S644.2	347	Residential (1)	67	56	54	2	-11	N
S645	124	Residential (4)	67	65	64	1	-2	N
S646.1	339	Residential (1)	67	49	48	1	-18	N
S646.2	339	Residential (1)	67	52	51	1	-15	N
S647.1	335	Residential (1)	67	62	60	2	-5	N
S647.2	335	Residential (1)	67	65	64	1	-2	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S648.1	336	Residential (1)	67	48	47	1	-19	N
S648.2	336	Residential (1)	67	52	51	1	-15	N
S650.1	332	Residential (1)	67	59	58	1	-8	N
S650.2	332	Residential (1)	67	62	61	1	-5	N
S654.1	323	Residential (1)	67	60	59	1	-7	N
S654.2	323	Residential (1)	67	64	63	1	-3	N
S655.1	323	Residential (1)	67	50	49	1	-17	N
S655.2	323	Residential (1)	67	52	50	2	-15	N
S656.1	321	Residential (1)	67	61	59	2	-6	N
S656.2	321	Residential (1)	67	64	63	1	-3	N
S657.1	321	Residential (1)	67	51	50	1	-16	N
S657.2	321	Residential (1)	67	52	51	1	-15	N
S658.1	318	Residential (1)	67	60	59	1	-7	N
S658.2	318	Residential (1)	67	64	63	1	-3	N
S659	150	Residential (4)	67	66	64	2	-1	I
S661.1	315	Residential (1)	67	58	57	1	-9	N
S661.2	315	Residential (1)	67	63	61	2	-4	N
S662.1	315	Residential (1)	67	55	53	2	-12	N
S662.2	315	Residential (1)	67	59	57	2	-8	N
S665	172	Residential (4)	67	65	63	2	-2	N
S667	255	Residential (2)	67	63	62	1	-4	N
S668.1	302	Residential (1)	67	56	54	2	-11	N
S668.2	302	Residential (1)	67	60	59	1	-7	N
S669.1	296	Residential (1)	67	62	60	2	-5	N
S669.2	296	Residential (1)	67	66	64	2	-1	I
S670.1	296	Residential (1)	67	50	49	1	-17	N
S670.2	296	Residential (1)	67	53	51	2	-14	N
S671.1	293	Residential (1)	67	58	58	0	-9	N
S671.2	293	Residential (1)	67	63	62	1	-4	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S672.1	292	Residential (1)	67	62	61	1	-5	N
S672.2	292	Residential (1)	67	66	65	1	-1	I
S673.1	292	Residential (1)	67	49	48	1	-18	N
S673.2	292	Residential (1)	67	53	52	1	-14	N
S674.1	290	Residential (1)	67	57	56	1	-10	N
S674.2	290	Residential (1)	67	61	59	2	-6	N
S677	178	Residential (4)	67	65	64	1	-2	N
S678.1	280	Residential (1)	67	58	58	0	-9	N
S678.2	280	Residential (1)	67	64	62	2	-3	N
S682.1	280	Residential (1)	67	61	59	2	-6	N
S682.2	280	Residential (1)	67	65	63	2	-2	N
S683.1	277	Residential (1)	67	57	56	1	-10	N
S683.2	277	Residential (1)	67	61	60	1	-6	N
S684.1	278	Residential (1)	67	58	57	1	-9	N
S684.2	278	Residential (1)	67	63	61	2	-4	N
S686.1	277	Residential (1)	67	58	56	2	-9	N
S686.2	277	Residential (1)	67	62	61	1	-5	N
S687	191	Residential (4)	67	65	64	1	-2	N
S689	213	Residential (2)	67	67	66	1	0	I
S690.1	256	Residential (1)	67	62	60	2	-5	N
S690.2	256	Residential (1)	67	66	64	2	-1	I
S693	185	Residential (4)	67	66	65	1	-1	I
S694.1	252	Residential (1)	67	61	60	1	-6	N
S694.2	252	Residential (1)	67	66	64	2	-1	I
S695.1	248	Residential (1)	67	63	62	1	-4	N
S695.2	248	Residential (1)	67	67	66	1	0	I
S697.1	248	Residential (1)	67	62	61	1	-5	N
S697.2	248	Residential (1)	67	67	65	2	0	I
S698.1	245	Residential (1)	67	61	59	2	-6	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S698.2	245	Residential (1)	67	66	65	1	-1	I
S699.1	244	Residential (1)	67	67	66	1	0	I
S699.2	244	Residential (1)	67	70	69	1	3	I
S700.1	241	Residential (1)	67	66	65	1	-1	I
S700.2	241	Residential (1)	67	70	68	2	3	I
S701.1	232	Residential (1)	67	62	60	2	-5	N
S701.2	232	Residential (1)	67	66	65	1	-1	I
S702.1	207	Residential (1)	67	69	68	1	2	I
S702.2	207	Residential (1)	67	71	70	1	4	I
S703.1	204	Residential (1)	67	68	67	1	1	I
S703.2	204	Residential (1)	67	71	70	1	4	I
S704	156	Hiestand Woods Park (1)	67	71	70	1	4	I
S705	120	American Family Walking Path (1)	67	70	68	2	3	I
S706	439	Marsh View Bike Path (1)	67	65	64	1	-2	N
S788	348	Residential (1)	67	65	66	-1	-2	N
S789	217	Crosspoint Church of the Nazarene (1)	67	66	67	-1	-1	I
S790	488	Calvary Gospel Church (1)	67	62	61	1	-5	N
S791	339	Restaurant (1)	72	56	56	0	-16	N
S792	697	Calvary Gospel Church (1)	67	63	62	1	-4	N
S793	390	In My Garden Bilingual Daycare (1)	67	59	58	1	-8	N
S794	214	Residential (1)	67	66	65	1	-1	I
S795.1	130	Residential (1)	67	69	68	1	2	I
S795.2	130	Residential (1)	67	70	68	2	3	I
S796	118	Residential (1)	67	73	70	3	6	I
S797	374	Residential (2)	67	66	63	3	-1	I
S798	122	Residential (1)	67	73	71	2	6	I
S799	289	Residential (1)	67	65	64	1	-2	N
S800.1	412	Residential (1)	67	67	65	2	0	I
S800.2	412	Residential (1)	67	68	66	2	1	I

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S801.1	420	Residential (1)	67	67	65	2	0	I
S801.2	420	Residential (1)	67	68	66	2	1	I
S802	324	Residential (1)	67	63	62	1	-4	N
S804	156	Residential (2)	67	68	67	1	1	I
S805	156	Residential (2)	67	68	67	1	1	I
S806	156	Residential (2)	67	68	67	1	1	I
S810	158	Residential (2)	67	67	66	1	0	I
S812	158	Residential (2)	67	68	67	1	1	I
S813	161	Residential (2)	67	68	66	2	1	I
S814	164	Residential (2)	67	67	66	1	0	I
S817.1	174	Residential (1)	67	67	65	2	0	I
S817.2	174	Residential (1)	67	68	66	2	1	I
S818	351	Residential (1)	67	62	60	2	-5	N
S819	269	Residential (1)	67	65	63	2	-2	N
S820	185	Residential (3)	67	69	68	1	2	I
S823	190	Residential (2)	67	69	67	2	2	I
S824	191	Residential (2)	67	68	67	1	1	I
S827.1	486	Residential (1)	67	61	60	1	-6	N
S827.2	486	Residential (1)	67	64	62	2	-3	N
S828	529	Residential Playground (1)	67	64	62	2	-3	N
S829	470	Residential (2)	67	63	60	3	-4	N
S830	320	Residential (1)	67	64	62	2	-3	N
S831.1	512	Residential (3)	67	63	61	2	-4	N
S831.2	512	Residential (3)	67	65	62	3	-2	N
S832.1	556	Residential (1)	67	60	58	2	-7	N
S832.2	556	Residential (1)	67	62	61	1	-5	N
S833.1	283	Residential (1)	67	61	60	1	-6	N
S833.2	283	Residential (1)	67	65	63	2	-2	N
S834	298	Residential Courtyard (1)	67	55	54	1	-12	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S835	370	Residential (1)	67	62	61	1	-5	N
S836	316	Residential (1)	67	54	52	2	-13	N
S837	319	Residential (1)	67	53	52	1	-14	N
S838.1	322	Residential (1)	67	59	58	1	-8	N
S838.2	322	Residential (1)	67	63	62	1	-4	N
S839.1	600	Residential (2)	67	51	49	2	-16	N
S839.2	600	Residential (2)	67	49	48	1	-18	N
S840	345	Residential (1)	67	60	58	2	-7	N
S841	366	Residential (1)	67	58	57	1	-9	N
S842	380	Residential (1)	67	58	56	2	-9	N
S843	372	Residential (1)	67	63	60	3	-4	N
S844	374	Residential (1)	67	63	60	3	-4	N
S845	387	Residential (1)	67	55	54	1	-12	N
S846	378	Residential (1)	67	63	60	3	-4	N
S847	474	Residential (1)	67	61	59	2	-6	N
S848	402	Residential (1)	67	53	52	1	-14	N
S849	413	Residential (1)	67	59	57	2	-8	N
S850	468	Residential (2)	67	55	53	2	-12	N
S851	478	Residential (1)	67	53	51	2	-14	N
S852	481	Residential (3)	67	53	51	2	-14	N
S853	475	Residential (3)	67	54	52	2	-13	N
S854	498	Residential (2)	67	48	48	0	-19	N
S855	421	Residential (5)	67	54	52	2	-13	N
S856	450	Residential (4)	67	47	46	1	-20	N
S857	359	Residential (3)	67	54	51	3	-13	N
S858	400	Residential (3)	67	54	50	4	-13	N
S859	344	Residential (3)	67	56	51	5	-11	N
S860	238	Residential (2)	67	53	51	2	-14	N
S861	244	Residential (2)	67	54	52	2	-13	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S862	404	Residential (6)	67	54	50	4	-13	N
S863	472	Residential (4)	67	53	51	2	-14	N
S864	202	Residential (3)	67	56	52	4	-11	N
S865	166	Residential (2)	67	56	53	3	-11	N
S866	154	Residential (2)	67	56	53	3	-11	N
S867	488	Residential (4)	67	54	51	3	-13	N
S868	189	Residential (3)	67	58	52	6	-9	N
S869.1	133	Residential (1)	67	50	50	0	-17	N
S869.2	133	Residential (1)	67	54	53	1	-13	N
S869a	250	Residential (1)	67	55	52	3	-12	N
S870.1	134	Residential (1)	67	50	48	2	-17	N
S870.2	134	Residential (1)	67	52	50	2	-15	N
S871.1	132	Residential (1)	67	45	46	-1	-22	N
S871.2	132	Residential (1)	67	48	48	0	-19	N
S872.1	133	Residential (1)	67	44	46	-2	-23	N
S872.2	133	Residential (1)	67	47	47	0	-20	N
S873.1	130	Residential (1)	67	45	46	-1	-22	N
S873.2	130	Residential (1)	67	47	48	-1	-20	N
S873.3	130	Residential (1)	67	54	52	2	-13	N
S874.1	130	Residential (1)	67	47	48	-1	-20	N
S874.2	130	Residential (1)	67	47	47	0	-20	N
S874.3	130	Residential (1)	67	51	50	1	-16	N
S875	336	Residential (4)	67	54	52	2	-13	N
S876	186	Residential (3)	67	59	53	6	-8	N
S876a	86	Residential (3)	67	62	54	8	-5	N
S877	73	Residential (2)	67	61	58	3	-6	N
S878	78	Residential (2)	67	61	58	3	-6	N
S879.1	48	Residential (1)	67	63	61	2	-4	N
S879.2	48	Residential (1)	67	63	62	1	-4	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S880.1	44	Residential (1)	67	63	61	2	-4	N
S880.2	44	Residential (1)	67	63	62	1	-4	N
S881.1	41	Residential (2)	67	63	62	1	-4	N
S881.2	41	Residential (2)	67	63	62	1	-4	N
S881.3	41	Residential (2)	67	64	63	1	-3	N
S882	518	Residential (1)	67	54	52	2	-13	N
S883	186	Residential (2)	67	59	53	6	-8	N
S884	56	Residential (2)	67	62	60	2	-5	N
S884a	90	Residential (2)	67	61	55	6	-6	N
S885	355	Residential (4)	67	56	53	3	-11	N
S886	186	Residential (2)	67	59	53	6	-8	N
S886a	89	Residential (3)	67	62	54	8	-5	N
S887	178	Residential (3)	67	59	54	5	-8	N
S887a	92	Residential (3)	67	61	54	7	-6	N
S888	423	Residential (4)	67	58	53	5	-9	N
S889	187	Residential (3)	67	58	54	4	-9	N
S889a	110	Residential (4)	67	61	55	6	-6	N
S890.1	51	Residential (1)	67	61	58	3	-6	N
S890.2	51	Residential (1)	67	61	60	1	-6	N
S890.3	51	Residential (1)	67	62	60	2	-5	N
S890.4	51	Residential (1)	67	66	64	2	-1	I
S891.1	58	Residential (1)	67	61	58	3	-6	N
S891.2	58	Residential (1)	67	61	60	1	-6	N
S891.3	58	Residential (1)	67	62	61	1	-5	N
S891.4	58	Residential (1)	67	66	64	2	-1	I
S892.2	57	Residential (1)	67	61	60	1	-6	N
S892.3	57	Residential (1)	67	61	60	1	-6	N
S892.4	57	Residential (1)	67	66	64	2	-1	I
S893.1	57	Residential (1)	67	61	58	3	-6	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S893.2	57	Residential (1)	67	61	60	1	-6	N
S893.3	57	Residential (1)	67	61	60	1	-6	N
S893.4	57	Residential (1)	67	66	64	2	-1	I
S894.1	62	Residential (1)	67	60	58	2	-7	N
S894.2	62	Residential (1)	67	61	60	1	-6	N
S894.3	62	Residential (1)	67	61	60	1	-6	N
S894.4	62	Residential (1)	67	65	64	1	-2	N
S895.1	65	Residential (1)	67	60	58	2	-7	N
S895.2	65	Residential (1)	67	60	59	1	-7	N
S895.3	65	Residential (1)	67	60	60	0	-7	N
S895.4	65	Residential (1)	67	65	63	2	-2	N
S896.1	65	Residential (1)	67	60	58	2	-7	N
S896.2	65	Residential (1)	67	60	60	0	-7	N
S896.3	65	Residential (1)	67	61	60	1	-6	N
S896.4	65	Residential (1)	67	65	64	1	-2	N
S897.1	66	Residential (1)	67	60	58	2	-7	N
S897.2	66	Residential (1)	67	60	60	0	-7	N
S897.3	66	Residential (1)	67	60	60	0	-7	N
S897.4	66	Residential (1)	67	65	64	1	-2	N
S898.2	69	Residential (1)	67	60	59	1	-7	N
S899	536	Residential (1)	67	58	54	4	-9	N
S900	240	Residential (4)	67	59	54	5	-8	N
S901.1	106	Residential (1)	67	58	55	3	-9	N
S901.2	106	Residential (1)	67	60	58	2	-7	N
S901.3	106	Residential (1)	67	63	61	2	-4	N
S901.4	106	Residential (1)	67	65	63	2	-2	N
S902	84	Residential (1)	67	58	53	5	-9	N
S903	108	Residential (1)	67	56	52	4	-11	N
S904.1	142	Residential (1)	67	54	52	2	-13	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S904.2	142	Residential (1)	67	58	56	2	-9	N
S904.3	142	Residential (1)	67	61	59	2	-6	N
S904.4	142	Residential (1)	67	64	62	2	-3	N
S905.1	144	Residential (1)	67	55	52	3	-12	N
S905.2	144	Residential (1)	67	57	55	2	-10	N
S905.3	144	Residential (1)	67	60	58	2	-7	N
S905.4	144	Residential (1)	67	64	62	2	-3	N
S906.1	143	Residential (1)	67	54	52	2	-13	N
S906.2	143	Residential (1)	67	58	55	3	-9	N
S906.3	143	Residential (1)	67	61	59	2	-6	N
S906.4	143	Residential (1)	67	64	62	2	-3	N
S907.1	142	Residential (1)	67	51	49	2	-16	N
S907.2	142	Residential (1)	67	54	52	2	-13	N
S907.3	142	Residential (1)	67	58	55	3	-9	N
S907.4	142	Residential (1)	67	64	63	1	-3	N
S908.1	144	Residential (1)	67	52	51	1	-15	N
S908.2	144	Residential (1)	67	56	54	2	-11	N
S908.3	144	Residential (1)	67	60	58	2	-7	N
S908.4	144	Residential (1)	67	64	63	1	-3	N
S909.2	150	Residential (1)	67	60	58	2	-7	N
S909.3	150	Residential (1)	67	63	60	3	-4	N
S909.4	150	Residential (1)	67	65	63	2	-2	N
S910	130	Residential (1)	67	55	51	4	-12	N
S911.1	159	Residential (1)	67	54	51	3	-13	N
S911.2	159	Residential (1)	67	57	54	3	-10	N
S911.3	159	Residential (1)	67	60	58	2	-7	N
S911.4	159	Residential (1)	67	64	62	2	-3	N
S912	152	Residential (1)	67	53	50	3	-14	N
S913.1	182	Residential (1)	67	50	49	1	-17	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S913.2	182	Residential (1)	67	54	52	2	-13	N
S913.3	182	Residential (1)	67	57	54	3	-10	N
S913.4	182	Residential (1)	67	65	63	2	-2	N
S914.1	191	Residential (1)	67	57	54	3	-10	N
S914.2	191	Residential (1)	67	60	58	2	-7	N
S914.3	191	Residential (1)	67	63	61	2	-4	N
S914.4	191	Residential (1)	67	65	63	2	-2	N
S915	173	Residential (1)	67	53	50	3	-14	N
S916.1	197	Residential (1)	67	57	54	3	-10	N
S916.2	197	Residential (1)	67	61	58	3	-6	N
S916.3	197	Residential (1)	67	63	61	2	-4	N
S916.4	197	Residential (1)	67	65	64	1	-2	N
S917.2	208	Residential (1)	67	58	55	3	-9	N
S917.3	208	Residential (1)	67	61	59	2	-6	N
S917.4	208	Residential (1)	67	64	62	2	-3	N
S918.1	208	Residential (1)	67	52	50	2	-15	N
S918.2	208	Residential (1)	67	55	52	3	-12	N
S918.3	208	Residential (1)	67	57	55	2	-10	N
S918.4	208	Residential (1)	67	65	63	2	-2	N
S919	191	Residential (1)	67	52	49	3	-15	N
S919a	202	Residential (1)	67	59	56	3	-8	N
S920	209	Residential (1)	67	53	50	3	-14	N
S920a	215	Residential (1)	67	64	58	6	-3	N
S921.2	235	Residential (1)	67	58	55	3	-9	N
S921.3	235	Residential (1)	67	62	59	3	-5	N
S921.4	235	Residential (1)	67	64	62	2	-3	N
S922.1	237	Residential (1)	67	57	54	3	-10	N
S922.2	237	Residential (1)	67	61	58	3	-6	N
S922.3	237	Residential (1)	67	64	61	3	-3	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S922.4	237	Residential (1)	67	65	63	2	-2	N
S923.1	234	Residential (1)	67	57	54	3	-10	N
S923.2	234	Residential (1)	67	61	58	3	-6	N
S923.3	234	Residential (1)	67	63	62	1	-4	N
S923.4	234	Residential (1)	67	65	64	1	-2	N
S924	493	Residential (3)	67	60	55	5	-7	N
S925.1	241	Residential (1)	67	52	50	2	-15	N
S925.2	241	Residential (1)	67	55	53	2	-12	N
S925.3	241	Residential (1)	67	58	55	3	-9	N
S925.4	241	Residential (1)	67	65	63	2	-2	N
S926.1	260	Residential (1)	67	57	54	3	-10	N
S926.2	260	Residential (1)	67	61	58	3	-6	N
S926.3	260	Residential (1)	67	63	62	1	-4	N
S926.4	260	Residential (1)	67	65	64	1	-2	N
S927.1	270	Residential (1)	67	57	54	3	-10	N
S927.2	270	Residential (1)	67	61	58	3	-6	N
S927.3	270	Residential (1)	67	64	62	2	-3	N
S927.4	270	Residential (1)	67	65	63	2	-2	N
S928.1	271	Residential (1)	67	56	53	3	-11	N
S928.2	271	Residential (1)	67	59	56	3	-8	N
S928.3	271	Residential (1)	67	63	60	3	-4	N
S928.4	271	Residential (1)	67	64	62	2	-3	N
S929.1	295	Residential (1)	67	57	54	3	-10	N
S929.2	295	Residential (1)	67	61	58	3	-6	N
S929.3	295	Residential (1)	67	63	61	2	-4	N
S929.4	295	Residential (1)	67	65	63	2	-2	N
S930.1	420	Residential (1)	67	54	52	2	-13	N
S930.2	420	Residential (1)	67	57	55	2	-10	N
S930.3	420	Residential (1)	67	61	58	3	-6	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S930.4	420	Residential (1)	67	65	62	3	-2	N
S931.1	425	Residential (1)	67	57	55	2	-10	N
S931.2	425	Residential (1)	67	62	60	2	-5	N
S931.3	425	Residential (1)	67	64	63	1	-3	N
S931.4	425	Residential (1)	67	68	67	1	1	I
S932.1	422	Residential (1)	67	56	54	2	-11	N
S932.2	422	Residential (1)	67	61	59	2	-6	N
S932.3	422	Residential (1)	67	64	62	2	-3	N
S932.4	422	Residential (1)	67	66	65	1	-1	I
S933.1	412	Residential (1)	67	59	56	3	-8	N
S933.2	412	Residential (1)	67	64	62	2	-3	N
S933.3	412	Residential (1)	67	65	64	1	-2	N
S933.4	412	Residential (1)	67	67	66	1	0	I
S934.2	456	Residential (1)	67	56	54	2	-11	N
S934.3	456	Residential (1)	67	60	57	3	-7	N
S934.4	456	Residential (1)	67	65	63	2	-2	N
S935.1	458	Residential (1)	67	58	56	2	-9	N
S935.2	458	Residential (1)	67	63	61	2	-4	N
S935.3	458	Residential (1)	67	65	64	1	-2	N
S935.4	458	Residential (1)	67	69	67	2	2	I
S936.2	467	Residential (1)	67	62	60	2	-5	N
S936.3	467	Residential (1)	67	65	63	2	-2	N
S936.4	467	Residential (1)	67	67	65	2	0	I
S937.2	456	Residential (1)	67	64	63	1	-3	N
S937.3	456	Residential (1)	67	66	64	2	-1	I
S937.4	456	Residential (1)	67	68	67	1	1	I
S938.2	500	Residential (1)	67	55	52	3	-12	N
S938.3	500	Residential (1)	67	58	55	3	-9	N
S938.4	500	Residential (1)	67	68	66	2	1	I

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S939.1	503	Residential (1)	67	60	57	3	-7	N
S939.2	503	Residential (1)	67	64	63	1	-3	N
S939.3	503	Residential (1)	67	67	65	2	0	I
S939.4	503	Residential (1)	67	69	68	1	2	I
S940.1	501	Residential (1)	67	58	55	3	-9	N
S940.2	501	Residential (1)	67	63	61	2	-4	N
S940.3	501	Residential (1)	67	65	64	1	-2	N
S940.4	501	Residential (1)	67	67	66	1	0	I
S941.1	491	Residential (1)	67	61	58	3	-6	N
S941.2	491	Residential (1)	67	65	63	2	-2	N
S941.3	491	Residential (1)	67	66	65	1	-1	I
S941.4	491	Residential (1)	67	69	67	2	2	I
S942	496	Town Center Park (1)	67	66	62	4	-1	I
S943.1	532	Residential (1)	67	47	47	0	-20	N
S943.2	532	Residential (1)	67	51	50	1	-16	N
S943.3	532	Residential (1)	67	55	53	2	-12	N
S943.4	532	Residential (1)	67	69	67	2	2	I
S944.1	544	Residential (1)	67	50	49	1	-17	N
S944.2	544	Residential (1)	67	52	50	2	-15	N
S944.3	544	Residential (1)	67	55	52	3	-12	N
S944.4	544	Residential (1)	67	69	68	1	2	I
S945.1	543	Residential (1)	67	47	48	-1	-20	N
S945.2	543	Residential (1)	67	49	49	0	-18	N
S945.3	543	Residential (1)	67	53	52	1	-14	N
S945.4	543	Residential (1)	67	69	67	2	2	I
S946.1	545	Residential (1)	67	46	48	-2	-21	N
S946.2	545	Residential (1)	67	49	49	0	-18	N
S946.3	545	Residential (1)	67	51	50	1	-16	N
S946.4	545	Residential (1)	67	69	67	2	2	I

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S947.2	545	Residential (1)	67	65	64	1	-2	N
S947.3	545	Residential (1)	67	67	66	1	0	I
S947.4	545	Residential (1)	67	70	68	2	3	I
S948.1	539	Residential (1)	67	60	57	3	-7	N
S948.2	539	Residential (1)	67	65	63	2	-2	N
S948.3	539	Residential (1)	67	67	65	2	0	I
S948.4	539	Residential (1)	67	69	67	2	2	I
S949.1	537	Residential (1)	67	62	59	3	-5	N
S949.2	537	Residential (1)	67	66	65	1	-1	I
S949.3	537	Residential (1)	67	67	66	1	0	I
S949.4	537	Residential (1)	67	69	68	1	2	I
S950.1	509	Residential (1)	67	63	60	3	-4	N
S950.2	509	Residential (1)	67	67	66	1	0	I
S950.3	509	Residential (1)	67	68	66	2	1	I
S950.4	509	Residential (1)	67	70	68	2	3	I
S951.1	499	Residential (1)	67	62	59	3	-5	N
S951.2	499	Residential (1)	67	68	66	2	1	I
S951.3	499	Residential (1)	67	69	67	2	2	I
S951.4	499	Residential (1)	67	70	68	2	3	I
S951a	503	Residential (1)	67	63	60	3	-4	N
S952.1	497	Residential (1)	67	63	60	3	-4	N
S952.2	497	Residential (1)	67	68	66	2	1	I
S952.3	497	Residential (1)	67	68	67	1	1	I
S952.4	497	Residential (1)	67	70	68	2	3	I
S952a	434	Residential (1)	67	65	61	4	-2	N
S953.1	480	Residential (1)	67	64	61	3	-3	N
S953.2	480	Residential (1)	67	69	67	2	2	I
S953.3	480	Residential (1)	67	70	68	2	3	I
S953.4	480	Residential (1)	67	71	69	2	4	I

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S953a	243	Residential (1)	67	68	66	2	1	I
S954.1	478	Residential (1)	67	64	61	3	-3	N
S954.2	478	Residential (1)	67	70	67	3	3	I
S954.3	478	Residential (1)	67	70	68	2	3	I
S954.4	478	Residential (1)	67	71	69	2	4	I
S955.1	477	Residential (1)	67	64	61	3	-3	N
S955.2	477	Residential (1)	67	69	67	2	2	I
S955.3	477	Residential (1)	67	70	68	2	3	I
S955.4	477	Residential (1)	67	71	69	2	4	I
S956.2	474	Residential (1)	67	70	68	2	3	I
S956a	184	Residential (1)	67	72	68	4	5	I
S957.1	475	Residential (1)	67	64	61	3	-3	N
S957.2	475	Residential (1)	67	70	68	2	3	I
S957.3	475	Residential (1)	67	70	68	2	3	I
S957.4	475	Residential (1)	67	71	69	2	4	I
S958	382	Madison Fire Station (1)	52	42	37	5	-10	N
S959	358	Residential (1)	67	68	64	4	1	I
S960	317	Residential (1)	67	66	65	1	-1	I
S961	373	Residential (1)	67	71	71	0	4	I
S962	306	Kennedy Little League (1)	67	68	71	-3	1	I
S963	343	Kennedy Little League (1)	67	67	67	0	0	I
S964	264	Kennedy Little League (1)	67	67	70	-3	0	I
S965	620	Kennedy Little League (1)	67	65	63	2	-2	N
S966	184	Residential (1)	67	69	68	1	2	I
S967	311	Residential (1)	67	65	64	1	-2	N
S969	209	Residential (1)	67	62	56	6	-5	N
S970	156	Residential (1)	67	60	54	6	-7	N
S971	662	Residential (1)	67	64	65	-1	-3	N
S972	736	Residential (1)	67	64	64	0	-3	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S973	535	Restaurant (1)	72	64	64	0	-8	N
S974	449	Restaurant (1)	72	64	63	1	-8	N
S975	212	Residential (1)	67	67	68	-1	0	I
S976	720	Residential (1)	67	63	63	0	-4	N
S977	720	Residential (1)	67	64	63	1	-3	N
S978	395	Residential (1)	67	67	67	0	0	I
S979	678	Residential (2)	67	63	63	0	-4	N
S980	567	Residential (1)	67	64	64	0	-3	N
S981	477	Residential (1)	67	65	65	0	-2	N
S982	349	Holy Cross Lutheran Church (1)	67	66	66	0	-1	I
S983	404	Residential (3)	67	67	66	1	0	I
S984	306	Residential (1)	67	69	68	1	2	I
S985	123	Residential (1)	67	71	70	1	4	I
S986	126	Residential (1)	67	72	71	1	5	I
S987	122	Residential (1)	67	72	71	1	5	I
S988	260	Residential (2)	67	66	65	1	-1	I
S989	378	Residential (2)	67	64	63	1	-3	N
S990	110	Residential (1)	67	72	71	1	5	I
S991	109	Residential (1)	67	72	70	2	5	I
S992	364	Residential (2)	67	62	61	1	-5	N
S993	258	Residential (2)	67	65	64	1	-2	N
S994	106	Residential (1)	67	72	69	3	5	I
S995	104	Residential (1)	67	71	69	2	4	I
S996	396	Residential (1)	67	62	60	2	-5	N
S997	252	Residential (2)	67	64	63	1	-3	N
S998	107	Residential (1)	67	69	67	2	2	I
S999	441	Residential (2)	67	61	59	2	-6	N
S1000	108	Residential (1)	67	69	65	4	2	I
S1001	253	Residential (2)	67	64	62	2	-3	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1002	112	Residential (1)	67	68	64	4	1	I
S1003	371	Residential (2)	67	61	59	2	-6	N
S1004	115	Residential (1)	67	68	64	4	1	I
S1005	256	Residential (1)	67	64	62	2	-3	N
S1006	322	Residential (2)	67	62	59	3	-5	N
S1007	120	Residential (1)	67	68	64	4	1	I
S1008	120	Residential (1)	67	69	64	5	2	I
S1009	422	Residential (3)	67	60	57	3	-7	N
S1010	260	Residential (1)	67	64	62	2	-3	N
S1011	103	Residential (1)	67	77	64	13	10	I
S1012	345	Residential (2)	67	62	58	4	-5	N
S1013	106	Residential (1)	67	75	62	13	8	I
S1014	424	Residential (3)	67	61	58	3	-6	N
S1015	275	Residential (1)	67	64	60	4	-3	N
S1016	103	Residential (1)	67	78	62	16	11	I
S1017	318	Residential (2)	67	64	61	3	-3	N
S1018	121	Residential (1)	67	70	61	9	3	I
S1019	112	Residential (1)	67	72	61	11	5	I
S1020	393	Residential (3)	67	62	59	3	-5	N
S1021	133	Residential (1)	67	68	61	7	1	I
S1022	117	Residential (1)	67	72	62	10	5	I
S1023	262	Residential (2)	67	66	63	3	-1	I
S1024	101	Residential (1)	67	77	62	15	10	I
S1025	411	Residential (3)	67	60	59	1	-7	N
S1026	316	Residential (1)	67	63	61	2	-4	N
S1027	83	Residential (1)	67	79	64	15	12	I
S1028	241	Residential (1)	67	65	63	2	-2	N
S1029	95	Residential (1)	67	79	65	14	12	I
S1030	92	Residential (1)	67	77	65	12	10	I

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1031	84	Residential (1)	67	79	66	13	12	I
S1032	329	Residential (1)	67	63	61	2	-4	N
S1033	92	Residential (1)	67	74	66	8	7	I
S1034	256	Residential (2)	67	66	64	2	-1	I
S1035	88	Residential (1)	67	77	68	9	10	I
S1036	372	Residential (2)	67	63	61	2	-4	N
S1037	60	Residential (1)	67	80	68	12	13	I
S1038	97	Residential (1)	67	70	66	4	3	I
S1039	270	Residential (1)	67	66	64	2	-1	I
S1040	90	Residential (1)	67	66	63	3	-1	I
S1041	140	Residential (1)	67	67	64	3	0	I
S1042	128	Residential (1)	67	66	64	2	-1	I
S1043	305	Residential (1)	67	66	66	0	-1	I
S1044	229	Residential (1)	67	67	66	1	0	I
S1045	269	Residential (1)	67	67	67	0	0	I
S1046	434	Residential (4)	67	66	65	1	-1	I
S1047	258	Residential (1)	67	68	68	0	1	I
S1048	238	Residential (1)	67	69	69	0	2	I
S1049	225	Residential (1)	67	71	71	0	4	I
S1050	412	Residential (2)	67	68	66	2	1	I
S1051	250	Residential (1)	67	72	71	1	5	I
S1052	247	Residential (1)	67	73	71	2	6	I
S1053	433	Residential (2)	67	68	66	2	1	I
S1054	263	Residential (1)	67	73	72	1	6	I
S1055	266	Residential (1)	67	73	72	1	6	I
S1056	263	Residential (1)	67	73	72	1	6	I
S1057	260	Residential (1)	67	73	72	1	6	I
S1058	429	Residential (2)	67	68	66	2	1	I
S1059	260	Residential (1)	67	73	72	1	6	I

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1060	233	Residential (1)	67	74	72	2	7	I
S1061	387	Residential (2)	67	68	66	2	1	I
S1062	215	Residential (1)	67	74	72	2	7	I
S1063	190	Residential (1)	67	74	73	1	7	I
S1064	346	Residential (2)	67	68	66	2	1	I
S1065	152	Residential (1)	67	75	74	1	8	I
S1066	190	Residential (2)	67	72	71	1	5	I
S1067	157	Residential (2)	67	73	72	1	6	I
S1068	321	Residential (2)	67	67	65	2	0	I
S1069	359	Residential (2)	67	62	60	2	-5	N
S1070	196	Residential (2)	67	57	56	1	-10	N
S1071	160	Residential (2)	67	60	58	2	-7	N
S1072	153	Residential (2)	67	64	63	1	-3	N
S1073	165	Residential (2)	67	62	61	1	-5	N
S1074	230	Residential (2)	67	55	54	1	-12	N
S1075	213	Residential (2)	67	56	55	1	-11	N
S1076	359	Residential (2)	67	57	56	1	-10	N
S1077	338	Residential (2)	67	58	56	2	-9	N
S1078.2	368	Residential (2)	67	58	55	3	-9	N
S1079	447	Residential (2)	67	58	57	1	-9	N
S1080a.1	335	Residential (3)	67	61	60	1	-6	N
S1080.2	403	Residential (3)	67	56	54	2	-11	N
S1081a.1	237	Residential (4)	67	51	49	2	-16	N
S1081.2	168	Residential (2)	67	71	67	4	4	I
S1082	489	Residential (2)	67	64	62	2	-3	N
S1083.2	186	Residential (2)	67	68	65	3	1	I
S1084	461	Residential (2)	67	67	65	2	0	I
S1085	179	Residential (2)	67	67	65	2	0	I
S1086	187	Residential (2)	67	70	69	1	3	I

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1087.2	403	Residential (2)	67	71	69	2	4	I
S1088	186	Residential (2)	67	72	71	1	5	I
S1089.2	348	Residential (2)	67	71	69	2	4	I
S1090.2	311	Residential (2)	67	72	70	2	5	I
S1091.2	287	Residential (1)	67	72	71	1	5	I
S1092.2	253	Residential (2)	67	74	72	2	7	I
S1093a.1	379	Residential (4)	67	69	68	1	2	I
S1093.2	351	Residential (4)	67	74	72	2	7	I
S1094.2	339	Residential (2)	67	74	72	2	7	I
S1095	429	Residential (1)	67	63	65	-2	-4	N
S1096	43	Residential (1)	67	73	73	0	6	I
S1097	247	Autumnwood East Bike Path (1)	67	72	71	1	5	I
S1098	175	Business (1)	72	69	69	0	-3	N
S1099	165	Hotel (1)	72	74	72	2	2	I
S1100	170	Restaurant (1)	72	76	75	1	4	I
S1103	232	Hotel (1)	72	71	68	3	-1	I
S1105	557	Hotel (1)	72	63	61	2	-9	N
S1106	508	Restaurant (1)	72	70	70	0	-2	N
S1107	324	Restaurant (1)	72	63	61	2	-9	N
S1108	187	Restaurant (1)	72	68	67	1	-4	N
S1109	210	Restaurant (1)	72	65	66	-1	-7	N
S1110	251	Cardinal Stritch University (1)	67	74	69	5	7	I
S1111	200	Business (1)	72	75	70	5	3	I
S1112	208	Hotel (1)	72	74	71	3	2	I
S1113.2	286	Hotel (1)	72	72	71	1	0	I
S1114	494	Business (1)	72	66	63	3	-6	N
S1115	625	Restaurant (1)	72	66	65	1	-6	N
S1116	367	Hotel (1)	72	65	63	2	-7	N
S1117	67	Daniel Morgan Path (1)	67	70	72	-2	3	I

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1122	438	Residential (1)	67	63	60	3	-4	N
S1123	454	Hotel (1)	72	65	63	2	-7	N
S1124	89	Residential Pool (1)	67	75	72	3	8	I
S1125.1	506	Residential (2)	67	60	57	3	-7	N
S1125.2	506	Residential (2)	67	63	60	3	-4	N
S1126.1	416	Residential (2)	67	66	61	5	-1	I
S1126.2	416	Residential (2)	67	67	64	3	0	I
S1127.1	499	Residential (2)	67	65	60	5	-2	N
S1127.2	499	Residential (2)	67	66	63	3	-1	I
S1128.1	406	Residential (2)	67	68	63	5	1	I
S1128.2	406	Residential (2)	67	68	66	2	1	I
S1129.1	495	Residential (2)	67	64	58	6	-3	N
S1129.2	495	Residential (2)	67	65	61	4	-2	N
S1130.1	402	Residential (2)	67	66	60	6	-1	I
S1130.2	402	Residential (2)	67	67	63	4	0	I
S1131.1	229	Residential (1)	67	70	65	5	3	I
S1131.2	229	Residential (1)	67	70	68	2	3	I
S1132.1	188	Residential (1)	67	71	67	4	4	I
S1132.2	188	Residential (1)	67	72	70	2	5	I
S1133.1	162	Residential (1)	67	72	69	3	5	I
S1133.2	162	Residential (1)	67	73	71	2	6	I
S1134.1	135	Residential (1)	67	73	70	3	6	I
S1134.2	135	Residential (1)	67	74	72	2	7	I
S1135.1	494	Residential (2)	67	62	58	4	-5	N
S1135.2	494	Residential (2)	67	64	61	3	-3	N
S1136.1	402	Residential (2)	67	64	61	3	-3	N
S1136.2	402	Residential (2)	67	67	64	3	0	I
S1137.1	211	Residential (1)	67	72	68	4	5	I
S1137.2	211	Residential (1)	67	73	71	2	6	I

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1138.1	173	Residential (1)	67	73	71	2	6	I
S1138.2	173	Residential (1)	67	74	72	2	7	I
S1139.1	144	Residential (1)	67	74	72	2	7	I
S1139.2	144	Residential (1)	67	75	73	2	8	I
S1140.1	104	Residential (1)	67	76	74	2	9	I
S1140.2	104	Residential (1)	67	77	75	2	10	I
S1141.1	190	Residential (1)	67	74	69	5	7	I
S1141.2	190	Residential (1)	67	74	72	2	7	I
S1142.1	248	Residential (1)	67	61	58	3	-6	N
S1142.2	248	Residential (1)	67	64	61	3	-3	N
S1143.1	508	Residential (2)	67	57	54	3	-10	N
S1143.2	508	Residential (2)	67	60	57	3	-7	N
S1144.1	178	Residential (1)	67	74	70	4	7	I
S1144.2	178	Residential (1)	67	75	73	2	8	I
S1145.1	228	Residential (2)	67	61	58	3	-6	N
S1145.2	228	Residential (2)	67	64	61	3	-3	N
S1146.1	166	Residential (1)	67	74	70	4	7	I
S1146.2	166	Residential (1)	67	75	73	2	8	I
S1147.1	412	Residential (2)	67	58	55	3	-9	N
S1147.2	412	Residential (2)	67	60	57	3	-7	N
S1148.1	155	Residential (1)	67	75	71	4	8	I
S1148.2	155	Residential (1)	67	76	74	2	9	I
S1149.1	212	Residential (2)	67	63	60	3	-4	N
S1149.2	212	Residential (2)	67	65	63	2	-2	N
S1150.1	481	Residential (2)	67	63	60	3	-4	N
S1150.2	481	Residential (2)	67	65	63	2	-2	N
S1151.1	138	Residential (2)	67	76	73	3	9	I
S1151.2	138	Residential (2)	67	76	74	2	9	I
S1152.1	386	Residential (2)	67	64	61	3	-3	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1152.2	386	Residential (2)	67	66	63	3	-1	I
S1153.1	191	Residential (2)	67	64	61	3	-3	N
S1153.2	191	Residential (2)	67	66	63	3	-1	I
S1154.1	128	Residential (1)	67	76	74	2	9	I
S1154.2	128	Residential (1)	67	77	75	2	10	I
S1155.1	119	Residential (1)	67	76	74	2	9	I
S1155.2	119	Residential (1)	67	77	75	2	10	I
S1156.1	168	Residential (2)	67	67	65	2	0	I
S1156.2	168	Residential (2)	67	69	66	3	2	I
S1157.1	102	Residential (1)	67	77	75	2	10	I
S1157.2	102	Residential (1)	67	78	76	2	11	I
S1158.1	190	Residential (1)	67	71	68	3	4	I
S1158.2	190	Residential (1)	67	72	70	2	5	I
S1159.1	252	Residential (1)	67	60	57	3	-7	N
S1159.2	252	Residential (1)	67	63	60	3	-4	N
S1160.1	180	Residential (1)	67	73	69	4	6	I
S1160.2	180	Residential (1)	67	74	72	2	7	I
S1161.1	169	Residential (1)	67	74	70	4	7	I
S1161.2	169	Residential (1)	67	75	73	2	8	I
S1162.1	232	Residential (2)	67	61	58	3	-6	N
S1162.2	232	Residential (2)	67	63	61	2	-4	N
S1163.1	161	Residential (1)	67	75	71	4	8	I
S1163.2	161	Residential (1)	67	76	74	2	9	I
S1164.1	219	Residential (2)	67	62	60	2	-5	N
S1164.2	219	Residential (2)	67	65	63	2	-2	N
S1165.1	146	Residential (2)	67	76	72	4	9	I
S1165.2	146	Residential (2)	67	76	74	2	9	I
S1166.1	202	Residential (2)	67	64	61	3	-3	N
S1166.2	202	Residential (2)	67	67	65	2	0	I

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A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1167.1	138	Residential (1)	67	76	73	3	9	I
S1167.2	138	Residential (1)	67	77	75	2	10	I
S1168.1	128	Residential (1)	67	76	74	2	9	I
S1168.2	128	Residential (1)	67	77	75	2	10	I
S1169.1	417	Residential (2)	67	65	62	3	-2	N
S1169.2	417	Residential (2)	67	67	65	2	0	I
S1170.1	113	Residential (1)	67	77	75	2	10	I
S1170.2	113	Residential (1)	67	78	76	2	11	I
S1171.1	180	Residential (2)	67	69	67	2	2	I
S1171.2	180	Residential (2)	67	71	69	2	4	I
S1172.1	423	Residential (2)	67	67	64	3	0	I
S1172.2	423	Residential (2)	67	69	67	2	2	I
S1173.1	258	Residential (1)	67	70	66	4	3	I
S1173.2	258	Residential (1)	67	71	70	1	4	I
S1174.1	233	Residential (1)	67	71	67	4	4	I
S1174.2	233	Residential (1)	67	72	70	2	5	I
S1175.1	518	Residential (2)	67	61	58	3	-6	N
S1175.2	518	Residential (2)	67	64	62	2	-3	N
S1176.1	203	Residential (2)	67	72	69	3	5	I
S1176.2	203	Residential (2)	67	73	71	2	6	I
S1177.1	279	Residential (1)	67	70	67	3	3	I
S1177.2	279	Residential (1)	67	71	69	2	4	I
S1178.1	171	Residential (2)	67	73	71	2	6	I
S1178.2	171	Residential (2)	67	75	73	2	8	I
S1179.1	252	Residential (1)	67	71	68	3	4	I
S1179.2	252	Residential (1)	67	72	70	2	5	I
S1180.1	517	Residential (2)	67	68	65	3	1	I
S1180.2	517	Residential (2)	67	69	67	2	2	I
S1181.1	148	Residential (1)	67	74	72	2	7	I

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S1181.2	148	Residential (1)	67	75	73	2	8	I
S1182.1	130	Residential (1)	67	75	73	2	8	I
S1182.2	130	Residential (1)	67	76	74	2	9	I
S1183.1	218	Residential (2)	67	72	69	3	5	I
S1183.2	218	Residential (2)	67	73	70	3	6	I
S1184.1	101	Residential (1)	67	77	75	2	10	I
S1184.2	101	Residential (1)	67	78	76	2	11	I
S1185.1	189	Residential (2)	67	73	71	2	6	I
S1185.2	189	Residential (2)	67	74	71	3	7	I
S1186.1	165	Residential (1)	67	73	71	2	6	I
S1186.2	165	Residential (1)	67	74	72	2	7	I
S1187.1	146	Residential (1)	67	74	72	2	7	I
S1187.2	146	Residential (1)	67	75	72	3	8	I
S1188.1	123	Residential (1)	67	76	74	2	9	I
S1188.2	123	Residential (1)	67	77	75	2	10	I
S1189.1	288	Residential (2)	67	73	69	4	6	I
S1189.2	288	Residential (2)	67	74	72	2	7	I
S1190.1	356	Residential (2)	67	70	67	3	3	I
S1190.2	356	Residential (2)	67	73	70	3	6	I
S1191.1	444	Residential (2)	67	68	65	3	1	I
S1191.2	444	Residential (2)	67	71	69	2	4	I
S1192.1	536	Residential (2)	67	65	63	2	-2	N
S1192.2	536	Residential (2)	67	69	67	2	2	I
S1193	527	Residential Pool (1)	67	65	63	2	-2	N
S1194.2	533	Residential (1)	67	66	64	2	-1	I
S1194.3	533	Residential (1)	67	67	64	3	0	I
S1194.4	533	Residential (1)	67	67	65	2	0	I
S1195.1	361	Residential (1)	67	68	65	3	1	I
S1195.2	361	Residential (1)	67	72	69	3	5	I

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1195.3	361	Residential (1)	67	72	70	2	5	I
S1195.4	361	Residential (1)	67	72	70	2	5	I
S1196.1	426	Residential (1)	67	50	49	1	-17	N
S1196.2	426	Residential (1)	67	53	51	2	-14	N
S1196.3	426	Residential (1)	67	55	53	2	-12	N
S1196.4	426	Residential (1)	67	57	55	2	-10	N
S1197.2	594	Residential (1)	67	48	46	2	-19	N
S1197.3	594	Residential (1)	67	50	49	1	-17	N
S1197.4	594	Residential (1)	67	54	52	2	-13	N
S1198.1	345	Residential (2)	67	69	66	3	2	I
S1198.2	345	Residential (2)	67	72	69	3	5	I
S1198.3	345	Residential (2)	67	72	70	2	5	I
S1198.4	345	Residential (2)	67	72	70	2	5	I
S1199.1	581	Residential (1)	67	48	47	1	-19	N
S1199.2	581	Residential (1)	67	47	45	2	-20	N
S1199.3	581	Residential (1)	67	51	49	2	-16	N
S1199.4	581	Residential (1)	67	54	52	2	-13	N
S1200.1	412	Residential (2)	67	49	47	2	-18	N
S1200.2	412	Residential (2)	67	51	49	2	-16	N
S1200.3	412	Residential (2)	67	51	50	1	-16	N
S1200.4	412	Residential (2)	67	53	52	1	-14	N
S1201.1	513	Residential (2)	67	62	59	3	-5	N
S1201.2	513	Residential (2)	67	65	63	2	-2	N
S1201.3	513	Residential (2)	67	66	63	3	-1	I
S1201.4	513	Residential (2)	67	66	64	2	-1	I
S1202.1	326	Residential (2)	67	69	66	3	2	I
S1202.2	326	Residential (2)	67	71	69	2	4	I
S1202.3	326	Residential (2)	67	72	70	2	5	I
S1202.4	326	Residential (2)	67	72	70	2	5	I

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1203.1	179	Residential (1)	67	75	72	3	8	I
S1203.2	179	Residential (1)	67	77	75	2	10	I
S1203.3	179	Residential (1)	67	77	75	2	10	I
S1203.4	179	Residential (1)	67	78	75	3	11	I
S1204.1	560	Residential (2)	67	48	46	2	-19	N
S1204.2	560	Residential (2)	67	46	44	2	-21	N
S1204.3	560	Residential (2)	67	51	49	2	-16	N
S1204.4	560	Residential (2)	67	53	51	2	-14	N
S1205.1	493	Residential (2)	67	60	57	3	-7	N
S1205.2	493	Residential (2)	67	64	61	3	-3	N
S1205.3	493	Residential (2)	67	65	63	2	-2	N
S1205.4	493	Residential (2)	67	65	63	2	-2	N
S1206.1	393	Residential (2)	67	48	46	2	-19	N
S1206.2	393	Residential (2)	67	50	48	2	-17	N
S1206.3	393	Residential (2)	67	52	50	2	-15	N
S1206.4	393	Residential (2)	67	55	54	1	-12	N
S1207.1	321	Residential (2)	67	69	66	3	2	I
S1207.2	321	Residential (2)	67	71	69	2	4	I
S1207.3	321	Residential (2)	67	72	70	2	5	I
S1207.4	321	Residential (2)	67	72	70	2	5	I
S1208.1	281	Residential (2)	67	70	67	3	3	I
S1208.2	281	Residential (2)	67	72	70	2	5	I
S1208.3	281	Residential (2)	67	73	71	2	6	I
S1208.4	281	Residential (2)	67	73	71	2	6	I
S1209.1	245	Residential (2)	67	72	69	3	5	I
S1209.2	245	Residential (2)	67	74	71	3	7	I
S1209.3	245	Residential (2)	67	74	72	2	7	I
S1209.4	245	Residential (2)	67	74	72	2	7	I
S1210.1	206	Residential (1)	67	73	70	3	6	I

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1210.2	206	Residential (1)	67	75	73	2	8	I
S1210.3	206	Residential (1)	67	76	74	2	9	I
S1210.4	206	Residential (1)	67	76	74	2	9	I
S1211.1	595	Residential (2)	67	50	49	1	-17	N
S1211.2	595	Residential (2)	67	50	49	1	-17	N
S1211.3	595	Residential (2)	67	54	52	2	-13	N
S1211.4	595	Residential (2)	67	61	58	3	-6	N
S1212.1	632	Residential (1)	67	51	50	1	-16	N
S1212.2	632	Residential (1)	67	52	50	2	-15	N
S1212.3	632	Residential (1)	67	56	53	3	-11	N
S1212.4	632	Residential (1)	67	62	59	3	-5	N
S1213.1	666	Residential (2)	67	51	49	2	-16	N
S1213.2	666	Residential (2)	67	52	50	2	-15	N
S1213.3	666	Residential (2)	67	54	52	2	-13	N
S1213.4	666	Residential (2)	67	58	55	3	-9	N
S1215.1	702	Residential (1)	67	52	50	2	-15	N
S1215.2	702	Residential (1)	67	54	51	3	-13	N
S1215.3	702	Residential (1)	67	55	53	2	-12	N
S1215.4	702	Residential (1)	67	58	55	3	-9	N
S1223	84	Hidden Creek Path (1)	67	78	74	4	11	I
S1224.1	476	Residential (2)	67	60	57	3	-7	N
S1224.2	476	Residential (2)	67	65	63	2	-2	N
S1224.3	476	Residential (2)	67	66	63	3	-1	I
S1224.4	476	Residential (2)	67	66	64	2	-1	I
S1225.1	376	Residential (2)	67	48	46	2	-19	N
S1225.2	376	Residential (2)	67	49	48	1	-18	N
S1225.3	376	Residential (2)	67	52	50	2	-15	N
S1225.4	376	Residential (2)	67	55	54	1	-12	N
S1226.1	464	Residential (1)	67	64	60	4	-3	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1226.2	464	Residential (1)	67	67	65	2	0	I
S1226.3	464	Residential (1)	67	67	65	2	0	I
S1226.4	464	Residential (1)	67	68	66	2	1	I
S1227.1	275	Residential (1)	67	71	68	3	4	I
S1227.2	275	Residential (1)	67	74	72	2	7	I
S1227.3	275	Residential (1)	67	74	72	2	7	I
S1227.4	275	Residential (1)	67	75	72	3	8	I
S1228.1	642	Residential (1)	67	57	55	2	-10	N
S1228.2	642	Residential (1)	67	61	59	2	-6	N
S1228.3	642	Residential (1)	67	62	60	2	-5	N
S1228.4	642	Residential (1)	67	63	61	2	-4	N
S1229.1	237	Residential (2)	67	73	70	3	6	I
S1229.2	237	Residential (2)	67	75	73	2	8	I
S1229.3	237	Residential (2)	67	75	73	2	8	I
S1229.4	237	Residential (2)	67	76	73	3	9	I
S1230.1	344	Residential (1)	67	68	65	3	1	I
S1230.2	344	Residential (1)	67	71	69	2	4	I
S1230.3	344	Residential (1)	67	72	70	2	5	I
S1230.4	344	Residential (1)	67	72	70	2	5	I
S1231.1	671	Residential (1)	67	57	54	3	-10	N
S1231.2	671	Residential (1)	67	61	58	3	-6	N
S1231.3	671	Residential (1)	67	62	60	2	-5	N
S1231.4	671	Residential (1)	67	63	61	2	-4	N
S1232.1	168	Residential (1)	67	76	73	3	9	I
S1232.2	168	Residential (1)	67	77	75	2	10	I
S1232.3	168	Residential (1)	67	77	75	2	10	I
S1232.4	168	Residential (1)	67	78	75	3	11	I
S1233.1	199	Residential (2)	67	74	71	3	7	I
S1233.2	199	Residential (2)	67	76	74	2	9	I

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1233.3	199	Residential (2)	67	76	74	2	9	I
S1233.4	199	Residential (2)	67	77	74	3	10	I
S1234.1	610	Residential (2)	67	58	56	2	-9	N
S1234.2	610	Residential (2)	67	62	60	2	-5	N
S1234.3	610	Residential (2)	67	63	61	2	-4	N
S1234.4	610	Residential (2)	67	64	62	2	-3	N
S1235.1	535	Residential (2)	67	60	57	3	-7	N
S1235.2	535	Residential (2)	67	64	62	2	-3	N
S1235.3	535	Residential (2)	67	65	63	2	-2	N
S1235.4	535	Residential (2)	67	65	63	2	-2	N
S1236.1	569	Residential (2)	67	59	56	3	-8	N
S1236.2	569	Residential (2)	67	63	60	3	-4	N
S1236.3	569	Residential (2)	67	64	62	2	-3	N
S1236.4	569	Residential (2)	67	64	63	1	-3	N
S1237.1	137	Residential (1)	67	77	75	2	10	I
S1237.2	137	Residential (1)	67	79	77	2	12	I
S1237.3	137	Residential (1)	67	79	77	2	12	I
S1237.4	137	Residential (1)	67	80	77	3	13	I
S1238.1	311	Residential (1)	67	70	67	3	3	I
S1238.2	311	Residential (1)	67	73	71	2	6	I
S1238.3	311	Residential (1)	67	73	71	2	6	I
S1238.4	311	Residential (1)	67	73	71	2	6	I
S1239.1	497	Residential (1)	67	62	59	3	-5	N
S1239.2	497	Residential (1)	67	65	64	1	-2	N
S1239.3	497	Residential (1)	67	66	64	2	-1	I
S1239.4	497	Residential (1)	67	67	65	2	0	I
S1248.1	285	Residential (1)	67	67	64	3	0	I
S1248.2	285	Residential (1)	67	69	67	2	2	I
S1248.3	285	Residential (1)	67	69	67	2	2	I

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1248.4	285	Residential (1)	67	70	68	2	3	I
S1249.1	311	Residential (1)	67	65	62	3	-2	N
S1249.2	311	Residential (1)	67	68	66	2	1	I
S1249.3	311	Residential (1)	67	68	66	2	1	I
S1249.4	311	Residential (1)	67	69	67	2	2	I
S1250.1	320	Residential (1)	67	65	61	4	-2	N
S1250.2	320	Residential (1)	67	67	65	2	0	I
S1250.3	320	Residential (1)	67	68	66	2	1	I
S1250.4	320	Residential (1)	67	68	66	2	1	I
S1251.1	362	Residential (1)	67	64	60	4	-3	N
S1251.2	362	Residential (1)	67	66	64	2	-1	I
S1251.3	362	Residential (1)	67	66	65	1	-1	I
S1251.4	362	Residential (1)	67	67	65	2	0	I
S1252.1	382	Residential (1)	67	63	60	3	-4	N
S1252.2	382	Residential (1)	67	65	64	1	-2	N
S1252.3	382	Residential (1)	67	66	64	2	-1	I
S1252.4	382	Residential (1)	67	66	64	2	-1	I
S1253.1	430	Residential (1)	67	62	57	5	-5	N
S1253.2	430	Residential (1)	67	64	62	2	-3	N
S1253.3	430	Residential (1)	67	65	63	2	-2	N
S1253.4	430	Residential (1)	67	65	63	2	-2	N
S1254.1	452	Residential (1)	67	61	58	3	-6	N
S1254.2	452	Residential (1)	67	64	62	2	-3	N
S1254.3	452	Residential (1)	67	64	62	2	-3	N
S1254.4	452	Residential (1)	67	65	63	2	-2	N
S1255.1	472	Residential (1)	67	61	57	4	-6	N
S1255.2	472	Residential (1)	67	63	61	2	-4	N
S1255.3	472	Residential (1)	67	64	62	2	-3	N
S1255.4	472	Residential (1)	67	64	62	2	-3	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1256.1	397	Residential (1)	67	63	59	4	-4	N
S1256.2	397	Residential (1)	67	65	63	2	-2	N
S1256.3	397	Residential (1)	67	65	64	1	-2	N
S1256.4	397	Residential (1)	67	66	64	2	-1	I
S1257.1	340	Residential (1)	67	64	61	3	-3	N
S1257.2	340	Residential (1)	67	66	65	1	-1	I
S1257.3	340	Residential (1)	67	67	65	2	0	I
S1257.4	340	Residential (1)	67	68	66	2	1	I
S1258.1	244	Residential (1)	67	73	70	3	6	I
S1258.2	244	Residential (1)	67	76	73	3	9	I
S1258.3	244	Residential (1)	67	76	74	2	9	I
S1258.4	244	Residential (1)	67	76	74	2	9	I
S1259.1	513	Residential (1)	67	47	46	1	-20	N
S1259.2	513	Residential (1)	67	47	47	0	-20	N
S1259.3	513	Residential (1)	67	49	49	0	-18	N
S1259.4	513	Residential (1)	67	52	52	0	-15	N
S1260.1	493	Residential (1)	67	48	47	1	-19	N
S1260.2	493	Residential (1)	67	49	47	2	-18	N
S1260.3	493	Residential (1)	67	50	49	1	-17	N
S1260.4	493	Residential (1)	67	53	52	1	-14	N
S1261.1	222	Residential (1)	67	74	72	2	7	I
S1261.2	222	Residential (1)	67	76	74	2	9	I
S1261.3	222	Residential (1)	67	77	75	2	10	I
S1261.4	222	Residential (1)	67	77	75	2	10	I
S1262.1	319	Residential (1)	67	69	66	3	2	I
S1262.2	319	Residential (1)	67	72	70	2	5	I
S1262.3	319	Residential (1)	67	72	70	2	5	I
S1262.4	319	Residential (1)	67	72	70	2	5	I
S1263.1	305	Residential (1)	67	70	66	4	3	I

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1263.2	305	Residential (1)	67	72	70	2	5	I
S1263.3	305	Residential (1)	67	73	71	2	6	I
S1263.4	305	Residential (1)	67	73	71	2	6	I
S1264.1	288	Residential (1)	67	70	67	3	3	I
S1264.2	288	Residential (1)	67	73	71	2	6	I
S1264.3	288	Residential (1)	67	73	71	2	6	I
S1264.4	288	Residential (1)	67	74	72	2	7	I
S1265.1	265	Residential (1)	67	71	69	2	4	I
S1265.2	265	Residential (1)	67	74	72	2	7	I
S1265.3	265	Residential (1)	67	74	72	2	7	I
S1265.4	265	Residential (1)	67	75	72	3	8	I
S1266.1	399	Residential (1)	67	65	62	3	-2	N
S1266.2	399	Residential (1)	67	68	66	2	1	I
S1266.3	399	Residential (1)	67	69	67	2	2	I
S1266.4	399	Residential (1)	67	69	67	2	2	I
S1267.1	384	Residential (1)	67	66	62	4	-1	I
S1267.2	384	Residential (1)	67	69	67	2	2	I
S1267.3	384	Residential (1)	67	69	67	2	2	I
S1267.4	384	Residential (1)	67	70	68	2	3	I
S1268.1	339	Residential (1)	67	68	65	3	1	I
S1268.2	339	Residential (1)	67	71	69	2	4	I
S1268.3	339	Residential (1)	67	71	69	2	4	I
S1268.4	339	Residential (1)	67	72	69	3	5	I
S1269.2	361	Residential (1)	67	70	68	2	3	I
S1269.3	361	Residential (1)	67	70	68	2	3	I
S1269.4	361	Residential (1)	67	71	68	3	4	I
S1270.1	448	Residential (1)	67	63	59	4	-4	N
S1270.2	448	Residential (1)	67	66	64	2	-1	I
S1270.3	448	Residential (1)	67	67	65	2	0	I

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1270.4	448	Residential (1)	67	67	65	2	0	I
S1271.1	419	Residential (1)	67	64	61	3	-3	N
S1271.2	419	Residential (1)	67	67	66	1	0	I
S1271.3	419	Residential (1)	67	68	66	2	1	I
S1271.4	419	Residential (1)	67	68	66	2	1	I
S1272.1	273	Residential (1)	67	70	66	4	3	I
S1272.2	273	Residential (1)	67	73	70	3	6	I
S1272.3	273	Residential (1)	67	73	71	2	6	I
S1272.4	273	Residential (1)	67	73	71	2	6	I
S1274.1	232	Residential (1)	67	72	70	2	5	I
S1274.2	232	Residential (1)	67	75	73	2	8	I
S1274.3	232	Residential (1)	67	75	73	2	8	I
S1274.4	232	Residential (1)	67	75	73	2	8	I
S1276.1	223	Residential (1)	67	74	71	3	7	I
S1276.2	223	Residential (1)	67	76	74	2	9	I
S1276.3	223	Residential (1)	67	77	75	2	10	I
S1276.4	223	Residential (1)	67	77	75	2	10	I
S1277.1	291	Residential (1)	67	50	48	2	-17	N
S1277.2	291	Residential (1)	67	52	50	2	-15	N
S1277.3	291	Residential (1)	67	55	53	2	-12	N
S1277.4	291	Residential (1)	67	60	58	2	-7	N
S1278.1	222	Residential (1)	67	74	71	3	7	I
S1278.2	222	Residential (1)	67	77	74	3	10	I
S1278.3	222	Residential (1)	67	77	75	2	10	I
S1278.4	222	Residential (1)	67	77	75	2	10	I
S1280.1	290	Residential (1)	67	51	48	3	-16	N
S1280.2	290	Residential (1)	67	52	50	2	-15	N
S1280.3	290	Residential (1)	67	55	53	2	-12	N
S1280.4	290	Residential (1)	67	59	57	2	-8	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1281	484	Residential Pickelball Court (1)	67	57	54	3	-10	N
S1282.1	290	Residential (1)	67	51	48	3	-16	N
S1282.2	290	Residential (1)	67	52	50	2	-15	N
S1282.3	290	Residential (1)	67	56	54	2	-11	N
S1282.4	290	Residential (1)	67	60	58	2	-7	N
S1283.1	224	Residential (1)	67	74	71	3	7	I
S1283.2	224	Residential (1)	67	76	74	2	9	I
S1283.3	224	Residential (1)	67	77	75	2	10	I
S1283.4	224	Residential (1)	67	77	75	2	10	I
S1284	330	Residential Pool (1)	67	52	50	2	-15	N
S1286.1	223	Residential (1)	67	74	71	3	7	I
S1286.2	223	Residential (1)	67	76	74	2	9	I
S1286.3	223	Residential (1)	67	77	75	2	10	I
S1286.4	223	Residential (1)	67	77	75	2	10	I
S1287.1	290	Residential (1)	67	51	48	3	-16	N
S1287.2	290	Residential (1)	67	52	50	2	-15	N
S1287.3	290	Residential (1)	67	55	53	2	-12	N
S1287.4	290	Residential (1)	67	60	58	2	-7	N
S1288.1	291	Residential (1)	67	50	48	2	-17	N
S1288.2	291	Residential (1)	67	52	50	2	-15	N
S1288.3	291	Residential (1)	67	55	53	2	-12	N
S1288.4	291	Residential (1)	67	59	57	2	-8	N
S1289.1	331	Residential (1)	67	52	49	3	-15	N
S1289.2	331	Residential (1)	67	52	50	2	-15	N
S1289.3	331	Residential (1)	67	55	53	2	-12	N
S1289.4	331	Residential (1)	67	59	57	2	-8	N
S1290.1	297	Residential (1)	67	51	49	2	-16	N
S1290.2	297	Residential (1)	67	52	51	1	-15	N
S1290.3	297	Residential (1)	67	55	53	2	-12	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1290.4	297	Residential (1)	67	60	58	2	-7	N
S1291.1	222	Residential (1)	67	74	71	3	7	I
S1291.2	222	Residential (1)	67	76	74	2	9	I
S1291.3	222	Residential (1)	67	77	75	2	10	I
S1291.4	222	Residential (1)	67	77	75	2	10	I
S1293.1	357	Residential (1)	67	49	48	1	-18	N
S1293.2	357	Residential (1)	67	49	48	1	-18	N
S1293.3	357	Residential (1)	67	52	50	2	-15	N
S1293.4	357	Residential (1)	67	55	54	1	-12	N
S1295.1	224	Residential (1)	67	73	71	2	6	I
S1295.2	224	Residential (1)	67	76	74	2	9	I
S1295.3	224	Residential (1)	67	77	75	2	10	I
S1295.4	224	Residential (1)	67	77	75	2	10	I
S1296.1	224	Residential (1)	67	73	71	2	6	I
S1296.2	224	Residential (1)	67	76	74	2	9	I
S1296.3	224	Residential (1)	67	77	75	2	10	I
S1296.4	224	Residential (1)	67	77	75	2	10	I
S1297.1	341	Residential (1)	67	52	49	3	-15	N
S1297.2	341	Residential (1)	67	51	49	2	-16	N
S1297.3	341	Residential (1)	67	54	52	2	-13	N
S1297.4	341	Residential (1)	67	57	55	2	-10	N
S1298.1	414	Residential (1)	67	61	59	2	-6	N
S1298.2	414	Residential (1)	67	66	64	2	-1	I
S1298.3	414	Residential (1)	67	66	64	2	-1	I
S1298.4	414	Residential (1)	67	67	65	2	0	I
S1299.1	452	Residential (1)	67	53	52	1	-14	N
S1299.2	452	Residential (1)	67	57	55	2	-10	N
S1299.3	452	Residential (1)	67	58	56	2	-9	N
S1299.4	452	Residential (1)	67	59	58	1	-8	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1300.1	262	Residential (1)	67	70	68	2	3	I
S1300.2	262	Residential (1)	67	73	71	2	6	I
S1300.3	262	Residential (1)	67	74	72	2	7	I
S1300.4	262	Residential (1)	67	74	72	2	7	I
S1301.1	237	Residential (1)	67	71	69	2	4	I
S1301.2	237	Residential (1)	67	75	73	2	8	I
S1301.3	237	Residential (1)	67	75	73	2	8	I
S1301.4	237	Residential (1)	67	76	73	3	9	I
S1302.2	285	Residential (1)	67	72	70	2	5	I
S1302.3	285	Residential (1)	67	73	71	2	6	I
S1302.4	285	Residential (1)	67	73	71	2	6	I
S1303.1	389	Residential (1)	67	64	62	2	-3	N
S1303.2	389	Residential (1)	67	68	67	1	1	I
S1303.3	389	Residential (1)	67	69	67	2	2	I
S1303.4	389	Residential (1)	67	70	67	3	3	I
S1304.1	441	Residential (1)	67	48	49	-1	-19	N
S1304.2	441	Residential (1)	67	51	50	1	-16	N
S1304.3	441	Residential (1)	67	53	52	1	-14	N
S1304.4	441	Residential (1)	67	56	54	2	-11	N
S1305.1	379	Residential (1)	67	65	62	3	-2	N
S1305.2	379	Residential (1)	67	69	67	2	2	I
S1305.3	379	Residential (1)	67	69	67	2	2	I
S1305.4	379	Residential (1)	67	70	68	2	3	I
S1306.1	434	Residential (1)	67	48	49	-1	-19	N
S1306.2	434	Residential (1)	67	52	50	2	-15	N
S1306.3	434	Residential (1)	67	53	52	1	-14	N
S1306.4	434	Residential (1)	67	56	55	1	-11	N
S1307.1	368	Residential (1)	67	65	62	3	-2	N
S1307.2	368	Residential (1)	67	69	67	2	2	I

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1307.3	368	Residential (1)	67	69	67	2	2	I
S1307.4	368	Residential (1)	67	70	68	2	3	I
S1308.1	425	Residential (1)	67	49	50	-1	-18	N
S1308.2	425	Residential (1)	67	52	51	1	-15	N
S1308.3	425	Residential (1)	67	53	52	1	-14	N
S1308.4	425	Residential (1)	67	56	54	2	-11	N
S1309.1	362	Residential (1)	67	65	62	3	-2	N
S1309.2	362	Residential (1)	67	69	67	2	2	I
S1309.3	362	Residential (1)	67	69	67	2	2	I
S1309.4	362	Residential (1)	67	70	68	2	3	I
S1310.1	253	Residential (1)	67	70	68	2	3	I
S1310.2	253	Residential (1)	67	74	72	2	7	I
S1310.3	253	Residential (1)	67	74	72	2	7	I
S1310.4	253	Residential (1)	67	75	72	3	8	I
S1311.1	273	Residential (1)	67	70	67	3	3	I
S1311.2	273	Residential (1)	67	73	71	2	6	I
S1311.3	273	Residential (1)	67	73	71	2	6	I
S1311.4	273	Residential (1)	67	74	71	3	7	I
S1312.1	305	Residential (1)	67	68	65	3	1	I
S1312.2	305	Residential (1)	67	71	69	2	4	I
S1312.3	305	Residential (1)	67	72	70	2	5	I
S1312.4	305	Residential (1)	67	72	70	2	5	I
S1313.1	293	Residential (1)	67	68	66	2	1	I
S1313.2	293	Residential (1)	67	72	70	2	5	I
S1313.3	293	Residential (1)	67	72	70	2	5	I
S1313.4	293	Residential (1)	67	73	70	3	6	I
S1314.1	240	Residential (1)	67	71	69	2	4	I
S1314.2	240	Residential (1)	67	75	73	2	8	I
S1314.3	240	Residential (1)	67	75	73	2	8	I

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1314.4	240	Residential (1)	67	75	73	2	8	I
S1315.1	353	Residential (1)	67	65	63	2	-2	N
S1315.2	353	Residential (1)	67	69	67	2	2	I
S1315.3	353	Residential (1)	67	70	68	2	3	I
S1315.4	353	Residential (1)	67	70	68	2	3	I
S1316	107	Residential Neighborhood Path (1)	67	79	77	2	12	I
S1317.2	321	Residential (1)	67	70	69	1	3	I
S1317.3	321	Residential (1)	67	71	69	2	4	I
S1317.4	321	Residential (1)	67	71	69	2	4	I
S1318.1	191	Residential (1)	67	74	72	2	7	I
S1318.2	191	Residential (1)	67	77	75	2	10	I
S1318.3	191	Residential (1)	67	78	75	3	11	I
S1318.4	191	Residential (1)	67	78	75	3	11	I
S1319.1	414	Residential (1)	67	51	50	1	-16	N
S1319.2	414	Residential (1)	67	52	51	1	-15	N
S1319.3	414	Residential (1)	67	54	53	1	-13	N
S1319.4	414	Residential (1)	67	57	55	2	-10	N
S1320	147	Residential Putting Green (1)	67	77	75	2	10	I
S1321.1	405	Residential (1)	67	51	50	1	-16	N
S1321.2	405	Residential (1)	67	53	51	2	-14	N
S1321.3	405	Residential (1)	67	54	52	2	-13	N
S1321.4	405	Residential (1)	67	56	55	1	-11	N
S1322.1	170	Residential (1)	67	75	73	2	8	I
S1322.2	170	Residential (1)	67	78	75	3	11	I
S1322.3	170	Residential (1)	67	78	76	2	11	I
S1322.4	170	Residential (1)	67	79	77	2	12	I
S1323.1	393	Residential (1)	67	54	51	3	-13	N
S1323.2	393	Residential (1)	67	55	52	3	-12	N
S1323.3	393	Residential (1)	67	57	54	3	-10	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1323.4	393	Residential (1)	67	59	57	2	-8	N
S1324.1	284	Residential (1)	67	67	65	2	0	I
S1324.2	284	Residential (1)	67	71	69	2	4	I
S1324.3	284	Residential (1)	67	73	70	3	6	I
S1324.4	284	Residential (1)	67	74	71	3	7	I
S1325.1	204	Residential (1)	67	71	69	2	4	I
S1325.2	204	Residential (1)	67	75	72	3	8	I
S1325.3	204	Residential (1)	67	76	73	3	9	I
S1325.4	204	Residential (1)	67	76	74	2	9	I
S1326.1	224	Residential (1)	67	69	67	2	2	I
S1326.2	224	Residential (1)	67	74	71	3	7	I
S1326.3	224	Residential (1)	67	75	73	2	8	I
S1326.4	224	Residential (1)	67	76	73	3	9	I
S1327.1	256	Residential (1)	67	68	66	2	1	I
S1327.2	256	Residential (1)	67	73	70	3	6	I
S1327.3	256	Residential (1)	67	74	71	3	7	I
S1327.4	256	Residential (1)	67	75	72	3	8	I
S1328.1	244	Residential (1)	67	68	66	2	1	I
S1328.2	244	Residential (1)	67	73	71	2	6	I
S1328.3	244	Residential (1)	67	74	72	2	7	I
S1328.4	244	Residential (1)	67	75	73	2	8	I
S1329.1	191	Residential (1)	67	72	70	2	5	I
S1329.2	191	Residential (1)	67	76	73	3	9	I
S1329.3	191	Residential (1)	67	76	74	2	9	I
S1329.4	191	Residential (1)	67	77	75	2	10	I
S1330.1	326	Residential (1)	67	65	63	2	-2	N
S1330.2	326	Residential (1)	67	70	68	2	3	I
S1330.3	326	Residential (1)	67	72	69	3	5	I
S1330.4	326	Residential (1)	67	73	70	3	6	I

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1331.1	314	Residential (1)	67	65	63	2	-2	N
S1331.2	314	Residential (1)	67	70	68	2	3	I
S1331.3	314	Residential (1)	67	72	69	3	5	I
S1331.4	314	Residential (1)	67	73	70	3	6	I
S1332.1	353	Residential (1)	67	65	62	3	-2	N
S1332.2	353	Residential (1)	67	69	67	2	2	I
S1332.3	353	Residential (1)	67	71	68	3	4	I
S1332.4	353	Residential (1)	67	72	69	3	5	I
S1333	410	Residential (1)	67	63	61	2	-4	N
S1334	386	Residential (1)	67	65	61	4	-2	N
S1335	301	Residential (1)	67	69	59	10	2	I
S1336	465	Business (1)	72	64	65	-1	-8	N
S1337	312	Business (1)	72	64	62	2	-8	N
S1338.1	170	Business (1)	72	66	65	1	-6	N
S1338.2	170	Business (1)	72	71	69	2	-1	I
S1338.3	170	Business (1)	72	73	70	3	1	I
S1339	292	Hotel (1)	72	62	61	1	-10	N
S1340	224	Hospital (1)	67	61	62	-1	-6	N
S1341	466	Restaurant (1)	72	61	60	1	-11	N
S1342.1	32	Residential (1)	67	60	58	2	-7	N
S1342.2	32	Residential (1)	67	60	59	1	-7	N
S1342.3	32	Residential (1)	67	62	60	2	-5	N
S1342.4	32	Residential (1)	67	63	62	1	-4	N
S1343.1	32	Residential (1)	67	60	58	2	-7	N
S1343.2	32	Residential (1)	67	61	59	2	-6	N
S1343.3	32	Residential (1)	67	62	60	2	-5	N
S1343.4	32	Residential (1)	67	63	62	1	-4	N
S1344.1	33	Residential (1)	67	60	58	2	-7	N
S1344.2	33	Residential (1)	67	61	59	2	-6	N

Impact occurs when future sound levels exceed existing sound levels by 15 dB or more, or, approach/exceed the NLC (“approach” is defined as 1 dB less than the NLC, therefore an impact occurs when Column H is –1 dB or greater). I = Impact, N = No Impact.

Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1344.3	33	Residential (1)	67	62	60	2	-5	N
S1344.4	33	Residential (1)	67	63	62	1	-4	N
S1345.1	35	Residential (1)	67	60	58	2	-7	N
S1345.2	35	Residential (1)	67	61	59	2	-6	N
S1345.3	35	Residential (1)	67	62	60	2	-5	N
S1345.4	35	Residential (1)	67	63	62	1	-4	N
S1346.1	37	Residential (1)	67	60	58	2	-7	N
S1346.2	37	Residential (1)	67	61	59	2	-6	N
S1346.3	37	Residential (1)	67	62	60	2	-5	N
S1346.4	37	Residential (1)	67	63	62	1	-4	N
S1347.1	37	Residential (1)	67	60	57	3	-7	N
S1347.2	37	Residential (1)	67	61	59	2	-6	N
S1347.3	37	Residential (1)	67	62	60	2	-5	N
S1347.4	37	Residential (1)	67	63	62	1	-4	N
S1348.1	37	Residential (1)	67	60	57	3	-7	N
S1348.2	37	Residential (1)	67	61	59	2	-6	N
S1348.3	37	Residential (1)	67	62	60	2	-5	N
S1348.4	37	Residential (1)	67	63	62	1	-4	N
S1349.1	103	Residential (1)	67	47	50	-3	-20	N
S1349.2	103	Residential (1)	67	49	51	-2	-18	N
S1349.3	103	Residential (1)	67	52	53	-1	-15	N
S1349.4	103	Residential (1)	67	62	61	1	-5	N
S1350.1	38	Residential (1)	67	60	58	2	-7	N
S1350.2	38	Residential (1)	67	61	59	2	-6	N
S1350.3	38	Residential (1)	67	62	60	2	-5	N
S1350.4	38	Residential (1)	67	63	62	1	-4	N
S1351.1	39	Residential (1)	67	60	58	2	-7	N
S1351.2	39	Residential (1)	67	61	59	2	-6	N
S1351.3	39	Residential (1)	67	63	61	2	-4	N

Impact occurs when future sound levels exceed existing sound levels by 15 dB or more, or, approach/exceed the NLC ("approach" is defined as 1 dB less than the NLC, therefore an impact occurs when Column H is –1 dB or greater). I = Impact, N = No Impact.

Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1351.4	39	Residential (1)	67	64	62	2	-3	N
S1352.1	153	Residential (1)	67	56	55	1	-11	N
S1352.2	153	Residential (1)	67	57	56	1	-10	N
S1352.3	153	Residential (1)	67	58	58	0	-9	N
S1352.4	153	Residential (1)	67	61	60	1	-6	N
S1353.1	107	Residential (1)	67	43	45	-2	-24	N
S1353.2	107	Residential (1)	67	47	46	1	-20	N
S1353.3	107	Residential (1)	67	51	49	2	-16	N
S1353.4	107	Residential (1)	67	62	61	1	-5	N
S1354.1	43	Residential (1)	67	60	58	2	-7	N
S1354.2	43	Residential (1)	67	62	60	2	-5	N
S1354.3	43	Residential (1)	67	63	61	2	-4	N
S1354.4	43	Residential (1)	67	64	62	2	-3	N
S1355.1	145	Residential (1)	67	55	54	1	-12	N
S1355.2	145	Residential (1)	67	56	55	1	-11	N
S1355.3	145	Residential (1)	67	58	57	1	-9	N
S1355.4	145	Residential (1)	67	62	61	1	-5	N
S1356.1	107	Residential (1)	67	44	45	-1	-23	N
S1356.2	107	Residential (1)	67	47	46	1	-20	N
S1356.3	107	Residential (1)	67	50	49	1	-17	N
S1356.4	107	Residential (1)	67	62	61	1	-5	N
S1357.1	106	Residential (1)	67	47	47	0	-20	N
S1357.2	106	Residential (1)	67	47	46	1	-20	N
S1357.3	106	Residential (1)	67	50	49	1	-17	N
S1357.4	106	Residential (1)	67	62	61	1	-5	N
S1358.2	108	Residential (1)	67	47	46	1	-20	N
S1358.3	108	Residential (1)	67	50	48	2	-17	N
S1358.4	108	Residential (1)	67	62	61	1	-5	N
S1359.1	109	Residential (1)	67	44	45	-1	-23	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1359.2	109	Residential (1)	67	47	46	1	-20	N
S1359.3	109	Residential (1)	67	50	49	1	-17	N
S1359.4	109	Residential (1)	67	63	61	2	-4	N
S1360.1	110	Residential (1)	67	44	46	-2	-23	N
S1360.2	110	Residential (1)	67	47	46	1	-20	N
S1360.3	110	Residential (1)	67	50	49	1	-17	N
S1360.4	110	Residential (1)	67	63	61	2	-4	N
S1361.1	205	Residential (1)	67	53	53	0	-14	N
S1361.2	205	Residential (1)	67	54	55	-1	-13	N
S1361.3	205	Residential (1)	67	56	56	0	-11	N
S1361.4	205	Residential (1)	67	61	60	1	-6	N
S1362.1	112	Residential (1)	67	45	46	-1	-22	N
S1362.2	112	Residential (1)	67	48	47	1	-19	N
S1362.3	112	Residential (1)	67	51	50	1	-16	N
S1362.4	112	Residential (1)	67	63	61	2	-4	N
S1363.1	197	Residential (1)	67	53	51	2	-14	N
S1363.2	197	Residential (1)	67	54	51	3	-13	N
S1363.3	197	Residential (1)	67	57	54	3	-10	N
S1363.4	197	Residential (1)	67	61	60	1	-6	N
S1364.1	111	Residential (1)	67	54	50	4	-13	N
S1364.2	111	Residential (1)	67	55	52	3	-12	N
S1364.3	111	Residential (1)	67	57	55	2	-10	N
S1364.4	111	Residential (1)	67	63	61	2	-4	N
S1365.1	234	Residential (1)	67	52	53	-1	-15	N
S1365.2	234	Residential (1)	67	54	54	0	-13	N
S1365.3	234	Residential (1)	67	56	56	0	-11	N
S1365.4	234	Residential (1)	67	61	60	1	-6	N
S1366.1	224	Residential (1)	67	52	51	1	-15	N
S1366.2	224	Residential (1)	67	54	51	3	-13	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1366.3	224	Residential (1)	67	56	54	2	-11	N
S1366.4	224	Residential (1)	67	61	60	1	-6	N
S1367.1	260	Residential (1)	67	52	53	-1	-15	N
S1367.2	260	Residential (1)	67	54	54	0	-13	N
S1367.3	260	Residential (1)	67	56	56	0	-11	N
S1367.4	260	Residential (1)	67	61	60	1	-6	N
S1368.1	247	Residential (1)	67	52	50	2	-15	N
S1368.2	247	Residential (1)	67	54	51	3	-13	N
S1368.3	247	Residential (1)	67	56	54	2	-11	N
S1368.4	247	Residential (1)	67	61	60	1	-6	N
S1369.1	108	Residential (1)	67	60	57	3	-7	N
S1369.2	108	Residential (1)	67	61	59	2	-6	N
S1369.3	108	Residential (1)	67	63	61	2	-4	N
S1369.4	108	Residential (1)	67	64	62	2	-3	N
S1370.1	284	Residential (1)	67	52	53	-1	-15	N
S1370.2	284	Residential (1)	67	54	54	0	-13	N
S1370.3	284	Residential (1)	67	56	56	0	-11	N
S1370.4	284	Residential (1)	67	61	60	1	-6	N
S1371.1	161	Residential (1)	67	53	51	2	-14	N
S1371.2	161	Residential (1)	67	55	53	2	-12	N
S1371.3	161	Residential (1)	67	57	55	2	-10	N
S1371.4	161	Residential (1)	67	63	61	2	-4	N
S1372.1	298	Residential (1)	67	52	53	-1	-15	N
S1372.2	298	Residential (1)	67	53	54	-1	-14	N
S1372.3	298	Residential (1)	67	55	56	-1	-12	N
S1372.4	298	Residential (1)	67	61	60	1	-6	N
S1373.1	281	Residential (1)	67	52	50	2	-15	N
S1373.2	281	Residential (1)	67	54	51	3	-13	N
S1373.3	281	Residential (1)	67	56	54	2	-11	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1373.4	281	Residential (1)	67	61	60	1	-6	N
S1374.2	297	Residential (1)	67	54	51	3	-13	N
S1374.3	297	Residential (1)	67	56	54	2	-11	N
S1374.4	297	Residential (1)	67	61	59	2	-6	N
S1375.1	97	Residential (1)	67	60	56	4	-7	N
S1375.2	97	Residential (1)	67	61	59	2	-6	N
S1375.3	97	Residential (1)	67	62	60	2	-5	N
S1375.4	97	Residential (1)	67	63	62	1	-4	N
S1376.1	325	Residential (1)	67	51	52	-1	-16	N
S1376.2	325	Residential (1)	67	53	54	-1	-14	N
S1376.3	325	Residential (1)	67	55	55	0	-12	N
S1376.4	325	Residential (1)	67	61	59	2	-6	N
S1377.1	317	Residential (1)	67	52	50	2	-15	N
S1377.2	317	Residential (1)	67	54	51	3	-13	N
S1377.3	317	Residential (1)	67	56	53	3	-11	N
S1377.4	317	Residential (1)	67	61	59	2	-6	N
S1378.1	92	Residential (1)	67	59	55	4	-8	N
S1378.2	92	Residential (1)	67	61	58	3	-6	N
S1378.3	92	Residential (1)	67	62	60	2	-5	N
S1378.4	92	Residential (1)	67	63	61	2	-4	N
S1379.1	354	Residential (1)	67	51	52	-1	-16	N
S1379.2	354	Residential (1)	67	53	54	-1	-14	N
S1379.3	354	Residential (1)	67	55	55	0	-12	N
S1379.4	354	Residential (1)	67	60	59	1	-7	N
S1380.1	167	Residential (1)	67	44	45	-1	-23	N
S1380.2	167	Residential (1)	67	48	47	1	-19	N
S1380.3	167	Residential (1)	67	52	50	2	-15	N
S1380.4	167	Residential (1)	67	63	61	2	-4	N
S1381.1	345	Residential (1)	67	53	50	3	-14	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1381.2	345	Residential (1)	67	54	51	3	-13	N
S1381.3	345	Residential (1)	67	57	54	3	-10	N
S1381.4	345	Residential (1)	67	61	59	2	-6	N
S1382.1	88	Residential (1)	67	59	55	4	-8	N
S1382.2	88	Residential (1)	67	61	58	3	-6	N
S1382.3	88	Residential (1)	67	62	60	2	-5	N
S1382.4	88	Residential (1)	67	63	61	2	-4	N
S1383.1	161	Residential (1)	67	45	45	0	-22	N
S1383.2	161	Residential (1)	67	48	47	1	-19	N
S1383.3	161	Residential (1)	67	51	49	2	-16	N
S1383.4	161	Residential (1)	67	63	61	2	-4	N
S1384.1	84	Residential (1)	67	59	56	3	-8	N
S1384.2	84	Residential (1)	67	61	58	3	-6	N
S1384.3	84	Residential (1)	67	62	60	2	-5	N
S1384.4	84	Residential (1)	67	63	61	2	-4	N
S1385.1	155	Residential (1)	67	45	46	-1	-22	N
S1385.2	155	Residential (1)	67	48	47	1	-19	N
S1385.3	155	Residential (1)	67	51	50	1	-16	N
S1385.4	155	Residential (1)	67	62	61	1	-5	N
S1386.2	405	Residential (1)	67	53	54	-1	-14	N
S1386.3	405	Residential (1)	67	54	55	-1	-13	N
S1386.4	405	Residential (1)	67	60	59	1	-7	N
S1387.1	81	Residential (1)	67	60	56	4	-7	N
S1387.2	81	Residential (1)	67	61	58	3	-6	N
S1387.3	81	Residential (1)	67	62	60	2	-5	N
S1387.4	81	Residential (1)	67	63	61	2	-4	N
S1388.2	397	Residential (1)	67	54	51	3	-13	N
S1388.3	397	Residential (1)	67	57	54	3	-10	N
S1388.4	397	Residential (1)	67	60	59	1	-7	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1389.2	152	Residential (1)	67	48	48	0	-19	N
S1389.3	152	Residential (1)	67	51	50	1	-16	N
S1389.4	152	Residential (1)	67	62	60	2	-5	N
S1390.1	74	Residential (1)	67	60	56	4	-7	N
S1390.2	74	Residential (1)	67	61	59	2	-6	N
S1390.3	74	Residential (1)	67	62	60	2	-5	N
S1390.4	74	Residential (1)	67	63	61	2	-4	N
S1391.1	147	Residential (1)	67	46	46	0	-21	N
S1391.2	147	Residential (1)	67	49	48	1	-18	N
S1391.3	147	Residential (1)	67	52	51	1	-15	N
S1391.4	147	Residential (1)	67	62	60	2	-5	N
S1392.1	69	Residential (1)	67	60	57	3	-7	N
S1392.2	69	Residential (1)	67	61	59	2	-6	N
S1392.3	69	Residential (1)	67	62	60	2	-5	N
S1392.4	69	Residential (1)	67	63	61	2	-4	N
S1393.1	141	Residential (1)	67	46	46	0	-21	N
S1393.2	141	Residential (1)	67	49	48	1	-18	N
S1393.3	141	Residential (1)	67	53	52	1	-14	N
S1393.4	141	Residential (1)	67	62	60	2	-5	N
S1394.1	66	Residential (1)	67	60	56	4	-7	N
S1394.2	66	Residential (1)	67	61	59	2	-6	N
S1394.3	66	Residential (1)	67	62	60	2	-5	N
S1394.4	66	Residential (1)	67	63	61	2	-4	N
S1395.1	137	Residential (1)	67	47	46	1	-20	N
S1395.2	137	Residential (1)	67	49	48	1	-18	N
S1395.3	137	Residential (1)	67	53	52	1	-14	N
S1395.4	137	Residential (1)	67	62	60	2	-5	N
S1396.2	492	Residential (1)	67	53	51	2	-14	N
S1396.3	492	Residential (1)	67	57	56	1	-10	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1396.4	492	Residential (1)	67	60	58	2	-7	N
S1397.1	57	Residential (1)	67	60	57	3	-7	N
S1397.2	57	Residential (1)	67	61	59	2	-6	N
S1397.3	57	Residential (1)	67	62	60	2	-5	N
S1397.4	57	Residential (1)	67	63	61	2	-4	N
S1398.1	124	Residential (1)	67	46	46	0	-21	N
S1398.2	124	Residential (1)	67	48	48	0	-19	N
S1398.3	124	Residential (1)	67	52	52	0	-15	N
S1398.4	124	Residential (1)	67	62	60	2	-5	N
S1399.1	494	Residential (1)	67	51	49	2	-16	N
S1399.2	494	Residential (1)	67	53	51	2	-14	N
S1399.3	494	Residential (1)	67	57	55	2	-10	N
S1399.4	494	Residential (1)	67	60	58	2	-7	N
S1400.2	552	Residential (1)	67	44	48	-4	-23	N
S1400.3	552	Residential (1)	67	47	50	-3	-20	N
S1400.4	552	Residential (1)	67	59	58	1	-8	N
S1401.1	476	Residential (1)	67	51	49	2	-16	N
S1401.2	476	Residential (1)	67	53	52	1	-14	N
S1401.3	476	Residential (1)	67	57	55	2	-10	N
S1401.4	476	Residential (1)	67	60	58	2	-7	N
S1402.1	273	Residential (1)	67	51	50	1	-16	N
S1402.2	273	Residential (1)	67	53	52	1	-14	N
S1402.3	273	Residential (1)	67	58	56	2	-9	N
S1402.4	273	Residential (1)	67	61	59	2	-6	N
S1403.1	120	Residential (1)	67	52	51	1	-15	N
S1403.2	120	Residential (1)	67	55	53	2	-12	N
S1403.3	120	Residential (1)	67	57	56	1	-10	N
S1403.4	120	Residential (1)	67	62	60	2	-5	N
S1404.1	245	Residential (1)	67	52	50	2	-15	N

Impact occurs when future sound levels exceed existing sound levels by 15 dB or more, or, approach/exceed the NLC ("approach" is defined as 1 dB less than the NLC, therefore an impact occurs when Column H is –1 dB or greater). I = Impact, N = No Impact.

Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1404.2	245	Residential (1)	67	53	52	1	-14	N
S1404.3	245	Residential (1)	67	58	56	2	-9	N
S1404.4	245	Residential (1)	67	61	59	2	-6	N
S1405.2	189	Residential (1)	67	53	52	1	-14	N
S1405.3	189	Residential (1)	67	57	56	1	-10	N
S1405.4	189	Residential (1)	67	61	59	2	-6	N
S1406.1	217	Residential (1)	67	52	50	2	-15	N
S1406.2	217	Residential (1)	67	53	52	1	-14	N
S1406.3	217	Residential (1)	67	58	56	2	-9	N
S1406.4	217	Residential (1)	67	61	59	2	-6	N
S1407.1	146	Residential (1)	67	51	50	1	-16	N
S1407.2	146	Residential (1)	67	54	52	2	-13	N
S1407.3	146	Residential (1)	67	57	56	1	-10	N
S1407.4	146	Residential (1)	67	62	60	2	-5	N
S1408.1	326	Residential (1)	67	51	49	2	-16	N
S1408.2	326	Residential (1)	67	53	52	1	-14	N
S1408.3	326	Residential (1)	67	57	55	2	-10	N
S1408.4	326	Residential (1)	67	60	59	1	-7	N
S1409.1	60	Residential (1)	67	59	56	3	-8	N
S1409.2	60	Residential (1)	67	60	58	2	-7	N
S1409.3	60	Residential (1)	67	61	59	2	-6	N
S1409.4	60	Residential (1)	67	62	60	2	-5	N
S1410.1	169	Residential (1)	67	51	50	1	-16	N
S1410.2	169	Residential (1)	67	53	52	1	-14	N
S1410.3	169	Residential (1)	67	57	56	1	-10	N
S1410.4	169	Residential (1)	67	62	60	2	-5	N
S1411.1	551	Residential (1)	67	37	45	-8	-30	N
S1411.2	551	Residential (1)	67	42	46	-4	-25	N
S1411.3	551	Residential (1)	67	47	49	-2	-20	N

Impact occurs when future sound levels exceed existing sound levels by 15 dB or more, or, approach/exceed the NLC ("approach" is defined as 1 dB less than the NLC, therefore an impact occurs when Column H is –1 dB or greater). I = Impact, N = No Impact.

Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1411.4	551	Residential (1)	67	60	58	2	-7	N
S1412.1	463	Residential (1)	67	51	49	2	-16	N
S1412.2	463	Residential (1)	67	54	52	2	-13	N
S1412.3	463	Residential (1)	67	57	56	1	-10	N
S1412.4	463	Residential (1)	67	60	58	2	-7	N
S1413.1	451	Residential (1)	67	51	49	2	-16	N
S1413.2	451	Residential (1)	67	54	52	2	-13	N
S1413.3	451	Residential (1)	67	57	55	2	-10	N
S1413.4	451	Residential (1)	67	60	58	2	-7	N
S1414.1	535	Residential (1)	67	37	45	-8	-30	N
S1414.2	535	Residential (1)	67	43	46	-3	-24	N
S1414.3	535	Residential (1)	67	49	49	0	-18	N
S1414.4	535	Residential (1)	67	60	58	2	-7	N
S1415.1	438	Residential (1)	67	51	49	2	-16	N
S1415.2	438	Residential (1)	67	55	52	3	-12	N
S1415.3	438	Residential (1)	67	57	55	2	-10	N
S1415.4	438	Residential (1)	67	60	58	2	-7	N
S1416.2	522	Residential (1)	67	42	46	-4	-25	N
S1416.3	522	Residential (1)	67	47	48	-1	-20	N
S1416.4	522	Residential (1)	67	60	58	2	-7	N
S1417.1	513	Residential (1)	67	37	44	-7	-30	N
S1417.2	513	Residential (1)	67	43	46	-3	-24	N
S1417.3	513	Residential (1)	67	49	49	0	-18	N
S1417.4	513	Residential (1)	67	60	58	2	-7	N
S1418.1	326	Residential (1)	67	52	48	4	-15	N
S1418.2	326	Residential (1)	67	52	49	3	-15	N
S1418.3	326	Residential (1)	67	53	51	2	-14	N
S1418.4	326	Residential (1)	67	61	59	2	-6	N
S1419.1	422	Residential (1)	67	52	50	2	-15	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1419.2	422	Residential (1)	67	55	52	3	-12	N
S1419.3	422	Residential (1)	67	58	56	2	-9	N
S1419.4	422	Residential (1)	67	60	58	2	-7	N
S1420.1	273	Residential (1)	67	52	49	3	-15	N
S1420.2	273	Residential (1)	67	53	49	4	-14	N
S1420.3	273	Residential (1)	67	53	50	3	-14	N
S1420.4	273	Residential (1)	67	61	59	2	-6	N
S1421.1	198	Residential (1)	67	53	49	4	-14	N
S1421.2	198	Residential (1)	67	53	50	3	-14	N
S1421.3	198	Residential (1)	67	54	52	2	-13	N
S1421.4	198	Residential (1)	67	61	59	2	-6	N
S1422.1	255	Residential (1)	67	53	49	4	-14	N
S1422.2	255	Residential (1)	67	53	49	4	-14	N
S1422.3	255	Residential (1)	67	54	51	3	-13	N
S1422.4	255	Residential (1)	67	61	59	2	-6	N
S1423.1	181	Residential (1)	67	53	49	4	-14	N
S1423.2	181	Residential (1)	67	53	50	3	-14	N
S1423.3	181	Residential (1)	67	54	52	2	-13	N
S1423.4	181	Residential (1)	67	61	59	2	-6	N
S1424.1	230	Residential (1)	67	53	49	4	-14	N
S1424.2	230	Residential (1)	67	53	50	3	-14	N
S1424.3	230	Residential (1)	67	54	51	3	-13	N
S1424.4	230	Residential (1)	67	61	59	2	-6	N
S1425.1	157	Residential (1)	67	54	50	4	-13	N
S1425.2	157	Residential (1)	67	54	50	4	-13	N
S1425.3	157	Residential (1)	67	55	52	3	-12	N
S1425.4	157	Residential (1)	67	62	60	2	-5	N
S1426.1	63	Residential (1)	67	56	53	3	-11	N
S1426.2	63	Residential (1)	67	57	54	3	-10	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1426.3	63	Residential (1)	67	58	55	3	-9	N
S1426.4	63	Residential (1)	67	62	60	2	-5	N
S1427.1	131	Residential (1)	67	54	50	4	-13	N
S1427.2	131	Residential (1)	67	54	51	3	-13	N
S1427.3	131	Residential (1)	67	55	52	3	-12	N
S1427.4	131	Residential (1)	67	62	60	2	-5	N
S1428.1	105	Residential (1)	67	54	51	3	-13	N
S1428.2	105	Residential (1)	67	54	51	3	-13	N
S1428.3	105	Residential (1)	67	55	52	3	-12	N
S1428.4	105	Residential (1)	67	62	60	2	-5	N
S1429.1	406	Residential (1)	67	54	51	3	-13	N
S1429.2	406	Residential (1)	67	56	53	3	-11	N
S1429.3	406	Residential (1)	67	58	56	2	-9	N
S1429.4	406	Residential (1)	67	60	58	2	-7	N
S1430.1	494	Residential (1)	67	39	45	-6	-28	N
S1430.2	494	Residential (1)	67	44	46	-2	-23	N
S1430.3	494	Residential (1)	67	50	50	0	-17	N
S1430.4	494	Residential (1)	67	59	58	1	-8	N
S1431.1	476	Residential (1)	67	39	44	-5	-28	N
S1431.2	476	Residential (1)	67	44	46	-2	-23	N
S1431.3	476	Residential (1)	67	48	49	-1	-19	N
S1431.4	476	Residential (1)	67	59	58	1	-8	N
S1432.1	457	Residential (1)	67	39	44	-5	-28	N
S1432.2	457	Residential (1)	67	44	46	-2	-23	N
S1432.3	457	Residential (1)	67	48	49	-1	-19	N
S1432.4	457	Residential (1)	67	59	57	2	-8	N
S1433.1	371	Residential (1)	67	53	51	2	-14	N
S1433.2	371	Residential (1)	67	56	54	2	-11	N
S1433.3	371	Residential (1)	67	57	56	1	-10	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1433.4	371	Residential (1)	67	60	58	2	-7	N
S1434	126	Event Center (1)	67	57	53	4	-10	N
S1435.1	421	Residential (1)	67	46	46	0	-21	N
S1435.2	421	Residential (1)	67	49	48	1	-18	N
S1435.3	421	Residential (1)	67	52	50	2	-15	N
S1435.4	421	Residential (1)	67	59	58	1	-8	N
S1465a.1	382	Residential (1)	67	64	60	4	-3	N
S1465a.2	382	Residential (1)	67	66	63	3	-1	I
S1465b.1	412	Residential (1)	67	61	58	3	-6	N
S1465b.2	412	Residential (1)	67	63	59	4	-4	N
S1465c.1	446	Residential (1)	67	63	59	4	-4	N
S1465c.2	446	Residential (1)	67	65	61	4	-2	N
S1465d.1	472	Residential (1)	67	59	56	3	-8	N
S1465d.2	472	Residential (1)	67	61	57	4	-6	N
S1471.1	536	Residential (1)	67	61	57	4	-6	N
S1471.2	536	Residential (1)	67	62	59	3	-5	N
S1471a.1	541	Residential (1)	67	61	57	4	-6	N
S1471a.2	541	Residential (1)	67	62	58	4	-5	N
S1480a.1	420	Residential (1)	67	64	60	4	-3	N
S1480a.2	420	Residential (1)	67	66	62	4	-1	I
S1480b.1	451	Residential (1)	67	59	55	4	-8	N
S1480b.2	451	Residential (1)	67	61	57	4	-6	N
S1480c.1	478	Residential (1)	67	62	58	4	-5	N
S1480c.2	478	Residential (1)	67	64	60	4	-3	N
S1480d.1	525	Residential (1)	67	55	53	2	-12	N
S1480d.2	525	Residential (1)	67	57	54	3	-10	N
S1483	328	Residential (1)	67	65	60	5	-2	N
S1484.2	355	Residential (1)	67	67	63	4	0	I
S1485.1	356	Residential (1)	67	59	57	2	-8	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1485.2	356	Residential (1)	67	63	61	2	-4	N
S1486a.1	431	Residential (1)	67	63	59	4	-4	N
S1486a.2	431	Residential (1)	67	65	61	4	-2	N
S1486b.1	465	Residential (1)	67	56	55	1	-11	N
S1486b.2	465	Residential (1)	67	58	57	1	-9	N
S1486c.1	494	Residential (1)	67	62	58	4	-5	N
S1486c.2	494	Residential (1)	67	63	60	3	-4	N
S1486d.1	524	Residential (1)	67	55	54	1	-12	N
S1486d.2	524	Residential (1)	67	57	56	1	-10	N
S1487.1	387	Residential (1)	67	63	59	4	-4	N
S1487.2	387	Residential (1)	67	66	63	3	-1	I
S1487.3	387	Residential (1)	67	68	66	2	1	I
S1488.1	363	Residential (1)	67	64	61	3	-3	N
S1488.2	363	Residential (1)	67	67	64	3	0	I
S1488.3	363	Residential (1)	67	69	67	2	2	I
S1489.1	346	Residential (1)	67	64	61	3	-3	N
S1489.2	346	Residential (1)	67	68	65	3	1	I
S1489.3	346	Residential (1)	67	70	68	2	3	I
S1490.1	326	Residential (1)	67	65	62	3	-2	N
S1490.2	326	Residential (1)	67	68	66	2	1	I
S1490.3	326	Residential (1)	67	70	68	2	3	I
S1491.1	326	Residential (1)	67	65	62	3	-2	N
S1491.2	326	Residential (1)	67	68	66	2	1	I
S1491.3	326	Residential (1)	67	70	68	2	3	I
S1492.1	327	Residential (1)	67	64	62	2	-3	N
S1492.2	327	Residential (1)	67	68	65	3	1	I
S1492.3	327	Residential (1)	67	70	68	2	3	I
S1493.1	441	Residential (1)	67	47	46	1	-20	N
S1493.2	441	Residential (1)	67	49	48	1	-18	N

Impact occurs when future sound levels exceed existing sound levels by 15 dB or more, or, approach/exceed the NLC (“approach” is defined as 1 dB less than the NLC, therefore an impact occurs when Column H is –1 dB or greater). I = Impact, N = No Impact.

Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1493.3	441	Residential (1)	67	54	53	1	-13	N
S1494.1	329	Residential (1)	67	64	61	3	-3	N
S1494.2	329	Residential (1)	67	67	65	2	0	I
S1494.3	329	Residential (1)	67	70	67	3	3	I
S1495.1	404	Residential (1)	67	47	46	1	-20	N
S1495.2	404	Residential (1)	67	50	49	1	-17	N
S1495.3	404	Residential (1)	67	55	53	2	-12	N
S1496	518	Residential Pool (1)	67	58	54	4	-9	N
S1497.1	407	Residential (1)	67	46	45	1	-21	N
S1497.2	407	Residential (1)	67	50	48	2	-17	N
S1497.3	407	Residential (1)	67	57	55	2	-10	N
S1498.1	338	Residential (1)	67	63	61	2	-4	N
S1498.2	338	Residential (1)	67	67	65	2	0	I
S1498.3	338	Residential (1)	67	70	67	3	3	I
S1499.1	338	Residential (1)	67	63	61	2	-4	N
S1499.2	338	Residential (1)	67	67	64	3	0	I
S1499.3	338	Residential (1)	67	70	67	3	3	I
S1500.1	337	Residential (1)	67	63	62	1	-4	N
S1500.2	337	Residential (1)	67	67	64	3	0	I
S1500.3	337	Residential (1)	67	71	68	3	4	I
S1501.1	416	Residential (1)	67	47	46	1	-20	N
S1501.2	416	Residential (1)	67	50	49	1	-17	N
S1501.3	416	Residential (1)	67	55	54	1	-12	N
S1502.1	340	Residential (1)	67	63	61	2	-4	N
S1502.2	340	Residential (1)	67	67	64	3	0	I
S1502.3	340	Residential (1)	67	71	68	3	4	I
S1503.1	419	Residential (1)	67	46	45	1	-21	N
S1503.2	419	Residential (1)	67	49	49	0	-18	N
S1503.3	419	Residential (1)	67	54	53	1	-13	N

Impact occurs when future sound levels exceed existing sound levels by 15 dB or more, or, approach/exceed the NLC (“approach” is defined as 1 dB less than the NLC, therefore an impact occurs when Column H is –1 dB or greater). I = Impact, N = No Impact.

Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1504.1	376	Residential (1)	67	61	59	2	-6	N
S1504.2	376	Residential (1)	67	66	64	2	-1	I
S1504.3	376	Residential (1)	67	70	67	3	3	I
S1505.1	394	Residential (1)	67	61	59	2	-6	N
S1505.2	394	Residential (1)	67	66	64	2	-1	I
S1505.3	394	Residential (1)	67	70	67	3	3	I
S1506.1	459	Residential (1)	67	48	47	1	-19	N
S1506.2	459	Residential (1)	67	50	49	1	-17	N
S1506.3	459	Residential (1)	67	55	54	1	-12	N
S1507.1	422	Residential (1)	67	59	57	2	-8	N
S1507.2	422	Residential (1)	67	65	63	2	-2	N
S1507.3	422	Residential (1)	67	69	66	3	2	I
S1508	151	Token Creek Path (1)	67	77	77	0	10	I
S1509	264	Residential (1)	67	72	69	3	5	I
S1510	585	Living Stone of Jesus (1)	67	66	64	2	-1	I
S1511	444	Residential (1)	67	67	65	2	0	I
S1512	8	Residential (1)	67	70	71	-1	3	I
S1513	1,174	Residential (1)	67	61	60	1	-6	N
S1514	250	Residential (1)	67	69	64	5	2	I
S1515	436	Residential (1)	67	64	60	4	-3	N
S1516	243	Residential (1)	67	67	62	5	0	I
S1517	367	Vallarta-Ast Disc Golf Course (1)	67	63	59	4	-4	N
S1518	258	Vallarta-Ast Disc Golf Course (1)	67	66	62	4	-1	I
S1519	191	Vallarta-Ast Disc Golf Course (1)	67	68	63	5	1	I
S1520	203	Vallarta-Ast Disc Golf Course (1)	67	68	64	4	1	I
S1521	519	Vallarta-Ast Disc Golf Course (1)	67	62	59	3	-5	N
S1522	208	Vallarta-Ast Disc Golf Course (1)	67	70	67	3	3	I
S1523	433	Vallarta-Ast Disc Golf Course (1)	67	65	63	2	-2	N
S1524	410	Vallarta-Ast Disc Golf Course (1)	67	69	67	2	2	I

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1525	497	Token Creek Park (1)	67	62	59	3	-5	N
S1526	161	Restaurant (1)	72	71	67	4	-1	I
S1548	232	Residential (1)	67	73	72	1	6	I
S1549	368	Residential (2)	67	68	67	1	1	I
S1549a	525	Residential (1)	67	64	63	1	-3	N
S1549b	623	Residential (1)	67	63	62	1	-4	N
S1549c	698	Residential (1)	67	62	61	1	-5	N
S1550	437	Residential (2)	67	66	64	2	-1	I
S1550a	609	Residential (1)	67	63	62	1	-4	N
S1551	202	Residential (1)	67	76	74	2	9	I
S1552	272	Residential (1)	67	72	71	1	5	I
S1553	323	Residential (1)	67	70	68	2	3	I
S1554	261	Residential (1)	67	73	71	2	6	I
S1555	351	Residential (1)	67	68	66	2	1	I
S1555a	478	Residential (1)	67	66	64	2	-1	I
S1556	482	Residential (1)	67	66	65	1	-1	I
S1557	459	Residential (1)	67	66	66	0	-1	I
S1558	479	Green Acres Pet Resort (1)	72	71	69	2	-1	I
S1559	669	Business (1)	72	64	63	1	-8	N
S1560	301	Restaurant (1)	72	69	69	0	-3	N
S1561	259	Hotel (1)	72	70	71	-1	-2	N
S1562	286	Residential (1)	67	71	70	1	4	I
S1563	249	Residential (1)	67	67	65	2	0	I
S1564	394	Residential (1)	67	64	63	1	-3	N
S1565	178	Residential (1)	67	70	69	1	3	I
S1566	527	Residential (1)	67	61	61	0	-6	N
S1567	129	Residential (1)	67	74	73	1	7	I
S1568	146	Residential (1)	67	75	75	0	8	I
S1569	150	Residential (1)	67	76	75	1	9	I

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1570	235	Lake Windsor Country Club Golf Course (1)	67	72	71	1	5	I
S1571	186	Lake Windsor Country Club Golf Course (1)	67	75	73	2	8	I
S1572	388	Lake Windsor Country Club Golf Course (1)	67	67	66	1	0	I
S1573	166	Lake Windsor Country Club Golf Course (1)	67	73	73	0	6	I
S1574	399	Lake Windsor Country Club Golf Course (1)	67	67	66	1	0	I
S1575	143	Lake Windsor Country Club Golf Course (1)	67	76	75	1	9	I
S1576	240	Lake Windsor Country Club Golf Course (1)	67	72	71	1	5	I
S1577	194	Lake Windsor Country Club Golf Course (1)	67	72	71	1	5	I
S1578	155	Lake Windsor Country Club Golf Course (1)	67	75	74	1	8	I
S1579	350	Residential (1)	67	70	68	2	3	I
S1580	206	Residential (1)	67	74	73	1	7	I
S1581	509	Residential (1)	67	67	65	2	0	I
S1582	197	Residential (1)	67	75	74	1	8	I
S1583	352	Residential (1)	67	69	69	0	2	I
S1584	475	Residential (1)	67	66	65	1	-1	I
S1585	474	DeForest Athletic Complex (1)	67	64	63	1	-3	N
S1586	245	DeForest Athletic Complex (1)	67	73	72	1	6	I
S1587	249	DeForest Athletic Complex (1)	67	73	72	1	6	I
S1588	167	PinSeekers DeForest (1)	72	71	70	1	-1	I
S1589	377	Residential (1)	67	66	66	0	-1	I
S1590	620	Residential (1)	67	62	61	1	-5	N
S1591	413	Residential (1)	67	65	65	0	-2	N
S1592	776	Restaurant (1)	72	66	65	1	-6	N
S1593	429	Residential (1)	67	65	64	1	-2	N
S1594	515	Residential (1)	67	63	63	0	-4	N
S1595	289	Residential (1)	67	66	65	1	-1	I
S1596	543	Residential (1)	67	65	64	1	-2	N
S1597	492	Residential (1)	67	68	66	2	1	I
S1598	106	Residential (1)	67	79	77	2	12	I

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1599	255	Residential (1)	67	73	72	1	6	I
S1600	455	Residential (1)	67	68	67	1	1	I
S1601	346	Residential (1)	67	70	69	1	3	I
S1602	539	Residential (1)	67	66	65	1	-1	I
S1603	173	Residential (1)	67	76	74	2	9	I
S1604	208	Residential (1)	67	71	70	1	4	I
S1605	294	Residential (1)	67	69	68	1	2	I
S1606	521	Residential (2)	67	67	66	1	0	I
S1607	714	Residential (2)	67	65	63	2	-2	N
S1608	570	Residential (1)	67	61	64	-3	-6	N
S1609	657	Residential (1)	67	59	60	-1	-8	N
S1610	440	Residential (1)	67	65	64	1	-2	N
S1611	435	Residential (1)	67	65	65	0	-2	N
S1612	720	Residential (1)	67	63	62	1	-4	N
S1613.2	550	Residential (1)	67	65	62	3	-2	N
S1614.2	528	Residential (1)	67	65	62	3	-2	N
S1615	785	Residential (2)	67	58	55	3	-9	N
S1616	737	Residential (4)	67	59	58	1	-8	N
S1617	120	Residential (1)	67	77	77	0	10	I
S1618	448	Residential (6)	67	61	59	2	-6	N
S1619	457	Residential (2)	67	59	57	2	-8	N
S1620	264	Residential (1)	67	68	67	1	1	I
S1621	241	Residential (1)	67	55	52	3	-12	N
S1622	174	Residential (1)	67	56	52	4	-11	N
S1623	374	Residential (1)	67	54	51	3	-13	N
S1624.1	473	Residential (2)	67	69	68	1	2	I
S1624.2	473	Residential (2)	67	71	70	1	4	I
S1625.1	503	Residential (2)	67	69	68	1	2	I
S1625.2	503	Residential (2)	67	71	70	1	4	I

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1625.3	503	Residential (2)	67	73	71	2	6	I
S1626.1	501	Residential (2)	67	69	68	1	2	I
S1626.2	501	Residential (2)	67	72	70	2	5	I
S1626.3	501	Residential (2)	67	73	71	2	6	I
S1627.1	523	Residential (2)	67	69	68	1	2	I
S1627.2	523	Residential (2)	67	71	70	1	4	I
S1627.3	523	Residential (2)	67	72	71	1	5	I
S1628.1	509	Residential (2)	67	69	68	1	2	I
S1628.2	509	Residential (2)	67	72	70	2	5	I
S1628.3	509	Residential (2)	67	73	71	2	6	I
S1629.1	510	Residential (2)	67	69	68	1	2	I
S1629.2	510	Residential (2)	67	70	69	1	3	I
S1629.3	510	Residential (2)	67	73	71	2	6	I
S1630.1	483	Residential (2)	67	61	57	4	-6	N
S1630.2	483	Residential (2)	67	61	59	2	-6	N
S1630.3	483	Residential (2)	67	62	60	2	-5	N
S1631.1	410	Residential (3)	67	61	57	4	-6	N
S1631.2	410	Residential (3)	67	62	59	3	-5	N
S1631.3	410	Residential (3)	67	62	60	2	-5	N
S1632.1	384	Residential (2)	67	61	57	4	-6	N
S1632.2	384	Residential (2)	67	62	59	3	-5	N
S1632.3	384	Residential (2)	67	62	60	2	-5	N
S1633.1	367	Residential (3)	67	61	57	4	-6	N
S1633.2	367	Residential (3)	67	62	59	3	-5	N
S1633.3	367	Residential (3)	67	62	60	2	-5	N
S1634.1	443	Residential (3)	67	59	55	4	-8	N
S1634.2	443	Residential (3)	67	61	57	4	-6	N
S1634.3	443	Residential (3)	67	62	59	3	-5	N
S1635	240	Hospital (1)	52	44	43	1	-8	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1636	114	Goodman Path (1)	67	72	69	3	5	I
S1637.1	117	Residential (9)	67	73	71	2	6	I
S1637.2	117	Residential (8)	67	76	71	5	9	I
S1638.1	185	Residential (8)	67	60	59	1	-7	N
S1638.2	185	Residential (8)	67	62	61	1	-5	N
S1639.1	114	Residential (9)	67	74	71	3	7	I
S1639.2	114	Residential (8)	67	76	72	4	9	I
S1640.1	178	Residential (8)	67	62	59	3	-5	N
S1640.2	178	Residential (9)	67	64	62	2	-3	N
S1641.1	83	Residential (8)	67	76	72	4	9	I
S1641.2	83	Residential (9)	67	77	75	2	10	I
S1642.1	150	Residential (8)	67	64	62	2	-3	N
S1642.2	150	Residential (9)	67	62	58	4	-5	N
S1643.1	80	Residential (9)	67	77	73	4	10	I
S1643.2	80	Residential (8)	67	78	76	2	11	I
S1644.1	146	Residential (9)	67	67	63	4	0	I
S1644.2	146	Residential (8)	67	68	67	1	1	I
S1645a.2	1,345	Residential (4)	67	68	67	1	1	I
S1645a.3	1,345	Residential (4)	67	68	67	1	1	I
S1645a.4	1,345	Residential (4)	67	69	67	2	2	I
S1645b.2	1,278	Residential (1)	67	66	65	1	-1	I
S1645b.3	1,278	Residential (1)	67	66	65	1	-1	I
S1645b.4	1,278	Residential (1)	67	67	65	2	0	I
S1645c.2	1,441	Residential (1)	67	65	64	1	-2	N
S1645c.3	1,441	Residential (1)	67	65	64	1	-2	N
S1645c.4	1,441	Residential (1)	67	65	64	1	-2	N
S1645d.2	1,375	Residential (4)	67	56	54	2	-11	N
S1645d.3	1,375	Residential (4)	67	57	56	1	-10	N
S1645d.4	1,375	Residential (4)	67	59	57	2	-8	N

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1645e	1,468	Residential (1)	67	66	65	1	-1	I
S1646	757	Residential (1)	67	60	58	2	-7	N
S1647	512	Residential (2)	67	65	65	0	-2	N
S1648	663	Residential (1)	67	64	63	1	-3	N
S1700.1	472	Residential (1)	67	67	66	1	0	I
S1700.2	472	Residential (1)	67	68	67	1	1	I
S1700.3	472	Residential (1)	67	68	68	0	1	I
S1700.4	472	Residential (1)	67	70	69	1	3	I
S1701.1	427	Residential (2)	67	67	67	0	0	I
S1701.2	427	Residential (2)	67	68	67	1	1	I
S1701.3	427	Residential (2)	67	69	68	1	2	I
S1701.4	427	Residential (2)	67	71	69	2	4	I
S1702.1	381	Residential (2)	67	68	67	1	1	I
S1702.2	381	Residential (2)	67	69	68	1	2	I
S1702.3	381	Residential (2)	67	70	69	1	3	I
S1702.4	381	Residential (2)	67	71	70	1	4	I
S1703.1	333	Residential (2)	67	69	68	1	2	I
S1703.2	333	Residential (2)	67	70	69	1	3	I
S1703.3	333	Residential (2)	67	72	70	2	5	I
S1703.4	333	Residential (2)	67	73	72	1	6	I
S1704.1	308	Residential (2)	67	69	68	1	2	I
S1704.2	308	Residential (2)	67	71	69	2	4	I
S1704.3	308	Residential (2)	67	72	71	1	5	I
S1704.4	308	Residential (2)	67	74	73	1	7	I
S1705.1	313	Residential (2)	67	69	68	1	2	I
S1705.2	313	Residential (2)	67	70	69	1	3	I
S1705.3	313	Residential (2)	67	72	71	1	5	I
S1705.4	313	Residential (2)	67	73	73	0	6	I
S1706.1	338	Residential (2)	67	69	68	1	2	I

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Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1706.2	338	Residential (2)	67	70	69	1	3	I
S1706.3	338	Residential (2)	67	71	71	0	4	I
S1706.4	338	Residential (2)	67	73	72	1	6	I
S1707.1	377	Residential (2)	67	68	67	1	1	I
S1707.2	377	Residential (2)	67	69	69	0	2	I
S1707.3	377	Residential (2)	67	70	70	0	3	I
S1707.4	377	Residential (2)	67	73	72	1	6	I
S1708.1	418	Residential (2)	67	68	67	1	1	I
S1708.2	418	Residential (2)	67	69	69	0	2	I
S1708.3	418	Residential (2)	67	70	70	0	3	I
S1708.4	418	Residential (2)	67	73	71	2	6	I
S1709.1	455	Residential (2)	67	68	67	1	1	I
S1709.2	455	Residential (2)	67	69	68	1	2	I
S1709.3	455	Residential (2)	67	69	70	-1	2	I
S1709.4	455	Residential (2)	67	73	71	2	6	I
S1710.1	495	Residential (1)	67	68	67	1	1	I
S1710.2	495	Residential (1)	67	68	68	0	1	I
S1710.3	495	Residential (1)	67	69	69	0	2	I
S1710.4	495	Residential (1)	67	72	71	1	5	I
S1711.1	488	Residential (3)	67	56	55	1	-11	N
S1711.2	488	Residential (3)	67	57	56	1	-10	N
S1711.3	488	Residential (3)	67	60	58	2	-7	N
S1711.4	488	Residential (3)	67	66	64	2	-1	I
S1712.1	425	Residential (2)	67	56	55	1	-11	N
S1712.2	425	Residential (2)	67	56	55	1	-11	N
S1712.3	425	Residential (2)	67	60	58	2	-7	N
S1712.4	425	Residential (2)	67	65	64	1	-2	N
S1713.1	388	Residential (2)	67	55	54	1	-12	N
S1713.2	388	Residential (2)	67	56	55	1	-11	N

Impact occurs when future sound levels exceed existing sound levels by 15 dB or more, or, approach/exceed the NLC ("approach" is defined as 1 dB less than the NLC, therefore an impact occurs when Column H is –1 dB or greater). I = Impact, N = No Impact.

Table C-1: South Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
S1713.3	388	Residential (2)	67	59	58	1	-8	N
S1713.4	388	Residential (2)	67	65	63	2	-2	N
S1714.1	419	Residential (2)	67	56	55	1	-11	N
S1714.2	419	Residential (2)	67	56	55	1	-11	N
S1714.3	419	Residential (2)	67	60	59	1	-7	N
S1714.4	419	Residential (2)	67	65	64	1	-2	N
S1715.1	480	Residential (2)	67	56	55	1	-11	N
S1715.2	480	Residential (2)	67	57	56	1	-10	N
S1715.3	480	Residential (2)	67	61	59	2	-6	N
S1715.4	480	Residential (2)	67	68	66	2	1	I
S1716.1	522	Residential (3)	67	57	56	1	-10	N
S1716.2	522	Residential (3)	67	58	56	2	-9	N
S1716.3	522	Residential (3)	67	61	59	2	-6	N
S1716.4	522	Residential (3)	67	68	66	2	1	I
S1717	461	Residential Garden Area (1)	67	63	59	4	-4	N

Impact occurs when future sound levels exceed existing sound levels by 15 dB or more, or, approach/exceed the NLC (“approach” is defined as 1 dB less than the NLC, therefore an impact occurs when Column H is –1 dB or greater). I = Impact, N = No Impact.

Table C-2: North Section Summary of Receiver Data

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
N1	1,032	Residential (1)	67	62	60	2	-5	N
N2	548	Residential (1)	67	65	64	1	-2	N
N3	417	Residential (1)	67	71	69	2	4	I
N4	329	Residential (1)	67	72	71	1	5	I
N5	357	Residential (1)	67	70	69	1	3	I
N6	325	Residential (1)	67	71	70	1	4	I
N7	298	Residential (1)	67	69	70	-1	2	I
N8	391	Residential (1)	67	72	70	2	5	I
N9	198	Residential (1)	67	71	75	-4	4	I
N10	264	Residential (1)	67	69	71	-2	2	I
N11	204	Residential (1)	67	65	73	-8	-2	N
N12	507	Residential (1)	67	64	65	-1	-3	N
N13	576	Residential (1)	67	64	64	0	-3	N
N14	261	Residential (1)	67	73	73	0	6	I
N15	221	Residential (1)	67	74	74	0	7	I
N16	239	Residential (1)	67	73	74	-1	6	I
N17	241	Residential (1)	67	73	73	0	6	I
N18	600	Residential (1)	67	64	64	0	-3	N
N19	405	Residential (1)	67	71	69	2	4	I
N20	661	Residential (1)	67	63	62	1	-4	N
N21	403	Rest Area 12 Playground (1)	67	70	68	2	3	I
N22	529	Portage Rest Area 11 Playground (1)	67	67	66	1	0	I
N23	297	Residential (1)	67	59	59	0	-8	N
N24	351	Residential (1)	67	72	70	2	5	I
N25	291	Residential (1)	67	61	66	-5	-6	N
N26	550	Residential (1)	67	59	60	-1	-8	N
N27	103	Residential (1)	67	52	53	-1	-15	N
N28	79	Residential (1)	67	52	52	0	-15	N
N29	109	Residential (1)	67	51	51	0	-16	N

Impact occurs when future sound levels exceed existing sound levels by 15 dB or more, or, approach/exceed the NLC ("approach" is defined as 1 dB less than the NLC, therefore an impact occurs when Column H is –1 dB or greater). I = Impact, N = No Impact.

Table C-2: North Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
N30	586	Residential (1)	67	60	60	0	-7	N
N31	519	Residential (1)	67	54	54	0	-13	N
N32	236	Residential (1)	67	54	54	0	-13	N
N33	421	Outdoor Eating Area/Ski Resort (1)	72	63	61	2	-9	N
N34	365	Wayside Park (1)	67	62	61	1	-5	N
N35	200	Residential (1)	67	71	71	0	4	I
N36	347	Residential (1)	67	69	68	1	2	I
N37	370	Residential (1)	67	63	65	-2	-4	N
N38	562	Residential (1)	67	61	62	-1	-6	N
N39	543	Residential (1)	67	64	63	1	-3	N
N40	608	Residential (1)	67	63	61	2	-4	N
N41	537	Residential (1)	67	65	64	1	-2	N
N42	387	Residential (1)	67	60	59	1	-7	N
N43	170	Residential (1)	67	63	62	1	-4	N
N44	333	Residential (1)	67	71	70	1	4	I
N45	76	Residential (1)	67	59	58	1	-8	N
N46	56	Residential (1)	67	56	56	0	-11	N
N47	372	Residential (1)	67	67	66	1	0	I
N48	1,728	Residential (1)	67	56	54	2	-11	N
N49	115	Residential (1)	67	67	65	2	0	I
N50	356	Residential (1)	67	67	67	0	0	I
N51	185	Residential (1)	67	72	72	0	5	I
N52	368	Residential (1)	67	65	66	-1	-2	N
N53	222	Kalahari Outdoor Water Park (1)	72	68	68	0	-4	N
N54	208	Residential (1)	67	70	68	2	3	I
N55	120	Great Wolf Lodge Outdoor Waterpark (1)	72	66	63	3	-6	N
N56.1	215	Residential (1)	67	72	72	0	5	I
N56.2	215	Residential (1)	67	75	74	1	8	I
N56.3	215	Residential (1)	67	75	75	0	8	I

Impact occurs when future sound levels exceed existing sound levels by 15 dB or more, or, approach/exceed the NLC ("approach" is defined as 1 dB less than the NLC, therefore an impact occurs when Column H is –1 dB or greater). I = Impact, N = No Impact.

Table C-2: North Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
N56.4	215	Residential (1)	67	75	75	0	8	I
N57.1	210	Residential (1)	67	72	72	0	5	I
N57.2	210	Residential (1)	67	75	75	0	8	I
N57.3	210	Residential (1)	67	75	75	0	8	I
N57.4	210	Residential (1)	67	75	75	0	8	I
N58.1	202	Residential (1)	67	72	72	0	5	I
N58.2	202	Residential (1)	67	75	75	0	8	I
N58.3	202	Residential (1)	67	75	75	0	8	I
N58.4	202	Residential (1)	67	75	75	0	8	I
N59.1	196	Residential (1)	67	73	73	0	6	I
N59.2	196	Residential (1)	67	75	75	0	8	I
N59.3	196	Residential (1)	67	75	75	0	8	I
N59.4	196	Residential (1)	67	75	75	0	8	I
N60.1	190	Residential (1)	67	73	73	0	6	I
N60.2	190	Residential (1)	67	75	75	0	8	I
N60.3	190	Residential (1)	67	75	75	0	8	I
N60.4	190	Residential (1)	67	76	75	1	9	I
N61.1	184	Residential (1)	67	73	74	-1	6	I
N61.2	184	Residential (1)	67	75	75	0	8	I
N61.3	184	Residential (1)	67	76	75	1	9	I
N61.4	184	Residential (1)	67	76	76	0	9	I
N62.1	178	Residential (1)	67	73	74	-1	6	I
N62.2	178	Residential (1)	67	76	75	1	9	I
N62.3	178	Residential (1)	67	76	76	0	9	I
N62.4	178	Residential (1)	67	76	76	0	9	I
N63.1	173	Residential (1)	67	73	74	-1	6	I
N63.2	173	Residential (1)	67	76	76	0	9	I
N63.3	173	Residential (1)	67	76	76	0	9	I
N63.4	173	Residential (1)	67	76	76	0	9	I

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Table C-2: North Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
N64.1	306	Residential (1)	67	48	48	0	-19	N
N64.2	306	Residential (1)	67	50	50	0	-17	N
N64.3	306	Residential (1)	67	52	52	0	-15	N
N64.4	306	Residential (1)	67	53	53	0	-14	N
N65.1	299	Residential (1)	67	49	50	-1	-18	N
N65.2	299	Residential (1)	67	50	51	-1	-17	N
N65.3	299	Residential (1)	67	52	53	-1	-15	N
N65.4	299	Residential (1)	67	54	54	0	-13	N
N66.1	293	Residential (1)	67	49	50	-1	-18	N
N66.2	293	Residential (1)	67	51	52	-1	-16	N
N66.3	293	Residential (1)	67	53	54	-1	-14	N
N66.4	293	Residential (1)	67	54	55	-1	-13	N
N67.1	287	Residential (1)	67	49	50	-1	-18	N
N67.2	287	Residential (1)	67	51	52	-1	-16	N
N67.3	287	Residential (1)	67	53	54	-1	-14	N
N67.4	287	Residential (1)	67	55	55	0	-12	N
N68.1	281	Residential (1)	67	50	50	0	-17	N
N68.2	281	Residential (1)	67	51	52	-1	-16	N
N68.3	281	Residential (1)	67	54	54	0	-13	N
N68.4	281	Residential (1)	67	55	56	-1	-12	N
N69.1	275	Residential (1)	67	50	51	-1	-17	N
N69.2	275	Residential (1)	67	52	53	-1	-15	N
N69.3	275	Residential (1)	67	54	55	-1	-13	N
N69.4	275	Residential (1)	67	56	56	0	-11	N
N70.1	269	Residential (1)	67	50	51	-1	-17	N
N70.2	269	Residential (1)	67	53	54	-1	-14	N
N70.3	269	Residential (1)	67	55	56	-1	-12	N
N70.4	269	Residential (1)	67	57	57	0	-10	N
N71.1	263	Residential (1)	67	52	54	-2	-15	N

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Table C-2: North Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
N71.2	263	Residential (1)	67	57	57	0	-10	N
N71.3	263	Residential (1)	67	59	58	1	-8	N
N71.4	263	Residential (1)	67	59	59	0	-8	N
N72	157	Yogi Bear's Jellystone Park of Wisconsin Dells (1)	67	77	75	2	10	I
N73	136	Yogi Bear's Jellystone Park of Wisconsin Dells (1)	67	77	75	2	10	I
N74	157	Yogi Bear's Jellystone Park of Wisconsin Dells (1)	67	74	72	2	7	I
N75	180	Yogi Bear's Jellystone Park of Wisconsin Dells (1)	67	74	73	1	7	I
N76	174	Yogi Bear's Jellystone Park of Wisconsin Dells (1)	67	74	73	1	7	I
N77	173	Yogi Bear's Jellystone Park of Wisconsin Dells (1)	67	72	71	1	5	I
N78	169	Yogi Bear's Jellystone Park of Wisconsin Dells (1)	67	72	71	1	5	I
N79	167	Yogi Bear's Jellystone Park of Wisconsin Dells (1)	67	73	72	1	6	I
N80	168	Yogi Bear's Jellystone Park of Wisconsin Dells (1)	67	73	73	0	6	I
N81	179	Yogi Bear's Jellystone Park of Wisconsin Dells (1)	67	73	72	1	6	I
N82	157	Yogi Bear's Jellystone Park of Wisconsin Dells (1)	67	75	74	1	8	I
N83	154	Yogi Bear's Jellystone Park of Wisconsin Dells (1)	67	75	74	1	8	I
N84	153	Yogi Bear's Jellystone Park of Wisconsin Dells (1)	67	75	74	1	8	I
N85	155	Yogi Bear's Jellystone Park of Wisconsin Dells (1)	67	75	75	0	8	I
N86	159	Yogi Bear's Jellystone Park of Wisconsin Dells (1)	67	75	74	1	8	I
N87	259	Ishnala Trail (1)	67	70	71	-1	3	I
N89	135	Camp Delton Club (1)	67	75	76	-1	8	I
N90	103	Camp Delton Club (1)	67	76	78	-2	9	I
N91	107	Camp Delton Club (1)	67	76	78	-2	9	I
N92	109	Camp Delton Club (1)	67	76	78	-2	9	I
N93	107	Camp Delton Club (1)	67	77	78	-1	10	I
N94	119	Camp Delton Club (1)	67	76	78	-2	9	I
N95	104	Camp Delton Club (1)	67	77	78	-1	10	I
N96	112	Camp Delton Club (1)	67	77	78	-1	10	I
N97	303	Camp Delton Club (1)	67	67	67	0	0	I
N98	516	Residential (1)	67	68	64	4	1	I

Impact occurs when future sound levels exceed existing sound levels by 15 dB or more, or, approach/exceed the NLC ("approach" is defined as 1 dB less than the NLC, therefore an impact occurs when Column H is –1 dB or greater). I = Impact, N = No Impact.

Table C-2: North Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
N99	431	Residential (1)	67	67	66	1	0	I
N100	631	Residential (1)	67	55	61	-6	-12	N
N101	178	Residential (1)	67	64	63	1	-3	N
N102	305	Delton Family Medical Center (1)	52	44	43	1	-8	N
N103	183	DaVita Lake Delton Dialysis (1)	52	42	39	3	-10	N
N104	340	Residential (1)	67	64	63	1	-3	N
N105	495	Residential (1)	67	63	62	1	-4	N
N106	271	JCC Chicago - Camp Chi (1)	67	64	64	0	-3	N
N107.1	429	Residential (1)	67	61	61	0	-6	N
N107.2	429	Residential (1)	67	66	65	1	-1	I
N108.1	418	Residential (1)	67	61	59	2	-6	N
N108.2	418	Residential (1)	67	66	64	2	-1	I
N109.1	496	Residential (1)	67	45	44	1	-22	N
N109.2	496	Residential (1)	67	47	46	1	-20	N
N110.1	482	Residential (1)	67	46	45	1	-21	N
N110.2	482	Residential (1)	67	47	46	1	-20	N
N111.1	661	Residential (1)	67	52	50	2	-15	N
N111.2	661	Residential (1)	67	56	55	1	-11	N
N112.1	647	Residential (1)	67	55	54	1	-12	N
N112.2	647	Residential (1)	67	60	59	1	-7	N
N113.1	725	Residential (1)	67	43	42	1	-24	N
N113.2	725	Residential (1)	67	45	44	1	-22	N
N114.1	712	Residential (1)	67	44	43	1	-23	N
N114.2	712	Residential (1)	67	45	43	2	-22	N
N115.1	512	Residential (1)	67	56	54	2	-11	N
N115.2	512	Residential (1)	67	63	61	2	-4	N
N116.1	536	Residential (1)	67	57	54	3	-10	N
N116.2	536	Residential (1)	67	62	61	1	-5	N
N117.1	570	Residential (1)	67	56	54	2	-11	N

Impact occurs when future sound levels exceed existing sound levels by 15 dB or more, or, approach/exceed the NLC ("approach" is defined as 1 dB less than the NLC, therefore an impact occurs when Column H is –1 dB or greater). I = Impact, N = No Impact.

Table C-2: North Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
N117.2	570	Residential (1)	67	62	61	1	-5	N
N118.1	596	Residential (1)	67	56	54	2	-11	N
N118.2	596	Residential (1)	67	62	61	1	-5	N
N119.1	481	Residential (1)	67	56	55	1	-11	N
N119.2	481	Residential (1)	67	62	61	1	-5	N
N120.1	509	Residential (1)	67	56	54	2	-11	N
N120.2	509	Residential (1)	67	62	60	2	-5	N
N121.1	534	Residential (1)	67	56	54	2	-11	N
N121.2	534	Residential (1)	67	61	61	0	-6	N
N122.1	564	Residential (1)	67	57	56	1	-10	N
N122.2	564	Residential (1)	67	62	61	1	-5	N
N123.1	228	Residential (1)	67	51	50	1	-16	N
N123.2	228	Residential (1)	67	57	57	0	-10	N
N124.1	234	Residential (1)	67	49	47	2	-18	N
N124.2	234	Residential (1)	67	52	50	2	-15	N
N125.1	241	Residential (1)	67	48	46	2	-19	N
N125.2	241	Residential (1)	67	51	50	1	-16	N
N126.1	250	Residential (1)	67	48	46	2	-19	N
N126.2	250	Residential (1)	67	52	50	2	-15	N
N127.1	158	Residential (1)	67	75	74	1	8	I
N127.2	158	Residential (1)	67	76	76	0	9	I
N128.1	168	Residential (1)	67	74	74	0	7	I
N128.2	168	Residential (1)	67	76	75	1	9	I
N129.1	175	Residential (1)	67	73	73	0	6	I
N129.2	175	Residential (1)	67	76	75	1	9	I
N130.1	180	Residential (1)	67	73	73	0	6	I
N130.2	180	Residential (1)	67	75	75	0	8	I
N131.1	386	Residential (1)	67	59	59	0	-8	N
N131.2	386	Residential (1)	67	65	64	1	-2	N

Impact occurs when future sound levels exceed existing sound levels by 15 dB or more, or, approach/exceed the NLC ("approach" is defined as 1 dB less than the NLC, therefore an impact occurs when Column H is –1 dB or greater). I = Impact, N = No Impact.

Table C-2: North Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
N132.1	384	Residential (1)	67	58	58	0	-9	N
N132.2	384	Residential (1)	67	64	64	0	-3	N
N133.1	383	Residential (1)	67	57	57	0	-10	N
N133.2	383	Residential (1)	67	63	62	1	-4	N
N134.1	382	Residential (1)	67	55	55	0	-12	N
N134.2	382	Residential (1)	67	61	60	1	-6	N
N135.1	449	Residential (1)	67	48	47	1	-19	N
N135.2	449	Residential (1)	67	48	47	1	-19	N
N136.1	448	Residential (1)	67	46	44	2	-21	N
N136.2	448	Residential (1)	67	47	45	2	-20	N
N137.1	446	Residential (1)	67	46	44	2	-21	N
N137.2	446	Residential (1)	67	47	45	2	-20	N
N138.1	444	Residential (1)	67	47	45	2	-20	N
N138.2	444	Residential (1)	67	47	46	1	-20	N
N139.1	184	Residential (1)	67	73	73	0	6	I
N139.2	184	Residential (1)	67	75	75	0	8	I
N140.1	183	Residential (1)	67	73	73	0	6	I
N140.2	183	Residential (1)	67	75	75	0	8	I
N141.1	182	Residential (1)	67	73	73	0	6	I
N141.2	182	Residential (1)	67	75	75	0	8	I
N142.1	181	Residential (1)	67	73	73	0	6	I
N142.2	181	Residential (1)	67	75	74	1	8	I
N143.1	257	Residential (1)	67	46	45	1	-21	N
N143.2	257	Residential (1)	67	49	48	1	-18	N
N144.1	256	Residential (1)	67	46	45	1	-21	N
N144.2	256	Residential (1)	67	48	47	1	-19	N
N145.1	254	Residential (1)	67	46	45	1	-21	N
N145.2	254	Residential (1)	67	47	46	1	-20	N
N146.1	254	Residential (1)	67	46	45	1	-21	N

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Table C-2: North Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
N146.2	254	Residential (1)	67	47	47	0	-20	N
N147.1	176	Residential (1)	67	74	74	0	7	I
N147.2	176	Residential (1)	67	75	75	0	8	I
N148.1	178	Residential (1)	67	74	74	0	7	I
N148.2	178	Residential (1)	67	75	75	0	8	I
N149.1	178	Residential (1)	67	74	74	0	7	I
N149.2	178	Residential (1)	67	76	75	1	9	I
N150.1	179	Residential (1)	67	74	74	0	7	I
N150.2	179	Residential (1)	67	75	75	0	8	I
N151.1	250	Residential (1)	67	45	44	1	-22	N
N151.2	250	Residential (1)	67	48	47	1	-19	N
N152.1	249	Residential (1)	67	47	46	1	-20	N
N152.2	249	Residential (1)	67	48	47	1	-19	N
N153.1	250	Residential (1)	67	47	46	1	-20	N
N153.2	250	Residential (1)	67	48	47	1	-19	N
N154.1	252	Residential (1)	67	45	45	0	-22	N
N154.2	252	Residential (1)	67	48	47	1	-19	N
N155.1	369	Residential (1)	67	54	54	0	-13	N
N155.2	369	Residential (1)	67	62	61	1	-5	N
N156.1	370	Residential (1)	67	54	57	-3	-13	N
N156.2	370	Residential (1)	67	62	62	0	-5	N
N157.1	372	Residential (1)	67	61	60	1	-6	N
N157.2	372	Residential (1)	67	64	63	1	-3	N
N158.1	373	Residential (1)	67	62	62	0	-5	N
N158.2	373	Residential (1)	67	66	65	1	-1	I
N159.1	442	Residential (1)	67	46	45	1	-21	N
N159.2	442	Residential (1)	67	50	49	1	-17	N
N160.1	442	Residential (1)	67	45	44	1	-22	N
N160.2	442	Residential (1)	67	48	47	1	-19	N

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Table C-2: North Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
N161.1	444	Residential (1)	67	45	43	2	-22	N
N161.2	444	Residential (1)	67	48	47	1	-19	N
N162.1	445	Residential (1)	67	45	44	1	-22	N
N162.2	445	Residential (1)	67	48	47	1	-19	N
N163	273	Residential (3)	67	71	70	1	4	I
N164	179	Residential (1)	67	75	74	1	8	I
N165	180	Residential (2)	67	75	74	1	8	I
N166	379	Residential (3)	67	69	67	2	2	I
N167	185	Residential (1)	67	75	74	1	8	I
N168	161	Residential (1)	67	75	75	0	8	I
N169	161	Residential (1)	67	75	75	0	8	I
N170	201	Residential (1)	67	74	73	1	7	I
N171	415	Residential (5)	67	67	66	1	0	I
N172	251	Residential (1)	67	72	71	1	5	I
N173	381	Residential (1)	67	68	67	1	1	I
N174	562	Residential (4)	67	64	63	1	-3	N
N175	524	Residential (2)	67	65	64	1	-2	N
N176	346	Residential (1)	67	69	68	1	2	I
N177	419	Residential (3)	67	66	65	1	-1	I
N178	302	Residential (2)	67	71	70	1	4	I
N179	258	Residential (1)	67	72	71	1	5	I
N180	314	Residential (4)	67	70	69	1	3	I
N181	230	Residential (4)	67	73	72	1	6	I
N182	216	Residential (1)	67	73	73	0	6	I
N183	287	Residential (4)	67	70	69	1	3	I
N184	200	Residential (5)	67	73	73	0	6	I
N185	187	Residential (1)	67	74	74	0	7	I
N186	266	Residential (5)	67	70	69	1	3	I
N187	189	Residential (6)	67	74	73	1	7	I

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Table C-2: North Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
N188	222	Residential (5)	67	72	72	0	5	I
N189	126	Residential (1)	67	77	76	1	10	I
N190	344	Residential (5)	67	68	67	1	1	I
N191	128	Residential (1)	67	77	76	1	10	I
N192	120	Residential (1)	67	77	76	1	10	I
N193	179	Residential (1)	67	74	74	0	7	I
N194	317	Residential (4)	67	69	68	1	2	I
N195	169	Residential (1)	67	73	74	-1	6	I
N196	168	Residential (1)	67	73	74	-1	6	I
N197	308	Residential (4)	67	71	69	2	4	I
N198	147	Residential (1)	67	76	75	1	9	I
N199	137	Residential (1)	67	76	76	0	9	I
N200	133	Residential (1)	67	76	76	0	9	I
N201	333	Residential (5)	67	69	67	2	2	I
N202	132	Residential (1)	67	76	76	0	9	I
N203	247	Residential (5)	67	72	72	0	5	I
N204	121	Residential (5)	67	74	76	-2	7	I
N205	121	Residential (1)	67	73	76	-3	6	I
N206	131	Residential (1)	67	73	73	0	6	I
N207	130	Residential (1)	67	72	73	-1	5	I
N208	348	Residential (4)	67	67	67	0	0	I
N209	195	Residential (1)	67	71	71	0	4	I
N210	148	Residential (1)	67	71	72	-1	4	I
N211	166	Residential (1)	67	71	72	-1	4	I
N212	345	Residential (3)	67	67	68	-1	0	I
N213	214	Spring Brook Golf Course (1)	67	73	73	0	6	I
N214	150	Spring Brook Golf Course (1)	67	76	75	1	9	I
N215	127	Spring Brook Golf Course (1)	67	77	76	1	10	I
N216	446	Residential (1)	67	66	65	1	-1	I

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Table C-2: North Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
N217	318	Residential (1)	67	69	68	1	2	I
N218	513	Residential (1)	67	65	63	2	-2	N
N219	586	Residential (1)	67	64	62	2	-3	N
N220	584	Residential (1)	67	64	62	2	-3	N
N221	670	Residential (1)	67	63	61	2	-4	N
N222	228	Spring Brook Golf Course (1)	67	73	72	1	6	I
N223	825	Residential (1)	67	61	60	1	-6	N
N224.1	1,051	Residential (1)	67	55	54	1	-12	N
N224.2	1,051	Residential (1)	67	56	55	1	-11	N
N224.3	1,051	Residential (1)	67	57	56	1	-10	N
N224.4	1,051	Residential (1)	67	59	58	1	-8	N
N225.1	1,018	Residential (1)	67	56	54	2	-11	N
N225.2	1,018	Residential (1)	67	56	55	1	-11	N
N225.3	1,018	Residential (1)	67	57	56	1	-10	N
N225.4	1,018	Residential (1)	67	60	59	1	-7	N
N226.1	985	Residential (1)	67	55	54	1	-12	N
N226.2	985	Residential (1)	67	57	56	1	-10	N
N226.3	985	Residential (1)	67	60	59	1	-7	N
N226.4	985	Residential (1)	67	61	61	0	-6	N
N227.1	953	Residential (1)	67	55	55	0	-12	N
N227.2	953	Residential (1)	67	58	57	1	-9	N
N227.3	953	Residential (1)	67	60	60	0	-7	N
N227.4	953	Residential (1)	67	62	61	1	-5	N
N228.1	930	Residential (1)	67	56	55	1	-11	N
N228.2	930	Residential (1)	67	58	58	0	-9	N
N228.3	930	Residential (1)	67	61	61	0	-6	N
N228.4	930	Residential (1)	67	62	61	1	-5	N
N229.1	916	Residential (1)	67	55	55	0	-12	N
N229.2	916	Residential (1)	67	59	58	1	-8	N

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Table C-2: North Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
N229.3	916	Residential (1)	67	61	61	0	-6	N
N229.4	916	Residential (1)	67	62	61	1	-5	N
N230.1	907	Residential (1)	67	55	55	0	-12	N
N230.2	907	Residential (1)	67	59	58	1	-8	N
N231.1	878	Residential (1)	67	60	60	0	-7	N
N231.2	878	Residential (1)	67	63	62	1	-4	N
N231.3	878	Residential (1)	67	64	64	0	-3	N
N231.4	878	Residential (1)	67	65	65	0	-2	N
N232.1	873	Residential (1)	67	60	60	0	-7	N
N232.2	873	Residential (1)	67	63	62	1	-4	N
N232.3	873	Residential (1)	67	64	64	0	-3	N
N232.4	873	Residential (1)	67	65	65	0	-2	N
N233.1	866	Residential (1)	67	60	60	0	-7	N
N233.2	866	Residential (1)	67	63	62	1	-4	N
N233.3	866	Residential (1)	67	65	64	1	-2	N
N233.4	866	Residential (1)	67	65	65	0	-2	N
N234.1	857	Residential (1)	67	61	60	1	-6	N
N234.2	857	Residential (1)	67	63	63	0	-4	N
N234.3	857	Residential (1)	67	65	64	1	-2	N
N234.4	857	Residential (1)	67	65	65	0	-2	N
N235.1	848	Residential (1)	67	61	60	1	-6	N
N235.2	848	Residential (1)	67	64	63	1	-3	N
N235.3	848	Residential (1)	67	65	64	1	-2	N
N235.4	848	Residential (1)	67	66	65	1	-1	I
N236.1	841	Residential (1)	67	62	61	1	-5	N
N236.2	841	Residential (1)	67	64	63	1	-3	N
N236.3	841	Residential (1)	67	65	65	0	-2	N
N236.4	841	Residential (1)	67	66	65	1	-1	I
N237.1	1,029	Residential (1)	67	46	44	2	-21	N

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Table C-2: North Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
N237.2	1,029	Residential (1)	67	48	45	3	-19	N
N237.3	1,029	Residential (1)	67	50	46	4	-17	N
N237.4	1,029	Residential (1)	67	52	48	4	-15	N
N238.1	998	Residential (1)	67	45	42	3	-22	N
N238.2	998	Residential (1)	67	47	44	3	-20	N
N239.1	988	Residential (1)	67	45	42	3	-22	N
N239.2	988	Residential (1)	67	47	43	4	-20	N
N239.3	988	Residential (1)	67	49	45	4	-18	N
N239.4	988	Residential (1)	67	50	46	4	-17	N
N240.1	939	Residential (1)	67	44	39	5	-23	N
N240.2	939	Residential (1)	67	46	41	5	-21	N
N241.1	936	Residential (1)	67	44	39	5	-23	N
N241.2	936	Residential (1)	67	46	41	5	-21	N
N241.3	936	Residential (1)	67	48	43	5	-19	N
N241.4	936	Residential (1)	67	49	45	4	-18	N
N242.1	930	Residential (1)	67	44	40	4	-23	N
N242.2	930	Residential (1)	67	46	42	4	-21	N
N242.3	930	Residential (1)	67	48	43	5	-19	N
N242.4	930	Residential (1)	67	50	45	5	-17	N
N243.1	916	Residential (1)	67	53	51	2	-14	N
N243.2	916	Residential (1)	67	56	55	1	-11	N
N243.3	916	Residential (1)	67	58	58	0	-9	N
N243.4	916	Residential (1)	67	60	59	1	-7	N
N244.1	811	Residential (1)	67	62	61	1	-5	N
N244.2	811	Residential (1)	67	64	63	1	-3	N
N244.3	811	Residential (1)	67	65	65	0	-2	N
N244.4	811	Residential (1)	67	66	65	1	-1	I
N245.1	802	Residential (1)	67	61	61	0	-6	N
N245.2	802	Residential (1)	67	64	63	1	-3	N

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Table C-2: North Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
N245.3	802	Residential (1)	67	65	65	0	-2	N
N245.4	802	Residential (1)	67	66	65	1	-1	I
N246.1	793	Residential (1)	67	61	61	0	-6	N
N246.2	793	Residential (1)	67	64	63	1	-3	N
N246.3	793	Residential (1)	67	65	65	0	-2	N
N246.4	793	Residential (1)	67	66	65	1	-1	I
N247.1	786	Residential (1)	67	61	60	1	-6	N
N247.2	786	Residential (1)	67	64	63	1	-3	N
N247.3	786	Residential (1)	67	65	65	0	-2	N
N247.4	786	Residential (1)	67	66	65	1	-1	I
N248.1	780	Residential (1)	67	61	61	0	-6	N
N248.2	780	Residential (1)	67	64	63	1	-3	N
N248.3	780	Residential (1)	67	65	65	0	-2	N
N248.4	780	Residential (1)	67	66	65	1	-1	I
N249.1	777	Residential (1)	67	61	61	0	-6	N
N249.2	777	Residential (1)	67	64	64	0	-3	N
N249.3	777	Residential (1)	67	66	65	1	-1	I
N249.4	777	Residential (1)	67	66	66	0	-1	I
N250.1	774	Residential (1)	67	61	61	0	-6	N
N250.2	774	Residential (1)	67	64	64	0	-3	N
N251.1	828	Residential (1)	67	60	59	1	-7	N
N251.2	828	Residential (1)	67	63	62	1	-4	N
N251.3	828	Residential (1)	67	64	64	0	-3	N
N251.4	828	Residential (1)	67	65	64	1	-2	N
N252.1	847	Residential (1)	67	59	59	0	-8	N
N252.2	847	Residential (1)	67	63	62	1	-4	N
N252.3	847	Residential (1)	67	64	64	0	-3	N
N252.4	847	Residential (1)	67	65	64	1	-2	N
N253.1	865	Residential (1)	67	59	59	0	-8	N

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Table C-2: North Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
N253.2	865	Residential (1)	67	62	62	0	-5	N
N253.3	865	Residential (1)	67	64	64	0	-3	N
N253.4	865	Residential (1)	67	65	64	1	-2	N
N254.1	894	Residential (1)	67	59	59	0	-8	N
N254.2	894	Residential (1)	67	62	62	0	-5	N
N254.3	894	Residential (1)	67	64	63	1	-3	N
N254.4	894	Residential (1)	67	65	64	1	-2	N
N255.1	922	Residential (1)	67	58	58	0	-9	N
N255.2	922	Residential (1)	67	62	61	1	-5	N
N255.3	922	Residential (1)	67	64	63	1	-3	N
N255.4	922	Residential (1)	67	64	64	0	-3	N
N256.1	949	Residential (1)	67	58	58	0	-9	N
N256.2	949	Residential (1)	67	62	61	1	-5	N
N256.3	949	Residential (1)	67	64	63	1	-3	N
N256.4	949	Residential (1)	67	64	63	1	-3	N
N257.1	872	Residential (1)	67	43	39	4	-24	N
N257.2	872	Residential (1)	67	45	40	5	-22	N
N257.3	872	Residential (1)	67	48	42	6	-19	N
N257.4	872	Residential (1)	67	51	46	5	-16	N
N258.1	863	Residential (1)	67	41	38	3	-26	N
N258.2	863	Residential (1)	67	43	38	5	-24	N
N259.1	860	Residential (1)	67	40	37	3	-27	N
N259.2	860	Residential (1)	67	41	38	3	-26	N
N259.3	860	Residential (1)	67	44	40	4	-23	N
N259.4	860	Residential (1)	67	48	44	4	-19	N
N260.1	884	Residential (1)	67	38	38	0	-29	N
N260.2	884	Residential (1)	67	39	39	0	-28	N
N261.1	893	Residential (1)	67	39	38	1	-28	N
N261.2	893	Residential (1)	67	39	39	0	-28	N

Impact occurs when future sound levels exceed existing sound levels by 15 dB or more, or, approach/exceed the NLC ("approach" is defined as 1 dB less than the NLC, therefore an impact occurs when Column H is –1 dB or greater). I = Impact, N = No Impact.

Table C-2: North Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
N261.3	893	Residential (1)	67	41	40	1	-26	N
N261.4	893	Residential (1)	67	43	42	1	-24	N
N262.1	912	Residential (1)	67	39	38	1	-28	N
N262.2	912	Residential (1)	67	40	39	1	-27	N
N262.3	912	Residential (1)	67	41	40	1	-26	N
N262.4	912	Residential (1)	67	43	43	0	-24	N
N263.1	966	Residential (1)	67	49	46	3	-18	N
N263.2	966	Residential (1)	67	51	48	3	-16	N
N263.3	966	Residential (1)	67	53	50	3	-14	N
N263.4	966	Residential (1)	67	55	52	3	-12	N
N264	424	Polynesian Hotel & Suites Pool (1)	72	59	58	1	-13	N
N265	1,168	Residential (1)	67	59	58	1	-8	N
N266	552	Residential (1)	67	63	63	0	-4	N
N267	542	Residential (1)	67	63	63	0	-4	N
N268	548	Residential (1)	67	63	63	0	-4	N
N269	559	Residential (1)	67	63	63	0	-4	N
N270	570	Residential (1)	67	63	63	0	-4	N
N271	583	Residential (1)	67	63	63	0	-4	N
N272	596	Residential (1)	67	63	62	1	-4	N
N273	187	Trappers Turn Golf Club (1)	67	75	75	0	8	I
N274	448	Trappers Turn Golf Club (1)	67	67	66	1	0	I
N275	326	Trappers Turn Golf Club (1)	67	71	69	2	4	I
N276	228	Rocky Arbor State Park (1)	67	71	71	0	4	I
N277	256	Rocky Arbor State Park (1)	67	70	70	0	3	I
N278	209	Rocky Arbor State Park (1)	67	72	72	0	5	I
N279	298	Rocky Arbor State Park (1)	67	70	69	1	3	I
N280	331	Rocky Arbor State Park (1)	67	70	68	2	3	I
N281	142	Indian Baptist Cemetery (1)	67	64	60	4	-3	N
N282	197	Indian Baptist Church (1)	52	43	41	2	-9	N

Impact occurs when future sound levels exceed existing sound levels by 15 dB or more, or, approach/exceed the NLC ("approach" is defined as 1 dB less than the NLC, therefore an impact occurs when Column H is –1 dB or greater). I = Impact, N = No Impact.

Table C-2: North Section Summary of Receiver Data (continued)

A. Receiver Identification	B. Distance from Centerline of Future Mainline Near Lane to Receiver in Feet	C. Land Use and Number of Receptor Units	D. Noise Level Criteria (NLC) (dBA, $L_{eq(h)}$)	E. Future Sound Level (dBA $L_{eq(h)}$)	F. Existing Sound Level (dBA, $L_{eq(h)}$)	G. Difference in Future and Existing Sound Levels (E minus F) (dBA)	H. Difference in Future Sound Levels and Noise Level Criteria (E minus D) (dBA)	I. Impact (I) or No Impact (N)
N283	673	Residential (1)	67	65	64	1	-2	N
N284	391	Ho-Chunk Housing & Community Baseball Field (1)	67	65	65	0	-2	N
N285	529	Ho-Chunk Housing & Community Playground (1)	67	63	62	1	-4	N
N286	224	Residential (1)	67	71	70	1	4	I
N287	207	Residential (1)	67	72	71	1	5	I
N288	208	Residential (1)	67	72	72	0	5	I
N289	525	Residential (1)	67	61	60	1	-6	N
N290	226	Residential (1)	67	72	71	1	5	I
N291	216	Residential (1)	67	72	71	1	5	I
N292	221	Residential (1)	67	71	70	1	4	I
N293	313	Residential (1)	67	67	67	0	0	I
N294	560	Residential (1)	67	63	62	1	-4	N
N295	334	Residential (1)	67	67	67	0	0	I
N296	634	Residential (1)	67	61	60	1	-6	N
N297	681	Residential (1)	67	60	60	0	-7	N
N298	565	Residential (1)	67	62	62	0	-5	N
N299	592	Residential (1)	67	62	62	0	-5	N
N300	620	Residential (1)	67	62	62	0	-5	N
N301	261	Residential (1)	67	70	70	0	3	I

Impact occurs when future sound levels exceed existing sound levels by 15 dB or more, or, approach/exceed the NLC (“approach” is defined as 1 dB less than the NLC, therefore an impact occurs when Column H is –1 dB or greater). I = Impact, N = No Impact.

Attachment D. Noise Barrier Analysis Results By Receiver Tables

Table D-1: South Section Noise Barrier Analysis Results by Receiver

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S1	Hotel	E	72	1	1	64	63	NA	NA	-1	NO
S2	Residential	B	67	2	1	64	64	NA	NA	0	NO
S3	Business	E	72	1	1	73	75	NA	NA	2	YES
S4	Residential	B	67	1	1	65	65	65	0	0	NO
S5	Residential	B	67	1	1	67	68	68	0	1	YES
S6	Residential	B	67	1	1	69	69	69	0	0	YES
S7	Residential	B	67	1	1	69	71	71	0	2	YES
S8	Residential	B	67	1	1	69	71	71	0	2	YES
S9	Residential	B	67	1	1	65	65	65	0	0	NO
S10	Residential	B	67	1	1	65	66	66	0	1	YES
S11	Residential	B	67	1	1	70	73	71	2	3	YES
S12	Residential	B	67	1	1	68	75	69	6	7	YES
S13	Residential	B	67	2	1	64	65	64	1	1	NO
S14	Residential	B	67	2	1	64	66	65	1	2	NO
S15	Residential	B	67	1	1	67	73	68	5	6	YES
S16	Residential	B	67	1	1	66	73	67	6	7	YES
S17	Residential	B	67	3	1	62	64	62	2	2	NO
S18	Residential	B	67	2	1	63	66	64	2	3	NO
S19	Residential	B	67	1	1	65	71	66	5	6	YES
S20	Residential	B	67	1	1	65	72	66	6	7	YES
S21	Residential	B	67	1	1	64	71	66	5	7	YES
S22	Residential	B	67	1	1	64	72	66	6	8	YES
S23	Residential	B	67	1	1	65	73	66	7	8	YES
S24	Residential	B	67	2	1	61	65	62	3	4	NO
S25	Residential	B	67	2	1	59	64	60	4	5	NO
S26	Residential	B	67	2	1	57	62	59	3	5	NO
S27	**Residential**	**B**	**67**	**1**	**1**	**64**	**74**	**66**	**8**	**10**	**YES**
S28	**Residential**	**B**	**67**	**1**	**1**	**64**	**73**	**65**	**8**	**9**	**NO**
S29	**Residential**	**B**	**67**	**1**	**1**	**64**	**73**	**65**	**8**	**9**	**NO**

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S30	Residential	B	67	1	1	62	70	64	6	8	NO
S31	Residential	B	67	2	1	57	63	59	4	6	NO
S32	Residential	B	67	2	1	60	67	62	5	7	NO
S33	Residential	B	67	2	1	56	62	57	5	6	NO
S34	Residential	B	67	1	1	63	72	65	7	9	NO
S35	**Residential**	**B**	**67**	**1**	**1**	**64**	**75**	**66**	**9**	**11**	**YES**
S36	Residential	B	67	1	1	60	67	62	5	7	NO
S37	Residential	B	67	1	1	62	70	64	6	8	NO
S38	Residential	B	67	4	1	57	63	59	4	6	NO
S39	Residential	B	67	2	1	59	65	60	5	6	NO
S40	Residential	B	67	1	1	61	68	63	5	7	NO
S41	**Residential**	**B**	**67**	**1**	**1**	**63**	**73**	**65**	**8**	**10**	**NO**
S42	**Residential**	**B**	**67**	**1**	**1**	**65**	**76**	**67**	**9**	**11**	**YES**
S43	Residential	B	67	1	1	63	71	65	6	8	NO
S44	Residential	B	67	1	1	61	68	62	6	7	NO
S45	Residential	B	67	2	1	59	66	61	5	7	NO
S46	Residential	B	67	2	1	57	62	58	4	5	NO
S47	Residential	B	67	2	1	58	64	59	5	6	NO
S48	Residential	B	67	1	1	62	70	63	7	8	NO
S49	Residential	B	67	1	1	63	72	65	7	9	NO
S50	**Residential**	**B**	**67**	**1**	**1**	**65**	**75**	**66**	**9**	**10**	**YES**
S51	Residential	B	67	2	1	56	60	57	3	4	NO
S52	Residential	B	67	1	1	63	71	65	6	8	NO
S53	Residential	B	67	1	1	61	67	62	5	6	NO
S54	Residential	B	67	2	1	58	62	59	3	4	NO
S55	Residential	B	67	2	1	59	65	61	4	6	NO
S56	Residential	B	67	1	1	63	69	65	4	6	NO
S57	Residential	B	67	1	1	65	73	66	7	8	YES
S58	Residential	B	67	1	1	65	74	67	7	9	YES

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S59	Residential	B	67	2	1	59	64	61	3	5	NO
S60	Residential	B	67	2	1	61	67	63	4	6	NO
S61	**Residential**	**B**	**67**	**1**	**1**	**65**	**76**	**67**	**9**	**11**	**YES**
S62	Residential	B	67	3	1	59	64	60	4	5	NO
S63	Residential	B	67	1	1	62	69	64	5	7	NO
S64	**Residential**	**B**	**67**	**1**	**1**	**66**	**76**	**68**	**8**	**10**	**YES**
S65	Grace Baptist Church	C	67	1	1	62	68	64	4	6	NO
S66	Residential	B	67	2	1	56	60	57	3	4	NO
S67	Residential	B	67	1	1	58	62	59	3	4	NO
S68	Residential	B	67	1	1	60	64	62	2	4	NO
S69	Residential	B	67	1	1	63	68	66	2	5	YES
S70	**Residential**	**B**	**67**	**1**	**1**	**64**	**74**	**65**	**9**	**10**	**NO**
S71	**Residential**	**B**	**67**	**1**	**1**	**62**	**72**	**63**	**9**	**10**	**NO**
S72	Residential	B	67	1	1	59	64	60	4	5	NO
S73	Residential	B	67	2	1	56	62	57	5	6	NO
S74	Residential	B	67	2	1	54	60	56	4	6	NO
S75	Residential	B	67	1	1	62	68	63	5	6	NO
S76	Residential	B	67	2	1	57	63	58	5	6	NO
S77	Residential	B	67	1	1	61	66	62	4	5	NO
S78	Residential	B	67	1	1	61	67	63	4	6	NO
S79	Residential	B	67	1	1	62	67	63	4	5	NO
S80	Residential	B	67	1	1	58	62	59	3	4	NO
S81	Residential	B	67	2	1	55	60	56	4	5	NO
S82	Residential	B	67	2	1	57	61	58	3	4	NO
S83	Residential	B	67	1	1	61	65	62	3	4	NO
S84	Residential	B	67	1	1	60	65	61	4	5	NO
S85	Residential	B	67	1	1	62	69	63	6	7	NO
S86	Residential	B	67	2	1	55	59	56	3	4	NO
S87	**Residential**	**B**	**67**	**1**	**1**	**62**	**72**	**63**	**9**	**10**	**NO**

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S88	Residential	B	67	2	1	58	62	59	3	4	NO
S89	Residential	B	67	2	1	56	60	57	3	4	NO
S90	**Residential**	**B**	**67**	**1**	**1**	**61**	**73**	**62**	**11**	**12**	**NO**
S91	Residential	B	67	1	1	60	65	61	4	5	NO
S92	Residential	B	67	2	1	62	68	62	6	6	NO
S93	Residential	B	67	2	1	61	67	62	5	6	NO
S94	Residential	B	67	1	1	55	58	56	2	3	NO
S95	Residential	B	67	2	1	58	62	59	3	4	NO
S96	Residential	B	67	2	1	62	70	63	7	8	NO
S97	Residential	B	67	2	1	54	57	55	2	3	NO
S98	Residential	B	67	2	1	58	63	59	4	5	NO
S99	Residential	B	67	2	1	63	71	64	7	8	NO
S100	Residential	B	67	2	1	62	70	63	7	8	NO
S101	Residential	B	67	2	1	58	63	59	4	5	NO
S102	**Residential**	**B**	**67**	**2**	**1**	**62**	**72**	**63**	**9**	**10**	**NO**
S103	Residential	B	67	2	1	54	57	55	2	3	NO
S104	**Residential**	**B**	**67**	**2**	**1**	**62**	**72**	**63**	**9**	**10**	**NO**
S105	Residential	B	67	1	1	58	63	59	4	5	NO
S106	**Residential**	**B**	**67**	**2**	**1**	**62**	**72**	**63**	**9**	**10**	**NO**
S107	Residential	B	67	2	1	59	63	60	3	4	NO
S108	Residential	B	67	2	1	54	57	55	2	3	NO
S109	**Residential**	**B**	**67**	**2**	**1**	**62**	**72**	**63**	**9**	**10**	**NO**
S110	Residential	B	67	2	1	58	64	59	5	6	NO
S111	**Residential**	**B**	**67**	**2**	**1**	**62**	**72**	**63**	**9**	**10**	**NO**
S112	Residential	B	67	2	1	55	59	56	3	4	NO
S113	**Residential**	**B**	**67**	**2**	**1**	**62**	**73**	**63**	**10**	**11**	**NO**
S114	Residential	B	67	2	1	60	64	61	3	4	NO
S115	**Residential**	**B**	**67**	**2**	**1**	**62**	**72**	**63**	**9**	**10**	**NO**
S116	**Residential**	**B**	**67**	**2**	**1**	**62**	**72**	**62**	**10**	**10**	**NO**

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S117	Residential	B	67	1	1	58	65	59	6	7	NO
S118	Residential	B	67	2	1	54	61	55	6	7	NO
S119	**Residential**	**B**	**67**	**2**	**1**	**62**	**73**	**63**	**10**	**11**	**NO**
S120	Residential	B	67	4	1	58	65	59	6	7	NO
S121	**Residential**	**B**	**67**	**2**	**1**	**62**	**72**	**62**	**10**	**10**	**NO**
S122	**Residential**	**B**	**67**	**2**	**1**	**61**	**71**	**62**	**9**	**10**	**NO**
S123	Residential	B	67	2	1	55	61	55	6	6	NO
S124	Residential	B	67	4	1	59	66	59	7	7	NO
S125	**Residential**	**B**	**67**	**2**	**1**	**62**	**72**	**62**	**10**	**10**	**NO**
S126	Residential	B	67	2	1	59	67	60	7	8	NO
S127	**Residential**	**B**	**67**	**2**	**1**	**61**	**73**	**61**	**12**	**12**	**NO**
S128	Residential	B	67	1	1	59	66	60	6	7	NO
S129	**Residential**	**B**	**67**	**2**	**1**	**63**	**79**	**64**	**15**	**16**	**NO**
S130	**Residential**	**B**	**67**	**2**	**1**	**61**	**72**	**62**	**10**	**11**	**NO**
S131	Residential	B	67	4	1	59	66	59	7	7	NO
S132	**Residential**	**B**	**67**	**2**	**1**	**61**	**71**	**62**	**9**	**10**	**NO**
S133	**Residential**	**B**	**67**	**2**	**1**	**61**	**70**	**62**	**8**	**9**	**NO**
S134	Residential	B	67	2	1	58	65	59	6	7	NO
S135	**Residential**	**B**	**67**	**2**	**1**	**61**	**70**	**62**	**8**	**9**	**NO**
S136	Residential	B	67	2	1	58	63	59	4	5	NO
S137	Residential	B	67	2	1	59	66	60	6	7	NO
S138	**Residential**	**B**	**67**	**2**	**1**	**63**	**74**	**64**	**10**	**11**	**NO**
S139	**Residential**	**B**	**67**	**2**	**1**	**63**	**75**	**64**	**11**	**12**	**NO**
S140	Residential	B	67	4	1	58	63	60	3	5	NO
S141	Residential	B	67	2	1	60	68	61	7	8	NO
S142	**Residential**	**B**	**67**	**2**	**1**	**63**	**74**	**64**	**10**	**11**	**NO**
S143	Residential	B	67	2	1	59	66	60	6	7	NO
S144	Residential	B	67	2	1	56	61	57	4	5	NO
S145	Residential	B	67	2	1	58	63	59	4	5	NO

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S146	**Residential**	**B**	**67**	**2**	**1**	**61**	**70**	**62**	**8**	**9**	**NO**
S147	**Residential**	**B**	**67**	**2**	**1**	**61**	**72**	**62**	**10**	**11**	**NO**
S148	Residential	B	67	4	1	54	58	55	3	4	NO
S149	Residential	B	67	2	1	58	65	59	6	7	NO
S150	Residential	B	67	2	1	59	66	60	6	7	NO
S151	**Residential**	**B**	**67**	**2**	**1**	**62**	**73**	**62**	**11**	**11**	**NO**
S152	Residential	B	67	6	1	55	59	56	3	4	NO
S153	Residential	B	67	2	1	55	60	57	3	5	NO
S154	Residential	B	67	2	1	58	65	59	6	7	NO
S155	Residential	B	67	2	1	57	62	58	4	5	NO
S156	Residential	B	67	2	1	61	69	62	7	8	NO
S157	Residential	B	67	6	1	56	60	57	3	4	NO
S158	**Residential**	**B**	**67**	**2**	**1**	**62**	**75**	**62**	**13**	**13**	**NO**
S159	Residential	B	67	2	1	57	61	58	3	4	NO
S160	Residential	B	67	2	1	58	63	59	4	5	NO
S161	**Residential**	**B**	**67**	**2**	**1**	**60**	**70**	**61**	**9**	**10**	**NO**
S162.1	Residential	B	67	1	1	64	65	62	3	1	NO
S162.2	Residential	B	67	1	2	67	68	64	4	1	**YES**
S162.3	Residential	B	67	1	3	68	70	65	5	2	**YES**
S163.1	Residential	B	67	1	1	61	63	60	3	2	NO
S163.2	Residential	B	67	1	2	66	67	63	4	1	**YES**
S163.3	Residential	B	67	1	3	67	68	64	4	1	**YES**
S164.1	Residential	B	67	1	1	69	70	64	6	1	**YES**
S164.2	Residential	B	67	1	2	71	72	66	6	1	**YES**
S164.3	Residential	B	67	1	3	72	74	67	7	2	**YES**
S165.1	Residential	B	67	1	1	60	62	59	3	2	NO
S165.2	Residential	B	67	1	2	64	66	62	4	2	**YES**
S165.3	Residential	B	67	1	3	66	68	63	5	2	**YES**
S166.1	Residential	B	67	1	1	59	61	58	3	2	NO

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S166.2	Residential	B	67	1	2	63	65	61	4	2	NO
S166.3	Residential	B	67	1	3	66	67	62	5	1	YES
S167.1	Residential	B	67	1	1	69	71	64	7	2	YES
S167.2	Residential	B	67	1	2	71	73	66	7	2	YES
S167.3	Residential	B	67	1	3	72	74	67	7	2	YES
S168.1	Residential	B	67	1	1	69	71	64	7	2	YES
S168.2	Residential	B	67	1	2	71	73	66	7	2	YES
S168.3	Residential	B	67	1	3	72	74	67	7	2	YES
S169.1	Residential	B	67	2	1	53	54	50	4	1	NO
S169.2	Residential	B	67	2	2	56	57	52	5	1	NO
S169.3	Residential	B	67	2	3	60	61	55	6	1	NO
S170.1	Residential	B	67	1	1	48	50	46	4	2	NO
S170.2	Residential	B	67	1	2	50	52	48	4	2	NO
S170.3	Residential	B	67	1	3	55	57	53	4	2	NO
S171.1	**Residential**	**B**	**67**	**1**	**1**	**59**	**60**	**52**	**8**	**1**	**NO**
S171.2	**Residential**	**B**	**67**	**1**	**2**	**61**	**62**	**53**	**9**	**1**	**NO**
S171.3	**Residential**	**B**	**67**	**1**	**3**	**62**	**64**	**55**	**9**	**2**	**NO**
S172.1	**Residential**	**B**	**67**	**1**	**1**	**65**	**66**	**56**	**10**	**1**	**YES**
S172.2	**Residential**	**B**	**67**	**1**	**2**	**66**	**68**	**57**	**11**	**2**	**YES**
S172.3	**Residential**	**B**	**67**	**1**	**3**	**67**	**69**	**59**	**10**	**2**	**YES**
S173.1	**Residential**	**B**	**67**	**1**	**1**	**65**	**66**	**58**	**8**	**1**	**YES**
S173.2	**Residential**	**B**	**67**	**1**	**2**	**67**	**68**	**59**	**9**	**1**	**YES**
S173.3	**Residential**	**B**	**67**	**1**	**3**	**68**	**70**	**61**	**9**	**2**	**YES**
S174.1	Residential	B	67	1	1	65	66	59	7	1	YES
S174.2	Residential	B	67	1	2	67	68	61	7	1	YES
S174.3	**Residential**	**B**	**67**	**1**	**3**	**68**	**70**	**62**	**8**	**2**	**YES**
S175.1	**Residential**	**B**	**67**	**1**	**1**	**64**	**66**	**58**	**8**	**2**	**YES**
S175.2	Residential	B	67	1	2	67	68	61	7	1	YES
S175.3	Residential	B	67	1	3	68	69	62	7	1	YES

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NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S176.1	**Residential**	**B**	**67**	**2**	**1**	**63**	**65**	**57**	**8**	**2**	**NO**
S176.2	Residential	B	67	2	2	66	67	60	7	1	**YES**
S176.3	Residential	B	67	2	3	67	68	61	7	1	**YES**
S177.1	Residential	B	67	2	1	62	63	56	7	1	NO
S177.2	Residential	B	67	2	2	64	65	59	6	1	NO
S177.3	Residential	B	67	2	3	65	67	60	7	2	**YES**
S178.1	Residential	B	67	1	1	67	69	62	7	2	**YES**
S178.2	**Residential**	**B**	**67**	**1**	**2**	**70**	**71**	**63**	**8**	**1**	**YES**
S178.3	**Residential**	**B**	**67**	**1**	**3**	**72**	**73**	**65**	**8**	**1**	**YES**
S179.1	Residential	B	67	1	1	64	66	60	6	2	**YES**
S179.2	Residential	B	67	1	2	66	68	61	7	2	**YES**
S179.3	Residential	B	67	1	3	67	69	62	7	2	**YES**
S180.3	**Residential**	**B**	**67**	**1**	**3**	**72**	**74**	**65**	**9**	**2**	**YES**
S181.3	Residential	B	67	1	3	66	68	62	6	2	**YES**
S182.1	Residential	B	67	1	1	62	64	58	6	2	NO
S182.2	Residential	B	67	1	2	63	65	60	5	2	NO
S182.3	Residential	B	67	1	3	65	67	61	6	2	**YES**
S183.3	**Residential**	**B**	**67**	**1**	**3**	**73**	**74**	**65**	**9**	**1**	**YES**
S184.3	Residential	B	67	1	3	64	66	61	5	2	**YES**
S185.1	Residential	B	67	1	1	61	63	57	6	2	NO
S185.2	**Residential**	**B**	**67**	**1**	**2**	**67**	**68**	**59**	**9**	**1**	**YES**
S185.3	**Residential**	**B**	**67**	**1**	**3**	**71**	**72**	**61**	**11**	**1**	**YES**
S186.3	Residential	B	67	2	3	60	62	55	7	2	NO
S187.3	**Residential**	**B**	**67**	**1**	**3**	**70**	**71**	**60**	**11**	**1**	**YES**
S188.1	Residential	B	67	1	1	55	56	52	4	1	NO
S188.2	Residential	B	67	1	2	58	60	53	7	2	NO
S188.3	**Residential**	**B**	**67**	**1**	**3**	**62**	**63**	**54**	**9**	**1**	**NO**
S189.3	**Residential**	**B**	**67**	**1**	**3**	**63**	**63**	**55**	**8**	**0**	**NO**
S190.3	**Residential**	**B**	**67**	**2**	**3**	**70**	**71**	**61**	**10**	**1**	**YES**

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NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S191.3	**Residential**	**B**	**67**	**1**	**3**	**63**	**64**	**55**	**9**	**1**	**NO**
S192.1	Residential	B	67	1	1	54	56	51	5	2	NO
S192.2	**Residential**	**B**	**67**	**1**	**2**	**59**	**60**	**52**	**8**	**1**	**NO**
S192.3	**Residential**	**B**	**67**	**1**	**3**	**60**	**62**	**54**	**8**	**2**	**NO**
S193.3	Residential	B	67	2	3	60	61	54	7	1	NO
S194.3	**Residential**	**B**	**67**	**1**	**3**	**67**	**69**	**59**	**10**	**2**	**YES**
S195.1	Residential	B	67	1	1	57	59	56	3	2	NO
S195.2	Residential	B	67	1	2	62	64	57	7	2	NO
S195.3	**Residential**	**B**	**67**	**1**	**3**	**66**	**68**	**59**	**9**	**2**	**YES**
S196.3	**Residential**	**B**	**67**	**1**	**3**	**65**	**67**	**59**	**8**	**2**	**YES**
S197.1	Residential	B	67	1	1	57	58	55	3	1	NO
S197.2	Residential	B	67	1	2	61	63	57	6	2	NO
S197.3	**Residential**	**B**	**67**	**1**	**3**	**64**	**66**	**58**	**8**	**2**	**YES**
S198.1	Residential	B	67	1	1	52	54	51	3	2	NO
S198.2	Residential	B	67	1	2	54	57	53	4	3	NO
S198.3	Residential	B	67	1	3	57	59	56	3	2	NO
S199	Residential	B	67	1	1	62	65	59	6	3	NO
S200	**Residential**	**B**	**67**	**1**	**1**	**67**	**71**	**61**	**10**	**4**	**YES**
S201	City of Madison Police Department	C	67	1	1	65	66	65	1	1	NO
S202	Heritage Prairie Park	C	67	1	0	62	68	62	6	6	NO
S203	Residential	B	67	2	1	58	66	59	7	8	NO
S204	**Residential**	**B**	**67**	**1**	**1**	**60**	**69**	**61**	**8**	**9**	**NO**
S205	**Residential**	**B**	**67**	**1**	**1**	**60**	**70**	**61**	**9**	**10**	**NO**
S206	**Residential**	**B**	**67**	**2**	**1**	**58**	**68**	**60**	**8**	**10**	**NO**
S207	**Residential**	**B**	**67**	**1**	**1**	**61**	**71**	**62**	**9**	**10**	**NO**
S208	**Residential**	**B**	**67**	**1**	**1**	**61**	**73**	**62**	**11**	**12**	**NO**
S209	Residential	B	67	2	1	58	67	60	7	9	NO
S210	**Residential**	**B**	**67**	**1**	**1**	**61**	**73**	**62**	**11**	**12**	**NO**
S211	**Residential**	**B**	**67**	**1**	**1**	**61**	**73**	**62**	**11**	**12**	**NO**

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NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S212	Residential	B	67	2	1	58	66	59	7	8	NO
S213	**Residential**	**B**	**67**	**1**	**1**	**62**	**75**	**63**	**12**	**13**	**NO**
S214	**Residential**	**B**	**67**	**1**	**1**	**61**	**73**	**62**	**11**	**12**	**NO**
S215	Residential	B	67	2	1	59	66	60	6	7	NO
S216	**Residential**	**B**	**67**	**1**	**1**	**61**	**72**	**62**	**10**	**11**	**NO**
S217	**Residential**	**B**	**67**	**1**	**1**	**61**	**72**	**62**	**10**	**11**	**NO**
S218	Residential	B	67	2	1	58	66	60	6	8	NO
S219	**Residential**	**B**	**67**	**1**	**1**	**61**	**72**	**62**	**10**	**11**	**NO**
S220	**Residential**	**B**	**67**	**1**	**1**	**62**	**73**	**63**	**10**	**11**	**NO**
S221	**Residential**	**B**	**67**	**1**	**1**	**62**	**72**	**63**	**9**	**10**	**NO**
S222	Residential	B	67	2	1	59	67	60	7	8	NO
S223	**Residential**	**B**	**67**	**1**	**1**	**61**	**71**	**62**	**9**	**10**	**NO**
S224	**Residential**	**B**	**67**	**1**	**1**	**62**	**72**	**63**	**9**	**10**	**NO**
S225	**Residential**	**B**	**67**	**1**	**1**	**61**	**70**	**62**	**8**	**9**	**NO**
S226	Residential	B	67	2	1	58	65	59	6	7	NO
S227	Residential	B	67	1	1	60	67	61	6	7	NO
S228	Residential	B	67	1	1	60	65	61	4	5	NO
S229	Residential	B	67	1	1	59	64	60	4	5	NO
S230	Residential	B	67	1	1	58	62	59	3	4	NO
S231	Residential	B	67	1	1	57	61	58	3	4	NO
S232	Residential	B	67	1	1	58	63	58	5	5	NO
S233	Residential	B	67	1	1	57	61	58	3	4	NO
S234	Residential	B	67	1	1	59	63	60	3	4	NO
S235	Residential	B	67	1	1	60	63	60	3	3	NO
S236	Residential	B	67	2	1	57	62	58	4	5	NO
S237	Residential	B	67	1	1	60	64	61	3	4	NO
S238	Residential	B	67	1	1	60	64	61	3	4	NO
S239	Residential	B	67	2	1	57	62	58	4	5	NO
S240	Residential	B	67	1	1	60	64	61	3	4	NO

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S241	Residential	B	67	2	1	57	63	58	5	6	NO
S242	Residential	B	67	1	1	60	64	61	3	4	NO
S243	Residential	B	67	1	1	60	64	61	3	4	NO
S244	Residential	B	67	2	1	57	63	58	5	6	NO
S245	Residential	B	67	1	1	60	65	61	4	5	NO
S246	Residential	B	67	1	1	61	66	61	5	5	NO
S247	Residential	B	67	1	1	57	64	58	6	7	NO
S248	Residential	B	67	1	1	60	66	61	5	6	NO
S249	Residential	B	67	1	1	60	65	61	4	5	NO
S250	Residential	B	67	1	1	57	65	58	7	8	NO
S251	Residential	B	67	1	1	60	66	61	5	6	NO
S252	Residential	B	67	1	1	61	66	61	5	5	NO
S253	Residential	B	67	2	1	56	63	58	5	7	NO
S254	**Residential**	**B**	**67**	**1**	**1**	**63**	**74**	**63**	**11**	**11**	**NO**
S255	Residential	B	67	1	1	59	64	60	4	5	NO
S256	Residential	B	67	1	1	58	64	60	4	6	NO
S257	**Residential**	**B**	**67**	**1**	**1**	**62**	**73**	**63**	**10**	**11**	**NO**
S258	**Residential**	**B**	**67**	**1**	**1**	**62**	**73**	**63**	**10**	**11**	**NO**
S259	Residential	B	67	2	1	57	63	59	4	6	NO
S260	**Residential**	**B**	**67**	**1**	**1**	**62**	**72**	**63**	**9**	**10**	**NO**
S261	**Residential**	**B**	**67**	**1**	**1**	**63**	**73**	**63**	**10**	**10**	**NO**
S262	Residential	B	67	2	1	58	64	59	5	6	NO
S263	**Residential**	**B**	**67**	**1**	**1**	**63**	**73**	**63**	**10**	**10**	**NO**
S264	Residential	B	67	1	1	59	65	60	5	6	NO
S265	**Residential**	**B**	**67**	**1**	**1**	**63**	**72**	**63**	**9**	**9**	**NO**
S266	Residential	B	67	2	1	57	62	58	4	5	NO
S267	**Residential**	**B**	**67**	**1**	**1**	**62**	**72**	**63**	**9**	**10**	**NO**
S268	Residential	B	67	2	1	56	60	57	3	4	NO
S269	Residential	B	67	1	1	58	63	59	4	5	NO

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S270	Residential	B	67	1	1	57	61	58	3	4	NO
S271	**Residential**	**B**	**67**	**1**	**1**	**62**	**70**	**62**	**8**	**8**	**NO**
S272	Residential	B	67	1	1	56	60	58	2	4	NO
S273	Residential	B	67	2	1	58	62	59	3	4	NO
S274	Residential	B	67	1	1	61	69	62	7	8	NO
S275	Joshua Circle Basketball Court	C	67	1	1	59	62	59	3	3	NO
S276	Residential	B	67	4	1	56	59	58	1	3	NO
S277	Residential	B	67	1	1	58	62	59	3	4	NO
S278	**Residential**	**B**	**67**	**1**	**1**	**61**	**70**	**61**	**9**	**9**	**NO**
S279	Residential	B	67	1	1	59	62	60	2	3	NO
S280	Residential	B	67	1	1	58	61	59	2	3	NO
S281	Residential	B	67	1	1	57	60	59	1	3	NO
S282	Residential	B	67	1	1	61	64	62	2	3	NO
S283	Residential	B	67	2	1	59	62	61	1	3	NO
S284.2	Residential	B	67	1	2	64	69	63	6	5	YES
S284.3	**Residential**	**B**	**67**	**1**	**3**	**69**	**74**	**65**	**9**	**5**	**YES**
S284.4	**Residential**	**B**	**67**	**1**	**4**	**72**	**76**	**68**	**8**	**4**	**YES**
S285.2	Residential	B	67	1	2	62	66	62	4	4	YES
S285.3	Residential	B	67	1	3	66	70	64	6	4	YES
S285.4	Residential	B	67	1	4	69	73	66	7	4	YES
S286.2	Residential	B	67	1	2	63	66	63	3	3	YES
S286.3	Residential	B	67	1	3	67	70	64	6	3	YES
S286.4	Residential	B	67	1	4	69	72	66	6	3	YES
S287.2	Residential	B	67	1	2	62	65	62	3	3	NO
S287.3	Residential	B	67	1	3	66	69	63	6	3	YES
S287.4	Residential	B	67	1	4	68	71	65	6	3	YES
S288.2	Residential	B	67	1	2	62	64	61	3	2	NO
S288.3	Residential	B	67	1	3	65	68	63	5	3	YES
S288.4	Residential	B	67	1	4	67	70	64	6	3	YES

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build				
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss	Increase (Future No Barrier - Existing)	
S289.2	Residential	B	67	1	2	60	63	60	3	3	NO
S289.3	Residential	B	67	1	3	64	66	62	4	2	YES
S289.4	Residential	B	67	1	4	66	69	63	6	3	YES
S290.2	**Residential**	**B**	**67**	**1**	**2**	**63**	**70**	**59**	**11**	**7**	**YES**
S290.3	**Residential**	**B**	**67**	**1**	**3**	**69**	**75**	**63**	**12**	**6**	**YES**
S290.4	**Residential**	**B**	**67**	**1**	**4**	**73**	**76**	**66**	**10**	**3**	**YES**
S291.2	Residential	B	67	1	2	50	52	51	1	2	NO
S291.3	Residential	B	67	1	3	54	56	55	1	2	NO
S291.4	**Residential**	**B**	**67**	**1**	**4**	**65**	**68**	**60**	**8**	**3**	**YES**
S292.2	**Residential**	**B**	**67**	**1**	**2**	**62**	**71**	**60**	**11**	**9**	**YES**
S292.3	**Residential**	**B**	**67**	**1**	**3**	**69**	**75**	**62**	**13**	**6**	**YES**
S292.4	**Residential**	**B**	**67**	**1**	**4**	**73**	**76**	**66**	**10**	**3**	**YES**
S293.1	Residential	B	67	2	1	53	57	50	7	4	NO
S293.2	**Residential**	**B**	**67**	**2**	**2**	**55**	**61**	**51**	**10**	**6**	**NO**
S293.3	**Residential**	**B**	**67**	**2**	**3**	**59**	**64**	**55**	**9**	**5**	**NO**
S294.1	Residential	B	67	2	1	52	57	50	7	5	NO
S294.2	**Residential**	**B**	**67**	**2**	**2**	**54**	**61**	**51**	**10**	**7**	**NO**
S294.3	**Residential**	**B**	**67**	**2**	**3**	**56**	**63**	**52**	**11**	**7**	**NO**
S295.1	Residential	B	67	2	1	49	51	48	3	2	NO
S295.2	Residential	B	67	2	2	52	54	50	4	2	NO
S295.3	Residential	B	67	2	3	55	57	52	5	2	NO
S296.2	**Residential**	**B**	**67**	**1**	**2**	**61**	**71**	**58**	**13**	**10**	**YES**
S296.3	**Residential**	**B**	**67**	**1**	**3**	**68**	**74**	**59**	**15**	**6**	**YES**
S296.4	**Residential**	**B**	**67**	**1**	**4**	**71**	**75**	**61**	**14**	**4**	**YES**
S297.1	**Residential**	**B**	**67**	**1**	**1**	**58**	**67**	**58**	**9**	**9**	**YES**
S297.2	**Residential**	**B**	**67**	**1**	**2**	**63**	**72**	**59**	**13**	**9**	**YES**
S297.3	**Residential**	**B**	**67**	**1**	**3**	**70**	**75**	**61**	**14**	**5**	**YES**
S298.1	**Residential**	**B**	**67**	**1**	**1**	**53**	**59**	**51**	**8**	**6**	**NO**
S298.2	**Residential**	**B**	**67**	**1**	**2**	**55**	**63**	**52**	**11**	**8**	**NO**

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S298.3	**Residential**	**B**	**67**	**1**	**3**	**58**	**65**	**53**	**12**	**7**	**NO**
S299.1	**Residential**	**B**	**67**	**1**	**1**	**54**	**61**	**52**	**9**	**7**	**NO**
S299.2	**Residential**	**B**	**67**	**1**	**2**	**56**	**65**	**53**	**12**	**9**	**NO**
S299.3	**Residential**	**B**	**67**	**1**	**3**	**60**	**66**	**54**	**12**	**6**	**YES**
S300.1	**Residential**	**B**	**67**	**1**	**1**	**55**	**63**	**53**	**10**	**8**	**NO**
S300.2	**Residential**	**B**	**67**	**1**	**2**	**58**	**66**	**54**	**12**	**8**	**YES**
S300.3	**Residential**	**B**	**67**	**1**	**3**	**62**	**68**	**55**	**13**	**6**	**YES**
S301.1	Residential	B	67	1	1	52	56	50	6	4	NO
S301.2	**Residential**	**B**	**67**	**1**	**2**	**54**	**61**	**51**	**10**	**7**	**NO**
S301.3	**Residential**	**B**	**67**	**1**	**3**	**56**	**63**	**52**	**11**	**7**	**NO**
S302.4	**Residential**	**B**	**67**	**1**	**4**	**66**	**71**	**60**	**11**	**5**	**YES**
S303.2	**Residential**	**B**	**67**	**1**	**2**	**59**	**67**	**55**	**12**	**8**	**YES**
S303.3	**Residential**	**B**	**67**	**1**	**3**	**63**	**68**	**56**	**12**	**5**	**YES**
S304.2	**Residential**	**B**	**67**	**1**	**2**	**62**	**74**	**60**	**14**	**12**	**YES**
S304.3	**Residential**	**B**	**67**	**1**	**3**	**68**	**77**	**62**	**15**	**9**	**YES**
S304.4	**Residential**	**B**	**67**	**1**	**4**	**74**	**77**	**65**	**12**	**3**	**YES**
S305.1	Residential	B	67	2	1	52	54	51	3	2	NO
S305.2	Residential	B	67	2	2	56	58	54	4	2	NO
S305.3	Residential	B	67	2	3	60	62	57	5	2	NO
S306.2	**Residential**	**B**	**67**	**1**	**2**	**62**	**73**	**60**	**13**	**11**	**YES**
S306.3	**Residential**	**B**	**67**	**1**	**3**	**68**	**77**	**62**	**15**	**9**	**YES**
S306.4	**Residential**	**B**	**67**	**1**	**4**	**73**	**77**	**64**	**13**	**4**	**YES**
S307.2	**Residential**	**B**	**67**	**2**	**2**	**58**	**65**	**54**	**11**	**7**	**NO**
S307.3	**Residential**	**B**	**67**	**2**	**3**	**61**	**66**	**55**	**11**	**5**	**YES**
S307.4	**Residential**	**B**	**67**	**2**	**4**	**65**	**69**	**60**	**9**	**4**	**YES**
S308.1	Residential	B	67	1	1	46	48	45	3	2	NO
S308.2	Residential	B	67	1	2	49	50	45	5	1	NO
S308.3	Residential	B	67	1	3	51	52	48	4	1	NO
S309.2	Residential	B	67	2	2	47	49	45	4	2	NO

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S309.3	Residential	B	67	2	3	49	52	47	5	3	NO
S310.1	Residential	B	67	1	1	48	50	45	5	2	NO
S310.2	Residential	B	67	1	2	48	51	45	6	3	NO
S310.3	Residential	B	67	1	3	50	53	48	5	3	NO
S311.2	**Residential**	**B**	**67**	**1**	**2**	**62**	**73**	**60**	**13**	**11**	**YES**
S311.3	**Residential**	**B**	**67**	**1**	**3**	**67**	**76**	**61**	**15**	**9**	**YES**
S311.4	**Residential**	**B**	**67**	**1**	**4**	**73**	**77**	**64**	**13**	**4**	**YES**
S312.1	Residential	B	67	2	1	49	52	48	4	3	NO
S312.2	Residential	B	67	2	2	52	56	51	5	4	NO
S312.3	Residential	B	67	2	3	57	60	54	6	3	NO
S313.1	Residential	B	67	1	1	44	46	43	3	2	NO
S313.2	Residential	B	67	1	2	46	48	45	3	2	NO
S313.3	Residential	B	67	1	3	49	51	47	4	2	NO
S314.2	**Residential**	**B**	**67**	**1**	**2**	**61**	**73**	**60**	**13**	**12**	**YES**
S314.3	**Residential**	**B**	**67**	**1**	**3**	**67**	**76**	**61**	**15**	**9**	**YES**
S314.4	**Residential**	**B**	**67**	**1**	**4**	**73**	**77**	**64**	**13**	**4**	**YES**
S315.2	**Residential**	**B**	**67**	**1**	**2**	**57**	**63**	**54**	**9**	**6**	**NO**
S315.3	**Residential**	**B**	**67**	**1**	**3**	**60**	**65**	**55**	**10**	**5**	**NO**
S315.4	**Residential**	**B**	**67**	**1**	**4**	**64**	**67**	**59**	**8**	**3**	**YES**
S316.1	**Residential**	**B**	**67**	**1**	**1**	**55**	**64**	**54**	**10**	**9**	**NO**
S316.2	**Residential**	**B**	**67**	**1**	**2**	**59**	**69**	**55**	**14**	**10**	**YES**
S316.3	**Residential**	**B**	**67**	**1**	**3**	**65**	**71**	**56**	**15**	**6**	**YES**
S317.1	Residential	B	67	1	1	49	54	48	6	5	NO
S317.2	**Residential**	**B**	**67**	**1**	**2**	**50**	**58**	**49**	**9**	**8**	**NO**
S317.3	**Residential**	**B**	**67**	**1**	**3**	**53**	**60**	**51**	**9**	**7**	**NO**
S318	**Residential Courtyard**	**B**	**67**	**1**	**1**	**51**	**57**	**49**	**8**	**6**	**NO**
S319.1	Residential	B	67	1	1	50	55	49	6	5	NO
S319.2	**Residential**	**B**	**67**	**1**	**2**	**51**	**59**	**49**	**10**	**8**	**NO**
S319.3	**Residential**	**B**	**67**	**1**	**3**	**54**	**61**	**51**	**10**	**7**	**NO**

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S320.1	Residential	B	67	1	1	51	56	49	7	5	NO
S320.2	**Residential**	**B**	**67**	**1**	**2**	**52**	**60**	**50**	**10**	**8**	**NO**
S320.3	**Residential**	**B**	**67**	**1**	**3**	**55**	**62**	**52**	**10**	**7**	**NO**
S321.2	**Residential**	**B**	**67**	**1**	**2**	**64**	**73**	**59**	**14**	**9**	**YES**
S321.3	**Residential**	**B**	**67**	**1**	**3**	**70**	**75**	**61**	**14**	**5**	**YES**
S322.2	**Residential**	**B**	**67**	**1**	**2**	**55**	**62**	**52**	**10**	**7**	**NO**
S322.3	**Residential**	**B**	**67**	**1**	**3**	**58**	**64**	**54**	**10**	**6**	**NO**
S322.4	**Residential**	**B**	**67**	**1**	**4**	**61**	**66**	**56**	**10**	**5**	**YES**
S323.1	**Residential**	**B**	**67**	**1**	**1**	**53**	**59**	**51**	**8**	**6**	**NO**
S323.2	**Residential**	**B**	**67**	**1**	**2**	**56**	**64**	**52**	**12**	**8**	**NO**
S323.3	**Residential**	**B**	**67**	**1**	**3**	**59**	**65**	**54**	**11**	**6**	**NO**
S324.1	Residential	B	67	1	1	52	57	50	7	5	NO
S324.2	**Residential**	**B**	**67**	**1**	**2**	**53**	**62**	**51**	**11**	**9**	**NO**
S324.3	**Residential**	**B**	**67**	**1**	**3**	**56**	**63**	**53**	**10**	**7**	**NO**
S325.3	**Residential**	**B**	**67**	**2**	**3**	**54**	**61**	**52**	**9**	**7**	**NO**
S326.2	**Residential**	**B**	**67**	**1**	**2**	**63**	**74**	**60**	**14**	**11**	**YES**
S326.3	**Residential**	**B**	**67**	**1**	**3**	**69**	**77**	**62**	**15**	**8**	**YES**
S326.4	**Residential**	**B**	**67**	**1**	**4**	**74**	**77**	**65**	**12**	**3**	**YES**
S327.2	Residential	B	67	1	2	55	61	54	7	6	NO
S327.3	**Residential**	**B**	**67**	**1**	**3**	**58**	**64**	**55**	**9**	**6**	**NO**
S327.4	**Residential**	**B**	**67**	**1**	**4**	**62**	**67**	**58**	**9**	**5**	**YES**
S328.1	Residential	B	67	2	1	51	55	49	6	4	NO
S328.2	**Residential**	**B**	**67**	**2**	**2**	**52**	**58**	**50**	**8**	**6**	**NO**
S328.3	**Residential**	**B**	**67**	**2**	**3**	**56**	**61**	**53**	**8**	**5**	**NO**
S329.2	Residential	B	67	1	2	55	60	53	7	5	NO
S329.3	**Residential**	**B**	**67**	**1**	**3**	**57**	**63**	**55**	**8**	**6**	**NO**
S329.4	**Residential**	**B**	**67**	**1**	**4**	**61**	**65**	**57**	**8**	**4**	**NO**
S330.2	**Residential**	**B**	**67**	**2**	**2**	**63**	**74**	**60**	**14**	**11**	**YES**
S330.3	**Residential**	**B**	**67**	**2**	**3**	**69**	**77**	**62**	**15**	**8**	**YES**

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S330.4	**Residential**	**B**	**67**	**2**	**4**	**73**	**77**	**64**	**13**	**4**	**YES**
S331.2	Residential	B	67	1	2	52	55	50	5	3	NO
S331.3	Residential	B	67	1	3	54	57	52	5	3	NO
S331.4	Residential	B	67	1	4	59	60	55	5	1	NO
S332.2	Residential	B	67	1	2	52	55	50	5	3	NO
S332.3	Residential	B	67	1	3	54	56	52	4	2	NO
S332.4	Residential	B	67	1	4	58	59	55	4	1	NO
S333.2	Residential	B	67	2	2	52	55	51	4	3	NO
S333.3	Residential	B	67	2	3	54	56	52	4	2	NO
S333.4	Residential	B	67	2	4	57	58	55	3	1	NO
S334.2	**Residential**	**B**	**67**	**1**	**2**	**63**	**73**	**60**	**13**	**10**	**YES**
S334.3	**Residential**	**B**	**67**	**1**	**3**	**68**	**76**	**61**	**15**	**8**	**YES**
S334.4	**Residential**	**B**	**67**	**1**	**4**	**73**	**77**	**64**	**13**	**4**	**YES**
S335.1	Residential	B	67	4	1	46	51	46	5	5	NO
S335.2	Residential	B	67	4	2	50	54	48	6	4	NO
S335.3	Residential	B	67	4	3	55	59	53	6	4	NO
S336.2	**Residential**	**B**	**67**	**2**	**2**	**62**	**73**	**59**	**14**	**11**	**YES**
S336.3	**Residential**	**B**	**67**	**2**	**3**	**68**	**76**	**61**	**15**	**8**	**YES**
S336.4	**Residential**	**B**	**67**	**2**	**4**	**73**	**77**	**63**	**14**	**4**	**YES**
S337.1	Residential	B	67	2	1	51	54	49	5	3	NO
S337.2	Residential	B	67	2	2	52	56	50	6	4	NO
S337.3	Residential	B	67	2	3	56	59	53	6	3	NO
S338.2	**Residential**	**B**	**67**	**1**	**2**	**61**	**72**	**59**	**13**	**11**	**YES**
S338.3	**Residential**	**B**	**67**	**1**	**3**	**67**	**75**	**60**	**15**	**8**	**YES**
S338.4	**Residential**	**B**	**67**	**1**	**4**	**73**	**77**	**63**	**14**	**4**	**YES**
S339.1	**Residential**	**B**	**67**	**1**	**1**	**55**	**62**	**53**	**9**	**7**	**NO**
S339.2	**Residential**	**B**	**67**	**1**	**2**	**60**	**66**	**54**	**12**	**6**	**YES**
S339.3	**Residential**	**B**	**67**	**1**	**3**	**65**	**69**	**58**	**11**	**4**	**YES**
S340	Oak Park Nursing and Rehab Center	B	67	1	1	58	65	59	6	7	NO

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S341	Oak Park Nursing and Rehab Center	B	67	1	1	57	63	58	5	6	NO
S342	Oak Park Nursing and Rehab Center	B	67	1	1	49	52	46	6	3	NO
S343.2	**Oak Park Nursing and Rehab Center**	**B**	**67**	**1**	**2**	**65**	**69**	**58**	**11**	**4**	**YES**
S344	**Oak Park Nursing and Rehab Center**	**B**	**67**	**1**	**1**	**57**	**63**	**53**	**10**	**6**	**NO**
S345.2	**Residential**	**B**	**67**	**1**	**2**	**64**	**69**	**59**	**10**	**5**	**YES**
S345.3	**Residential**	**B**	**67**	**1**	**3**	**70**	**73**	**59**	**14**	**3**	**YES**
S345.4	**Residential**	**B**	**67**	**1**	**4**	**72**	**75**	**60**	**15**	**3**	**YES**
S345.5	**Residential**	**B**	**67**	**1**	**5**	**73**	**76**	**63**	**13**	**3**	**YES**
S346.2	**Residential**	**B**	**67**	**1**	**2**	**65**	**69**	**59**	**10**	**4**	**YES**
S346.3	**Residential**	**B**	**67**	**1**	**3**	**70**	**73**	**59**	**14**	**3**	**YES**
S346.4	**Residential**	**B**	**67**	**1**	**4**	**72**	**76**	**61**	**15**	**4**	**YES**
S346.5	**Residential**	**B**	**67**	**1**	**5**	**74**	**76**	**63**	**13**	**2**	**YES**
S347.3	**Residential**	**B**	**67**	**1**	**3**	**60**	**65**	**54**	**11**	**5**	**NO**
S347.4	**Residential**	**B**	**67**	**1**	**4**	**64**	**67**	**55**	**12**	**3**	**YES**
S348.1	**Residential**	**B**	**67**	**1**	**1**	**63**	**68**	**59**	**9**	**5**	**YES**
S348.2	**Residential**	**B**	**67**	**1**	**2**	**69**	**72**	**60**	**12**	**3**	**YES**
S348.3	**Residential**	**B**	**67**	**1**	**3**	**72**	**74**	**60**	**14**	**2**	**YES**
S348.4	**Residential**	**B**	**67**	**1**	**4**	**73**	**76**	**62**	**14**	**3**	**YES**
S349.1	Residential	B	67	2	1	47	50	43	7	3	NO
S349.2	**Residential**	**B**	**67**	**2**	**2**	**50**	**52**	**44**	**8**	**2**	**NO**
S349.3	Residential	B	67	2	3	52	54	47	7	2	NO
S349.4	**Residential**	**B**	**67**	**2**	**4**	**56**	**59**	**50**	**9**	**3**	**NO**
S350.1	**Residential**	**B**	**67**	**2**	**1**	**66**	**69**	**59**	**10**	**3**	**YES**
S350.2	**Residential**	**B**	**67**	**2**	**2**	**71**	**73**	**60**	**13**	**2**	**YES**
S350.3	**Residential**	**B**	**67**	**2**	**3**	**72**	**75**	**61**	**14**	**3**	**YES**
S350.4	**Residential**	**B**	**67**	**2**	**4**	**73**	**76**	**63**	**13**	**3**	**YES**
S351.2	**Residential**	**B**	**67**	**1**	**2**	**50**	**52**	**44**	**8**	**2**	**NO**
S351.3	**Residential**	**B**	**67**	**1**	**3**	**52**	**54**	**46**	**8**	**2**	**NO**
S352.1	**Residential**	**B**	**67**	**2**	**1**	**48**	**50**	**42**	**8**	**2**	**NO**

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S352.2	**Residential**	**B**	**67**	**2**	**2**	**50**	**52**	**43**	**9**	**2**	**NO**
S352.3	**Residential**	**B**	**67**	**2**	**3**	**52**	**54**	**46**	**8**	**2**	**NO**
S352.4	**Residential**	**B**	**67**	**2**	**4**	**56**	**58**	**50**	**8**	**2**	**NO**
S353.1	**Residential**	**B**	**67**	**1**	**1**	**64**	**67**	**58**	**9**	**3**	**YES**
S353.2	**Residential**	**B**	**67**	**1**	**2**	**69**	**70**	**59**	**11**	**1**	**YES**
S353.3	**Residential**	**B**	**67**	**1**	**3**	**71**	**73**	**60**	**13**	**2**	**YES**
S353.4	**Residential**	**B**	**67**	**1**	**4**	**72**	**75**	**61**	**14**	**3**	**YES**
S354.1	Residential	B	67	1	1	49	51	45	6	2	NO
S354.2	Residential	B	67	1	2	49	51	45	6	2	NO
S354.3	Residential	B	67	1	3	52	54	47	7	2	NO
S354.4	Residential	B	67	1	4	56	58	52	6	2	NO
S355.1	Residential	B	67	2	1	61	63	56	7	2	NO
S355.2	**Residential**	**B**	**67**	**2**	**2**	**65**	**67**	**57**	**10**	**2**	**YES**
S355.3	**Residential**	**B**	**67**	**2**	**3**	**69**	**70**	**57**	**13**	**1**	**YES**
S355.4	**Residential**	**B**	**67**	**2**	**4**	**70**	**71**	**58**	**13**	**1**	**YES**
S356.1	Residential	B	67	2	1	61	63	56	7	2	NO
S356.2	**Residential**	**B**	**67**	**2**	**2**	**64**	**66**	**56**	**10**	**2**	**YES**
S356.3	**Residential**	**B**	**67**	**2**	**3**	**66**	**69**	**57**	**12**	**3**	**YES**
S356.4	**Residential**	**B**	**67**	**2**	**4**	**68**	**70**	**58**	**12**	**2**	**YES**
S357.1	**Residential**	**B**	**67**	**1**	**1**	**60**	**63**	**55**	**8**	**3**	**NO**
S357.2	**Residential**	**B**	**67**	**1**	**2**	**61**	**65**	**55**	**10**	**4**	**NO**
S357.3	**Residential**	**B**	**67**	**1**	**3**	**64**	**67**	**56**	**11**	**3**	**YES**
S357.4	**Residential**	**B**	**67**	**1**	**4**	**66**	**68**	**58**	**10**	**2**	**YES**
S358.2	Residential	B	67	2	2	60	62	55	7	2	NO
S358.3	**Residential**	**B**	**67**	**2**	**3**	**62**	**64**	**55**	**9**	**2**	**NO**
S358.4	**Residential**	**B**	**67**	**2**	**4**	**63**	**66**	**57**	**9**	**3**	**YES**
S358.5	**Residential**	**B**	**67**	**2**	**5**	**66**	**69**	**58**	**11**	**3**	**YES**
S359	Residential Pool	B	67	1	1	55	63	57	6	8	NO
S360.2	**Residential**	**B**	**67**	**2**	**2**	**56**	**64**	**56**	**8**	**8**	**NO**

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S360.3	**Residential**	**B**	**67**	**2**	**3**	**62**	**69**	**57**	**12**	**7**	**YES**
S360.4	**Residential**	**B**	**67**	**2**	**4**	**68**	**72**	**58**	**14**	**4**	**YES**
S361.2	**Residential**	**B**	**67**	**1**	**2**	**55**	**65**	**57**	**8**	**10**	**NO**
S361.3	**Residential**	**B**	**67**	**1**	**3**	**61**	**71**	**57**	**14**	**10**	**YES**
S361.4	**Residential**	**B**	**67**	**1**	**4**	**70**	**75**	**59**	**16**	**5**	**YES**
S362.1	Residential	B	67	1	1	55	61	55	6	6	NO
S362.2	**Residential**	**B**	**67**	**1**	**2**	**59**	**64**	**55**	**9**	**5**	**NO**
S362.3	**Residential**	**B**	**67**	**1**	**3**	**63**	**67**	**55**	**12**	**4**	**YES**
S363.1	Residential	B	67	1	1	54	59	54	5	5	NO
S363.2	Residential	B	67	1	2	57	62	55	7	5	NO
S364.1	Residential	B	67	1	1	56	66	60	6	10	YES
S364.2	**Residential**	**B**	**67**	**1**	**2**	**61**	**74**	**60**	**14**	**13**	**YES**
S364.3	**Residential**	**B**	**67**	**1**	**3**	**72**	**79**	**62**	**17**	**7**	**YES**
S365.1	Residential	B	67	1	1	56	66	60	6	10	YES
S365.2	**Residential**	**B**	**67**	**1**	**2**	**61**	**74**	**60**	**14**	**13**	**YES**
S365.3	**Residential**	**B**	**67**	**1**	**3**	**72**	**78**	**62**	**16**	**6**	**YES**
S366.1	Residential	B	67	1	1	49	52	50	2	3	NO
S366.2	Residential	B	67	1	2	51	54	51	3	3	NO
S366.3	Residential	B	67	1	3	53	56	53	3	3	NO
S367.1	Residential	B	67	1	1	46	48	46	2	2	NO
S367.2	Residential	B	67	1	2	47	49	46	3	2	NO
S367.3	Residential	B	67	1	3	49	50	47	3	1	NO
S368.3	**Residential**	**B**	**67**	**1**	**3**	**69**	**72**	**59**	**13**	**3**	**YES**
S368.4	**Residential**	**B**	**67**	**1**	**4**	**72**	**75**	**64**	**11**	**3**	**YES**
S369.1	Residential	B	67	2	1	55	63	57	6	8	NO
S369.2	**Residential**	**B**	**67**	**2**	**2**	**60**	**68**	**57**	**11**	**8**	**YES**
S369.3	**Residential**	**B**	**67**	**2**	**3**	**66**	**73**	**59**	**14**	**7**	**YES**
S370.1	Residential	B	67	2	1	54	63	56	7	9	NO
S370.2	**Residential**	**B**	**67**	**2**	**2**	**59**	**66**	**57**	**9**	**7**	**YES**

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S370.3	**Residential**	**B**	**67**	**2**	**3**	**66**	**70**	**57**	**13**	**4**	**YES**
S370.4	**Residential**	**B**	**67**	**2**	**4**	**70**	**73**	**59**	**14**	**3**	**YES**
S371.1	Residential	B	67	4	1	46	48	44	4	2	NO
S371.2	Residential	B	67	4	2	48	50	45	5	2	NO
S371.3	Residential	B	67	4	3	50	52	48	4	2	NO
S371.4	Residential	B	67	4	4	54	56	52	4	2	NO
S372.1	**Residential**	**B**	**67**	**2**	**1**	**54**	**64**	**56**	**8**	**10**	**NO**
S372.2	**Residential**	**B**	**67**	**2**	**2**	**59**	**67**	**57**	**10**	**8**	**YES**
S372.3	**Residential**	**B**	**67**	**2**	**3**	**66**	**71**	**57**	**14**	**5**	**YES**
S372.4	**Residential**	**B**	**67**	**2**	**4**	**70**	**73**	**58**	**15**	**3**	**YES**
S373.1	**Residential**	**B**	**67**	**2**	**1**	**54**	**63**	**55**	**8**	**9**	**NO**
S373.2	**Residential**	**B**	**67**	**2**	**2**	**58**	**66**	**56**	**10**	**8**	**YES**
S373.3	**Residential**	**B**	**67**	**2**	**3**	**64**	**69**	**56**	**13**	**5**	**YES**
S373.4	**Residential**	**B**	**67**	**2**	**4**	**69**	**72**	**57**	**15**	**3**	**YES**
S374	Residential	B	67	2	1	54	58	54	4	4	NO
S375.1	Residential	B	67	2	1	51	53	51	2	2	NO
S375.2	Residential	B	67	2	2	52	54	53	1	2	NO
S375.3	Residential	B	67	2	3	55	57	55	2	2	NO
S375.4	Residential	B	67	2	4	58	60	58	2	2	NO
S376.1	Residential	B	67	1	1	53	61	56	5	8	NO
S376.2	Residential	B	67	1	2	56	63	57	6	7	NO
S376.3	**Residential**	**B**	**67**	**1**	**3**	**63**	**68**	**58**	**10**	**5**	**YES**
S376.4	**Residential**	**B**	**67**	**1**	**4**	**68**	**71**	**60**	**11**	**3**	**YES**
S377.1	Residential	B	67	1	1	54	64	57	7	10	NO
S377.2	**Residential**	**B**	**67**	**1**	**2**	**58**	**66**	**58**	**8**	**8**	**YES**
S377.3	**Residential**	**B**	**67**	**1**	**3**	**65**	**71**	**59**	**12**	**6**	**YES**
S377.4	**Residential**	**B**	**67**	**1**	**4**	**71**	**74**	**61**	**13**	**3**	**YES**
S378.1	Residential	B	67	2	1	53	60	55	5	7	NO
S378.2	Residential	B	67	2	2	55	62	56	6	7	NO

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NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S378.3	**Residential**	**B**	**67**	**2**	**3**	**61**	**66**	**58**	**8**	**5**	**YES**
S378.4	**Residential**	**B**	**67**	**2**	**4**	**66**	**69**	**60**	**9**	**3**	**YES**
S390.2	Residential	B	67	1	2	58	59	59	0	1	NO
S391.2	Residential	B	67	1	2	57	59	59	0	2	NO
S392.2	Residential	B	67	1	2	55	57	57	0	2	NO
S393.2	Residential	B	67	1	2	54	57	57	0	3	NO
S395.2	Residential	B	67	1	2	50	52	52	0	2	NO
S397.2	Residential	B	67	2	2	59	61	61	0	2	NO
S398.2	Residential	B	67	2	2	58	60	60	0	2	NO
S399.2	Residential	B	67	1	2	62	64	64	0	2	NO
S400	Residential Patio	B	67	1	1	54	56	56	0	2	NO
S401.1	Residential	B	67	1	1	57	60	60	0	3	NO
S401.2	Residential	B	67	1	2	61	63	63	0	2	NO
S402.1	Residential	B	67	2	1	55	57	57	0	2	NO
S402.2	Residential	B	67	2	2	58	60	59	1	2	NO
S403.1	Residential	B	67	2	1	54	56	56	0	2	NO
S403.2	Residential	B	67	2	2	57	59	59	0	2	NO
S404.2	Residential	B	67	1	2	53	55	55	0	2	NO
S405.2	Residential	B	67	1	2	59	59	59	0	0	NO
S406.2	Residential	B	67	1	2	58	59	59	0	1	NO
S407.2	Residential	B	67	1	2	56	58	58	0	2	NO
S408.2	Residential	B	67	1	2	59	61	61	0	2	NO
S409.2	Residential	B	67	1	2	56	58	58	0	2	NO
S410.2	Residential	B	67	1	2	60	61	61	0	1	NO
S411.2	Residential	B	67	1	2	58	60	60	0	2	NO
S412.2	Residential	B	67	1	2	57	59	58	1	2	NO
S413.2	Residential	B	67	1	2	56	58	58	0	2	NO
S414.2	Residential	B	67	1	2	59	61	61	0	2	NO
S415.2	Residential	B	67	1	2	61	61	61	0	0	NO

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Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S415a.2	Residential	B	67	1	2	54	55	55	0	1	NO
S416.2	Residential	B	67	1	2	57	58	58	0	1	NO
S417.1	Residential	B	67	2	1	61	62	62	0	1	NO
S417.2	Residential	B	67	2	2	64	64	64	0	0	NO
S418.1	Residential	B	67	2	1	61	62	62	0	1	NO
S418.2	Residential	B	67	2	2	64	64	64	0	0	NO
S419	Residential	B	67	2	1	66	66	63	3	0	YES
S420	Residential	B	67	4	1	62	63	61	2	1	NO
S421	Residential	B	67	2	1	65	66	61	5	1	YES
S422	Residential	B	67	2	1	64	65	60	5	1	NO
S423	**Residential**	**B**	**67**	**2**	**1**	**72**	**70**	**60**	**10**	**-2**	**YES**
S424	Residential	B	67	2	1	59	61	58	3	2	NO
S425	Residential	B	67	2	1	63	64	59	5	1	NO
S426	Residential	B	67	2	1	58	60	56	4	2	NO
S427	**Residential**	**B**	**67**	**2**	**1**	**70**	**69**	**59**	**10**	**-1**	**YES**
S428	Residential	B	67	2	1	62	63	58	5	1	NO
S429	**Residential**	**B**	**67**	**2**	**1**	**69**	**69**	**58**	**11**	**0**	**YES**
S430	Residential	B	67	2	1	62	63	57	6	1	NO
S431	Residential	B	67	2	1	60	61	57	4	1	NO
S432	**Residential**	**B**	**67**	**2**	**1**	**69**	**68**	**57**	**11**	**-1**	**YES**
S433	Residential	B	67	2	1	61	62	57	5	1	NO
S434	**Residential**	**B**	**67**	**2**	**1**	**69**	**68**	**57**	**11**	**-1**	**YES**
S435	Residential	B	67	2	1	58	59	55	4	1	NO
S436	**Residential**	**B**	**67**	**2**	**1**	**69**	**68**	**58**	**10**	**-1**	**YES**
S437	**Residential**	**B**	**67**	**2**	**1**	**66**	**65**	**57**	**8**	**-1**	**NO**
S438	Residential	B	67	4	1	57	59	55	4	2	NO
S439	Residential	B	67	2	1	60	61	56	5	1	NO
S440	**Residential**	**B**	**67**	**2**	**1**	**68**	**67**	**57**	**10**	**-1**	**YES**
S441	Residential	B	67	4	1	57	59	55	4	2	NO

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NA = Not applicable to barrier analysis

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S442	Residential	B	67	2	1	61	61	56	5	0	NO
S443	Residential	B	67	4	1	57	59	55	4	2	NO
S444	Residential	B	67	2	1	60	61	55	6	1	NO
S445	Residential	B	67	2	1	60	61	55	6	1	NO
S446	Residential	B	67	2	1	61	61	56	5	0	NO
S447	Residential	B	67	2	1	57	58	55	3	1	NO
S448	Residential	B	67	2	1	61	61	56	5	0	NO
S449	Residential	B	67	2	1	61	61	56	5	0	NO
S450	Residential	B	67	2	1	56	57	54	3	1	NO
S451	Residential	B	67	2	1	61	62	56	6	1	NO
S452	Residential	B	67	2	1	60	61	55	6	1	NO
S453	Residential	B	67	2	1	55	57	53	4	2	NO
S454	Residential	B	67	1	1	56	57	54	3	1	NO
S455	Residential	B	67	2	1	55	57	53	4	2	NO
S456	Residential	B	67	1	1	62	62	56	6	0	NO
S457	Residential	B	67	1	1	61	62	56	6	1	NO
S458	Residential	B	67	1	1	62	63	57	6	1	NO
S459	Residential	B	67	1	1	62	62	56	6	0	NO
S460	Residential	B	67	1	1	61	62	56	6	1	NO
S461	Residential	B	67	1	1	61	62	55	7	1	NO
S462	Residential	B	67	1	1	61	61	55	6	0	NO
S463	Residential	B	67	1	1	57	58	54	4	1	NO
S464	Residential	B	67	2	1	55	56	52	4	1	NO
S465	Residential	B	67	1	1	59	60	54	6	1	NO
S466	Residential	B	67	1	1	60	61	55	6	1	NO
S467.1	Residential	B	67	1	1	48	48	45	3	0	NO
S467.2	Residential	B	67	1	2	50	50	47	3	0	NO
S467.3	Residential	B	67	1	3	53	54	49	5	1	NO
S468.1	Residential	B	67	1	1	63	61	54	7	-2	NO

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NA = Not applicable to barrier analysis

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S468.2	**Residential**	**B**	**67**	**1**	**2**	**66**	**66**	**56**	**10**	**0**	**YES**
S468.3	**Residential**	**B**	**67**	**1**	**3**	**67**	**68**	**59**	**9**	**1**	**YES**
S469.1	Residential	B	67	1	1	49	50	49	1	1	NO
S469.2	Residential	B	67	1	2	52	53	51	2	1	NO
S470.1	Residential	B	67	1	1	47	47	46	1	0	NO
S470.2	Residential	B	67	1	2	50	51	50	1	1	NO
S471.1	Residential	B	67	2	1	47	47	44	3	0	NO
S471.2	Residential	B	67	2	2	50	50	46	4	0	NO
S471.3	Residential	B	67	2	3	53	53	49	4	0	NO
S472.1	Residential	B	67	2	1	49	49	49	0	0	NO
S472.2	Residential	B	67	2	2	52	53	52	1	1	NO
S473.1	**Residential**	**B**	**67**	**1**	**1**	**64**	**62**	**54**	**8**	**-2**	**NO**
S473.2	**Residential**	**B**	**67**	**1**	**2**	**67**	**67**	**56**	**11**	**0**	**YES**
S473.3	**Residential**	**B**	**67**	**1**	**3**	**68**	**68**	**60**	**8**	**0**	**YES**
S474.1	Residential	B	67	1	1	53	53	49	4	0	NO
S474.2	Residential	B	67	1	2	56	56	51	5	0	NO
S475.1	Residential	B	67	2	1	46	47	46	1	1	NO
S475.2	Residential	B	67	2	2	50	51	51	0	1	NO
S476.1	Residential	B	67	1	1	51	53	50	3	2	NO
S476.2	Residential	B	67	1	2	55	56	52	4	1	NO
S477.1	**Residential**	**B**	**67**	**1**	**1**	**65**	**63**	**55**	**8**	**-2**	**NO**
S477.2	**Residential**	**B**	**67**	**1**	**2**	**68**	**67**	**56**	**11**	**-1**	**YES**
S477.3	**Residential**	**B**	**67**	**1**	**3**	**69**	**69**	**61**	**8**	**0**	**YES**
S478.1	Residential	B	67	1	1	55	56	52	4	1	NO
S478.2	Residential	B	67	1	2	59	60	53	7	1	NO
S479.1	Residential	B	67	2	1	56	57	53	4	1	NO
S479.2	Residential	B	67	2	2	60	60	55	5	0	NO
S480.1	Residential	B	67	1	1	52	54	50	4	2	NO
S480.2	Residential	B	67	1	2	56	57	51	6	1	NO

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S481.1	Residential	B	67	1	1	48	47	44	3	-1	NO
S481.2	Residential	B	67	1	2	49	50	47	3	1	NO
S481.3	Residential	B	67	1	3	54	55	52	3	1	NO
S482.1	Residential	B	67	2	1	47	47	43	4	0	NO
S482.2	Residential	B	67	2	2	50	50	46	4	0	NO
S482.3	Residential	B	67	2	3	54	54	50	4	0	NO
S483.1	Residential	B	67	1	1	55	57	52	5	2	NO
S483.2	Residential	B	67	1	2	59	60	53	7	1	NO
S484.1	Residential	B	67	1	1	54	54	50	4	0	NO
S484.2	Residential	B	67	1	2	58	57	52	5	-1	NO
S485.1	Residential	B	67	1	1	55	56	52	4	1	NO
S485.2	Residential	B	67	1	2	59	60	53	7	1	NO
S486.1	Residential	B	67	1	1	56	57	53	4	1	NO
S486.2	Residential	B	67	1	2	60	60	54	6	0	NO
S487.1	**Residential**	**B**	**67**	**1**	**1**	**68**	**64**	**56**	**8**	**-4**	**NO**
S487.2	**Residential**	**B**	**67**	**1**	**2**	**69**	**69**	**57**	**12**	**0**	**YES**
S487.3	Residential	B	67	1	3	70	70	64	6	0	YES
S488.1	Residential	B	67	1	1	57	58	54	4	1	NO
S488.2	Residential	B	67	1	2	60	61	55	6	1	NO
S489	Residential	B	67	1	1	49	50	45	5	1	NO
S490.1	Residential	B	67	1	1	56	57	52	5	1	NO
S490.2	Residential	B	67	1	2	60	60	54	6	0	NO
S491.1	Residential	B	67	1	1	55	56	52	4	1	NO
S491.2	Residential	B	67	1	2	60	60	53	7	0	NO
S492.1	**Residential**	**B**	**67**	**1**	**1**	**64**	**63**	**55**	**8**	**-1**	**NO**
S492.2	**Residential**	**B**	**67**	**1**	**2**	**67**	**67**	**57**	**10**	**0**	**YES**
S492.3	Residential	B	67	1	3	68	68	61	7	0	YES
S493.1	**Residential**	**B**	**67**	**1**	**1**	**67**	**65**	**56**	**9**	**-2**	**NO**
S493.2	**Residential**	**B**	**67**	**1**	**2**	**68**	**68**	**58**	**10**	**0**	**YES**

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S493.3	Residential	B	67	1	3	69	69	64	5	0	YES
S494.1	Residential	B	67	1	1	56	58	54	4	2	NO
S494.2	Residential	B	67	1	2	60	61	55	6	1	NO
S495.1	**Residential**	**B**	**67**	**1**	**1**	**68**	**65**	**56**	**9**	**-3**	**NO**
S495.2	**Residential**	**B**	**67**	**1**	**2**	**69**	**69**	**58**	**11**	**0**	**YES**
S495.3	Residential	B	67	1	3	70	70	65	5	0	YES
S496.1	Residential	B	67	2	1	49	50	46	4	1	NO
S496.2	Residential	B	67	2	2	51	51	48	3	0	NO
S496.3	Residential	B	67	2	3	54	55	51	4	1	NO
S497.1	Residential	B	67	2	1	54	56	51	5	2	NO
S497.2	Residential	B	67	2	2	58	60	54	6	2	NO
S497.3	Residential	B	67	2	3	60	62	56	6	2	NO
S498.1	**Residential**	**B**	**67**	**1**	**1**	**66**	**64**	**56**	**8**	**-2**	**NO**
S498.2	**Residential**	**B**	**67**	**1**	**2**	**68**	**68**	**57**	**11**	**0**	**YES**
S498.3	Residential	B	67	1	3	69	69	63	6	0	YES
S499.1	Residential	B	67	1	1	57	59	54	5	2	NO
S499.2	Residential	B	67	1	2	60	62	55	7	2	NO
S500.1	**Residential**	**B**	**67**	**1**	**1**	**66**	**64**	**56**	**8**	**-2**	**NO**
S500.2	**Residential**	**B**	**67**	**1**	**2**	**68**	**69**	**57**	**12**	**1**	**YES**
S500.3	Residential	B	67	1	3	69	69	63	6	0	YES
S501.1	Residential	B	67	1	1	50	50	47	3	0	NO
S501.2	Residential	B	67	1	2	51	52	48	4	1	NO
S501.3	Residential	B	67	1	3	55	57	53	4	2	NO
S502.1	Residential	B	67	2	1	48	49	45	4	1	NO
S502.2	Residential	B	67	2	2	51	52	48	4	1	NO
S502.3	Residential	B	67	2	3	55	56	51	5	1	NO
S503.1	Residential	B	67	1	1	57	59	55	4	2	NO
S503.2	Residential	B	67	1	2	61	62	56	6	1	NO
S504	Residential Pool	B	67	1	1	58	58	53	5	0	NO

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S505.1	Residential	B	67	1	1	56	57	52	5	1	NO
S505.2	Residential	B	67	1	2	60	61	55	6	1	NO
S505.3	Residential	B	67	1	3	61	63	56	7	2	NO
S506.1	Residential	B	67	2	1	53	55	49	6	2	NO
S506.2	Residential	B	67	2	2	57	58	51	7	1	NO
S507.1	**Residential**	**B**	**67**	**1**	**1**	**68**	**66**	**57**	**9**	**-2**	**YES**
S507.2	**Residential**	**B**	**67**	**1**	**2**	**69**	**69**	**58**	**11**	**0**	**YES**
S507.3	Residential	B	67	1	3	70	70	65	5	0	YES
S508.1	Residential	B	67	1	1	58	60	55	5	2	NO
S508.2	Residential	B	67	1	2	61	63	56	7	2	NO
S509.1	Residential	B	67	1	1	51	52	49	3	1	NO
S509.2	Residential	B	67	1	2	53	54	50	4	1	NO
S509.3	Residential	B	67	1	3	56	57	53	4	1	NO
S510.1	Residential	B	67	1	1	52	54	48	6	2	NO
S510.2	Residential	B	67	1	2	58	59	54	5	1	NO
S511.1	**Residential**	**B**	**67**	**1**	**1**	**66**	**65**	**56**	**9**	**-1**	**NO**
S511.2	**Residential**	**B**	**67**	**1**	**2**	**68**	**69**	**58**	**11**	**1**	**YES**
S511.3	Residential	B	67	1	3	69	70	63	7	1	YES
S512.1	Residential	B	67	1	1	54	56	50	6	2	NO
S512.2	Residential	B	67	1	2	59	60	53	7	1	NO
S513.1	Residential	B	67	1	1	51	52	49	3	1	NO
S513.2	Residential	B	67	1	2	52	54	50	4	2	NO
S513.3	Residential	B	67	1	3	56	58	53	5	2	NO
S514.1	**Residential**	**B**	**67**	**1**	**1**	**68**	**66**	**57**	**9**	**-2**	**YES**
S514.2	**Residential**	**B**	**67**	**1**	**2**	**69**	**69**	**59**	**10**	**0**	**YES**
S514.3	Residential	B	67	1	3	70	70	64	6	0	YES
S515.1	Residential	B	67	1	1	50	50	45	5	0	NO
S515.2	Residential	B	67	1	2	51	52	48	4	1	NO
S515.3	Residential	B	67	1	3	56	57	51	6	1	NO

YES = Impact, NO = No Impact

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Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S516.1	Residential	B	67	1	1	50	51	47	4	1	NO
S516.2	Residential	B	67	1	2	51	52	48	4	1	NO
S516.3	Residential	B	67	1	3	56	57	52	5	1	NO
S517.1	Residential	B	67	1	1	52	54	49	5	2	NO
S517.2	Residential	B	67	1	2	58	59	54	5	1	NO
S518.1	**Residential**	**B**	**67**	**1**	**1**	**67**	**65**	**56**	**9**	**-2**	**NO**
S518.2	**Residential**	**B**	**67**	**1**	**2**	**69**	**69**	**57**	**12**	**0**	**YES**
S519.1	Residential	B	67	2	1	49	50	45	5	1	NO
S519.2	Residential	B	67	2	2	52	53	47	6	1	NO
S519.3	Residential	B	67	2	3	56	57	52	5	1	NO
S520.1	**Residential**	**B**	**67**	**1**	**1**	**64**	**63**	**55**	**8**	**-1**	**NO**
S520.2	**Residential**	**B**	**67**	**1**	**2**	**67**	**68**	**57**	**11**	**1**	**YES**
S521	Residential Playground	B	67	1	1	56	58	51	7	2	NO
S522.1	**Residential**	**B**	**67**	**1**	**1**	**65**	**64**	**55**	**9**	**-1**	**NO**
S522.2	**Residential**	**B**	**67**	**1**	**2**	**67**	**68**	**57**	**11**	**1**	**YES**
S523.1	Residential	B	67	1	1	50	52	48	4	2	NO
S523.2	Residential	B	67	1	2	55	57	51	6	2	NO
S524.1	**Residential**	**B**	**67**	**1**	**1**	**66**	**65**	**56**	**9**	**-1**	**NO**
S524.2	**Residential**	**B**	**67**	**1**	**2**	**68**	**69**	**57**	**12**	**1**	**YES**
S525.1	Residential	B	67	1	1	49	51	48	3	2	NO
S525.2	Residential	B	67	1	2	54	56	50	6	2	NO
S526.1	**Residential**	**B**	**67**	**1**	**1**	**69**	**66**	**57**	**9**	**-3**	**YES**
S526.2	**Residential**	**B**	**67**	**1**	**2**	**70**	**70**	**58**	**12**	**0**	**YES**
S527.1	Residential	B	67	1	1	50	52	47	5	2	NO
S527.2	Residential	B	67	1	2	52	54	49	5	2	NO
S527.3	Residential	B	67	1	3	57	58	54	4	1	NO
S528.1	Residential	B	67	1	1	57	60	56	4	3	NO
S528.2	Residential	B	67	1	2	62	63	58	5	1	NO
S529.1	Residential	B	67	2	1	48	49	47	2	1	NO

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S529.2	Residential	B	67	2	2	54	56	50	6	2	NO
S530.1	**Residential**	**B**	**67**	**1**	**1**	**68**	**66**	**57**	**9**	**-2**	**YES**
S530.2	**Residential**	**B**	**67**	**1**	**2**	**69**	**70**	**58**	**12**	**1**	**YES**
S531.1	Residential	B	67	2	1	48	50	47	3	2	NO
S531.2	Residential	B	67	2	2	54	56	51	5	2	NO
S532	**Residential Recreation Area**	**B**	**67**	**1**	**1**	**58**	**59**	**50**	**9**	**1**	**NO**
S533.1	**Residential**	**B**	**67**	**1**	**1**	**65**	**64**	**55**	**9**	**-1**	**NO**
S533.2	**Residential**	**B**	**67**	**1**	**2**	**68**	**69**	**56**	**13**	**1**	**YES**
S534.1	Residential	B	67	1	1	50	52	46	6	2	NO
S534.2	Residential	B	67	1	2	52	53	48	5	1	NO
S534.3	Residential	B	67	1	3	57	58	53	5	1	NO
S535.1	Residential	B	67	1	1	56	57	51	6	1	NO
S535.2	**Residential**	**B**	**67**	**1**	**2**	**61**	**62**	**52**	**10**	**1**	**NO**
S536.1	Residential	B	67	1	1	58	60	57	3	2	NO
S536.2	Residential	B	67	1	2	62	64	59	5	2	NO
S537.1	Residential	B	67	1	1	57	59	53	6	2	NO
S537.2	Residential	B	67	1	2	61	63	56	7	2	NO
S538.1	Residential	B	67	1	1	58	59	52	7	1	NO
S538.2	**Residential**	**B**	**67**	**1**	**2**	**63**	**65**	**53**	**12**	**2**	**NO**
S539.1	Residential	B	67	1	1	50	51	45	6	1	NO
S539.2	Residential	B	67	1	2	52	53	46	7	1	NO
S539.3	Residential	B	67	1	3	56	58	52	6	2	NO
S540.1	Residential	B	67	1	1	57	59	53	6	2	NO
S540.2	Residential	B	67	1	2	61	63	56	7	2	NO
S541.1	**Residential**	**B**	**67**	**1**	**1**	**66**	**65**	**56**	**9**	**-1**	**NO**
S541.2	**Residential**	**B**	**67**	**1**	**2**	**68**	**70**	**57**	**13**	**2**	**YES**
S542.1	Residential	B	67	1	1	57	59	53	6	2	NO
S542.2	Residential	B	67	1	2	61	63	56	7	2	NO
S543.1	Residential	B	67	1	1	57	59	53	6	2	NO

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S543.2	Residential	B	67	1	2	61	63	56	7	2	NO
S544.1	Residential	B	67	1	1	51	53	48	5	2	NO
S544.2	Residential	B	67	1	2	52	54	49	5	2	NO
S544.3	Residential	B	67	1	3	58	60	56	4	2	NO
S545.1	**Residential**	**B**	**67**	**1**	**1**	**67**	**66**	**56**	**10**	**-1**	**YES**
S545.2	**Residential**	**B**	**67**	**1**	**2**	**69**	**70**	**57**	**13**	**1**	**YES**
S546.1	Residential	B	67	1	1	59	61	54	7	2	NO
S546.2	**Residential**	**B**	**67**	**1**	**2**	**63**	**65**	**57**	**8**	**2**	**NO**
S546.3	**Residential**	**B**	**67**	**1**	**3**	**64**	**66**	**58**	**8**	**2**	**YES**
S547.1	Residential	B	67	2	1	49	51	44	7	2	NO
S547.2	Residential	B	67	2	2	52	53	46	7	1	NO
S547.3	Residential	B	67	2	3	57	58	52	6	1	NO
S548.1	Residential	B	67	2	1	59	60	54	6	1	NO
S548.2	Residential	B	67	2	2	62	64	57	7	2	NO
S548.3	Residential	B	67	2	3	63	65	58	7	2	NO
S549.1	**Residential**	**B**	**67**	**1**	**1**	**69**	**68**	**57**	**11**	**-1**	**YES**
S549.2	**Residential**	**B**	**67**	**1**	**2**	**70**	**71**	**58**	**13**	**1**	**YES**
S550.1	**Residential**	**B**	**67**	**1**	**1**	**68**	**69**	**57**	**12**	**1**	**YES**
S550.2	**Residential**	**B**	**67**	**1**	**2**	**69**	**71**	**59**	**12**	**2**	**YES**
S551.1	**Residential**	**B**	**67**	**1**	**1**	**65**	**65**	**55**	**10**	**0**	**NO**
S551.2	**Residential**	**B**	**67**	**1**	**2**	**68**	**69**	**56**	**13**	**1**	**YES**
S552.1	Residential	B	67	1	1	59	61	54	7	2	NO
S552.2	**Residential**	**B**	**67**	**1**	**2**	**64**	**65**	**57**	**8**	**1**	**NO**
S552.3	**Residential**	**B**	**67**	**1**	**3**	**64**	**66**	**58**	**8**	**2**	**YES**
S553.1	**Residential**	**B**	**67**	**1**	**1**	**69**	**70**	**58**	**12**	**1**	**YES**
S553.2	**Residential**	**B**	**67**	**1**	**2**	**70**	**71**	**59**	**12**	**1**	**YES**
S554.1	**Residential**	**B**	**67**	**1**	**1**	**56**	**58**	**50**	**8**	**2**	**NO**
S554.2	**Residential**	**B**	**67**	**1**	**2**	**59**	**61**	**53**	**8**	**2**	**NO**
S555.1	Residential	B	67	1	1	60	62	55	7	2	NO

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S555.2	**Residential**	**B**	**67**	**1**	**2**	**65**	**66**	**57**	**9**	**1**	**YES**
S555.3	**Residential**	**B**	**67**	**1**	**3**	**65**	**67**	**58**	**9**	**2**	**YES**
S556.1	**Residential**	**B**	**67**	**1**	**1**	**66**	**67**	**55**	**12**	**1**	**YES**
S556.2	**Residential**	**B**	**67**	**1**	**2**	**68**	**70**	**56**	**14**	**2**	**YES**
S557.1	Residential	B	67	1	1	58	60	59	1	2	NO
S557.2	Residential	B	67	1	2	60	63	60	3	3	NO
S559.1	**Residential**	**B**	**67**	**1**	**1**	**59**	**61**	**51**	**10**	**2**	**NO**
S559.2	**Residential**	**B**	**67**	**1**	**2**	**61**	**63**	**53**	**10**	**2**	**NO**
S560.1	**Residential**	**B**	**67**	**1**	**1**	**67**	**68**	**56**	**12**	**1**	**YES**
S560.2	**Residential**	**B**	**67**	**1**	**2**	**69**	**71**	**57**	**14**	**2**	**YES**
S561.1	**Residential**	**B**	**67**	**1**	**1**	**62**	**64**	**55**	**9**	**2**	**NO**
S561.2	**Residential**	**B**	**67**	**1**	**2**	**67**	**68**	**58**	**10**	**1**	**YES**
S561.3	**Residential**	**B**	**67**	**1**	**3**	**67**	**69**	**59**	**10**	**2**	**YES**
S562.1	Residential	B	67	1	1	60	62	59	3	2	NO
S562.2	Residential	B	67	1	2	62	65	61	4	3	NO
S563	Residential	B	67	2	1	58	59	53	6	1	NO
S564.1	Residential	B	67	1	1	57	58	51	7	1	NO
S564.2	Residential	B	67	1	2	60	62	55	7	2	NO
S565.1	**Residential**	**B**	**67**	**1**	**1**	**57**	**59**	**51**	**8**	**2**	**NO**
S565.2	Residential	B	67	1	2	61	63	56	7	2	NO
S567.1	**Residential**	**B**	**67**	**1**	**1**	**67**	**69**	**60**	**9**	**2**	**YES**
S567.2	**Residential**	**B**	**67**	**1**	**2**	**70**	**72**	**62**	**10**	**2**	**YES**
S568	Residential	B	67	2	1	58	59	53	6	1	NO
S569.1	**Residential**	**B**	**67**	**2**	**1**	**56**	**58**	**50**	**8**	**2**	**NO**
S569.2	Residential	B	67	2	2	59	61	54	7	2	NO
S570.1	Residential	B	67	2	1	57	58	51	7	1	NO
S570.2	Residential	B	67	2	2	61	63	56	7	2	NO
S571.1	**Residential**	**B**	**67**	**1**	**1**	**57**	**59**	**50**	**9**	**2**	**NO**
S571.2	**Residential**	**B**	**67**	**1**	**2**	**60**	**62**	**54**	**8**	**2**	**NO**

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S573.1	**Residential**	**B**	**67**	**1**	**1**	**64**	**65**	**57**	**8**	**1**	**NO**
S573.2	**Residential**	**B**	**67**	**1**	**2**	**65**	**67**	**58**	**9**	**2**	**YES**
S574	Residential	B	67	4	1	60	61	57	4	1	NO
S575.1	**Residential**	**B**	**67**	**1**	**1**	**60**	**60**	**51**	**9**	**0**	**NO**
S575.2	**Residential**	**B**	**67**	**1**	**2**	**62**	**64**	**55**	**9**	**2**	**NO**
S579.1	**Residential**	**B**	**67**	**1**	**1**	**59**	**60**	**50**	**10**	**1**	**NO**
S579.2	**Residential**	**B**	**67**	**1**	**2**	**61**	**63**	**54**	**9**	**2**	**NO**
S581.1	Residential	B	67	1	1	63	65	61	4	2	NO
S581.2	Residential	B	67	1	2	64	66	62	4	2	YES
S582	Residential	B	67	4	1	58	60	53	7	2	NO
S584.1	**Residential**	**B**	**67**	**1**	**1**	**62**	**63**	**53**	**10**	**1**	**NO**
S584.2	**Residential**	**B**	**67**	**1**	**2**	**63**	**65**	**55**	**10**	**2**	**NO**
S585.1	Residential	B	67	1	1	64	65	58	7	1	NO
S585.2	**Residential**	**B**	**67**	**1**	**2**	**66**	**68**	**59**	**9**	**2**	**YES**
S586.1	Residential	B	67	1	1	63	65	60	5	2	NO
S586.2	Residential	B	67	1	2	65	67	61	6	2	YES
S587.1	Residential	B	67	1	1	64	65	60	5	1	NO
S587.2	Residential	B	67	1	2	66	67	61	6	1	YES
S588	Residential	B	67	1	1	59	60	53	7	1	NO
S591	**Residential**	**B**	**67**	**4**	**1**	**59**	**60**	**52**	**8**	**1**	**NO**
S595	**Residential**	**B**	**67**	**4**	**1**	**59**	**60**	**52**	**8**	**1**	**NO**
S597	Residential	B	67	1	1	59	61	54	7	2	NO
S598.1	Residential	B	67	1	1	64	66	60	6	2	YES
S598.2	Residential	B	67	1	2	66	68	61	7	2	YES
S602	Residential	B	67	1	1	60	61	54	7	1	NO
S604	Residential	B	67	4	1	62	64	58	6	2	NO
S605	**Residential**	**B**	**67**	**4**	**1**	**60**	**61**	**53**	**8**	**1**	**NO**
S606.1	Residential	B	67	1	1	48	49	44	5	1	NO
S606.2	Residential	B	67	1	2	49	50	45	5	1	NO

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S608	**Residential**	**B**	**67**	**2**	**1**	**61**	**62**	**54**	**8**	**1**	**NO**
S609	**Residential**	**B**	**67**	**2**	**1**	**61**	**62**	**54**	**8**	**1**	**NO**
S610.1	Residential	B	67	1	1	46	47	42	5	1	NO
S610.2	Residential	B	67	1	2	48	49	45	4	1	NO
S612.1	Residential	B	67	1	1	54	55	50	5	1	NO
S612.2	**Residential**	**B**	**67**	**1**	**2**	**57**	**59**	**51**	**8**	**2**	**NO**
S613.1	Residential	B	67	1	1	52	53	50	3	1	NO
S613.2	Residential	B	67	1	2	55	56	51	5	1	NO
S614.1	Residential	B	67	1	1	48	49	44	5	1	NO
S614.2	Residential	B	67	1	2	49	50	46	4	1	NO
S615.1	Residential	B	67	1	1	53	54	49	5	1	NO
S615.2	**Residential**	**B**	**67**	**1**	**2**	**57**	**58**	**50**	**8**	**1**	**NO**
S616.1	Residential	B	67	1	1	56	57	56	1	1	NO
S616.2	Residential	B	67	1	2	58	59	57	2	1	NO
S617.1	Residential	B	67	1	1	52	53	48	5	1	NO
S617.2	Residential	B	67	1	2	54	56	49	7	2	NO
S618.1	Residential	B	67	1	1	49	50	45	5	1	NO
S618.2	Residential	B	67	1	2	50	51	46	5	1	NO
S620.1	Residential	B	67	1	1	54	55	49	6	1	NO
S620.2	**Residential**	**B**	**67**	**1**	**2**	**58**	**59**	**50**	**9**	**1**	**NO**
S621.1	Residential	B	67	1	1	55	55	50	5	0	NO
S621.2	**Residential**	**B**	**67**	**1**	**2**	**58**	**59**	**51**	**8**	**1**	**NO**
S623.1	Residential	B	67	1	1	56	58	55	3	2	NO
S623.2	Residential	B	67	1	2	59	60	57	3	1	NO
S625.1	Residential	B	67	1	1	51	52	48	4	1	NO
S625.2	Residential	B	67	1	2	53	54	49	5	1	NO
S626.1	Residential	B	67	1	1	54	55	49	6	1	NO
S626.2	**Residential**	**B**	**67**	**1**	**2**	**58**	**59**	**50**	**9**	**1**	**NO**
S627	**Residential**	**B**	**67**	**4**	**1**	**63**	**65**	**55**	**10**	**2**	**NO**

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S628	Residential	B	67	2	1	59	60	53	7	1	NO
S629.1	Residential	B	67	1	1	55	56	49	7	1	NO
S629.2	**Residential**	**B**	**67**	**1**	**2**	**59**	**60**	**51**	**9**	**1**	**NO**
S631.1	Residential	B	67	1	1	50	52	48	4	2	NO
S631.2	Residential	B	67	1	2	51	52	49	3	1	NO
S633.1	Residential	B	67	1	1	53	55	48	7	2	NO
S633.2	**Residential**	**B**	**67**	**1**	**2**	**56**	**57**	**49**	**8**	**1**	**NO**
S634.1	Residential	B	67	1	1	57	58	56	2	1	NO
S634.2	Residential	B	67	1	2	59	60	57	3	1	NO
S635	**Residential**	**B**	**67**	**2**	**1**	**60**	**61**	**53**	**8**	**1**	**NO**
S636.1	Residential	B	67	1	1	48	49	44	5	1	NO
S636.2	Residential	B	67	1	2	50	51	46	5	1	NO
S637.1	Residential	B	67	1	1	49	50	46	4	1	NO
S637.2	Residential	B	67	1	2	50	52	47	5	2	NO
S638.1	Residential	B	67	1	1	56	58	51	7	2	NO
S638.2	**Residential**	**B**	**67**	**1**	**2**	**60**	**62**	**52**	**10**	**2**	**NO**
S639.1	Residential	B	67	1	1	52	54	47	7	2	NO
S639.2	**Residential**	**B**	**67**	**1**	**2**	**55**	**56**	**48**	**8**	**1**	**NO**
S640.1	Residential	B	67	1	1	53	55	49	6	2	NO
S640.2	Residential	B	67	1	2	55	57	50	7	2	NO
S642.1	Residential	B	67	1	1	58	59	56	3	1	NO
S642.2	Residential	B	67	1	2	60	62	57	5	2	NO
S644.1	Residential	B	67	1	1	52	53	49	4	1	NO
S644.2	Residential	B	67	1	2	54	56	49	7	2	NO
S645	**Residential**	**B**	**67**	**4**	**1**	**64**	**65**	**54**	**11**	**1**	**NO**
S646.1	Residential	B	67	1	1	48	49	43	6	1	NO
S646.2	Residential	B	67	1	2	51	52	45	7	1	NO
S647.1	**Residential**	**B**	**67**	**1**	**1**	**60**	**62**	**53**	**9**	**2**	**NO**
S647.2	**Residential**	**B**	**67**	**1**	**2**	**64**	**65**	**54**	**11**	**1**	**NO**

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S648.1	Residential	B	67	1	1	47	48	42	6	1	NO
S648.2	Residential	B	67	1	2	51	52	45	7	1	NO
S650.1	**Residential**	**B**	**67**	**1**	**1**	**58**	**59**	**49**	**10**	**1**	**NO**
S650.2	**Residential**	**B**	**67**	**1**	**2**	**61**	**62**	**50**	**12**	**1**	**NO**
S654.1	**Residential**	**B**	**67**	**1**	**1**	**59**	**60**	**52**	**8**	**1**	**NO**
S654.2	**Residential**	**B**	**67**	**1**	**2**	**63**	**64**	**53**	**11**	**1**	**NO**
S655.1	Residential	B	67	1	1	49	50	44	6	1	NO
S655.2	Residential	B	67	1	2	50	52	45	7	2	NO
S656.1	**Residential**	**B**	**67**	**1**	**1**	**59**	**61**	**53**	**8**	**2**	**NO**
S656.2	**Residential**	**B**	**67**	**1**	**2**	**63**	**64**	**54**	**10**	**1**	**NO**
S657.1	Residential	B	67	1	1	50	51	46	5	1	NO
S657.2	Residential	B	67	1	2	51	52	47	5	1	NO
S658.1	**Residential**	**B**	**67**	**1**	**1**	**59**	**60**	**50**	**10**	**1**	**NO**
S658.2	**Residential**	**B**	**67**	**1**	**2**	**63**	**64**	**51**	**13**	**1**	**NO**
S659	**Residential**	**B**	**67**	**4**	**1**	**64**	**66**	**55**	**11**	**2**	**YES**
S661.1	Residential	B	67	1	1	57	58	51	7	1	NO
S661.2	**Residential**	**B**	**67**	**1**	**2**	**61**	**63**	**53**	**10**	**2**	**NO**
S662.1	Residential	B	67	1	1	53	55	50	5	2	NO
S662.2	**Residential**	**B**	**67**	**1**	**2**	**57**	**59**	**51**	**8**	**2**	**NO**
S665	**Residential**	**B**	**67**	**4**	**1**	**63**	**65**	**55**	**10**	**2**	**NO**
S667	**Residential**	**B**	**67**	**2**	**1**	**62**	**63**	**54**	**9**	**1**	**NO**
S668.1	Residential	B	67	1	1	54	56	51	5	2	NO
S668.2	**Residential**	**B**	**67**	**1**	**2**	**59**	**60**	**52**	**8**	**1**	**NO**
S669.1	**Residential**	**B**	**67**	**1**	**1**	**60**	**62**	**54**	**8**	**2**	**NO**
S669.2	**Residential**	**B**	**67**	**1**	**2**	**64**	**66**	**55**	**11**	**2**	**YES**
S670.1	Residential	B	67	1	1	49	50	43	7	1	NO
S670.2	**Residential**	**B**	**67**	**1**	**2**	**51**	**53**	**45**	**8**	**2**	**NO**
S671.1	**Residential**	**B**	**67**	**1**	**1**	**58**	**58**	**50**	**8**	**0**	**NO**
S671.2	**Residential**	**B**	**67**	**1**	**2**	**62**	**63**	**51**	**12**	**1**	**NO**

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S672.1	**Residential**	**B**	**67**	**1**	**1**	**61**	**62**	**54**	**8**	**1**	**NO**
S672.2	**Residential**	**B**	**67**	**1**	**2**	**65**	**66**	**55**	**11**	**1**	**YES**
S673.1	Residential	B	67	1	1	48	49	42	7	1	NO
S673.2	**Residential**	**B**	**67**	**1**	**2**	**52**	**53**	**45**	**8**	**1**	**NO**
S674.1	Residential	B	67	1	1	56	57	52	5	1	NO
S674.2	**Residential**	**B**	**67**	**1**	**2**	**59**	**61**	**53**	**8**	**2**	**NO**
S677	**Residential**	**B**	**67**	**4**	**1**	**64**	**65**	**56**	**9**	**1**	**NO**
S678.1	**Residential**	**B**	**67**	**1**	**1**	**58**	**58**	**50**	**8**	**0**	**NO**
S678.2	**Residential**	**B**	**67**	**1**	**2**	**62**	**64**	**51**	**13**	**2**	**NO**
S682.1	Residential	B	67	1	1	59	61	54	7	2	NO
S682.2	**Residential**	**B**	**67**	**1**	**2**	**63**	**65**	**55**	**10**	**2**	**NO**
S683.1	Residential	B	67	1	1	56	57	52	5	1	NO
S683.2	Residential	B	67	1	2	60	61	54	7	1	NO
S684.1	Residential	B	67	1	1	57	58	53	5	1	NO
S684.2	**Residential**	**B**	**67**	**1**	**2**	**61**	**63**	**54**	**9**	**2**	**NO**
S686.1	Residential	B	67	1	1	56	58	52	6	2	NO
S686.2	**Residential**	**B**	**67**	**1**	**2**	**61**	**62**	**53**	**9**	**1**	**NO**
S687	**Residential**	**B**	**67**	**4**	**1**	**64**	**65**	**56**	**9**	**1**	**NO**
S689	**Residential**	**B**	**67**	**2**	**1**	**66**	**67**	**56**	**11**	**1**	**YES**
S690.1	Residential	B	67	1	1	60	62	57	5	2	NO
S690.2	**Residential**	**B**	**67**	**1**	**2**	**64**	**66**	**58**	**8**	**2**	**YES**
S693	**Residential**	**B**	**67**	**4**	**1**	**65**	**66**	**57**	**9**	**1**	**YES**
S694.1	Residential	B	67	1	1	60	61	55	6	1	NO
S694.2	**Residential**	**B**	**67**	**1**	**2**	**64**	**66**	**57**	**9**	**2**	**YES**
S695.1	**Residential**	**B**	**67**	**1**	**1**	**62**	**63**	**52**	**11**	**1**	**NO**
S695.2	**Residential**	**B**	**67**	**1**	**2**	**66**	**67**	**54**	**13**	**1**	**YES**
S697.1	Residential	B	67	1	1	61	62	57	5	1	NO
S697.2	**Residential**	**B**	**67**	**1**	**2**	**65**	**67**	**58**	**9**	**2**	**YES**
S698.1	**Residential**	**B**	**67**	**1**	**1**	**59**	**61**	**53**	**8**	**2**	**NO**

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S698.2	**Residential**	**B**	**67**	**1**	**2**	**65**	**66**	**55**	**11**	**1**	**YES**
S699.1	**Residential**	**B**	**67**	**1**	**1**	**66**	**67**	**56**	**11**	**1**	**YES**
S699.2	**Residential**	**B**	**67**	**1**	**2**	**69**	**70**	**57**	**13**	**1**	**YES**
S700.1	**Residential**	**B**	**67**	**1**	**1**	**65**	**66**	**55**	**11**	**1**	**YES**
S700.2	**Residential**	**B**	**67**	**1**	**2**	**68**	**70**	**56**	**14**	**2**	**YES**
S701.1	Residential	B	67	1	1	60	62	57	5	2	NO
S701.2	**Residential**	**B**	**67**	**1**	**2**	**65**	**66**	**58**	**8**	**1**	**YES**
S702.1	**Residential**	**B**	**67**	**1**	**1**	**68**	**69**	**57**	**12**	**1**	**YES**
S702.2	**Residential**	**B**	**67**	**1**	**2**	**70**	**71**	**59**	**12**	**1**	**YES**
S703.1	**Residential**	**B**	**67**	**1**	**1**	**67**	**68**	**57**	**11**	**1**	**YES**
S703.2	**Residential**	**B**	**67**	**1**	**2**	**70**	**71**	**58**	**13**	**1**	**YES**
S704	**Hiestand Woods Park**	**C**	**67**	**1**	**0**	**70**	**71**	**59**	**12**	**1**	**YES**
S705	**American Family Walking Path**	**C**	**67**	**1**	**0**	**68**	**70**	**58**	**12**	**2**	**YES**
S706	Marsh View Bike Path	C	67	1	0	64	65	NA	NA	1	NO
S788	Residential	B	67	1	1	66	65	61	4	-1	NO
S789	**Crosspoint Church of the Nazarene**	**C**	**67**	**1**	**1**	**67**	**66**	**58**	**8**	**-1**	**YES**
S790	Calvary Gospel Church	C	67	1	1	61	62	62	0	1	NO
S791	Restaurant	E	72	1	1	56	56	54	2	0	NO
S792	Calvary Gospel Church	C	67	1	1	62	63	63	0	1	NO
S793	In My Garden Bilingual Daycare	C	67	1	1	58	59	58	1	1	NO
S794	Residential	B	67	1	1	65	66	64	2	1	YES
S795.1	**Residential**	**B**	**67**	**1**	**1**	**68**	**69**	**55**	**14**	**1**	**YES**
S795.2	**Residential**	**B**	**67**	**1**	**2**	**68**	**70**	**57**	**13**	**2**	**YES**
S796	**Residential**	**B**	**67**	**1**	**1**	**70**	**73**	**63**	**10**	**3**	**YES**
S797	Residential	B	67	2	1	63	66	64	2	3	YES
S798	**Residential**	**B**	**67**	**1**	**1**	**71**	**73**	**65**	**8**	**2**	**YES**
S799	Residential	B	67	1	1	64	65	62	3	1	NO
S800.1	Residential	B	67	1	1	65	67	64	3	2	YES
S800.2	Residential	B	67	1	2	66	68	66	2	2	YES

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S801.1	Residential	B	67	1	1	65	67	64	3	2	YES
S801.2	Residential	B	67	1	2	66	68	66	2	2	YES
S802	Residential	B	67	1	1	62	63	61	2	1	NO
S804	**Residential**	**B**	**67**	**2**	**1**	**67**	**68**	**59**	**9**	**1**	**YES**
S805	**Residential**	**B**	**67**	**2**	**1**	**67**	**68**	**59**	**9**	**1**	**YES**
S806	**Residential**	**B**	**67**	**2**	**1**	**67**	**68**	**58**	**10**	**1**	**YES**
S810	**Residential**	**B**	**67**	**2**	**1**	**66**	**67**	**59**	**8**	**1**	**YES**
S812	**Residential**	**B**	**67**	**2**	**1**	**67**	**68**	**58**	**10**	**1**	**YES**
S813	**Residential**	**B**	**67**	**2**	**1**	**66**	**68**	**60**	**8**	**2**	**YES**
S814	Residential	B	67	2	1	66	67	60	7	1	YES
S817.1	**Residential**	**B**	**67**	**1**	**1**	**65**	**67**	**56**	**11**	**2**	**YES**
S817.2	**Residential**	**B**	**67**	**1**	**2**	**66**	**68**	**57**	**11**	**2**	**YES**
S818	Residential	B	67	1	1	60	62	58	4	2	NO
S819	Residential	B	67	1	1	63	65	61	4	2	NO
S820	**Residential**	**B**	**67**	**3**	**1**	**68**	**69**	**56**	**13**	**1**	**YES**
S823	**Residential**	**B**	**67**	**2**	**1**	**67**	**69**	**56**	**13**	**2**	**YES**
S824	**Residential**	**B**	**67**	**2**	**1**	**67**	**68**	**56**	**12**	**1**	**YES**
S827.1	Residential	B	67	1	1	60	61	61	0	1	NO
S827.2	Residential	B	67	1	2	62	64	63	1	2	NO
S828	Residential Playground	B	67	1	1	62	64	62	2	2	NO
S829	Residential	B	67	2	1	60	63	60	3	3	NO
S830	Residential	B	67	1	1	62	64	59	5	2	NO
S831.1	Residential	B	67	3	1	61	63	59	4	2	NO
S831.2	Residential	B	67	3	2	62	65	61	4	3	NO
S832.1	Residential	B	67	1	1	58	60	59	1	2	NO
S832.2	Residential	B	67	1	2	61	62	62	0	1	NO
S833.1	**Residential**	**B**	**67**	**1**	**1**	**60**	**61**	**51**	**10**	**1**	**NO**
S833.2	**Residential**	**B**	**67**	**1**	**2**	**63**	**65**	**53**	**12**	**2**	**NO**
S834	Residential Courtyard	B	67	1	1	54	55	49	6	1	NO

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S835	Residential	B	67	1	1	61	62	57	5	1	NO
S836	Residential	B	67	1	1	52	54	52	2	2	NO
S837	Residential	B	67	1	1	52	53	47	6	1	NO
S838.1	**Residential**	**B**	**67**	**1**	**1**	**58**	**59**	**51**	**8**	**1**	**NO**
S838.2	**Residential**	**B**	**67**	**1**	**2**	**62**	**63**	**53**	**10**	**1**	**NO**
S839.1	Residential	B	67	2	1	49	51	51	0	2	NO
S839.2	Residential	B	67	2	2	48	49	49	0	1	NO
S840	**Residential**	**B**	**67**	**1**	**1**	**58**	**60**	**52**	**8**	**2**	**NO**
S841	**Residential**	**B**	**67**	**1**	**1**	**57**	**58**	**49**	**9**	**1**	**NO**
S842	**Residential**	**B**	**67**	**1**	**1**	**56**	**58**	**50**	**8**	**2**	**NO**
S843	**Residential**	**B**	**67**	**1**	**1**	**60**	**63**	**54**	**9**	**3**	**NO**
S844	**Residential**	**B**	**67**	**1**	**1**	**60**	**63**	**53**	**10**	**3**	**NO**
S845	Residential	B	67	1	1	54	55	48	7	1	NO
S846	**Residential**	**B**	**67**	**1**	**1**	**60**	**63**	**54**	**9**	**3**	**NO**
S847	Residential	B	67	1	1	59	61	57	4	2	NO
S848	Residential	B	67	1	1	52	53	50	3	1	NO
S849	Residential	B	67	1	1	57	59	55	4	2	NO
S850	Residential	B	67	2	1	53	55	50	5	2	NO
S851	Residential	B	67	1	1	51	53	48	5	2	NO
S852	Residential	B	67	3	1	51	53	NA	NA	2	NO
S853	Residential	B	67	3	1	52	54	NA	NA	2	NO
S854	Residential	B	67	2	1	48	48	NA	NA	0	NO
S855	Residential	B	67	5	1	52	54	NA	NA	2	NO
S856	Residential	B	67	4	1	46	47	NA	NA	1	NO
S857	Residential	B	67	3	1	51	54	NA	NA	3	NO
S858	Residential	B	67	3	1	50	54	NA	NA	4	NO
S859	Residential	B	67	3	1	51	56	NA	NA	5	NO
S860	Residential	B	67	2	1	51	53	NA	NA	2	NO
S861	Residential	B	67	2	1	52	54	NA	NA	2	NO

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S862	Residential	B	67	6	1	50	54	NA	NA	4	NO
S863	Residential	B	67	4	1	51	53	NA	NA	2	NO
S864	Residential	B	67	3	1	52	56	NA	NA	4	NO
S865	Residential	B	67	2	1	53	56	NA	NA	3	NO
S866	Residential	B	67	2	1	53	56	NA	NA	3	NO
S867	Residential	B	67	4	1	51	54	NA	NA	3	NO
S868	Residential	B	67	3	1	52	58	NA	NA	6	NO
S869.1	Residential	B	67	1	1	50	50	NA	NA	0	NO
S869.2	Residential	B	67	1	2	53	54	NA	NA	1	NO
S869a	Residential	B	67	1	1	52	55	NA	NA	3	NO
S870.1	Residential	B	67	1	1	48	50	NA	NA	2	NO
S870.2	Residential	B	67	1	2	50	52	NA	NA	2	NO
S871.1	Residential	B	67	1	1	46	45	NA	NA	-1	NO
S871.2	Residential	B	67	1	2	48	48	NA	NA	0	NO
S872.1	Residential	B	67	1	1	46	44	NA	NA	-2	NO
S872.2	Residential	B	67	1	2	47	47	NA	NA	0	NO
S873.1	Residential	B	67	1	1	46	45	NA	NA	-1	NO
S873.2	Residential	B	67	1	2	48	47	NA	NA	-1	NO
S873.3	Residential	B	67	1	3	52	54	NA	NA	2	NO
S874.1	Residential	B	67	1	1	48	47	NA	NA	-1	NO
S874.2	Residential	B	67	1	2	47	47	NA	NA	0	NO
S874.3	Residential	B	67	1	3	50	51	NA	NA	1	NO
S875	Residential	B	67	4	1	52	54	NA	NA	2	NO
S876	Residential	B	67	3	1	53	59	NA	NA	6	NO
S876a	Residential	B	67	3	1	54	62	NA	NA	8	NO
S877	Residential	B	67	2	1	58	61	NA	NA	3	NO
S878	Residential	B	67	2	1	58	61	NA	NA	3	NO
S879.1	Residential	B	67	1	1	61	63	NA	NA	2	NO
S879.2	Residential	B	67	1	2	62	63	NA	NA	1	NO

YES = Impact, NO = No Impact

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Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S880.1	Residential	B	67	1	1	61	63	NA	NA	2	NO
S880.2	Residential	B	67	1	2	62	63	NA	NA	1	NO
S881.1	Residential	B	67	2	1	62	63	NA	NA	1	NO
S881.2	Residential	B	67	2	2	62	63	NA	NA	1	NO
S881.3	Residential	B	67	2	3	63	64	NA	NA	1	NO
S882	Residential	B	67	1	1	52	54	NA	NA	2	NO
S883	Residential	B	67	2	1	53	59	NA	NA	6	NO
S884	Residential	B	67	2	1	60	62	NA	NA	2	NO
S884a	Residential	B	67	2	1	55	61	NA	NA	6	NO
S885	Residential	B	67	4	1	53	56	NA	NA	3	NO
S886	Residential	B	67	2	1	53	59	NA	NA	6	NO
S886a	Residential	B	67	3	1	54	62	NA	NA	8	NO
S887	Residential	B	67	3	1	54	59	NA	NA	5	NO
S887a	Residential	B	67	3	1	54	61	NA	NA	7	NO
S888	Residential	B	67	4	1	53	58	NA	NA	5	NO
S889	Residential	B	67	3	1	54	58	NA	NA	4	NO
S889a	Residential	B	67	4	1	55	61	NA	NA	6	NO
S890.1	Residential	B	67	1	1	58	61	NA	NA	3	NO
S890.2	Residential	B	67	1	2	60	61	NA	NA	1	NO
S890.3	Residential	B	67	1	3	60	62	NA	NA	2	NO
S890.4	Residential	B	67	1	4	64	66	NA	NA	2	**YES**
S891.1	Residential	B	67	1	1	58	61	NA	NA	3	NO
S891.2	Residential	B	67	1	2	60	61	NA	NA	1	NO
S891.3	Residential	B	67	1	3	61	62	NA	NA	1	NO
S891.4	Residential	B	67	1	4	64	66	NA	NA	2	**YES**
S892.2	Residential	B	67	1	2	60	61	NA	NA	1	NO
S892.3	Residential	B	67	1	3	60	61	NA	NA	1	NO
S892.4	Residential	B	67	1	4	64	66	NA	NA	2	**YES**
S893.1	Residential	B	67	1	1	58	61	NA	NA	3	NO

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S893.2	Residential	B	67	1	2	60	61	NA	NA	1	NO
S893.3	Residential	B	67	1	3	60	61	NA	NA	1	NO
S893.4	Residential	B	67	1	4	64	66	NA	NA	2	YES
S894.1	Residential	B	67	1	1	58	60	NA	NA	2	NO
S894.2	Residential	B	67	1	2	60	61	NA	NA	1	NO
S894.3	Residential	B	67	1	3	60	61	NA	NA	1	NO
S894.4	Residential	B	67	1	4	64	65	NA	NA	1	NO
S895.1	Residential	B	67	1	1	58	60	NA	NA	2	NO
S895.2	Residential	B	67	1	2	59	60	NA	NA	1	NO
S895.3	Residential	B	67	1	3	60	60	NA	NA	0	NO
S895.4	Residential	B	67	1	4	63	65	NA	NA	2	NO
S896.1	Residential	B	67	1	1	58	60	NA	NA	2	NO
S896.2	Residential	B	67	1	2	60	60	NA	NA	0	NO
S896.3	Residential	B	67	1	3	60	61	NA	NA	1	NO
S896.4	Residential	B	67	1	4	64	65	NA	NA	1	NO
S897.1	Residential	B	67	1	1	58	60	NA	NA	2	NO
S897.2	Residential	B	67	1	2	60	60	NA	NA	0	NO
S897.3	Residential	B	67	1	3	60	60	NA	NA	0	NO
S897.4	Residential	B	67	1	4	64	65	NA	NA	1	NO
S898.2	Residential	B	67	1	2	59	60	NA	NA	1	NO
S899	Residential	B	67	1	1	54	58	NA	NA	4	NO
S900	Residential	B	67	4	1	54	59	NA	NA	5	NO
S901.1	Residential	B	67	1	1	55	58	NA	NA	3	NO
S901.2	Residential	B	67	1	2	58	60	NA	NA	2	NO
S901.3	Residential	B	67	1	3	61	63	NA	NA	2	NO
S901.4	Residential	B	67	1	4	63	65	NA	NA	2	NO
S902	Residential	B	67	1	1	53	58	NA	NA	5	NO
S903	Residential	B	67	1	1	52	56	NA	NA	4	NO
S904.1	Residential	B	67	1	1	52	54	NA	NA	2	NO

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S904.2	Residential	B	67	1	2	56	58	NA	NA	2	NO
S904.3	Residential	B	67	1	3	59	61	NA	NA	2	NO
S904.4	Residential	B	67	1	4	62	64	NA	NA	2	NO
S905.1	Residential	B	67	1	1	52	55	NA	NA	3	NO
S905.2	Residential	B	67	1	2	55	57	NA	NA	2	NO
S905.3	Residential	B	67	1	3	58	60	NA	NA	2	NO
S905.4	Residential	B	67	1	4	62	64	NA	NA	2	NO
S906.1	Residential	B	67	1	1	52	54	NA	NA	2	NO
S906.2	Residential	B	67	1	2	55	58	NA	NA	3	NO
S906.3	Residential	B	67	1	3	59	61	NA	NA	2	NO
S906.4	Residential	B	67	1	4	62	64	NA	NA	2	NO
S907.1	Residential	B	67	1	1	49	51	NA	NA	2	NO
S907.2	Residential	B	67	1	2	52	54	NA	NA	2	NO
S907.3	Residential	B	67	1	3	55	58	NA	NA	3	NO
S907.4	Residential	B	67	1	4	63	64	NA	NA	1	NO
S908.1	Residential	B	67	1	1	51	52	NA	NA	1	NO
S908.2	Residential	B	67	1	2	54	56	NA	NA	2	NO
S908.3	Residential	B	67	1	3	58	60	NA	NA	2	NO
S908.4	Residential	B	67	1	4	63	64	NA	NA	1	NO
S909.2	Residential	B	67	1	2	58	60	NA	NA	2	NO
S909.3	Residential	B	67	1	3	60	63	NA	NA	3	NO
S909.4	Residential	B	67	1	4	63	65	NA	NA	2	NO
S910	Residential	B	67	1	1	51	55	NA	NA	4	NO
S911.1	Residential	B	67	1	1	51	54	NA	NA	3	NO
S911.2	Residential	B	67	1	2	54	57	NA	NA	3	NO
S911.3	Residential	B	67	1	3	58	60	NA	NA	2	NO
S911.4	Residential	B	67	1	4	62	64	NA	NA	2	NO
S912	Residential	B	67	1	1	50	53	NA	NA	3	NO
S913.1	Residential	B	67	1	1	49	50	NA	NA	1	NO

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S913.2	Residential	B	67	1	2	52	54	NA	NA	2	NO
S913.3	Residential	B	67	1	3	54	57	NA	NA	3	NO
S913.4	Residential	B	67	1	4	63	65	NA	NA	2	NO
S914.1	Residential	B	67	1	1	54	57	NA	NA	3	NO
S914.2	Residential	B	67	1	2	58	60	NA	NA	2	NO
S914.3	Residential	B	67	1	3	61	63	NA	NA	2	NO
S914.4	Residential	B	67	1	4	63	65	NA	NA	2	NO
S915	Residential	B	67	1	1	50	53	NA	NA	3	NO
S916.1	Residential	B	67	1	1	54	57	NA	NA	3	NO
S916.2	Residential	B	67	1	2	58	61	NA	NA	3	NO
S916.3	Residential	B	67	1	3	61	63	NA	NA	2	NO
S916.4	Residential	B	67	1	4	64	65	NA	NA	1	NO
S917.2	Residential	B	67	1	2	55	58	NA	NA	3	NO
S917.3	Residential	B	67	1	3	59	61	NA	NA	2	NO
S917.4	Residential	B	67	1	4	62	64	NA	NA	2	NO
S918.1	Residential	B	67	1	1	50	52	NA	NA	2	NO
S918.2	Residential	B	67	1	2	52	55	NA	NA	3	NO
S918.3	Residential	B	67	1	3	55	57	NA	NA	2	NO
S918.4	Residential	B	67	1	4	63	65	NA	NA	2	NO
S919	Residential	B	67	1	1	49	52	NA	NA	3	NO
S919a	Residential	B	67	1	1	56	59	NA	NA	3	NO
S920	Residential	B	67	1	1	50	53	NA	NA	3	NO
S920a	Residential	B	67	1	1	58	64	61	3	6	NO
S921.2	Residential	B	67	1	2	55	58	NA	NA	3	NO
S921.3	Residential	B	67	1	3	59	62	NA	NA	3	NO
S921.4	Residential	B	67	1	4	62	64	NA	NA	2	NO
S922.1	Residential	B	67	1	1	54	57	NA	NA	3	NO
S922.2	Residential	B	67	1	2	58	61	NA	NA	3	NO
S922.3	Residential	B	67	1	3	61	64	NA	NA	3	NO

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S922.4	Residential	B	67	1	4	63	65	NA	NA	2	NO
S923.1	Residential	B	67	1	1	54	57	NA	NA	3	NO
S923.2	Residential	B	67	1	2	58	61	NA	NA	3	NO
S923.3	Residential	B	67	1	3	62	63	NA	NA	1	NO
S923.4	Residential	B	67	1	4	64	65	NA	NA	1	NO
S924	Residential	B	67	3	1	55	60	NA	NA	5	NO
S925.1	Residential	B	67	1	1	50	52	NA	NA	2	NO
S925.2	Residential	B	67	1	2	53	55	NA	NA	2	NO
S925.3	Residential	B	67	1	3	55	58	NA	NA	3	NO
S925.4	Residential	B	67	1	4	63	65	NA	NA	2	NO
S926.1	Residential	B	67	1	1	54	57	NA	NA	3	NO
S926.2	Residential	B	67	1	2	58	61	NA	NA	3	NO
S926.3	Residential	B	67	1	3	62	63	NA	NA	1	NO
S926.4	Residential	B	67	1	4	64	65	NA	NA	1	NO
S927.1	Residential	B	67	1	1	54	57	NA	NA	3	NO
S927.2	Residential	B	67	1	2	58	61	NA	NA	3	NO
S927.3	Residential	B	67	1	3	62	64	NA	NA	2	NO
S927.4	Residential	B	67	1	4	63	65	NA	NA	2	NO
S928.1	Residential	B	67	1	1	53	56	NA	NA	3	NO
S928.2	Residential	B	67	1	2	56	59	NA	NA	3	NO
S928.3	Residential	B	67	1	3	60	63	NA	NA	3	NO
S928.4	Residential	B	67	1	4	62	64	NA	NA	2	NO
S929.1	Residential	B	67	1	1	54	57	NA	NA	3	NO
S929.2	Residential	B	67	1	2	58	61	NA	NA	3	NO
S929.3	Residential	B	67	1	3	61	63	NA	NA	2	NO
S929.4	Residential	B	67	1	4	63	65	NA	NA	2	NO
S930.1	Residential	B	67	1	1	52	54	51	3	2	NO
S930.2	Residential	B	67	1	2	55	57	55	2	2	NO
S930.3	Residential	B	67	1	3	58	61	56	5	3	NO

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S930.4	Residential	B	67	1	4	62	65	59	6	3	NO
S931.1	Residential	B	67	1	1	55	57	50	7	2	NO
S931.2	**Residential**	**B**	**67**	**1**	**2**	**60**	**62**	**52**	**10**	**2**	**NO**
S931.3	**Residential**	**B**	**67**	**1**	**3**	**63**	**64**	**55**	**9**	**1**	**NO**
S931.4	**Residential**	**B**	**67**	**1**	**4**	**67**	**68**	**60**	**8**	**1**	**YES**
S932.1	Residential	B	67	1	1	54	56	49	7	2	NO
S932.2	**Residential**	**B**	**67**	**1**	**2**	**59**	**61**	**51**	**10**	**2**	**NO**
S932.3	**Residential**	**B**	**67**	**1**	**3**	**62**	**64**	**52**	**12**	**2**	**NO**
S932.4	**Residential**	**B**	**67**	**1**	**4**	**65**	**66**	**58**	**8**	**1**	**YES**
S933.1	Residential	B	67	1	1	56	59	55	4	3	NO
S933.2	Residential	B	67	1	2	62	64	57	7	2	NO
S933.3	Residential	B	67	1	3	64	65	58	7	1	NO
S933.4	**Residential**	**B**	**67**	**1**	**4**	**66**	**67**	**59**	**8**	**1**	**YES**
S934.2	Residential	B	67	1	2	54	56	54	2	2	NO
S934.3	Residential	B	67	1	3	57	60	56	4	3	NO
S934.4	Residential	B	67	1	4	63	65	59	6	2	NO
S935.1	Residential	B	67	1	1	56	58	51	7	2	NO
S935.2	**Residential**	**B**	**67**	**1**	**2**	**61**	**63**	**53**	**10**	**2**	**NO**
S935.3	**Residential**	**B**	**67**	**1**	**3**	**64**	**65**	**57**	**8**	**1**	**NO**
S935.4	**Residential**	**B**	**67**	**1**	**4**	**67**	**69**	**61**	**8**	**2**	**YES**
S936.2	**Residential**	**B**	**67**	**1**	**2**	**60**	**62**	**51**	**11**	**2**	**NO**
S936.3	**Residential**	**B**	**67**	**1**	**3**	**63**	**65**	**52**	**13**	**2**	**NO**
S936.4	**Residential**	**B**	**67**	**1**	**4**	**65**	**67**	**58**	**9**	**2**	**YES**
S937.2	Residential	B	67	1	2	63	64	57	7	1	NO
S937.3	**Residential**	**B**	**67**	**1**	**3**	**64**	**66**	**58**	**8**	**2**	**YES**
S937.4	**Residential**	**B**	**67**	**1**	**4**	**67**	**68**	**59**	**9**	**1**	**YES**
S938.2	Residential	B	67	1	2	52	55	54	1	3	NO
S938.3	Residential	B	67	1	3	55	58	56	2	3	NO
S938.4	**Residential**	**B**	**67**	**1**	**4**	**66**	**68**	**60**	**8**	**2**	**YES**

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Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S939.1	**Residential**	**B**	**67**	**1**	**1**	**57**	**60**	**52**	**8**	**3**	**NO**
S939.2	**Residential**	**B**	**67**	**1**	**2**	**63**	**64**	**54**	**10**	**1**	**NO**
S939.3	**Residential**	**B**	**67**	**1**	**3**	**65**	**67**	**59**	**8**	**2**	**YES**
S939.4	**Residential**	**B**	**67**	**1**	**4**	**68**	**69**	**61**	**8**	**1**	**YES**
S940.1	Residential	B	67	1	1	55	58	51	7	3	NO
S940.2	**Residential**	**B**	**67**	**1**	**2**	**61**	**63**	**52**	**11**	**2**	**NO**
S940.3	**Residential**	**B**	**67**	**1**	**3**	**64**	**65**	**53**	**12**	**1**	**NO**
S940.4	**Residential**	**B**	**67**	**1**	**4**	**66**	**67**	**57**	**10**	**1**	**YES**
S941.1	Residential	B	67	1	1	58	61	56	5	3	NO
S941.2	**Residential**	**B**	**67**	**1**	**2**	**63**	**65**	**57**	**8**	**2**	**NO**
S941.3	**Residential**	**B**	**67**	**1**	**3**	**65**	**66**	**58**	**8**	**1**	**YES**
S941.4	**Residential**	**B**	**67**	**1**	**4**	**67**	**69**	**60**	**9**	**2**	**YES**
S942	Town Center Park	C	67	1	1	62	66	59	7	4	**YES**
S943.1	Residential	B	67	1	1	47	47	43	4	0	NO
S943.2	Residential	B	67	1	2	50	51	46	5	1	NO
S943.3	Residential	B	67	1	3	53	55	50	5	2	NO
S943.4	**Residential**	**B**	**67**	**1**	**4**	**67**	**69**	**60**	**9**	**2**	**YES**
S944.1	Residential	B	67	1	1	49	50	48	2	1	NO
S944.2	Residential	B	67	1	2	50	52	51	1	2	NO
S944.3	Residential	B	67	1	3	52	55	54	1	3	NO
S944.4	**Residential**	**B**	**67**	**1**	**4**	**68**	**69**	**60**	**9**	**1**	**YES**
S945.1	Residential	B	67	1	1	48	47	42	5	-1	NO
S945.2	Residential	B	67	1	2	49	49	45	4	0	NO
S945.3	Residential	B	67	1	3	52	53	49	4	1	NO
S945.4	**Residential**	**B**	**67**	**1**	**4**	**67**	**69**	**60**	**9**	**2**	**YES**
S946.1	Residential	B	67	1	1	48	46	43	3	-2	NO
S946.2	Residential	B	67	1	2	49	49	45	4	0	NO
S946.3	Residential	B	67	1	3	50	51	48	3	1	NO
S946.4	**Residential**	**B**	**67**	**1**	**4**	**67**	**69**	**60**	**9**	**2**	**YES**

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S947.2	**Residential**	**B**	**67**	**1**	**2**	**64**	**65**	**55**	**10**	**1**	**NO**
S947.3	**Residential**	**B**	**67**	**1**	**3**	**66**	**67**	**58**	**9**	**1**	**YES**
S947.4	**Residential**	**B**	**67**	**1**	**4**	**68**	**70**	**61**	**9**	**2**	**YES**
S948.1	**Residential**	**B**	**67**	**1**	**1**	**57**	**60**	**52**	**8**	**3**	**NO**
S948.2	**Residential**	**B**	**67**	**1**	**2**	**63**	**65**	**54**	**11**	**2**	**NO**
S948.3	**Residential**	**B**	**67**	**1**	**3**	**65**	**67**	**54**	**13**	**2**	**YES**
S948.4	**Residential**	**B**	**67**	**1**	**4**	**67**	**69**	**58**	**11**	**2**	**YES**
S949.1	Residential	B	67	1	1	59	62	56	6	3	NO
S949.2	**Residential**	**B**	**67**	**1**	**2**	**65**	**66**	**57**	**9**	**1**	**YES**
S949.3	**Residential**	**B**	**67**	**1**	**3**	**66**	**67**	**58**	**9**	**1**	**YES**
S949.4	**Residential**	**B**	**67**	**1**	**4**	**68**	**69**	**60**	**9**	**1**	**YES**
S950.1	**Residential**	**B**	**67**	**1**	**1**	**60**	**63**	**54**	**9**	**3**	**NO**
S950.2	**Residential**	**B**	**67**	**1**	**2**	**66**	**67**	**56**	**11**	**1**	**YES**
S950.3	**Residential**	**B**	**67**	**1**	**3**	**66**	**68**	**58**	**10**	**2**	**YES**
S950.4	**Residential**	**B**	**67**	**1**	**4**	**68**	**70**	**61**	**9**	**2**	**YES**
S951.1	**Residential**	**B**	**67**	**1**	**1**	**59**	**62**	**54**	**8**	**3**	**NO**
S951.2	**Residential**	**B**	**67**	**1**	**2**	**66**	**68**	**57**	**11**	**2**	**YES**
S951.3	**Residential**	**B**	**67**	**1**	**3**	**67**	**69**	**58**	**11**	**2**	**YES**
S951.4	**Residential**	**B**	**67**	**1**	**4**	**68**	**70**	**60**	**10**	**2**	**YES**
S951a	Residential	B	67	1	1	60	63	57	6	3	NO
S952.1	Residential	B	67	1	1	60	63	56	7	3	NO
S952.2	**Residential**	**B**	**67**	**1**	**2**	**66**	**68**	**57**	**11**	**2**	**YES**
S952.3	**Residential**	**B**	**67**	**1**	**3**	**67**	**68**	**58**	**10**	**1**	**YES**
S952.4	**Residential**	**B**	**67**	**1**	**4**	**68**	**70**	**61**	**9**	**2**	**YES**
S952a	Residential	B	67	1	1	61	65	60	5	4	NO
S953.1	**Residential**	**B**	**67**	**1**	**1**	**61**	**64**	**56**	**8**	**3**	**NO**
S953.2	**Residential**	**B**	**67**	**1**	**2**	**67**	**69**	**59**	**10**	**2**	**YES**
S953.3	**Residential**	**B**	**67**	**1**	**3**	**68**	**70**	**60**	**10**	**2**	**YES**
S953.4	**Residential**	**B**	**67**	**1**	**4**	**69**	**71**	**61**	**10**	**2**	**YES**

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S953a	**Residential**	**B**	**67**	**1**	**1**	**66**	**68**	**59**	**9**	**2**	**YES**
S954.1	Residential	B	67	1	1	61	64	57	7	3	NO
S954.2	**Residential**	**B**	**67**	**1**	**2**	**67**	**70**	**59**	**11**	**3**	**YES**
S954.3	**Residential**	**B**	**67**	**1**	**3**	**68**	**70**	**60**	**10**	**2**	**YES**
S954.4	**Residential**	**B**	**67**	**1**	**4**	**69**	**71**	**61**	**10**	**2**	**YES**
S955.1	**Residential**	**B**	**67**	**1**	**1**	**61**	**64**	**56**	**8**	**3**	**NO**
S955.2	**Residential**	**B**	**67**	**1**	**2**	**67**	**69**	**59**	**10**	**2**	**YES**
S955.3	**Residential**	**B**	**67**	**1**	**3**	**68**	**70**	**60**	**10**	**2**	**YES**
S955.4	**Residential**	**B**	**67**	**1**	**4**	**69**	**71**	**61**	**10**	**2**	**YES**
S956.2	**Residential**	**B**	**67**	**1**	**2**	**68**	**70**	**59**	**11**	**2**	**YES**
S956a	**Residential**	**B**	**67**	**1**	**1**	**68**	**72**	**64**	**8**	**4**	**YES**
S957.1	Residential	B	67	1	1	61	64	57	7	3	NO
S957.2	**Residential**	**B**	**67**	**1**	**2**	**68**	**70**	**59**	**11**	**2**	**YES**
S957.3	**Residential**	**B**	**67**	**1**	**3**	**68**	**70**	**60**	**10**	**2**	**YES**
S957.4	**Residential**	**B**	**67**	**1**	**4**	**69**	**71**	**61**	**10**	**2**	**YES**
S958	**Madison Fire Station**	**D**	**52**	**1**	**1**	**37**	**42**	**34**	**8**	**5**	**NO**
S959	Residential	B	67	1	1	64	68	67	1	4	YES
S960	Residential	B	67	1	1	65	66	66	0	1	YES
S961	Residential	B	67	1	1	71	71	NA	NA	0	YES
S962	**Kennedy Little League**	**C**	**67**	**1**	**1**	**71**	**68**	**59**	**9**	**-3**	**YES**
S963	Kennedy Little League	C	67	1	1	67	67	61	6	0	YES
S964	**Kennedy Little League**	**C**	**67**	**1**	**1**	**70**	**67**	**59**	**8**	**-3**	**YES**
S965	Kennedy Little League	C	67	1	1	63	65	62	3	2	NO
S966	**Residential**	**B**	**67**	**1**	**1**	**68**	**69**	**61**	**8**	**1**	**YES**
S967	Residential	B	67	1	1	64	65	60	5	1	NO
S969	Residential	B	67	1	1	56	62	NA	NA	6	NO
S970	Residential	B	67	1	1	54	60	NA	NA	6	NO
S971	Residential	B	67	1	1	65	64	64	0	-1	NO
S972	Residential	B	67	1	1	64	64	63	1	0	NO

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S973	Restaurant	E	72	1	1	64	64	62	2	0	NO
S974	Restaurant	E	72	1	1	63	64	62	2	1	NO
S975	Residential	B	67	1	1	68	67	65	2	-1	YES
S976	Residential	B	67	1	1	63	63	61	2	0	NO
S977	Residential	B	67	1	1	63	64	61	3	1	NO
S978	Residential	B	67	1	1	67	67	64	3	0	YES
S979	Residential	B	67	2	1	63	63	61	2	0	NO
S980	Residential	B	67	1	1	64	64	62	2	0	NO
S981	Residential	B	67	1	1	65	65	63	2	0	NO
S982	Holy Cross Lutheran Church	C	67	1	1	66	66	61	5	0	YES
S983	Residential	B	67	3	1	66	67	61	6	1	YES
S984	**Residential**	**B**	**67**	**1**	**1**	**68**	**69**	**61**	**8**	**1**	**YES**
S985	**Residential**	**B**	**67**	**1**	**1**	**70**	**71**	**62**	**9**	**1**	**YES**
S986	**Residential**	**B**	**67**	**1**	**1**	**71**	**72**	**62**	**10**	**1**	**YES**
S987	**Residential**	**B**	**67**	**1**	**1**	**71**	**72**	**62**	**10**	**1**	**YES**
S988	Residential	B	67	2	1	65	66	61	5	1	YES
S989	Residential	B	67	2	1	63	64	60	4	1	NO
S990	**Residential**	**B**	**67**	**1**	**1**	**71**	**72**	**61**	**11**	**1**	**YES**
S991	**Residential**	**B**	**67**	**1**	**1**	**70**	**72**	**61**	**11**	**2**	**YES**
S992	Residential	B	67	2	1	61	62	58	4	1	NO
S993	Residential	B	67	2	1	64	65	61	4	1	NO
S994	**Residential**	**B**	**67**	**1**	**1**	**69**	**72**	**61**	**11**	**3**	**YES**
S995	**Residential**	**B**	**67**	**1**	**1**	**69**	**71**	**61**	**10**	**2**	**YES**
S996	Residential	B	67	1	1	60	62	58	4	2	NO
S997	Residential	B	67	2	1	63	64	60	4	1	NO
S998	**Residential**	**B**	**67**	**1**	**1**	**67**	**69**	**61**	**8**	**2**	**YES**
S999	Residential	B	67	2	1	59	61	57	4	2	NO
S1000	**Residential**	**B**	**67**	**1**	**1**	**65**	**69**	**61**	**8**	**4**	**YES**
S1001	Residential	B	67	2	1	62	64	60	4	2	NO

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S1002	Residential	B	67	1	1	64	68	61	7	4	YES
S1003	Residential	B	67	2	1	59	61	57	4	2	NO
S1004	Residential	B	67	1	1	64	68	61	7	4	YES
S1005	Residential	B	67	1	1	62	64	60	4	2	NO
S1006	Residential	B	67	2	1	59	62	58	4	3	NO
S1007	Residential	B	67	1	1	64	68	61	7	4	YES
S1008	Residential	B	67	1	1	64	69	62	7	5	YES
S1009	Residential	B	67	3	1	57	61	57	4	4	NO
S1010	Residential	B	67	1	1	62	64	60	4	2	NO
S1011	**Residential**	**B**	**67**	**1**	**1**	**64**	**77**	**63**	**14**	**13**	**YES**
S1012	Residential	B	67	2	1	58	62	58	4	4	NO
S1013	**Residential**	**B**	**67**	**1**	**1**	**62**	**75**	**63**	**12**	**13**	**YES**
S1014	Residential	B	67	3	1	58	61	57	4	3	NO
S1015	Residential	B	67	1	1	60	64	60	4	4	NO
S1016	**Residential**	**B**	**67**	**1**	**1**	**62**	**78**	**63**	**15**	**16**	**YES**
S1017	Residential	B	67	2	1	61	64	59	5	3	NO
S1018	**Residential**	**B**	**67**	**1**	**1**	**61**	**70**	**62**	**8**	**9**	**YES**
S1019	**Residential**	**B**	**67**	**1**	**1**	**61**	**72**	**63**	**9**	**11**	**YES**
S1020	Residential	B	67	3	1	59	62	58	4	3	NO
S1021	Residential	B	67	1	1	61	68	62	6	7	YES
S1022	**Residential**	**B**	**67**	**1**	**1**	**62**	**72**	**62**	**10**	**10**	**YES**
S1023	Residential	B	67	2	1	63	66	61	5	3	YES
S1024	**Residential**	**B**	**67**	**1**	**1**	**62**	**77**	**63**	**14**	**15**	**YES**
S1025	Residential	B	67	3	1	59	61	56	5	2	NO
S1026	Residential	B	67	1	1	61	63	57	6	2	NO
S1027	**Residential**	**B**	**67**	**1**	**1**	**64**	**79**	**63**	**16**	**15**	**YES**
S1028	Residential	B	67	1	1	63	65	60	5	2	NO
S1029	**Residential**	**B**	**67**	**1**	**1**	**65**	**79**	**63**	**16**	**14**	**YES**
S1030	**Residential**	**B**	**67**	**1**	**1**	**65**	**77**	**63**	**14**	**12**	**YES**

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S1031	**Residential**	**B**	**67**	**1**	**1**	**66**	**79**	**63**	**16**	**13**	**YES**
S1032	Residential	B	67	1	1	61	63	56	7	2	NO
S1033	**Residential**	**B**	**67**	**1**	**1**	**66**	**74**	**62**	**12**	**8**	**YES**
S1034	Residential	B	67	2	1	64	66	59	7	2	**YES**
S1035	**Residential**	**B**	**67**	**1**	**1**	**68**	**77**	**62**	**15**	**9**	**YES**
S1036	Residential	B	67	2	1	61	63	56	7	2	NO
S1037	**Residential**	**B**	**67**	**1**	**1**	**68**	**80**	**61**	**19**	**12**	**YES**
S1038	**Residential**	**B**	**67**	**1**	**1**	**66**	**70**	**60**	**10**	**4**	**YES**
S1039	Residential	B	67	1	1	64	66	59	7	2	**YES**
S1040	Residential	B	67	1	1	63	67	60	7	4	**YES**
S1041	Residential	B	67	1	1	64	67	60	7	3	**YES**
S1042	Residential	B	67	1	1	64	66	60	6	2	**YES**
S1043	Residential	B	67	1	1	66	66	59	7	0	**YES**
S1044	**Residential**	**B**	**67**	**1**	**1**	**66**	**67**	**59**	**8**	**1**	**YES**
S1045	**Residential**	**B**	**67**	**1**	**1**	**67**	**67**	**59**	**8**	**0**	**YES**
S1046	**Residential**	**B**	**67**	**4**	**1**	**65**	**66**	**57**	**9**	**1**	**YES**
S1047	**Residential**	**B**	**67**	**1**	**1**	**68**	**68**	**60**	**8**	**0**	**YES**
S1048	**Residential**	**B**	**67**	**1**	**1**	**69**	**69**	**60**	**9**	**0**	**YES**
S1049	**Residential**	**B**	**67**	**1**	**1**	**71**	**71**	**61**	**10**	**0**	**YES**
S1050	**Residential**	**B**	**67**	**2**	**1**	**66**	**68**	**59**	**9**	**2**	**YES**
S1051	**Residential**	**B**	**67**	**1**	**1**	**71**	**72**	**61**	**11**	**1**	**YES**
S1052	**Residential**	**B**	**67**	**1**	**1**	**71**	**73**	**61**	**12**	**2**	**YES**
S1053	**Residential**	**B**	**67**	**2**	**1**	**66**	**68**	**59**	**9**	**2**	**YES**
S1054	**Residential**	**B**	**67**	**1**	**1**	**72**	**73**	**61**	**12**	**1**	**YES**
S1055	**Residential**	**B**	**67**	**1**	**1**	**72**	**73**	**61**	**12**	**1**	**YES**
S1056	**Residential**	**B**	**67**	**1**	**1**	**72**	**73**	**61**	**12**	**1**	**YES**
S1057	**Residential**	**B**	**67**	**1**	**1**	**72**	**73**	**61**	**12**	**1**	**YES**
S1058	**Residential**	**B**	**67**	**2**	**1**	**66**	**68**	**59**	**9**	**2**	**YES**
S1059	**Residential**	**B**	**67**	**1**	**1**	**72**	**73**	**61**	**12**	**1**	**YES**

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Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S1060	**Residential**	**B**	**67**	**1**	**1**	**72**	**74**	**62**	**12**	**2**	**YES**
S1061	**Residential**	**B**	**67**	**2**	**1**	**66**	**68**	**59**	**9**	**2**	**YES**
S1062	**Residential**	**B**	**67**	**1**	**1**	**72**	**74**	**62**	**12**	**2**	**YES**
S1063	**Residential**	**B**	**67**	**1**	**1**	**73**	**74**	**62**	**12**	**1**	**YES**
S1064	**Residential**	**B**	**67**	**2**	**1**	**66**	**68**	**59**	**9**	**2**	**YES**
S1065	**Residential**	**B**	**67**	**1**	**1**	**74**	**75**	**62**	**13**	**1**	**YES**
S1066	**Residential**	**B**	**67**	**2**	**1**	**71**	**72**	**61**	**11**	**1**	**YES**
S1067	**Residential**	**B**	**67**	**2**	**1**	**72**	**73**	**62**	**11**	**1**	**YES**
S1068	**Residential**	**B**	**67**	**2**	**1**	**65**	**67**	**59**	**8**	**2**	**YES**
S1069	Residential	B	67	2	1	60	62	56	6	2	NO
S1070	Residential	B	67	2	1	56	57	55	2	1	NO
S1071	Residential	B	67	2	1	58	60	56	4	2	NO
S1072	Residential	B	67	2	1	63	64	60	4	1	NO
S1073	Residential	B	67	2	1	61	62	59	3	1	NO
S1074	Residential	B	67	2	1	54	55	51	4	1	NO
S1075	Residential	B	67	2	1	55	56	52	4	1	NO
S1076	Residential	B	67	2	1	56	57	53	4	1	NO
S1077	Residential	B	67	2	1	56	58	54	4	2	NO
S1078.2	Residential	B	67	2	2	55	58	56	2	3	NO
S1079	Residential	B	67	2	1	57	59	55	4	2	NO
S1080a.1	Residential	B	67	3	1	60	61	60	1	1	NO
S1080.2	Residential	B	67	3	2	54	56	54	2	2	NO
S1081a.1	Residential	B	67	4	1	49	51	50	1	2	NO
S1081.2	Residential	B	67	2	2	67	71	66	5	4	YES
S1082	Residential	B	67	2	1	62	64	57	7	2	NO
S1083.2	Residential	B	67	2	2	65	68	64	4	3	YES
S1084	Residential	B	67	2	1	65	67	63	4	2	YES
S1085	Residential	B	67	2	1	65	67	61	6	2	YES
S1086	Residential	B	67	2	1	69	70	65	5	1	YES

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S1087.2	Residential	B	67	2	2	69	71	66	5	2	YES
S1088	Residential	B	67	2	1	71	72	66	6	1	YES
S1089.2	Residential	B	67	2	2	69	71	66	5	2	YES
S1090.2	Residential	B	67	2	2	70	72	67	5	2	YES
S1091.2	Residential	B	67	1	2	71	72	67	5	1	YES
S1092.2	Residential	B	67	2	2	72	74	68	6	2	YES
S1093a.1	Residential	B	67	4	1	68	69	65	4	1	YES
S1093.2	Residential	B	67	4	2	72	74	70	4	2	YES
S1094.2	Residential	B	67	2	2	72	75	71	4	3	YES
S1095	Residential	B	67	1	1	65	63	NA	NA	-2	NO
S1096	Residential	B	67	1	1	73	73	NA	NA	0	YES
S1097	**Autumnwood East Bike Path**	**C**	**67**	**1**	**1**	**71**	**72**	**63**	**9**	**1**	**YES**
S1098	**Business**	**E**	**72**	**1**	**1**	**69**	**69**	**61**	**8**	**0**	**NO**
S1099	**Hotel**	**E**	**72**	**1**	**1**	**72**	**74**	**64**	**10**	**2**	**YES**
S1100	**Restaurant**	**E**	**72**	**1**	**1**	**75**	**76**	**65**	**11**	**1**	**YES**
S1103	Hotel	E	72	1	1	68	72	70	2	4	YES
S1105	Hotel	E	72	1	1	61	63	NA	NA	2	NO
S1106	Restaurant	E	72	1	1	70	70	NA	NA	0	NO
S1107	Restaurant	E	72	1	1	61	63	NA	NA	2	NO
S1108	Restaurant	E	72	1	1	67	68	NA	NA	1	NO
S1109	Restaurant	E	72	1	1	66	65	NA	NA	-1	NO
S1110	**Cardinal Stritch University**	**C**	**67**	**1**	**1**	**69**	**74**	**65**	**9**	**5**	**YES**
S1111	**Business**	**E**	**72**	**1**	**1**	**70**	**75**	**67**	**8**	**5**	**YES**
S1112	**Hotel**	**E**	**72**	**1**	**1**	**71**	**74**	**66**	**8**	**3**	**YES**
S1113.2	Hotel	E	72	1	2	71	72	71	1	1	YES
S1114	Business	E	72	1	1	63	66	66	0	3	NO
S1115	Restaurant	E	72	1	1	65	66	66	0	1	NO
S1116	Hotel	E	72	1	1	63	65	65	0	2	NO
S1117	Daniel Morgan Path	C	67	1	1	72	70	NA	NA	-2	YES

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S1122	Residential	B	67	1	1	60	63	NA	NA	3	NO
S1123	Hotel	E	72	1	1	63	65	NA	NA	2	NO
S1124	Residential Pool	B	67	1	1	72	75	71	4	3	YES
S1125.1	Residential	B	67	2	1	57	60	56	4	3	NO
S1125.2	Residential	B	67	2	2	60	63	60	3	3	NO
S1126.1	**Residential**	**B**	**67**	**2**	**1**	**61**	**66**	**58**	**8**	**5**	**YES**
S1126.2	Residential	B	67	2	2	64	67	61	6	3	YES
S1127.1	**Residential**	**B**	**67**	**2**	**1**	**60**	**65**	**54**	**11**	**5**	**NO**
S1127.2	**Residential**	**B**	**67**	**2**	**2**	**63**	**66**	**57**	**9**	**3**	**YES**
S1128.1	**Residential**	**B**	**67**	**2**	**1**	**63**	**68**	**56**	**12**	**5**	**YES**
S1128.2	**Residential**	**B**	**67**	**2**	**2**	**66**	**68**	**59**	**9**	**2**	**YES**
S1129.1	**Residential**	**B**	**67**	**2**	**1**	**58**	**64**	**54**	**10**	**6**	**NO**
S1129.2	**Residential**	**B**	**67**	**2**	**2**	**61**	**65**	**56**	**9**	**4**	**NO**
S1130.1	**Residential**	**B**	**67**	**2**	**1**	**60**	**66**	**56**	**10**	**6**	**YES**
S1130.2	**Residential**	**B**	**67**	**2**	**2**	**63**	**67**	**58**	**9**	**4**	**YES**
S1131.1	**Residential**	**B**	**67**	**1**	**1**	**65**	**70**	**59**	**11**	**5**	**YES**
S1131.2	**Residential**	**B**	**67**	**1**	**2**	**68**	**70**	**60**	**10**	**2**	**YES**
S1132.1	**Residential**	**B**	**67**	**1**	**1**	**67**	**71**	**60**	**11**	**4**	**YES**
S1132.2	**Residential**	**B**	**67**	**1**	**2**	**70**	**72**	**61**	**11**	**2**	**YES**
S1133.1	**Residential**	**B**	**67**	**1**	**1**	**69**	**72**	**62**	**10**	**3**	**YES**
S1133.2	**Residential**	**B**	**67**	**1**	**2**	**71**	**73**	**63**	**10**	**2**	**YES**
S1134.1	**Residential**	**B**	**67**	**1**	**1**	**70**	**73**	**63**	**10**	**3**	**YES**
S1134.2	**Residential**	**B**	**67**	**1**	**2**	**72**	**74**	**64**	**10**	**2**	**YES**
S1135.1	**Residential**	**B**	**67**	**2**	**1**	**58**	**62**	**53**	**9**	**4**	**NO**
S1135.2	Residential	B	67	2	2	61	64	57	7	3	NO
S1136.1	**Residential**	**B**	**67**	**2**	**1**	**61**	**64**	**55**	**9**	**3**	**NO**
S1136.2	**Residential**	**B**	**67**	**2**	**2**	**64**	**67**	**59**	**8**	**3**	**YES**
S1137.1	**Residential**	**B**	**67**	**1**	**1**	**68**	**72**	**59**	**13**	**4**	**YES**
S1137.2	**Residential**	**B**	**67**	**1**	**2**	**71**	**73**	**62**	**11**	**2**	**YES**

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S1138.1	**Residential**	**B**	**67**	**1**	**1**	**71**	**73**	**61**	**12**	**2**	**YES**
S1138.2	**Residential**	**B**	**67**	**1**	**2**	**72**	**74**	**64**	**10**	**2**	**YES**
S1139.1	**Residential**	**B**	**67**	**1**	**1**	**72**	**74**	**63**	**11**	**2**	**YES**
S1139.2	**Residential**	**B**	**67**	**1**	**2**	**73**	**75**	**65**	**10**	**2**	**YES**
S1140.1	**Residential**	**B**	**67**	**1**	**1**	**74**	**76**	**66**	**10**	**2**	**YES**
S1140.2	**Residential**	**B**	**67**	**1**	**2**	**75**	**77**	**69**	**8**	**2**	**YES**
S1141.1	**Residential**	**B**	**67**	**1**	**1**	**69**	**74**	**60**	**14**	**5**	**YES**
S1141.2	**Residential**	**B**	**67**	**1**	**2**	**72**	**74**	**62**	**12**	**2**	**YES**
S1142.1	**Residential**	**B**	**67**	**1**	**1**	**58**	**61**	**53**	**8**	**3**	**NO**
S1142.2	Residential	B	67	1	2	61	64	57	7	3	NO
S1143.1	Residential	B	67	2	1	54	57	51	6	3	NO
S1143.2	Residential	B	67	2	2	57	60	54	6	3	NO
S1144.1	**Residential**	**B**	**67**	**1**	**1**	**70**	**74**	**61**	**13**	**4**	**YES**
S1144.2	**Residential**	**B**	**67**	**1**	**2**	**73**	**75**	**62**	**13**	**2**	**YES**
S1145.1	**Residential**	**B**	**67**	**2**	**1**	**58**	**61**	**53**	**8**	**3**	**NO**
S1145.2	**Residential**	**B**	**67**	**2**	**2**	**61**	**64**	**56**	**8**	**3**	**NO**
S1146.1	**Residential**	**B**	**67**	**1**	**1**	**70**	**74**	**61**	**13**	**4**	**YES**
S1146.2	**Residential**	**B**	**67**	**1**	**2**	**73**	**75**	**63**	**12**	**2**	**YES**
S1147.1	Residential	B	67	2	1	55	58	53	5	3	NO
S1147.2	Residential	B	67	2	2	57	60	55	5	3	NO
S1148.1	**Residential**	**B**	**67**	**1**	**1**	**71**	**75**	**62**	**13**	**4**	**YES**
S1148.2	**Residential**	**B**	**67**	**1**	**2**	**74**	**76**	**63**	**13**	**2**	**YES**
S1149.1	**Residential**	**B**	**67**	**2**	**1**	**60**	**63**	**54**	**9**	**3**	**NO**
S1149.2	Residential	B	67	2	2	63	65	58	7	2	NO
S1150.1	**Residential**	**B**	**67**	**2**	**1**	**60**	**63**	**55**	**8**	**3**	**NO**
S1150.2	Residential	B	67	2	2	63	65	58	7	2	NO
S1151.1	**Residential**	**B**	**67**	**2**	**1**	**73**	**76**	**62**	**14**	**3**	**YES**
S1151.2	**Residential**	**B**	**67**	**2**	**2**	**74**	**76**	**64**	**12**	**2**	**YES**
S1152.1	**Residential**	**B**	**67**	**2**	**1**	**61**	**64**	**55**	**9**	**3**	**NO**

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S1152.2	**Residential**	**B**	**67**	**2**	**2**	**63**	**66**	**58**	**8**	**3**	**YES**
S1153.1	**Residential**	**B**	**67**	**2**	**1**	**61**	**64**	**55**	**9**	**3**	**NO**
S1153.2	**Residential**	**B**	**67**	**2**	**2**	**63**	**66**	**58**	**8**	**3**	**YES**
S1154.1	**Residential**	**B**	**67**	**1**	**1**	**74**	**76**	**63**	**13**	**2**	**YES**
S1154.2	**Residential**	**B**	**67**	**1**	**2**	**75**	**77**	**64**	**13**	**2**	**YES**
S1155.1	**Residential**	**B**	**67**	**1**	**1**	**74**	**76**	**63**	**13**	**2**	**YES**
S1155.2	**Residential**	**B**	**67**	**1**	**2**	**75**	**77**	**65**	**12**	**2**	**YES**
S1156.1	**Residential**	**B**	**67**	**2**	**1**	**65**	**67**	**57**	**10**	**2**	**YES**
S1156.2	**Residential**	**B**	**67**	**2**	**2**	**66**	**69**	**60**	**9**	**3**	**YES**
S1157.1	**Residential**	**B**	**67**	**1**	**1**	**75**	**77**	**65**	**12**	**2**	**YES**
S1157.2	**Residential**	**B**	**67**	**1**	**2**	**76**	**78**	**67**	**11**	**2**	**YES**
S1158.1	**Residential**	**B**	**67**	**1**	**1**	**68**	**71**	**59**	**12**	**3**	**YES**
S1158.2	**Residential**	**B**	**67**	**1**	**2**	**70**	**72**	**61**	**11**	**2**	**YES**
S1159.1	Residential	B	67	1	1	57	60	53	7	3	NO
S1159.2	Residential	B	67	1	2	60	63	58	5	3	NO
S1160.1	**Residential**	**B**	**67**	**1**	**1**	**69**	**73**	**60**	**13**	**4**	**YES**
S1160.2	**Residential**	**B**	**67**	**1**	**2**	**72**	**74**	**62**	**12**	**2**	**YES**
S1161.1	**Residential**	**B**	**67**	**1**	**1**	**70**	**74**	**60**	**14**	**4**	**YES**
S1161.2	**Residential**	**B**	**67**	**1**	**2**	**73**	**75**	**62**	**13**	**2**	**YES**
S1162.1	**Residential**	**B**	**67**	**2**	**1**	**58**	**61**	**53**	**8**	**3**	**NO**
S1162.2	Residential	B	67	2	2	61	63	59	4	2	NO
S1163.1	**Residential**	**B**	**67**	**1**	**1**	**71**	**75**	**61**	**14**	**4**	**YES**
S1163.2	**Residential**	**B**	**67**	**1**	**2**	**74**	**76**	**63**	**13**	**2**	**YES**
S1164.1	**Residential**	**B**	**67**	**2**	**1**	**60**	**62**	**54**	**8**	**2**	**NO**
S1164.2	Residential	B	67	2	2	63	65	59	6	2	NO
S1165.1	**Residential**	**B**	**67**	**2**	**1**	**72**	**76**	**62**	**14**	**4**	**YES**
S1165.2	**Residential**	**B**	**67**	**2**	**2**	**74**	**76**	**64**	**12**	**2**	**YES**
S1166.1	**Residential**	**B**	**67**	**2**	**1**	**61**	**64**	**55**	**9**	**3**	**NO**
S1166.2	Residential	B	67	2	2	65	67	60	7	2	YES

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S1167.1	Residential	B	67	1	1	73	76	62	14	3	YES
S1167.2	Residential	B	67	1	2	75	77	64	13	2	YES
S1168.1	Residential	B	67	1	1	74	76	63	13	2	YES
S1168.2	Residential	B	67	1	2	75	77	65	12	2	YES
S1169.1	Residential	B	67	2	1	62	65	55	10	3	NO
S1169.2	Residential	B	67	2	2	65	67	57	10	2	YES
S1170.1	Residential	B	67	1	1	75	77	65	12	2	YES
S1170.2	Residential	B	67	1	2	76	78	67	11	2	YES
S1171.1	Residential	B	67	2	1	67	69	58	11	2	YES
S1171.2	Residential	B	67	2	2	69	71	62	9	2	YES
S1172.1	Residential	B	67	2	1	64	67	58	9	3	YES
S1172.2	Residential	B	67	2	2	67	69	59	10	2	YES
S1173.1	Residential	B	67	1	1	66	70	57	13	4	YES
S1173.2	Residential	B	67	1	2	70	71	60	11	1	YES
S1174.1	Residential	B	67	1	1	67	71	58	13	4	YES
S1174.2	Residential	B	67	1	2	70	72	60	12	2	YES
S1175.1	Residential	B	67	2	1	58	61	52	9	3	NO
S1175.2	Residential	B	67	2	2	62	64	55	9	2	NO
S1176.1	Residential	B	67	2	1	69	72	59	13	3	YES
S1176.2	Residential	B	67	2	2	71	73	61	12	2	YES
S1177.1	Residential	B	67	1	1	67	70	59	11	3	YES
S1177.2	Residential	B	67	1	2	69	71	60	11	2	YES
S1178.1	Residential	B	67	2	1	71	73	60	13	2	YES
S1178.2	Residential	B	67	2	2	73	75	62	13	2	YES
S1179.1	Residential	B	67	1	1	68	71	59	12	3	YES
S1179.2	Residential	B	67	1	2	70	72	60	12	2	YES
S1180.1	Residential	B	67	2	1	65	68	56	12	3	YES
S1180.2	Residential	B	67	2	2	67	69	58	11	2	YES
S1181.1	Residential	B	67	1	1	72	74	60	14	2	YES

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S1181.2	Residential	B	67	1	2	73	75	63	12	2	YES
S1182.1	Residential	B	67	1	1	73	75	61	14	2	YES
S1182.2	Residential	B	67	1	2	74	76	63	13	2	YES
S1183.1	Residential	B	67	2	1	69	72	60	12	3	YES
S1183.2	Residential	B	67	2	2	70	73	61	12	3	YES
S1184.1	Residential	B	67	1	1	75	77	62	15	2	YES
S1184.2	Residential	B	67	1	2	76	78	65	13	2	YES
S1185.1	Residential	B	67	2	1	71	73	60	13	2	YES
S1185.2	Residential	B	67	2	2	71	74	62	12	3	YES
S1186.1	Residential	B	67	1	1	71	73	61	12	2	YES
S1186.2	Residential	B	67	1	2	72	74	62	12	2	YES
S1187.1	Residential	B	67	1	1	72	74	61	13	2	YES
S1187.2	Residential	B	67	1	2	72	75	63	12	3	YES
S1188.1	Residential	B	67	1	1	74	76	63	13	2	YES
S1188.2	Residential	B	67	1	2	75	77	64	13	2	YES
S1189.1	Residential	B	67	2	1	69	73	60	13	4	YES
S1189.2	Residential	B	67	2	2	72	74	61	13	2	YES
S1190.1	Residential	B	67	2	1	67	70	59	11	3	YES
S1190.2	Residential	B	67	2	2	70	73	60	13	3	YES
S1191.1	Residential	B	67	2	1	65	68	58	10	3	YES
S1191.2	Residential	B	67	2	2	69	71	58	13	2	YES
S1192.1	Residential	B	67	2	1	63	65	56	9	2	NO
S1192.2	Residential	B	67	2	2	67	69	57	12	2	YES
S1193	Residential Pool	B	67	1	1	63	65	56	9	2	NO
S1194.2	Residential	B	67	1	2	64	66	56	10	2	YES
S1194.3	Residential	B	67	1	3	64	67	57	10	3	YES
S1194.4	Residential	B	67	1	4	65	67	58	9	2	YES
S1195.1	Residential	B	67	1	1	65	68	58	10	3	YES
S1195.2	Residential	B	67	1	2	69	72	59	13	3	YES

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S1195.3	**Residential**	**B**	**67**	**1**	**3**	**70**	**72**	**60**	**12**	**2**	**YES**
S1195.4	**Residential**	**B**	**67**	**1**	**4**	**70**	**72**	**62**	**10**	**2**	**YES**
S1196.1	Residential	B	67	1	1	49	50	48	2	1	NO
S1196.2	Residential	B	67	1	2	51	53	50	3	2	NO
S1196.3	Residential	B	67	1	3	53	55	52	3	2	NO
S1196.4	Residential	B	67	1	4	55	57	53	4	2	NO
S1197.2	Residential	B	67	1	2	46	48	44	4	2	NO
S1197.3	Residential	B	67	1	3	49	50	46	4	1	NO
S1197.4	Residential	B	67	1	4	52	54	50	4	2	NO
S1198.1	**Residential**	**B**	**67**	**2**	**1**	**66**	**69**	**59**	**10**	**3**	**YES**
S1198.2	**Residential**	**B**	**67**	**2**	**2**	**69**	**72**	**59**	**13**	**3**	**YES**
S1198.3	**Residential**	**B**	**67**	**2**	**3**	**70**	**72**	**61**	**11**	**2**	**YES**
S1198.4	**Residential**	**B**	**67**	**2**	**4**	**70**	**72**	**62**	**10**	**2**	**YES**
S1199.1	Residential	B	67	1	1	47	48	44	4	1	NO
S1199.2	Residential	B	67	1	2	45	47	43	4	2	NO
S1199.3	Residential	B	67	1	3	49	51	47	4	2	NO
S1199.4	Residential	B	67	1	4	52	54	50	4	2	NO
S1200.1	Residential	B	67	2	1	47	49	45	4	2	NO
S1200.2	Residential	B	67	2	2	49	51	47	4	2	NO
S1200.3	Residential	B	67	2	3	50	51	48	3	1	NO
S1200.4	Residential	B	67	2	4	52	53	50	3	1	NO
S1201.1	**Residential**	**B**	**67**	**2**	**1**	**59**	**62**	**54**	**8**	**3**	**NO**
S1201.2	**Residential**	**B**	**67**	**2**	**2**	**63**	**65**	**55**	**10**	**2**	**NO**
S1201.3	**Residential**	**B**	**67**	**2**	**3**	**63**	**66**	**57**	**9**	**3**	**YES**
S1201.4	**Residential**	**B**	**67**	**2**	**4**	**64**	**66**	**58**	**8**	**2**	**YES**
S1202.1	**Residential**	**B**	**67**	**2**	**1**	**66**	**69**	**59**	**10**	**3**	**YES**
S1202.2	**Residential**	**B**	**67**	**2**	**2**	**69**	**71**	**59**	**12**	**2**	**YES**
S1202.3	**Residential**	**B**	**67**	**2**	**3**	**70**	**72**	**61**	**11**	**2**	**YES**
S1202.4	**Residential**	**B**	**67**	**2**	**4**	**70**	**72**	**63**	**9**	**2**	**YES**

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Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S1203.1	**Residential**	**B**	**67**	**1**	**1**	**72**	**75**	**63**	**12**	**3**	**YES**
S1203.2	**Residential**	**B**	**67**	**1**	**2**	**75**	**77**	**64**	**13**	**2**	**YES**
S1203.3	**Residential**	**B**	**67**	**1**	**3**	**75**	**77**	**65**	**12**	**2**	**YES**
S1203.4	**Residential**	**B**	**67**	**1**	**4**	**75**	**78**	**70**	**8**	**3**	**YES**
S1204.1	Residential	B	67	2	1	46	48	44	4	2	NO
S1204.2	Residential	B	67	2	2	44	46	42	4	2	NO
S1204.3	Residential	B	67	2	3	49	51	47	4	2	NO
S1204.4	Residential	B	67	2	4	51	53	49	4	2	NO
S1205.1	**Residential**	**B**	**67**	**2**	**1**	**57**	**60**	**52**	**8**	**3**	**NO**
S1205.2	**Residential**	**B**	**67**	**2**	**2**	**61**	**64**	**53**	**11**	**3**	**NO**
S1205.3	**Residential**	**B**	**67**	**2**	**3**	**63**	**65**	**55**	**10**	**2**	**NO**
S1205.4	**Residential**	**B**	**67**	**2**	**4**	**63**	**65**	**56**	**9**	**2**	**NO**
S1206.1	Residential	B	67	2	1	46	48	44	4	2	NO
S1206.2	Residential	B	67	2	2	48	50	46	4	2	NO
S1206.3	Residential	B	67	2	3	50	52	49	3	2	NO
S1206.4	Residential	B	67	2	4	54	55	51	4	1	NO
S1207.1	**Residential**	**B**	**67**	**2**	**1**	**66**	**69**	**58**	**11**	**3**	**YES**
S1207.2	**Residential**	**B**	**67**	**2**	**2**	**69**	**71**	**59**	**12**	**2**	**YES**
S1207.3	**Residential**	**B**	**67**	**2**	**3**	**70**	**72**	**61**	**11**	**2**	**YES**
S1207.4	**Residential**	**B**	**67**	**2**	**4**	**70**	**72**	**63**	**9**	**2**	**YES**
S1208.1	**Residential**	**B**	**67**	**2**	**1**	**67**	**70**	**59**	**11**	**3**	**YES**
S1208.2	**Residential**	**B**	**67**	**2**	**2**	**70**	**72**	**60**	**12**	**2**	**YES**
S1208.3	**Residential**	**B**	**67**	**2**	**3**	**71**	**73**	**62**	**11**	**2**	**YES**
S1208.4	**Residential**	**B**	**67**	**2**	**4**	**71**	**73**	**64**	**9**	**2**	**YES**
S1209.1	**Residential**	**B**	**67**	**2**	**1**	**69**	**72**	**60**	**12**	**3**	**YES**
S1209.2	**Residential**	**B**	**67**	**2**	**2**	**71**	**74**	**61**	**13**	**3**	**YES**
S1209.3	**Residential**	**B**	**67**	**2**	**3**	**72**	**74**	**63**	**11**	**2**	**YES**
S1209.4	**Residential**	**B**	**67**	**2**	**4**	**72**	**74**	**65**	**9**	**2**	**YES**
S1210.1	**Residential**	**B**	**67**	**1**	**1**	**70**	**73**	**61**	**12**	**3**	**YES**

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build				
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss	Increase (Future No Barrier - Existing)	
S1210.2	**Residential**	**B**	**67**	**1**	**2**	**73**	**75**	**62**	**13**	**2**	**YES**
S1210.3	**Residential**	**B**	**67**	**1**	**3**	**74**	**76**	**63**	**13**	**2**	**YES**
S1210.4	**Residential**	**B**	**67**	**1**	**4**	**74**	**76**	**68**	**8**	**2**	**YES**
S1211.1	Residential	B	67	2	1	49	50	47	3	1	NO
S1211.2	Residential	B	67	2	2	49	50	47	3	1	NO
S1211.3	Residential	B	67	2	3	52	54	50	4	2	NO
S1211.4	Residential	B	67	2	4	58	61	56	5	3	NO
S1212.1	Residential	B	67	1	1	50	51	48	3	1	NO
S1212.2	Residential	B	67	1	2	50	52	49	3	2	NO
S1212.3	Residential	B	67	1	3	53	56	52	4	3	NO
S1212.4	Residential	B	67	1	4	59	62	57	5	3	NO
S1213.1	Residential	B	67	2	1	49	51	47	4	2	NO
S1213.2	Residential	B	67	2	2	50	52	48	4	2	NO
S1213.3	Residential	B	67	2	3	52	54	51	3	2	NO
S1213.4	Residential	B	67	2	4	55	58	54	4	3	NO
S1215.1	Residential	B	67	1	1	50	52	50	2	2	NO
S1215.2	Residential	B	67	1	2	51	54	52	2	3	NO
S1215.3	Residential	B	67	1	3	53	55	53	2	2	NO
S1215.4	Residential	B	67	1	4	55	58	55	3	3	NO
S1223	**Hidden Creek Path**	**C**	**67**	**1**	**1**	**74**	**78**	**64**	**14**	**4**	**YES**
S1224.1	**Residential**	**B**	**67**	**2**	**1**	**57**	**60**	**52**	**8**	**3**	**NO**
S1224.2	**Residential**	**B**	**67**	**2**	**2**	**63**	**65**	**52**	**13**	**2**	**NO**
S1224.3	**Residential**	**B**	**67**	**2**	**3**	**63**	**66**	**53**	**13**	**3**	**YES**
S1224.4	**Residential**	**B**	**67**	**2**	**4**	**64**	**66**	**55**	**11**	**2**	**YES**
S1225.1	Residential	B	67	2	1	46	48	44	4	2	NO
S1225.2	Residential	B	67	2	2	48	49	46	3	1	NO
S1225.3	Residential	B	67	2	3	50	52	49	3	2	NO
S1225.4	Residential	B	67	2	4	54	55	52	3	1	NO
S1226.1	**Residential**	**B**	**67**	**1**	**1**	**60**	**64**	**54**	**10**	**4**	**NO**

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Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S1226.2	**Residential**	**B**	**67**	**1**	**2**	**65**	**67**	**55**	**12**	**2**	**YES**
S1226.3	**Residential**	**B**	**67**	**1**	**3**	**65**	**67**	**57**	**10**	**2**	**YES**
S1226.4	**Residential**	**B**	**67**	**1**	**4**	**66**	**68**	**59**	**9**	**2**	**YES**
S1227.1	**Residential**	**B**	**67**	**1**	**1**	**68**	**71**	**59**	**12**	**3**	**YES**
S1227.2	**Residential**	**B**	**67**	**1**	**2**	**72**	**74**	**60**	**14**	**2**	**YES**
S1227.3	**Residential**	**B**	**67**	**1**	**3**	**72**	**74**	**61**	**13**	**2**	**YES**
S1227.4	**Residential**	**B**	**67**	**1**	**4**	**72**	**75**	**63**	**12**	**3**	**YES**
S1228.1	Residential	B	67	1	1	55	57	51	6	2	NO
S1228.2	**Residential**	**B**	**67**	**1**	**2**	**59**	**61**	**52**	**9**	**2**	**NO**
S1228.3	**Residential**	**B**	**67**	**1**	**3**	**60**	**62**	**53**	**9**	**2**	**NO**
S1228.4	**Residential**	**B**	**67**	**1**	**4**	**61**	**63**	**54**	**9**	**2**	**NO**
S1229.1	**Residential**	**B**	**67**	**2**	**1**	**70**	**73**	**60**	**13**	**3**	**YES**
S1229.2	**Residential**	**B**	**67**	**2**	**2**	**73**	**75**	**61**	**14**	**2**	**YES**
S1229.3	**Residential**	**B**	**67**	**2**	**3**	**73**	**75**	**63**	**12**	**2**	**YES**
S1229.4	**Residential**	**B**	**67**	**2**	**4**	**73**	**76**	**66**	**10**	**3**	**YES**
S1230.1	**Residential**	**B**	**67**	**1**	**1**	**65**	**68**	**56**	**12**	**3**	**YES**
S1230.2	**Residential**	**B**	**67**	**1**	**2**	**69**	**71**	**57**	**14**	**2**	**YES**
S1230.3	**Residential**	**B**	**67**	**1**	**3**	**70**	**72**	**59**	**13**	**2**	**YES**
S1230.4	**Residential**	**B**	**67**	**1**	**4**	**70**	**72**	**60**	**12**	**2**	**YES**
S1231.1	Residential	B	67	1	1	54	57	51	6	3	NO
S1231.2	**Residential**	**B**	**67**	**1**	**2**	**58**	**61**	**53**	**8**	**3**	**NO**
S1231.3	**Residential**	**B**	**67**	**1**	**3**	**60**	**62**	**54**	**8**	**2**	**NO**
S1231.4	**Residential**	**B**	**67**	**1**	**4**	**61**	**63**	**55**	**8**	**2**	**NO**
S1232.1	**Residential**	**B**	**67**	**1**	**1**	**73**	**76**	**62**	**14**	**3**	**YES**
S1232.2	**Residential**	**B**	**67**	**1**	**2**	**75**	**77**	**63**	**14**	**2**	**YES**
S1232.3	**Residential**	**B**	**67**	**1**	**3**	**75**	**77**	**65**	**12**	**2**	**YES**
S1232.4	Residential	B	67	1	4	75	78	71	7	3	**YES**
S1233.1	**Residential**	**B**	**67**	**2**	**1**	**71**	**74**	**61**	**13**	**3**	**YES**
S1233.2	**Residential**	**B**	**67**	**2**	**2**	**74**	**76**	**62**	**14**	**2**	**YES**

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S1233.3	**Residential**	**B**	**67**	**2**	**3**	**74**	**76**	**64**	**12**	**2**	**YES**
S1233.4	**Residential**	**B**	**67**	**2**	**4**	**74**	**77**	**68**	**9**	**3**	**YES**
S1234.1	Residential	B	67	2	1	56	58	51	7	2	NO
S1234.2	**Residential**	**B**	**67**	**2**	**2**	**60**	**62**	**52**	**10**	**2**	**NO**
S1234.3	**Residential**	**B**	**67**	**2**	**3**	**61**	**63**	**53**	**10**	**2**	**NO**
S1234.4	**Residential**	**B**	**67**	**2**	**4**	**62**	**64**	**54**	**10**	**2**	**NO**
S1235.1	**Residential**	**B**	**67**	**2**	**1**	**57**	**60**	**51**	**9**	**3**	**NO**
S1235.2	**Residential**	**B**	**67**	**2**	**2**	**62**	**64**	**52**	**12**	**2**	**NO**
S1235.3	**Residential**	**B**	**67**	**2**	**3**	**63**	**65**	**53**	**12**	**2**	**NO**
S1235.4	**Residential**	**B**	**67**	**2**	**4**	**63**	**65**	**55**	**10**	**2**	**NO**
S1236.1	**Residential**	**B**	**67**	**2**	**1**	**56**	**59**	**51**	**8**	**3**	**NO**
S1236.2	**Residential**	**B**	**67**	**2**	**2**	**60**	**63**	**52**	**11**	**3**	**NO**
S1236.3	**Residential**	**B**	**67**	**2**	**3**	**62**	**64**	**53**	**11**	**2**	**NO**
S1236.4	**Residential**	**B**	**67**	**2**	**4**	**63**	**64**	**54**	**10**	**1**	**NO**
S1237.1	**Residential**	**B**	**67**	**1**	**1**	**75**	**77**	**64**	**13**	**2**	**YES**
S1237.2	**Residential**	**B**	**67**	**1**	**2**	**77**	**79**	**65**	**14**	**2**	**YES**
S1237.3	**Residential**	**B**	**67**	**1**	**3**	**77**	**79**	**68**	**11**	**2**	**YES**
S1237.4	Residential	B	67	1	4	77	80	75	5	3	YES
S1238.1	**Residential**	**B**	**67**	**1**	**1**	**67**	**70**	**58**	**12**	**3**	**YES**
S1238.2	**Residential**	**B**	**67**	**1**	**2**	**71**	**73**	**59**	**14**	**2**	**YES**
S1238.3	**Residential**	**B**	**67**	**1**	**3**	**71**	**73**	**60**	**13**	**2**	**YES**
S1238.4	**Residential**	**B**	**67**	**1**	**4**	**71**	**73**	**62**	**11**	**2**	**YES**
S1239.1	**Residential**	**B**	**67**	**1**	**1**	**59**	**62**	**53**	**9**	**3**	**NO**
S1239.2	**Residential**	**B**	**67**	**1**	**2**	**64**	**65**	**54**	**11**	**1**	**NO**
S1239.3	**Residential**	**B**	**67**	**1**	**3**	**64**	**66**	**55**	**11**	**2**	**YES**
S1239.4	**Residential**	**B**	**67**	**1**	**4**	**65**	**67**	**58**	**9**	**2**	**YES**
S1248.1	**Residential**	**B**	**67**	**1**	**1**	**64**	**67**	**56**	**11**	**3**	**YES**
S1248.2	**Residential**	**B**	**67**	**1**	**2**	**67**	**69**	**56**	**13**	**2**	**YES**
S1248.3	**Residential**	**B**	**67**	**1**	**3**	**67**	**69**	**58**	**11**	**2**	**YES**

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S1248.4	Residential	B	67	1	4	68	70	61	9	2	YES
S1249.1	Residential	B	67	1	1	62	65	55	10	3	NO
S1249.2	Residential	B	67	1	2	66	68	55	13	2	YES
S1249.3	Residential	B	67	1	3	66	68	57	11	2	YES
S1249.4	Residential	B	67	1	4	67	69	60	9	2	YES
S1250.1	Residential	B	67	1	1	61	65	54	11	4	NO
S1250.2	Residential	B	67	1	2	65	67	55	12	2	YES
S1250.3	Residential	B	67	1	3	66	68	56	12	2	YES
S1250.4	Residential	B	67	1	4	66	68	59	9	2	YES
S1251.1	Residential	B	67	1	1	60	64	54	10	4	NO
S1251.2	Residential	B	67	1	2	64	66	54	12	2	YES
S1251.3	Residential	B	67	1	3	65	66	55	11	1	YES
S1251.4	Residential	B	67	1	4	65	67	58	9	2	YES
S1252.1	Residential	B	67	1	1	60	63	54	9	3	NO
S1252.2	Residential	B	67	1	2	64	65	54	11	1	NO
S1252.3	Residential	B	67	1	3	64	66	55	11	2	YES
S1252.4	Residential	B	67	1	4	64	66	57	9	2	YES
S1253.1	Residential	B	67	1	1	57	62	53	9	5	NO
S1253.2	Residential	B	67	1	2	62	64	53	11	2	NO
S1253.3	Residential	B	67	1	3	63	65	54	11	2	NO
S1253.4	Residential	B	67	1	4	63	65	56	9	2	NO
S1254.1	Residential	B	67	1	1	58	61	53	8	3	NO
S1254.2	Residential	B	67	1	2	62	64	53	11	2	NO
S1254.3	Residential	B	67	1	3	62	64	54	10	2	NO
S1254.4	Residential	B	67	1	4	63	65	56	9	2	NO
S1255.1	Residential	B	67	1	1	57	61	53	8	4	NO
S1255.2	Residential	B	67	1	2	61	63	53	10	2	NO
S1255.3	Residential	B	67	1	3	62	64	54	10	2	NO
S1255.4	Residential	B	67	1	4	62	64	55	9	2	NO

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NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S1256.1	**Residential**	**B**	**67**	**1**	**1**	**59**	**63**	**54**	**9**	**4**	**NO**
S1256.2	**Residential**	**B**	**67**	**1**	**2**	**63**	**65**	**54**	**11**	**2**	**NO**
S1256.3	**Residential**	**B**	**67**	**1**	**3**	**64**	**65**	**55**	**10**	**1**	**NO**
S1256.4	**Residential**	**B**	**67**	**1**	**4**	**64**	**66**	**57**	**9**	**2**	**YES**
S1257.1	**Residential**	**B**	**67**	**1**	**1**	**61**	**64**	**54**	**10**	**3**	**NO**
S1257.2	**Residential**	**B**	**67**	**1**	**2**	**65**	**66**	**55**	**11**	**1**	**YES**
S1257.3	**Residential**	**B**	**67**	**1**	**3**	**65**	**67**	**56**	**11**	**2**	**YES**
S1257.4	**Residential**	**B**	**67**	**1**	**4**	**66**	**68**	**59**	**9**	**2**	**YES**
S1258.1	**Residential**	**B**	**67**	**1**	**1**	**70**	**73**	**60**	**13**	**3**	**YES**
S1258.2	**Residential**	**B**	**67**	**1**	**2**	**73**	**76**	**61**	**15**	**3**	**YES**
S1258.3	**Residential**	**B**	**67**	**1**	**3**	**74**	**76**	**63**	**13**	**2**	**YES**
S1258.4	**Residential**	**B**	**67**	**1**	**4**	**74**	**76**	**66**	**10**	**2**	**YES**
S1259.1	Residential	B	67	1	1	46	47	44	3	1	NO
S1259.2	Residential	B	67	1	2	47	47	45	2	0	NO
S1259.3	Residential	B	67	1	3	49	49	47	2	0	NO
S1259.4	Residential	B	67	1	4	52	52	51	1	0	NO
S1260.1	Residential	B	67	1	1	47	48	46	2	1	NO
S1260.2	Residential	B	67	1	2	47	49	46	3	2	NO
S1260.3	Residential	B	67	1	3	49	50	48	2	1	NO
S1260.4	Residential	B	67	1	4	52	53	51	2	1	NO
S1261.1	**Residential**	**B**	**67**	**1**	**1**	**72**	**74**	**62**	**12**	**2**	**YES**
S1261.2	**Residential**	**B**	**67**	**1**	**2**	**74**	**76**	**63**	**13**	**2**	**YES**
S1261.3	**Residential**	**B**	**67**	**1**	**3**	**75**	**77**	**64**	**13**	**2**	**YES**
S1261.4	**Residential**	**B**	**67**	**1**	**4**	**75**	**77**	**68**	**9**	**2**	**YES**
S1262.1	**Residential**	**B**	**67**	**1**	**1**	**66**	**69**	**57**	**12**	**3**	**YES**
S1262.2	**Residential**	**B**	**67**	**1**	**2**	**70**	**72**	**57**	**15**	**2**	**YES**
S1262.3	**Residential**	**B**	**67**	**1**	**3**	**70**	**72**	**58**	**14**	**2**	**YES**
S1262.4	**Residential**	**B**	**67**	**1**	**4**	**70**	**72**	**60**	**12**	**2**	**YES**
S1263.1	**Residential**	**B**	**67**	**1**	**1**	**66**	**70**	**57**	**13**	**4**	**YES**

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S1263.2	Residential	B	67	1	2	70	72	58	14	2	YES
S1263.3	Residential	B	67	1	3	71	73	59	14	2	YES
S1263.4	Residential	B	67	1	4	71	73	61	12	2	YES
S1264.1	Residential	B	67	1	1	67	70	58	12	3	YES
S1264.2	Residential	B	67	1	2	71	73	59	14	2	YES
S1264.3	Residential	B	67	1	3	71	73	60	13	2	YES
S1264.4	Residential	B	67	1	4	72	74	62	12	2	YES
S1265.1	Residential	B	67	1	1	69	71	59	12	2	YES
S1265.2	Residential	B	67	1	2	72	74	60	14	2	YES
S1265.3	Residential	B	67	1	3	72	74	61	13	2	YES
S1265.4	Residential	B	67	1	4	72	75	63	12	3	YES
S1266.1	Residential	B	67	1	1	62	65	54	11	3	NO
S1266.2	Residential	B	67	1	2	66	68	54	14	2	YES
S1266.3	Residential	B	67	1	3	67	69	55	14	2	YES
S1266.4	Residential	B	67	1	4	67	69	57	12	2	YES
S1267.1	Residential	B	67	1	1	62	66	54	12	4	YES
S1267.2	Residential	B	67	1	2	67	69	55	14	2	YES
S1267.3	Residential	B	67	1	3	67	69	56	13	2	YES
S1267.4	Residential	B	67	1	4	68	70	58	12	2	YES
S1268.1	Residential	B	67	1	1	65	68	56	12	3	YES
S1268.2	Residential	B	67	1	2	69	71	57	14	2	YES
S1268.3	Residential	B	67	1	3	69	71	58	13	2	YES
S1268.4	Residential	B	67	1	4	69	72	59	13	3	YES
S1269.2	Residential	B	67	1	2	68	70	56	14	2	YES
S1269.3	Residential	B	67	1	3	68	70	57	13	2	YES
S1269.4	Residential	B	67	1	4	68	71	58	13	3	YES
S1270.1	Residential	B	67	1	1	59	63	53	10	4	NO
S1270.2	Residential	B	67	1	2	64	66	53	13	2	YES
S1270.3	Residential	B	67	1	3	65	67	54	13	2	YES

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S1270.4	**Residential**	**B**	**67**	**1**	**4**	**65**	**67**	**56**	**11**	**2**	**YES**
S1271.1	**Residential**	**B**	**67**	**1**	**1**	**61**	**64**	**53**	**11**	**3**	**NO**
S1271.2	**Residential**	**B**	**67**	**1**	**2**	**66**	**67**	**54**	**13**	**1**	**YES**
S1271.3	**Residential**	**B**	**67**	**1**	**3**	**66**	**68**	**55**	**13**	**2**	**YES**
S1271.4	**Residential**	**B**	**67**	**1**	**4**	**66**	**68**	**56**	**12**	**2**	**YES**
S1272.1	**Residential**	**B**	**67**	**1**	**1**	**66**	**70**	**58**	**12**	**4**	**YES**
S1272.2	**Residential**	**B**	**67**	**1**	**2**	**70**	**73**	**59**	**14**	**3**	**YES**
S1272.3	**Residential**	**B**	**67**	**1**	**3**	**71**	**73**	**60**	**13**	**2**	**YES**
S1272.4	**Residential**	**B**	**67**	**1**	**4**	**71**	**73**	**62**	**11**	**2**	**YES**
S1274.1	**Residential**	**B**	**67**	**1**	**1**	**70**	**72**	**60**	**12**	**2**	**YES**
S1274.2	**Residential**	**B**	**67**	**1**	**2**	**73**	**75**	**61**	**14**	**2**	**YES**
S1274.3	**Residential**	**B**	**67**	**1**	**3**	**73**	**75**	**62**	**13**	**2**	**YES**
S1274.4	**Residential**	**B**	**67**	**1**	**4**	**73**	**75**	**65**	**10**	**2**	**YES**
S1276.1	**Residential**	**B**	**67**	**1**	**1**	**71**	**74**	**62**	**12**	**3**	**YES**
S1276.2	**Residential**	**B**	**67**	**1**	**2**	**74**	**76**	**63**	**13**	**2**	**YES**
S1276.3	**Residential**	**B**	**67**	**1**	**3**	**75**	**77**	**64**	**13**	**2**	**YES**
S1276.4	**Residential**	**B**	**67**	**1**	**4**	**75**	**77**	**67**	**10**	**2**	**YES**
S1277.1	Residential	B	67	1	1	48	50	44	6	2	NO
S1277.2	Residential	B	67	1	2	50	52	46	6	2	NO
S1277.3	Residential	B	67	1	3	53	55	49	6	2	NO
S1277.4	Residential	B	67	1	4	58	60	53	7	2	NO
S1278.1	**Residential**	**B**	**67**	**1**	**1**	**71**	**74**	**62**	**12**	**3**	**YES**
S1278.2	**Residential**	**B**	**67**	**1**	**2**	**74**	**77**	**63**	**14**	**3**	**YES**
S1278.3	**Residential**	**B**	**67**	**1**	**3**	**75**	**77**	**64**	**13**	**2**	**YES**
S1278.4	**Residential**	**B**	**67**	**1**	**4**	**75**	**77**	**67**	**10**	**2**	**YES**
S1280.1	Residential	B	67	1	1	48	51	45	6	3	NO
S1280.2	Residential	B	67	1	2	50	52	46	6	2	NO
S1280.3	Residential	B	67	1	3	53	55	48	7	2	NO
S1280.4	Residential	B	67	1	4	57	59	52	7	2	NO

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build				
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss	Increase (Future No Barrier - Existing)	
S1281	Residential Pickelball Court	B	67	1	1	54	57	51	6	3	NO
S1282.1	Residential	B	67	1	1	48	51	45	6	3	NO
S1282.2	Residential	B	67	1	2	50	52	46	6	2	NO
S1282.3	Residential	B	67	1	3	54	56	49	7	2	NO
S1282.4	Residential	B	67	1	4	58	60	53	7	2	NO
S1283.1	**Residential**	**B**	**67**	**1**	**1**	**71**	**74**	**62**	**12**	**3**	**YES**
S1283.2	**Residential**	**B**	**67**	**1**	**2**	**74**	**76**	**63**	**13**	**2**	**YES**
S1283.3	**Residential**	**B**	**67**	**1**	**3**	**75**	**77**	**64**	**13**	**2**	**YES**
S1283.4	**Residential**	**B**	**67**	**1**	**4**	**75**	**77**	**67**	**10**	**2**	**YES**
S1284	Residential Pool	B	67	1	1	50	52	47	5	2	NO
S1286.1	**Residential**	**B**	**67**	**1**	**1**	**71**	**74**	**62**	**12**	**3**	**YES**
S1286.2	**Residential**	**B**	**67**	**1**	**2**	**74**	**76**	**63**	**13**	**2**	**YES**
S1286.3	**Residential**	**B**	**67**	**1**	**3**	**75**	**77**	**64**	**13**	**2**	**YES**
S1286.4	**Residential**	**B**	**67**	**1**	**4**	**75**	**77**	**67**	**10**	**2**	**YES**
S1287.1	Residential	B	67	1	1	48	51	46	5	3	NO
S1287.2	Residential	B	67	1	2	50	52	46	6	2	NO
S1287.3	Residential	B	67	1	3	53	55	48	7	2	NO
S1287.4	Residential	B	67	1	4	58	60	53	7	2	NO
S1288.1	Residential	B	67	1	1	48	50	45	5	2	NO
S1288.2	Residential	B	67	1	2	50	52	46	6	2	NO
S1288.3	Residential	B	67	1	3	53	55	49	6	2	NO
S1288.4	Residential	B	67	1	4	57	59	53	6	2	NO
S1289.1	Residential	B	67	1	1	49	52	48	4	3	NO
S1289.2	Residential	B	67	1	2	50	52	47	5	2	NO
S1289.3	Residential	B	67	1	3	53	55	49	6	2	NO
S1289.4	Residential	B	67	1	4	57	59	53	6	2	NO
S1290.1	Residential	B	67	1	1	49	51	47	4	2	NO
S1290.2	Residential	B	67	1	2	51	52	46	6	1	NO
S1290.3	Residential	B	67	1	3	53	55	49	6	2	NO

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S1290.4	Residential	B	67	1	4	58	60	54	6	2	NO
S1291.1	**Residential**	**B**	**67**	**1**	**1**	**71**	**74**	**62**	**12**	**3**	**YES**
S1291.2	**Residential**	**B**	**67**	**1**	**2**	**74**	**76**	**63**	**13**	**2**	**YES**
S1291.3	**Residential**	**B**	**67**	**1**	**3**	**75**	**77**	**64**	**13**	**2**	**YES**
S1291.4	**Residential**	**B**	**67**	**1**	**4**	**75**	**77**	**67**	**10**	**2**	**YES**
S1293.1	Residential	B	67	1	1	48	49	46	3	1	NO
S1293.2	Residential	B	67	1	2	48	49	46	3	1	NO
S1293.3	Residential	B	67	1	3	50	52	48	4	2	NO
S1293.4	Residential	B	67	1	4	54	55	51	4	1	NO
S1295.1	**Residential**	**B**	**67**	**1**	**1**	**71**	**73**	**61**	**12**	**2**	**YES**
S1295.2	**Residential**	**B**	**67**	**1**	**2**	**74**	**76**	**62**	**14**	**2**	**YES**
S1295.3	**Residential**	**B**	**67**	**1**	**3**	**75**	**77**	**64**	**13**	**2**	**YES**
S1295.4	**Residential**	**B**	**67**	**1**	**4**	**75**	**77**	**66**	**11**	**2**	**YES**
S1296.1	**Residential**	**B**	**67**	**1**	**1**	**71**	**73**	**61**	**12**	**2**	**YES**
S1296.2	**Residential**	**B**	**67**	**1**	**2**	**74**	**76**	**62**	**14**	**2**	**YES**
S1296.3	**Residential**	**B**	**67**	**1**	**3**	**75**	**77**	**64**	**13**	**2**	**YES**
S1296.4	**Residential**	**B**	**67**	**1**	**4**	**75**	**77**	**66**	**11**	**2**	**YES**
S1297.1	Residential	B	67	1	1	49	52	48	4	3	NO
S1297.2	Residential	B	67	1	2	49	51	46	5	2	NO
S1297.3	Residential	B	67	1	3	52	54	48	6	2	NO
S1297.4	Residential	B	67	1	4	55	57	52	5	2	NO
S1298.1	**Residential**	**B**	**67**	**1**	**1**	**59**	**61**	**52**	**9**	**2**	**NO**
S1298.2	**Residential**	**B**	**67**	**1**	**2**	**64**	**66**	**52**	**14**	**2**	**YES**
S1298.3	**Residential**	**B**	**67**	**1**	**3**	**64**	**66**	**54**	**12**	**2**	**YES**
S1298.4	**Residential**	**B**	**67**	**1**	**4**	**65**	**67**	**55**	**12**	**2**	**YES**
S1299.1	Residential	B	67	1	1	52	53	48	5	1	NO
S1299.2	**Residential**	**B**	**67**	**1**	**2**	**55**	**57**	**48**	**9**	**2**	**NO**
S1299.3	**Residential**	**B**	**67**	**1**	**3**	**56**	**58**	**49**	**9**	**2**	**NO**
S1299.4	Residential	B	67	1	4	58	59	52	7	1	NO

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build				
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss	Increase (Future No Barrier - Existing)	
S1300.1	**Residential**	**B**	**67**	**1**	**1**	**68**	**70**	**58**	**12**	**2**	**YES**
S1300.2	**Residential**	**B**	**67**	**1**	**2**	**71**	**73**	**59**	**14**	**2**	**YES**
S1300.3	**Residential**	**B**	**67**	**1**	**3**	**72**	**74**	**59**	**15**	**2**	**YES**
S1300.4	**Residential**	**B**	**67**	**1**	**4**	**72**	**74**	**62**	**12**	**2**	**YES**
S1301.1	**Residential**	**B**	**67**	**1**	**1**	**69**	**71**	**59**	**12**	**2**	**YES**
S1301.2	**Residential**	**B**	**67**	**1**	**2**	**73**	**75**	**60**	**15**	**2**	**YES**
S1301.3	**Residential**	**B**	**67**	**1**	**3**	**73**	**75**	**61**	**14**	**2**	**YES**
S1301.4	**Residential**	**B**	**67**	**1**	**4**	**73**	**76**	**63**	**13**	**3**	**YES**
S1302.2	**Residential**	**B**	**67**	**1**	**2**	**70**	**72**	**58**	**14**	**2**	**YES**
S1302.3	**Residential**	**B**	**67**	**1**	**3**	**71**	**73**	**59**	**14**	**2**	**YES**
S1302.4	**Residential**	**B**	**67**	**1**	**4**	**71**	**73**	**60**	**13**	**2**	**YES**
S1303.1	**Residential**	**B**	**67**	**1**	**1**	**62**	**64**	**54**	**10**	**2**	**NO**
S1303.2	**Residential**	**B**	**67**	**1**	**2**	**67**	**68**	**55**	**13**	**1**	**YES**
S1303.3	**Residential**	**B**	**67**	**1**	**3**	**67**	**69**	**56**	**13**	**2**	**YES**
S1303.4	**Residential**	**B**	**67**	**1**	**4**	**67**	**70**	**57**	**13**	**3**	**YES**
S1304.1	Residential	B	67	1	1	49	48	47	1	-1	NO
S1304.2	Residential	B	67	1	2	50	51	50	1	1	NO
S1304.3	Residential	B	67	1	3	52	53	52	1	1	NO
S1304.4	Residential	B	67	1	4	54	56	53	3	2	NO
S1305.1	**Residential**	**B**	**67**	**1**	**1**	**62**	**65**	**55**	**10**	**3**	**NO**
S1305.2	**Residential**	**B**	**67**	**1**	**2**	**67**	**69**	**55**	**14**	**2**	**YES**
S1305.3	**Residential**	**B**	**67**	**1**	**3**	**67**	**69**	**56**	**13**	**2**	**YES**
S1305.4	**Residential**	**B**	**67**	**1**	**4**	**68**	**70**	**58**	**12**	**2**	**YES**
S1306.1	Residential	B	67	1	1	49	48	47	1	-1	NO
S1306.2	Residential	B	67	1	2	50	52	50	2	2	NO
S1306.3	Residential	B	67	1	3	52	53	52	1	1	NO
S1306.4	Residential	B	67	1	4	55	56	54	2	1	NO
S1307.1	**Residential**	**B**	**67**	**1**	**1**	**62**	**65**	**55**	**10**	**3**	**NO**
S1307.2	**Residential**	**B**	**67**	**1**	**2**	**67**	**69**	**55**	**14**	**2**	**YES**

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NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build				
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss	Increase (Future No Barrier - Existing)	
S1307.3	**Residential**	**B**	**67**	**1**	**3**	**67**	**69**	**56**	**13**	**2**	**YES**
S1307.4	**Residential**	**B**	**67**	**1**	**4**	**68**	**70**	**58**	**12**	**2**	**YES**
S1308.1	Residential	B	67	1	1	50	49	48	1	-1	NO
S1308.2	Residential	B	67	1	2	51	52	51	1	1	NO
S1308.3	Residential	B	67	1	3	52	53	52	1	1	NO
S1308.4	Residential	B	67	1	4	54	56	54	2	2	NO
S1309.1	**Residential**	**B**	**67**	**1**	**1**	**62**	**65**	**55**	**10**	**3**	**NO**
S1309.2	**Residential**	**B**	**67**	**1**	**2**	**67**	**69**	**55**	**14**	**2**	**YES**
S1309.3	**Residential**	**B**	**67**	**1**	**3**	**67**	**69**	**57**	**12**	**2**	**YES**
S1309.4	**Residential**	**B**	**67**	**1**	**4**	**68**	**70**	**58**	**12**	**2**	**YES**
S1310.1	**Residential**	**B**	**67**	**1**	**1**	**68**	**70**	**59**	**11**	**2**	**YES**
S1310.2	**Residential**	**B**	**67**	**1**	**2**	**72**	**74**	**60**	**14**	**2**	**YES**
S1310.3	**Residential**	**B**	**67**	**1**	**3**	**72**	**74**	**61**	**13**	**2**	**YES**
S1310.4	**Residential**	**B**	**67**	**1**	**4**	**72**	**75**	**63**	**12**	**3**	**YES**
S1311.1	**Residential**	**B**	**67**	**1**	**1**	**67**	**70**	**58**	**12**	**3**	**YES**
S1311.2	**Residential**	**B**	**67**	**1**	**2**	**71**	**73**	**59**	**14**	**2**	**YES**
S1311.3	**Residential**	**B**	**67**	**1**	**3**	**71**	**73**	**60**	**13**	**2**	**YES**
S1311.4	**Residential**	**B**	**67**	**1**	**4**	**71**	**74**	**62**	**12**	**3**	**YES**
S1312.1	**Residential**	**B**	**67**	**1**	**1**	**65**	**68**	**57**	**11**	**3**	**YES**
S1312.2	**Residential**	**B**	**67**	**1**	**2**	**69**	**71**	**57**	**14**	**2**	**YES**
S1312.3	**Residential**	**B**	**67**	**1**	**3**	**70**	**72**	**58**	**14**	**2**	**YES**
S1312.4	**Residential**	**B**	**67**	**1**	**4**	**70**	**72**	**60**	**12**	**2**	**YES**
S1313.1	**Residential**	**B**	**67**	**1**	**1**	**66**	**68**	**57**	**11**	**2**	**YES**
S1313.2	**Residential**	**B**	**67**	**1**	**2**	**70**	**72**	**58**	**14**	**2**	**YES**
S1313.3	**Residential**	**B**	**67**	**1**	**3**	**70**	**72**	**59**	**13**	**2**	**YES**
S1313.4	**Residential**	**B**	**67**	**1**	**4**	**70**	**73**	**61**	**12**	**3**	**YES**
S1314.1	**Residential**	**B**	**67**	**1**	**1**	**69**	**71**	**60**	**11**	**2**	**YES**
S1314.2	**Residential**	**B**	**67**	**1**	**2**	**73**	**75**	**61**	**14**	**2**	**YES**
S1314.3	**Residential**	**B**	**67**	**1**	**3**	**73**	**75**	**62**	**13**	**2**	**YES**

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NA = Not applicable to barrier analysis

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S1314.4	**Residential**	**B**	**67**	**1**	**4**	**73**	**75**	**64**	**11**	**2**	**YES**
S1315.1	**Residential**	**B**	**67**	**1**	**1**	**63**	**65**	**55**	**10**	**2**	**NO**
S1315.2	**Residential**	**B**	**67**	**1**	**2**	**67**	**69**	**56**	**13**	**2**	**YES**
S1315.3	**Residential**	**B**	**67**	**1**	**3**	**68**	**70**	**57**	**13**	**2**	**YES**
S1315.4	**Residential**	**B**	**67**	**1**	**4**	**68**	**70**	**58**	**12**	**2**	**YES**
S1316	**Residential Neighborhood Path**	**B**	**67**	**1**	**1**	**77**	**79**	**63**	**16**	**2**	**YES**
S1317.2	**Residential**	**B**	**67**	**1**	**2**	**69**	**70**	**57**	**13**	**1**	**YES**
S1317.3	**Residential**	**B**	**67**	**1**	**3**	**69**	**71**	**58**	**13**	**2**	**YES**
S1317.4	**Residential**	**B**	**67**	**1**	**4**	**69**	**71**	**59**	**12**	**2**	**YES**
S1318.1	**Residential**	**B**	**67**	**1**	**1**	**72**	**74**	**62**	**12**	**2**	**YES**
S1318.2	**Residential**	**B**	**67**	**1**	**2**	**75**	**77**	**63**	**14**	**2**	**YES**
S1318.3	**Residential**	**B**	**67**	**1**	**3**	**75**	**78**	**64**	**14**	**3**	**YES**
S1318.4	**Residential**	**B**	**67**	**1**	**4**	**75**	**78**	**68**	**10**	**3**	**YES**
S1319.1	Residential	B	67	1	1	50	51	50	1	1	NO
S1319.2	Residential	B	67	1	2	51	52	51	1	1	NO
S1319.3	Residential	B	67	1	3	53	54	53	1	1	NO
S1319.4	Residential	B	67	1	4	55	57	54	3	2	NO
S1320	**Residential Putting Green**	**B**	**67**	**1**	**1**	**75**	**77**	**63**	**14**	**2**	**YES**
S1321.1	Residential	B	67	1	1	50	51	51	0	1	NO
S1321.2	Residential	B	67	1	2	51	53	52	1	2	NO
S1321.3	Residential	B	67	1	3	52	54	53	1	2	NO
S1321.4	Residential	B	67	1	4	55	56	55	1	1	NO
S1322.1	**Residential**	**B**	**67**	**1**	**1**	**73**	**75**	**62**	**13**	**2**	**YES**
S1322.2	**Residential**	**B**	**67**	**1**	**2**	**75**	**78**	**63**	**15**	**3**	**YES**
S1322.3	**Residential**	**B**	**67**	**1**	**3**	**76**	**78**	**66**	**12**	**2**	**YES**
S1322.4	**Residential**	**B**	**67**	**1**	**4**	**77**	**79**	**70**	**9**	**2**	**YES**
S1323.1	Residential	B	67	1	1	51	54	53	1	3	NO
S1323.2	Residential	B	67	1	2	52	55	54	1	3	NO
S1323.3	Residential	B	67	1	3	54	57	55	2	3	NO

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S1323.4	Residential	B	67	1	4	57	59	57	2	2	NO
S1324.1	**Residential**	**B**	**67**	**1**	**1**	**65**	**67**	**58**	**9**	**2**	**YES**
S1324.2	**Residential**	**B**	**67**	**1**	**2**	**69**	**71**	**59**	**12**	**2**	**YES**
S1324.3	**Residential**	**B**	**67**	**1**	**3**	**70**	**73**	**60**	**13**	**3**	**YES**
S1324.4	**Residential**	**B**	**67**	**1**	**4**	**71**	**74**	**61**	**13**	**3**	**YES**
S1325.1	**Residential**	**B**	**67**	**1**	**1**	**69**	**71**	**59**	**12**	**2**	**YES**
S1325.2	**Residential**	**B**	**67**	**1**	**2**	**72**	**75**	**60**	**15**	**3**	**YES**
S1325.3	**Residential**	**B**	**67**	**1**	**3**	**73**	**76**	**62**	**14**	**3**	**YES**
S1325.4	**Residential**	**B**	**67**	**1**	**4**	**74**	**76**	**66**	**10**	**2**	**YES**
S1326.1	**Residential**	**B**	**67**	**1**	**1**	**67**	**69**	**59**	**10**	**2**	**YES**
S1326.2	**Residential**	**B**	**67**	**1**	**2**	**71**	**74**	**60**	**14**	**3**	**YES**
S1326.3	**Residential**	**B**	**67**	**1**	**3**	**73**	**75**	**61**	**14**	**2**	**YES**
S1326.4	**Residential**	**B**	**67**	**1**	**4**	**73**	**76**	**64**	**12**	**3**	**YES**
S1327.1	**Residential**	**B**	**67**	**1**	**1**	**66**	**68**	**58**	**10**	**2**	**YES**
S1327.2	**Residential**	**B**	**67**	**1**	**2**	**70**	**73**	**59**	**14**	**3**	**YES**
S1327.3	**Residential**	**B**	**67**	**1**	**3**	**71**	**74**	**60**	**14**	**3**	**YES**
S1327.4	**Residential**	**B**	**67**	**1**	**4**	**72**	**75**	**62**	**13**	**3**	**YES**
S1328.1	**Residential**	**B**	**67**	**1**	**1**	**66**	**68**	**59**	**9**	**2**	**YES**
S1328.2	**Residential**	**B**	**67**	**1**	**2**	**71**	**73**	**60**	**13**	**2**	**YES**
S1328.3	**Residential**	**B**	**67**	**1**	**3**	**72**	**74**	**61**	**13**	**2**	**YES**
S1328.4	**Residential**	**B**	**67**	**1**	**4**	**73**	**75**	**63**	**12**	**2**	**YES**
S1329.1	**Residential**	**B**	**67**	**1**	**1**	**70**	**72**	**60**	**12**	**2**	**YES**
S1329.2	**Residential**	**B**	**67**	**1**	**2**	**73**	**76**	**61**	**15**	**3**	**YES**
S1329.3	**Residential**	**B**	**67**	**1**	**3**	**74**	**76**	**63**	**13**	**2**	**YES**
S1329.4	**Residential**	**B**	**67**	**1**	**4**	**75**	**77**	**67**	**10**	**2**	**YES**
S1330.1	**Residential**	**B**	**67**	**1**	**1**	**63**	**65**	**57**	**8**	**2**	**NO**
S1330.2	**Residential**	**B**	**67**	**1**	**2**	**68**	**70**	**58**	**12**	**2**	**YES**
S1330.3	**Residential**	**B**	**67**	**1**	**3**	**69**	**72**	**59**	**13**	**3**	**YES**
S1330.4	**Residential**	**B**	**67**	**1**	**4**	**70**	**73**	**60**	**13**	**3**	**YES**

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S1331.1	**Residential**	**B**	**67**	**1**	**1**	**63**	**65**	**57**	**8**	**2**	**NO**
S1331.2	**Residential**	**B**	**67**	**1**	**2**	**68**	**70**	**58**	**12**	**2**	**YES**
S1331.3	**Residential**	**B**	**67**	**1**	**3**	**69**	**72**	**59**	**13**	**3**	**YES**
S1331.4	**Residential**	**B**	**67**	**1**	**4**	**70**	**73**	**60**	**13**	**3**	**YES**
S1332.1	**Residential**	**B**	**67**	**1**	**1**	**62**	**65**	**57**	**8**	**3**	**NO**
S1332.2	**Residential**	**B**	**67**	**1**	**2**	**67**	**69**	**57**	**12**	**2**	**YES**
S1332.3	**Residential**	**B**	**67**	**1**	**3**	**68**	**71**	**59**	**12**	**3**	**YES**
S1332.4	**Residential**	**B**	**67**	**1**	**4**	**69**	**72**	**60**	**12**	**3**	**YES**
S1333	Residential	B	67	1	1	61	63	57	6	2	NO
S1334	Residential	B	67	1	1	61	65	63	2	4	NO
S1335	Residential	B	67	1	1	59	69	69	0	10	YES
S1336	Business	E	72	1	1	65	64	64	0	-1	NO
S1337	Business	E	72	1	1	62	64	60	4	2	NO
S1338.1	Business	E	72	1	1	65	66	61	5	1	NO
S1338.2	**Business**	**E**	**72**	**1**	**2**	**69**	**71**	**63**	**8**	**2**	**YES**
S1338.3	**Business**	**E**	**72**	**1**	**3**	**70**	**73**	**64**	**9**	**3**	**YES**
S1339	Hotel	E	72	1	1	61	62	60	2	1	NO
S1340	Hospital	C	67	1	1	62	61	61	0	-1	NO
S1341	Restaurant	E	72	1	1	60	61	61	0	1	NO
S1342.1	Residential	B	67	1	1	58	60	NA	NA	2	NO
S1342.2	Residential	B	67	1	2	59	60	NA	NA	1	NO
S1342.3	Residential	B	67	1	3	60	62	NA	NA	2	NO
S1342.4	Residential	B	67	1	4	62	63	NA	NA	1	NO
S1343.1	Residential	B	67	1	1	58	60	NA	NA	2	NO
S1343.2	Residential	B	67	1	2	59	61	NA	NA	2	NO
S1343.3	Residential	B	67	1	3	60	62	NA	NA	2	NO
S1343.4	Residential	B	67	1	4	62	63	NA	NA	1	NO
S1344.1	Residential	B	67	1	1	58	60	NA	NA	2	NO
S1344.2	Residential	B	67	1	2	59	61	NA	NA	2	NO

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S1344.3	Residential	B	67	1	3	60	62	NA	NA	2	NO
S1344.4	Residential	B	67	1	4	62	63	NA	NA	1	NO
S1345.1	Residential	B	67	1	1	58	60	NA	NA	2	NO
S1345.2	Residential	B	67	1	2	59	61	NA	NA	2	NO
S1345.3	Residential	B	67	1	3	60	62	NA	NA	2	NO
S1345.4	Residential	B	67	1	4	62	63	NA	NA	1	NO
S1346.1	Residential	B	67	1	1	58	60	NA	NA	2	NO
S1346.2	Residential	B	67	1	2	59	61	NA	NA	2	NO
S1346.3	Residential	B	67	1	3	60	62	NA	NA	2	NO
S1346.4	Residential	B	67	1	4	62	63	NA	NA	1	NO
S1347.1	Residential	B	67	1	1	57	60	NA	NA	3	NO
S1347.2	Residential	B	67	1	2	59	61	NA	NA	2	NO
S1347.3	Residential	B	67	1	3	60	62	NA	NA	2	NO
S1347.4	Residential	B	67	1	4	62	63	NA	NA	1	NO
S1348.1	Residential	B	67	1	1	57	60	NA	NA	3	NO
S1348.2	Residential	B	67	1	2	59	61	NA	NA	2	NO
S1348.3	Residential	B	67	1	3	60	62	NA	NA	2	NO
S1348.4	Residential	B	67	1	4	62	63	NA	NA	1	NO
S1349.1	Residential	B	67	1	1	50	47	NA	NA	-3	NO
S1349.2	Residential	B	67	1	2	51	49	NA	NA	-2	NO
S1349.3	Residential	B	67	1	3	53	52	NA	NA	-1	NO
S1349.4	Residential	B	67	1	4	61	62	NA	NA	1	NO
S1350.1	Residential	B	67	1	1	58	60	NA	NA	2	NO
S1350.2	Residential	B	67	1	2	59	61	NA	NA	2	NO
S1350.3	Residential	B	67	1	3	60	62	NA	NA	2	NO
S1350.4	Residential	B	67	1	4	62	63	NA	NA	1	NO
S1351.1	Residential	B	67	1	1	58	60	NA	NA	2	NO
S1351.2	Residential	B	67	1	2	59	61	NA	NA	2	NO
S1351.3	Residential	B	67	1	3	61	63	NA	NA	2	NO

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S1351.4	Residential	B	67	1	4	62	64	NA	NA	2	NO
S1352.1	Residential	B	67	1	1	55	56	NA	NA	1	NO
S1352.2	Residential	B	67	1	2	56	57	NA	NA	1	NO
S1352.3	Residential	B	67	1	3	58	58	NA	NA	0	NO
S1352.4	Residential	B	67	1	4	60	61	NA	NA	1	NO
S1353.1	Residential	B	67	1	1	45	43	NA	NA	-2	NO
S1353.2	Residential	B	67	1	2	46	47	NA	NA	1	NO
S1353.3	Residential	B	67	1	3	49	51	NA	NA	2	NO
S1353.4	Residential	B	67	1	4	61	62	NA	NA	1	NO
S1354.1	Residential	B	67	1	1	58	60	NA	NA	2	NO
S1354.2	Residential	B	67	1	2	60	62	NA	NA	2	NO
S1354.3	Residential	B	67	1	3	61	63	NA	NA	2	NO
S1354.4	Residential	B	67	1	4	62	64	NA	NA	2	NO
S1355.1	Residential	B	67	1	1	54	55	NA	NA	1	NO
S1355.2	Residential	B	67	1	2	55	56	NA	NA	1	NO
S1355.3	Residential	B	67	1	3	57	58	NA	NA	1	NO
S1355.4	Residential	B	67	1	4	61	62	NA	NA	1	NO
S1356.1	Residential	B	67	1	1	45	44	NA	NA	-1	NO
S1356.2	Residential	B	67	1	2	46	47	NA	NA	1	NO
S1356.3	Residential	B	67	1	3	49	50	NA	NA	1	NO
S1356.4	Residential	B	67	1	4	61	62	NA	NA	1	NO
S1357.1	Residential	B	67	1	1	47	47	NA	NA	0	NO
S1357.2	Residential	B	67	1	2	46	47	NA	NA	1	NO
S1357.3	Residential	B	67	1	3	49	50	NA	NA	1	NO
S1357.4	Residential	B	67	1	4	61	62	NA	NA	1	NO
S1358.2	Residential	B	67	1	2	46	47	NA	NA	1	NO
S1358.3	Residential	B	67	1	3	48	50	NA	NA	2	NO
S1358.4	Residential	B	67	1	4	61	62	NA	NA	1	NO
S1359.1	Residential	B	67	1	1	45	44	NA	NA	-1	NO

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S1359.2	Residential	B	67	1	2	46	47	NA	NA	1	NO
S1359.3	Residential	B	67	1	3	49	50	NA	NA	1	NO
S1359.4	Residential	B	67	1	4	61	63	NA	NA	2	NO
S1360.1	Residential	B	67	1	1	46	44	NA	NA	-2	NO
S1360.2	Residential	B	67	1	2	46	47	NA	NA	1	NO
S1360.3	Residential	B	67	1	3	49	50	NA	NA	1	NO
S1360.4	Residential	B	67	1	4	61	63	NA	NA	2	NO
S1361.1	Residential	B	67	1	1	53	53	NA	NA	0	NO
S1361.2	Residential	B	67	1	2	55	54	NA	NA	-1	NO
S1361.3	Residential	B	67	1	3	56	56	NA	NA	0	NO
S1361.4	Residential	B	67	1	4	60	61	NA	NA	1	NO
S1362.1	Residential	B	67	1	1	46	45	NA	NA	-1	NO
S1362.2	Residential	B	67	1	2	47	48	NA	NA	1	NO
S1362.3	Residential	B	67	1	3	50	51	NA	NA	1	NO
S1362.4	Residential	B	67	1	4	61	63	NA	NA	2	NO
S1363.1	Residential	B	67	1	1	51	53	NA	NA	2	NO
S1363.2	Residential	B	67	1	2	51	54	NA	NA	3	NO
S1363.3	Residential	B	67	1	3	54	57	NA	NA	3	NO
S1363.4	Residential	B	67	1	4	60	61	NA	NA	1	NO
S1364.1	Residential	B	67	1	1	50	54	NA	NA	4	NO
S1364.2	Residential	B	67	1	2	52	55	NA	NA	3	NO
S1364.3	Residential	B	67	1	3	55	57	NA	NA	2	NO
S1364.4	Residential	B	67	1	4	61	63	NA	NA	2	NO
S1365.1	Residential	B	67	1	1	53	52	NA	NA	-1	NO
S1365.2	Residential	B	67	1	2	54	54	NA	NA	0	NO
S1365.3	Residential	B	67	1	3	56	56	NA	NA	0	NO
S1365.4	Residential	B	67	1	4	60	61	NA	NA	1	NO
S1366.1	Residential	B	67	1	1	51	52	NA	NA	1	NO
S1366.2	Residential	B	67	1	2	51	54	NA	NA	3	NO

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S1366.3	Residential	B	67	1	3	54	56	NA	NA	2	NO
S1366.4	Residential	B	67	1	4	60	61	NA	NA	1	NO
S1367.1	Residential	B	67	1	1	53	52	NA	NA	-1	NO
S1367.2	Residential	B	67	1	2	54	54	NA	NA	0	NO
S1367.3	Residential	B	67	1	3	56	56	NA	NA	0	NO
S1367.4	Residential	B	67	1	4	60	61	NA	NA	1	NO
S1368.1	Residential	B	67	1	1	50	52	NA	NA	2	NO
S1368.2	Residential	B	67	1	2	51	54	NA	NA	3	NO
S1368.3	Residential	B	67	1	3	54	56	NA	NA	2	NO
S1368.4	Residential	B	67	1	4	60	61	NA	NA	1	NO
S1369.1	Residential	B	67	1	1	57	60	NA	NA	3	NO
S1369.2	Residential	B	67	1	2	59	61	NA	NA	2	NO
S1369.3	Residential	B	67	1	3	61	63	NA	NA	2	NO
S1369.4	Residential	B	67	1	4	62	64	NA	NA	2	NO
S1370.1	Residential	B	67	1	1	53	52	NA	NA	-1	NO
S1370.2	Residential	B	67	1	2	54	54	NA	NA	0	NO
S1370.3	Residential	B	67	1	3	56	56	NA	NA	0	NO
S1370.4	Residential	B	67	1	4	60	61	NA	NA	1	NO
S1371.1	Residential	B	67	1	1	51	53	NA	NA	2	NO
S1371.2	Residential	B	67	1	2	53	55	NA	NA	2	NO
S1371.3	Residential	B	67	1	3	55	57	NA	NA	2	NO
S1371.4	Residential	B	67	1	4	61	63	NA	NA	2	NO
S1372.1	Residential	B	67	1	1	53	52	NA	NA	-1	NO
S1372.2	Residential	B	67	1	2	54	53	NA	NA	-1	NO
S1372.3	Residential	B	67	1	3	56	55	NA	NA	-1	NO
S1372.4	Residential	B	67	1	4	60	61	NA	NA	1	NO
S1373.1	Residential	B	67	1	1	50	52	NA	NA	2	NO
S1373.2	Residential	B	67	1	2	51	54	NA	NA	3	NO
S1373.3	Residential	B	67	1	3	54	56	NA	NA	2	NO

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S1373.4	Residential	B	67	1	4	60	61	NA	NA	1	NO
S1374.2	Residential	B	67	1	2	51	54	NA	NA	3	NO
S1374.3	Residential	B	67	1	3	54	56	NA	NA	2	NO
S1374.4	Residential	B	67	1	4	59	61	NA	NA	2	NO
S1375.1	Residential	B	67	1	1	56	60	NA	NA	4	NO
S1375.2	Residential	B	67	1	2	59	61	NA	NA	2	NO
S1375.3	Residential	B	67	1	3	60	62	NA	NA	2	NO
S1375.4	Residential	B	67	1	4	62	63	NA	NA	1	NO
S1376.1	Residential	B	67	1	1	52	51	NA	NA	-1	NO
S1376.2	Residential	B	67	1	2	54	53	NA	NA	-1	NO
S1376.3	Residential	B	67	1	3	55	55	NA	NA	0	NO
S1376.4	Residential	B	67	1	4	59	61	NA	NA	2	NO
S1377.1	Residential	B	67	1	1	50	52	NA	NA	2	NO
S1377.2	Residential	B	67	1	2	51	54	NA	NA	3	NO
S1377.3	Residential	B	67	1	3	53	56	NA	NA	3	NO
S1377.4	Residential	B	67	1	4	59	61	NA	NA	2	NO
S1378.1	Residential	B	67	1	1	55	59	NA	NA	4	NO
S1378.2	Residential	B	67	1	2	58	61	NA	NA	3	NO
S1378.3	Residential	B	67	1	3	60	62	NA	NA	2	NO
S1378.4	Residential	B	67	1	4	61	63	NA	NA	2	NO
S1379.1	Residential	B	67	1	1	52	51	NA	NA	-1	NO
S1379.2	Residential	B	67	1	2	54	53	NA	NA	-1	NO
S1379.3	Residential	B	67	1	3	55	55	NA	NA	0	NO
S1379.4	Residential	B	67	1	4	59	60	NA	NA	1	NO
S1380.1	Residential	B	67	1	1	45	44	NA	NA	-1	NO
S1380.2	Residential	B	67	1	2	47	48	NA	NA	1	NO
S1380.3	Residential	B	67	1	3	50	52	NA	NA	2	NO
S1380.4	Residential	B	67	1	4	61	63	NA	NA	2	NO
S1381.1	Residential	B	67	1	1	50	53	NA	NA	3	NO

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S1381.2	Residential	B	67	1	2	51	54	NA	NA	3	NO
S1381.3	Residential	B	67	1	3	54	57	NA	NA	3	NO
S1381.4	Residential	B	67	1	4	59	61	NA	NA	2	NO
S1382.1	Residential	B	67	1	1	55	59	NA	NA	4	NO
S1382.2	Residential	B	67	1	2	58	61	NA	NA	3	NO
S1382.3	Residential	B	67	1	3	60	62	NA	NA	2	NO
S1382.4	Residential	B	67	1	4	61	63	NA	NA	2	NO
S1383.1	Residential	B	67	1	1	45	45	NA	NA	0	NO
S1383.2	Residential	B	67	1	2	47	48	NA	NA	1	NO
S1383.3	Residential	B	67	1	3	49	51	NA	NA	2	NO
S1383.4	Residential	B	67	1	4	61	63	NA	NA	2	NO
S1384.1	Residential	B	67	1	1	56	59	NA	NA	3	NO
S1384.2	Residential	B	67	1	2	58	61	NA	NA	3	NO
S1384.3	Residential	B	67	1	3	60	62	NA	NA	2	NO
S1384.4	Residential	B	67	1	4	61	63	NA	NA	2	NO
S1385.1	Residential	B	67	1	1	46	45	NA	NA	-1	NO
S1385.2	Residential	B	67	1	2	47	48	NA	NA	1	NO
S1385.3	Residential	B	67	1	3	50	51	NA	NA	1	NO
S1385.4	Residential	B	67	1	4	61	62	NA	NA	1	NO
S1386.2	Residential	B	67	1	2	54	53	NA	NA	-1	NO
S1386.3	Residential	B	67	1	3	55	54	NA	NA	-1	NO
S1386.4	Residential	B	67	1	4	59	60	NA	NA	1	NO
S1387.1	Residential	B	67	1	1	56	60	NA	NA	4	NO
S1387.2	Residential	B	67	1	2	58	61	NA	NA	3	NO
S1387.3	Residential	B	67	1	3	60	62	NA	NA	2	NO
S1387.4	Residential	B	67	1	4	61	63	NA	NA	2	NO
S1388.2	Residential	B	67	1	2	51	54	NA	NA	3	NO
S1388.3	Residential	B	67	1	3	54	57	NA	NA	3	NO
S1388.4	Residential	B	67	1	4	59	60	NA	NA	1	NO

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S1389.2	Residential	B	67	1	2	48	48	NA	NA	0	NO
S1389.3	Residential	B	67	1	3	50	51	NA	NA	1	NO
S1389.4	Residential	B	67	1	4	60	62	NA	NA	2	NO
S1390.1	Residential	B	67	1	1	56	60	NA	NA	4	NO
S1390.2	Residential	B	67	1	2	59	61	NA	NA	2	NO
S1390.3	Residential	B	67	1	3	60	62	NA	NA	2	NO
S1390.4	Residential	B	67	1	4	61	63	NA	NA	2	NO
S1391.1	Residential	B	67	1	1	46	46	NA	NA	0	NO
S1391.2	Residential	B	67	1	2	48	49	NA	NA	1	NO
S1391.3	Residential	B	67	1	3	51	52	NA	NA	1	NO
S1391.4	Residential	B	67	1	4	60	62	NA	NA	2	NO
S1392.1	Residential	B	67	1	1	57	60	NA	NA	3	NO
S1392.2	Residential	B	67	1	2	59	61	NA	NA	2	NO
S1392.3	Residential	B	67	1	3	60	62	NA	NA	2	NO
S1392.4	Residential	B	67	1	4	61	63	NA	NA	2	NO
S1393.1	Residential	B	67	1	1	46	46	NA	NA	0	NO
S1393.2	Residential	B	67	1	2	48	49	NA	NA	1	NO
S1393.3	Residential	B	67	1	3	52	53	NA	NA	1	NO
S1393.4	Residential	B	67	1	4	60	62	NA	NA	2	NO
S1394.1	Residential	B	67	1	1	56	60	NA	NA	4	NO
S1394.2	Residential	B	67	1	2	59	61	NA	NA	2	NO
S1394.3	Residential	B	67	1	3	60	62	NA	NA	2	NO
S1394.4	Residential	B	67	1	4	61	63	NA	NA	2	NO
S1395.1	Residential	B	67	1	1	46	47	NA	NA	1	NO
S1395.2	Residential	B	67	1	2	48	49	NA	NA	1	NO
S1395.3	Residential	B	67	1	3	52	53	NA	NA	1	NO
S1395.4	Residential	B	67	1	4	60	62	NA	NA	2	NO
S1396.2	Residential	B	67	1	2	51	53	NA	NA	2	NO
S1396.3	Residential	B	67	1	3	56	57	NA	NA	1	NO

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S1396.4	Residential	B	67	1	4	58	60	NA	NA	2	NO
S1397.1	Residential	B	67	1	1	57	60	NA	NA	3	NO
S1397.2	Residential	B	67	1	2	59	61	NA	NA	2	NO
S1397.3	Residential	B	67	1	3	60	62	NA	NA	2	NO
S1397.4	Residential	B	67	1	4	61	63	NA	NA	2	NO
S1398.1	Residential	B	67	1	1	46	46	NA	NA	0	NO
S1398.2	Residential	B	67	1	2	48	48	NA	NA	0	NO
S1398.3	Residential	B	67	1	3	52	52	NA	NA	0	NO
S1398.4	Residential	B	67	1	4	60	62	NA	NA	2	NO
S1399.1	Residential	B	67	1	1	49	51	NA	NA	2	NO
S1399.2	Residential	B	67	1	2	51	53	NA	NA	2	NO
S1399.3	Residential	B	67	1	3	55	57	NA	NA	2	NO
S1399.4	Residential	B	67	1	4	58	60	NA	NA	2	NO
S1400.2	Residential	B	67	1	2	48	44	NA	NA	-4	NO
S1400.3	Residential	B	67	1	3	50	47	NA	NA	-3	NO
S1400.4	Residential	B	67	1	4	58	59	NA	NA	1	NO
S1401.1	Residential	B	67	1	1	49	51	NA	NA	2	NO
S1401.2	Residential	B	67	1	2	52	53	NA	NA	1	NO
S1401.3	Residential	B	67	1	3	55	57	NA	NA	2	NO
S1401.4	Residential	B	67	1	4	58	60	NA	NA	2	NO
S1402.1	Residential	B	67	1	1	50	51	NA	NA	1	NO
S1402.2	Residential	B	67	1	2	52	53	NA	NA	1	NO
S1402.3	Residential	B	67	1	3	56	58	NA	NA	2	NO
S1402.4	Residential	B	67	1	4	59	61	NA	NA	2	NO
S1403.1	Residential	B	67	1	1	51	52	NA	NA	1	NO
S1403.2	Residential	B	67	1	2	53	55	NA	NA	2	NO
S1403.3	Residential	B	67	1	3	56	57	NA	NA	1	NO
S1403.4	Residential	B	67	1	4	60	62	NA	NA	2	NO
S1404.1	Residential	B	67	1	1	50	52	NA	NA	2	NO

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S1404.2	Residential	B	67	1	2	52	53	NA	NA	1	NO
S1404.3	Residential	B	67	1	3	56	58	NA	NA	2	NO
S1404.4	Residential	B	67	1	4	59	61	NA	NA	2	NO
S1405.2	Residential	B	67	1	2	52	53	NA	NA	1	NO
S1405.3	Residential	B	67	1	3	56	57	NA	NA	1	NO
S1405.4	Residential	B	67	1	4	59	61	NA	NA	2	NO
S1406.1	Residential	B	67	1	1	50	52	NA	NA	2	NO
S1406.2	Residential	B	67	1	2	52	53	NA	NA	1	NO
S1406.3	Residential	B	67	1	3	56	58	NA	NA	2	NO
S1406.4	Residential	B	67	1	4	59	61	NA	NA	2	NO
S1407.1	Residential	B	67	1	1	50	51	NA	NA	1	NO
S1407.2	Residential	B	67	1	2	52	54	NA	NA	2	NO
S1407.3	Residential	B	67	1	3	56	57	NA	NA	1	NO
S1407.4	Residential	B	67	1	4	60	62	NA	NA	2	NO
S1408.1	Residential	B	67	1	1	49	51	NA	NA	2	NO
S1408.2	Residential	B	67	1	2	52	53	NA	NA	1	NO
S1408.3	Residential	B	67	1	3	55	57	NA	NA	2	NO
S1408.4	Residential	B	67	1	4	59	60	NA	NA	1	NO
S1409.1	Residential	B	67	1	1	56	59	NA	NA	3	NO
S1409.2	Residential	B	67	1	2	58	60	NA	NA	2	NO
S1409.3	Residential	B	67	1	3	59	61	NA	NA	2	NO
S1409.4	Residential	B	67	1	4	60	62	NA	NA	2	NO
S1410.1	Residential	B	67	1	1	50	51	NA	NA	1	NO
S1410.2	Residential	B	67	1	2	52	53	NA	NA	1	NO
S1410.3	Residential	B	67	1	3	56	57	NA	NA	1	NO
S1410.4	Residential	B	67	1	4	60	62	NA	NA	2	NO
S1411.1	Residential	B	67	1	1	45	37	NA	NA	-8	NO
S1411.2	Residential	B	67	1	2	46	42	NA	NA	-4	NO
S1411.3	Residential	B	67	1	3	49	47	NA	NA	-2	NO

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S1411.4	Residential	B	67	1	4	58	60	NA	NA	2	NO
S1412.1	Residential	B	67	1	1	49	51	NA	NA	2	NO
S1412.2	Residential	B	67	1	2	52	54	NA	NA	2	NO
S1412.3	Residential	B	67	1	3	56	57	NA	NA	1	NO
S1412.4	Residential	B	67	1	4	58	60	NA	NA	2	NO
S1413.1	Residential	B	67	1	1	49	51	NA	NA	2	NO
S1413.2	Residential	B	67	1	2	52	54	NA	NA	2	NO
S1413.3	Residential	B	67	1	3	55	57	NA	NA	2	NO
S1413.4	Residential	B	67	1	4	58	60	NA	NA	2	NO
S1414.1	Residential	B	67	1	1	45	37	NA	NA	-8	NO
S1414.2	Residential	B	67	1	2	46	43	NA	NA	-3	NO
S1414.3	Residential	B	67	1	3	49	49	NA	NA	0	NO
S1414.4	Residential	B	67	1	4	58	60	NA	NA	2	NO
S1415.1	Residential	B	67	1	1	49	51	NA	NA	2	NO
S1415.2	Residential	B	67	1	2	52	55	NA	NA	3	NO
S1415.3	Residential	B	67	1	3	55	57	NA	NA	2	NO
S1415.4	Residential	B	67	1	4	58	60	NA	NA	2	NO
S1416.2	Residential	B	67	1	2	46	42	NA	NA	-4	NO
S1416.3	Residential	B	67	1	3	48	47	NA	NA	-1	NO
S1416.4	Residential	B	67	1	4	58	60	NA	NA	2	NO
S1417.1	Residential	B	67	1	1	44	37	NA	NA	-7	NO
S1417.2	Residential	B	67	1	2	46	43	NA	NA	-3	NO
S1417.3	Residential	B	67	1	3	49	49	NA	NA	0	NO
S1417.4	Residential	B	67	1	4	58	60	NA	NA	2	NO
S1418.1	Residential	B	67	1	1	48	52	NA	NA	4	NO
S1418.2	Residential	B	67	1	2	49	52	NA	NA	3	NO
S1418.3	Residential	B	67	1	3	51	53	NA	NA	2	NO
S1418.4	Residential	B	67	1	4	59	61	NA	NA	2	NO
S1419.1	Residential	B	67	1	1	50	52	NA	NA	2	NO

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S1419.2	Residential	B	67	1	2	52	55	NA	NA	3	NO
S1419.3	Residential	B	67	1	3	56	58	NA	NA	2	NO
S1419.4	Residential	B	67	1	4	58	60	NA	NA	2	NO
S1420.1	Residential	B	67	1	1	49	52	NA	NA	3	NO
S1420.2	Residential	B	67	1	2	49	53	NA	NA	4	NO
S1420.3	Residential	B	67	1	3	50	53	NA	NA	3	NO
S1420.4	Residential	B	67	1	4	59	61	NA	NA	2	NO
S1421.1	Residential	B	67	1	1	49	53	NA	NA	4	NO
S1421.2	Residential	B	67	1	2	50	53	NA	NA	3	NO
S1421.3	Residential	B	67	1	3	52	54	NA	NA	2	NO
S1421.4	Residential	B	67	1	4	59	61	NA	NA	2	NO
S1422.1	Residential	B	67	1	1	49	53	NA	NA	4	NO
S1422.2	Residential	B	67	1	2	49	53	NA	NA	4	NO
S1422.3	Residential	B	67	1	3	51	54	NA	NA	3	NO
S1422.4	Residential	B	67	1	4	59	61	NA	NA	2	NO
S1423.1	Residential	B	67	1	1	49	53	NA	NA	4	NO
S1423.2	Residential	B	67	1	2	50	53	NA	NA	3	NO
S1423.3	Residential	B	67	1	3	52	54	NA	NA	2	NO
S1423.4	Residential	B	67	1	4	59	61	NA	NA	2	NO
S1424.1	Residential	B	67	1	1	49	53	NA	NA	4	NO
S1424.2	Residential	B	67	1	2	50	53	NA	NA	3	NO
S1424.3	Residential	B	67	1	3	51	54	NA	NA	3	NO
S1424.4	Residential	B	67	1	4	59	61	NA	NA	2	NO
S1425.1	Residential	B	67	1	1	50	54	NA	NA	4	NO
S1425.2	Residential	B	67	1	2	50	54	NA	NA	4	NO
S1425.3	Residential	B	67	1	3	52	55	NA	NA	3	NO
S1425.4	Residential	B	67	1	4	60	62	NA	NA	2	NO
S1426.1	Residential	B	67	1	1	53	56	NA	NA	3	NO
S1426.2	Residential	B	67	1	2	54	57	NA	NA	3	NO

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S1426.3	Residential	B	67	1	3	55	58	NA	NA	3	NO
S1426.4	Residential	B	67	1	4	60	62	NA	NA	2	NO
S1427.1	Residential	B	67	1	1	50	54	NA	NA	4	NO
S1427.2	Residential	B	67	1	2	51	54	NA	NA	3	NO
S1427.3	Residential	B	67	1	3	52	55	NA	NA	3	NO
S1427.4	Residential	B	67	1	4	60	62	NA	NA	2	NO
S1428.1	Residential	B	67	1	1	51	54	NA	NA	3	NO
S1428.2	Residential	B	67	1	2	51	54	NA	NA	3	NO
S1428.3	Residential	B	67	1	3	52	55	NA	NA	3	NO
S1428.4	Residential	B	67	1	4	60	62	NA	NA	2	NO
S1429.1	Residential	B	67	1	1	51	54	NA	NA	3	NO
S1429.2	Residential	B	67	1	2	53	56	NA	NA	3	NO
S1429.3	Residential	B	67	1	3	56	58	NA	NA	2	NO
S1429.4	Residential	B	67	1	4	58	60	NA	NA	2	NO
S1430.1	Residential	B	67	1	1	45	39	NA	NA	-6	NO
S1430.2	Residential	B	67	1	2	46	44	NA	NA	-2	NO
S1430.3	Residential	B	67	1	3	50	50	NA	NA	0	NO
S1430.4	Residential	B	67	1	4	58	59	NA	NA	1	NO
S1431.1	Residential	B	67	1	1	44	39	NA	NA	-5	NO
S1431.2	Residential	B	67	1	2	46	44	NA	NA	-2	NO
S1431.3	Residential	B	67	1	3	49	48	NA	NA	-1	NO
S1431.4	Residential	B	67	1	4	58	59	NA	NA	1	NO
S1432.1	Residential	B	67	1	1	44	39	NA	NA	-5	NO
S1432.2	Residential	B	67	1	2	46	44	NA	NA	-2	NO
S1432.3	Residential	B	67	1	3	49	48	NA	NA	-1	NO
S1432.4	Residential	B	67	1	4	57	59	NA	NA	2	NO
S1433.1	Residential	B	67	1	1	51	53	NA	NA	2	NO
S1433.2	Residential	B	67	1	2	54	56	NA	NA	2	NO
S1433.3	Residential	B	67	1	3	56	57	NA	NA	1	NO

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S1433.4	Residential	B	67	1	4	58	60	NA	NA	2	NO
S1434	Event Center	C	67	1	1	53	57	NA	NA	4	NO
S1435.1	Residential	B	67	1	1	46	46	NA	NA	0	NO
S1435.2	Residential	B	67	1	2	48	49	NA	NA	1	NO
S1435.3	Residential	B	67	1	3	50	52	NA	NA	2	NO
S1435.4	Residential	B	67	1	4	58	59	NA	NA	1	NO
S1465a.1	Residential	B	67	1	1	60	64	57	7	4	NO
S1465a.2	**Residential**	**B**	**67**	**1**	**2**	**63**	**66**	**58**	**8**	**3**	**YES**
S1465b.1	**Residential**	**B**	**67**	**1**	**1**	**58**	**61**	**53**	**8**	**3**	**NO**
S1465b.2	**Residential**	**B**	**67**	**1**	**2**	**59**	**63**	**54**	**9**	**4**	**NO**
S1465c.1	Residential	B	67	1	1	59	63	57	6	4	NO
S1465c.2	Residential	B	67	1	2	61	65	58	7	4	NO
S1465d.1	Residential	B	67	1	1	56	59	52	7	3	NO
S1465d.2	**Residential**	**B**	**67**	**1**	**2**	**57**	**61**	**53**	**8**	**4**	**NO**
S1471.1	Residential	B	67	1	1	57	61	57	4	4	NO
S1471.2	Residential	B	67	1	2	59	62	58	4	3	NO
S1471a.1	Residential	B	67	1	1	57	61	56	5	4	NO
S1471a.2	Residential	B	67	1	2	58	62	58	4	4	NO
S1480a.1	**Residential**	**B**	**67**	**1**	**1**	**60**	**64**	**56**	**8**	**4**	**NO**
S1480a.2	**Residential**	**B**	**67**	**1**	**2**	**62**	**66**	**57**	**9**	**4**	**YES**
S1480b.1	Residential	B	67	1	1	55	59	52	7	4	NO
S1480b.2	**Residential**	**B**	**67**	**1**	**2**	**57**	**61**	**53**	**8**	**4**	**NO**
S1480c.1	**Residential**	**B**	**67**	**1**	**1**	**58**	**62**	**53**	**9**	**4**	**NO**
S1480c.2	**Residential**	**B**	**67**	**1**	**2**	**60**	**64**	**55**	**9**	**4**	**NO**
S1480d.1	Residential	B	67	1	1	53	55	49	6	2	NO
S1480d.2	Residential	B	67	1	2	54	57	50	7	3	NO
S1483	Residential	B	67	1	1	60	65	58	7	5	NO
S1484.2	**Residential**	**B**	**67**	**1**	**2**	**63**	**67**	**58**	**9**	**4**	**YES**
S1485.1	Residential	B	67	1	1	57	59	54	5	2	NO

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NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S1485.2	**Residential**	**B**	**67**	**1**	**2**	**61**	**63**	**55**	**8**	**2**	**NO**
S1486a.1	Residential	B	67	1	1	59	63	56	7	4	NO
S1486a.2	**Residential**	**B**	**67**	**1**	**2**	**61**	**65**	**57**	**8**	**4**	**NO**
S1486b.1	Residential	B	67	1	1	55	56	51	5	1	NO
S1486b.2	Residential	B	67	1	2	57	58	52	6	1	NO
S1486c.1	**Residential**	**B**	**67**	**1**	**1**	**58**	**62**	**53**	**9**	**4**	**NO**
S1486c.2	**Residential**	**B**	**67**	**1**	**2**	**60**	**63**	**54**	**9**	**3**	**NO**
S1486d.1	Residential	B	67	1	1	54	55	50	5	1	NO
S1486d.2	Residential	B	67	1	2	56	57	51	6	1	NO
S1487.1	**Residential**	**B**	**67**	**1**	**1**	**59**	**63**	**55**	**8**	**4**	**NO**
S1487.2	**Residential**	**B**	**67**	**1**	**2**	**63**	**66**	**57**	**9**	**3**	**YES**
S1487.3	**Residential**	**B**	**67**	**1**	**3**	**66**	**68**	**58**	**10**	**2**	**YES**
S1488.1	Residential	B	67	1	1	61	64	57	7	3	NO
S1488.2	**Residential**	**B**	**67**	**1**	**2**	**64**	**67**	**58**	**9**	**3**	**YES**
S1488.3	**Residential**	**B**	**67**	**1**	**3**	**67**	**69**	**59**	**10**	**2**	**YES**
S1489.1	Residential	B	67	1	1	61	64	57	7	3	NO
S1489.2	**Residential**	**B**	**67**	**1**	**2**	**65**	**68**	**59**	**9**	**3**	**YES**
S1489.3	**Residential**	**B**	**67**	**1**	**3**	**68**	**70**	**60**	**10**	**2**	**YES**
S1490.1	Residential	B	67	1	1	62	65	58	7	3	NO
S1490.2	**Residential**	**B**	**67**	**1**	**2**	**66**	**68**	**59**	**9**	**2**	**YES**
S1490.3	**Residential**	**B**	**67**	**1**	**3**	**68**	**70**	**61**	**9**	**2**	**YES**
S1491.1	Residential	B	67	1	1	62	65	58	7	3	NO
S1491.2	**Residential**	**B**	**67**	**1**	**2**	**66**	**68**	**59**	**9**	**2**	**YES**
S1491.3	**Residential**	**B**	**67**	**1**	**3**	**68**	**70**	**61**	**9**	**2**	**YES**
S1492.1	Residential	B	67	1	1	62	64	58	6	2	NO
S1492.2	**Residential**	**B**	**67**	**1**	**2**	**65**	**68**	**59**	**9**	**3**	**YES**
S1492.3	**Residential**	**B**	**67**	**1**	**3**	**68**	**70**	**61**	**9**	**2**	**YES**
S1493.1	Residential	B	67	1	1	46	47	43	4	1	NO
S1493.2	Residential	B	67	1	2	48	49	46	3	1	NO

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NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S1493.3	Residential	B	67	1	3	53	54	50	4	1	NO
S1494.1	Residential	B	67	1	1	61	64	57	7	3	NO
S1494.2	**Residential**	**B**	**67**	**1**	**2**	**65**	**67**	**59**	**8**	**2**	**YES**
S1494.3	**Residential**	**B**	**67**	**1**	**3**	**67**	**70**	**61**	**9**	**3**	**YES**
S1495.1	Residential	B	67	1	1	46	47	42	5	1	NO
S1495.2	Residential	B	67	1	2	49	50	46	4	1	NO
S1495.3	Residential	B	67	1	3	53	55	50	5	2	NO
S1496	Residential Pool	B	67	1	1	54	58	52	6	4	NO
S1497.1	Residential	B	67	1	1	45	46	43	3	1	NO
S1497.2	Residential	B	67	1	2	48	50	46	4	2	NO
S1497.3	Residential	B	67	1	3	55	57	52	5	2	NO
S1498.1	Residential	B	67	1	1	61	63	57	6	2	NO
S1498.2	**Residential**	**B**	**67**	**1**	**2**	**65**	**67**	**59**	**8**	**2**	**YES**
S1498.3	**Residential**	**B**	**67**	**1**	**3**	**67**	**70**	**61**	**9**	**3**	**YES**
S1499.1	Residential	B	67	1	1	61	63	57	6	2	NO
S1499.2	**Residential**	**B**	**67**	**1**	**2**	**64**	**67**	**59**	**8**	**3**	**YES**
S1499.3	**Residential**	**B**	**67**	**1**	**3**	**67**	**70**	**61**	**9**	**3**	**YES**
S1500.1	Residential	B	67	1	1	62	63	57	6	1	NO
S1500.2	**Residential**	**B**	**67**	**1**	**2**	**64**	**67**	**59**	**8**	**3**	**YES**
S1500.3	**Residential**	**B**	**67**	**1**	**3**	**68**	**71**	**62**	**9**	**3**	**YES**
S1501.1	Residential	B	67	1	1	46	47	43	4	1	NO
S1501.2	Residential	B	67	1	2	49	50	47	3	1	NO
S1501.3	Residential	B	67	1	3	54	55	52	3	1	NO
S1502.1	Residential	B	67	1	1	61	63	57	6	2	NO
S1502.2	**Residential**	**B**	**67**	**1**	**2**	**64**	**67**	**59**	**8**	**3**	**YES**
S1502.3	**Residential**	**B**	**67**	**1**	**3**	**68**	**71**	**62**	**9**	**3**	**YES**
S1503.1	Residential	B	67	1	1	45	46	43	3	1	NO
S1503.2	Residential	B	67	1	2	49	49	46	3	0	NO
S1503.3	Residential	B	67	1	3	53	54	51	3	1	NO

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S1504.1	Residential	B	67	1	1	59	61	56	5	2	NO
S1504.2	**Residential**	**B**	**67**	**1**	**2**	**64**	**66**	**58**	**8**	**2**	**YES**
S1504.3	**Residential**	**B**	**67**	**1**	**3**	**67**	**70**	**61**	**9**	**3**	**YES**
S1505.1	Residential	B	67	1	1	59	61	55	6	2	NO
S1505.2	**Residential**	**B**	**67**	**1**	**2**	**64**	**66**	**58**	**8**	**2**	**YES**
S1505.3	**Residential**	**B**	**67**	**1**	**3**	**67**	**70**	**61**	**9**	**3**	**YES**
S1506.1	Residential	B	67	1	1	47	48	46	2	1	NO
S1506.2	Residential	B	67	1	2	49	50	47	3	1	NO
S1506.3	Residential	B	67	1	3	54	55	52	3	1	NO
S1507.1	Residential	B	67	1	1	57	59	54	5	2	NO
S1507.2	Residential	B	67	1	2	63	65	58	7	2	NO
S1507.3	**Residential**	**B**	**67**	**1**	**3**	**66**	**69**	**60**	**9**	**3**	**YES**
S1508	Token Creek Path	C	67	1	1	77	77	NA	NA	0	YES
S1509	**Residential**	**B**	**67**	**1**	**1**	**69**	**72**	**64**	**8**	**3**	**YES**
S1510	Living Stone of Jesus	C	67	1	1	64	66	60	6	2	YES
S1511	**Residential**	**B**	**67**	**1**	**1**	**65**	**67**	**59**	**8**	**2**	**YES**
S1512	Residential	B	67	1	1	71	70	63	7	-1	YES
S1513	Residential	B	67	1	1	60	61	61	0	1	NO
S1514	**Residential**	**B**	**67**	**1**	**1**	**64**	**69**	**60**	**9**	**5**	**YES**
S1515	Residential	B	67	1	1	60	64	58	6	4	NO
S1516	Residential	B	67	1	1	62	67	60	7	5	YES
S1517	Vallarta-Ast Disc Golf Course	C	67	1	1	59	63	59	4	4	NO
S1518	Vallarta-Ast Disc Golf Course	C	67	1	1	62	66	60	6	4	YES
S1519	**Vallarta-Ast Disc Golf Course**	**C**	**67**	**1**	**1**	**63**	**68**	**60**	**8**	**5**	**YES**
S1520	Vallarta-Ast Disc Golf Course	C	67	1	1	64	68	61	7	4	YES
S1521	Vallarta-Ast Disc Golf Course	C	67	1	1	59	62	59	3	3	NO
S1522	**Vallarta-Ast Disc Golf Course**	**C**	**67**	**1**	**1**	**67**	**70**	**62**	**8**	**3**	**YES**
S1523	Vallarta-Ast Disc Golf Course	C	67	1	1	63	65	62	3	2	NO
S1524	Vallarta-Ast Disc Golf Course	C	67	1	1	67	69	64	5	2	YES

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NA = Not applicable to barrier analysis

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S1525	Token Creek Park	C	67	1	1	59	62	NA	NA	3	NO
S1526	Restaurant	E	72	1	1	67	71	NA	NA	4	YES
S1548	**Residential**	**B**	**67**	**1**	**1**	**72**	**76**	**64**	**9**	**4**	**YES**
S1549	**Residential**	**B**	**67**	**2**	**1**	**67**	**66**	**60**	**8**	**-1**	**YES**
S1549a	Residential	B	67	1	1	63	63	61	3	0	NO
S1549b	Residential	B	67	1	1	62	62	60	3	0	NO
S1549c	Residential	B	67	1	1	61	63	60	2	2	NO
S1550	Residential	B	67	2	1	64	72	60	6	8	YES
S1550a	Residential	B	67	1	1	62	62	60	3	0	NO
S1551	**Residential**	**B**	**67**	**1**	**1**	**74**	**68**	**64**	**12**	**-6**	**YES**
S1552	**Residential**	**B**	**67**	**1**	**1**	**71**	**70**	**63**	**9**	**-1**	**YES**
S1553	**Residential**	**B**	**67**	**1**	**1**	**68**	**73**	**61**	**9**	**5**	**YES**
S1554	**Residential**	**B**	**67**	**1**	**1**	**71**	**68**	**64**	**9**	**-3**	**YES**
S1555	Residential	B	67	1	1	66	66	62	6	0	YES
S1555a	Residential	B	67	1	1	64	64	61	5	0	YES
S1556	**Residential**	**B**	**67**	**1**	**1**	**65**	**66**	**58**	**8**	**1**	**YES**
S1557	Residential	B	67	1	1	66	66	59	7	0	YES
S1558	Green Acres Pet Resort	E	72	1	1	69	71	NA	NA	2	YES
S1559	Business	E	72	1	1	63	64	NA	NA	1	NO
S1560	Restaurant	E	72	1	1	69	69	69	0	0	NO
S1561	Hotel	E	72	1	1	71	70	67	3	-1	NO
S1562	**Residential**	**B**	**67**	**1**	**1**	**70**	**71**	**63**	**8**	**1**	**YES**
S1563	**Residential**	**B**	**67**	**1**	**1**	**65**	**67**	**59**	**8**	**2**	**YES**
S1564	Residential	B	67	1	1	63	64	57	7	1	NO
S1565	**Residential**	**B**	**67**	**1**	**1**	**69**	**70**	**61**	**9**	**1**	**YES**
S1566	Residential	B	67	1	1	61	61	56	5	0	NO
S1567	**Residential**	**B**	**67**	**1**	**1**	**73**	**74**	**61**	**13**	**1**	**YES**
S1568	**Residential**	**B**	**67**	**1**	**1**	**75**	**75**	**63**	**12**	**0**	**YES**
S1569	**Residential**	**B**	**67**	**1**	**1**	**75**	**76**	**63**	**13**	**1**	**YES**

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S1570	**Lake Windsor Country Club Golf Course**	**C**	**67**	**1**	**1**	**71**	**72**	**61**	**11**	**1**	**YES**
S1571	**Lake Windsor Country Club Golf Course**	**C**	**67**	**1**	**1**	**73**	**75**	**62**	**13**	**2**	**YES**
S1572	**Lake Windsor Country Club Golf Course**	**C**	**67**	**1**	**1**	**66**	**67**	**59**	**8**	**1**	**YES**
S1573	**Lake Windsor Country Club Golf Course**	**C**	**67**	**1**	**1**	**73**	**73**	**62**	**11**	**0**	**YES**
S1574	**Lake Windsor Country Club Golf Course**	**C**	**67**	**1**	**1**	**66**	**67**	**59**	**8**	**1**	**YES**
S1575	**Lake Windsor Country Club Golf Course**	**C**	**67**	**1**	**1**	**75**	**76**	**62**	**14**	**1**	**YES**
S1576	**Lake Windsor Country Club Golf Course**	**C**	**67**	**1**	**1**	**71**	**72**	**61**	**11**	**1**	**YES**
S1577	**Lake Windsor Country Club Golf Course**	**C**	**67**	**1**	**1**	**71**	**72**	**61**	**11**	**1**	**YES**
S1578	**Lake Windsor Country Club Golf Course**	**C**	**67**	**1**	**1**	**74**	**75**	**62**	**13**	**1**	**YES**
S1579	**Residential**	**B**	**67**	**1**	**1**	**68**	**70**	**61**	**9**	**2**	**YES**
S1580	**Residential**	**B**	**67**	**1**	**1**	**73**	**74**	**64**	**10**	**1**	**YES**
S1581	**Residential**	**B**	**67**	**1**	**1**	**65**	**67**	**59**	**8**	**2**	**YES**
S1582	**Residential**	**B**	**67**	**1**	**1**	**74**	**75**	**64**	**11**	**1**	**YES**
S1583	**Residential**	**B**	**67**	**1**	**1**	**69**	**69**	**60**	**9**	**0**	**YES**
S1584	**Residential**	**B**	**67**	**1**	**1**	**65**	**73**	**57**	**9**	**8**	**YES**
S1585	DeForest Athletic Complex	C	67	1	1	63	64	63	1	1	NO
S1586	**DeForest Athletic Complex**	**C**	**67**	**1**	**1**	**72**	**73**	**64**	**9**	**1**	**YES**
S1587	**DeForest Athletic Complex**	**C**	**67**	**1**	**1**	**72**	**73**	**65**	**8**	**1**	**YES**
S1588	**PinSeekers DeForest**	**E**	**72**	**1**	**1**	**70**	**71**	**62**	**9**	**1**	**YES**
S1589	**Residential**	**B**	**67**	**1**	**1**	**66**	**66**	**58**	**8**	**0**	**YES**
S1590	Residential	B	67	1	1	61	62	59	3	1	NO
S1591	Residential	B	67	1	1	65	65	NA	NA	0	NO
S1592	Restaurant	E	72	1	1	65	66	NA	NA	1	NO
S1593	Residential	B	67	1	1	64	65	59	6	1	NO
S1594	Residential	B	67	1	1	63	63	59	4	0	NO
S1595	Residential	B	67	1	1	65	66	61	5	1	YES
S1596	Residential	B	67	1	1	64	65	60	5	1	NO
S1597	Residential	B	67	1	1	66	68	62	6	2	YES
S1598	**Residential**	**B**	**67**	**1**	**1**	**77**	**79**	**70**	**9**	**2**	**YES**

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S1599	**Residential**	**B**	**67**	**1**	**1**	**72**	**73**	**65**	**8**	**1**	**YES**
S1600	**Residential**	**B**	**67**	**1**	**1**	**67**	**68**	**60**	**8**	**1**	**YES**
S1601	**Residential**	**B**	**67**	**1**	**1**	**69**	**70**	**61**	**9**	**1**	**YES**
S1602	Residential	B	67	1	1	65	66	60	6	1	YES
S1603	**Residential**	**B**	**67**	**1**	**1**	**74**	**76**	**62**	**14**	**2**	**YES**
S1604	**Residential**	**B**	**67**	**1**	**1**	**70**	**71**	**61**	**10**	**1**	**YES**
S1605	**Residential**	**B**	**67**	**1**	**1**	**68**	**69**	**61**	**8**	**1**	**YES**
S1606	Residential	B	67	2	1	66	67	62	5	1	YES
S1607	Residential	B	67	2	1	63	65	61	4	2	NO
S1608	Residential	B	67	1	1	64	61	NA	NA	-3	NO
S1609	Residential	B	67	1	1	60	59	NA	NA	-1	NO
S1610	Residential	B	67	1	1	64	65	NA	NA	1	NO
S1611	Residential	B	67	1	1	65	65	NA	NA	0	NO
S1612	Residential	B	67	1	1	62	63	NA	NA	1	NO
S1613.2	Residential	B	67	1	2	62	65	60	5	3	NO
S1614.2	Residential	B	67	1	2	62	65	60	5	3	NO
S1615	Residential	B	67	2	1	55	59	58	1	4	NO
S1616	Residential	B	67	4	1	58	59	57	2	1	NO
S1617	**Residential**	**B**	**67**	**1**	**1**	**77**	**77**	**64**	**13**	**0**	**YES**
S1618	Residential	B	67	6	1	59	61	56	5	2	NO
S1619	Residential	B	67	2	1	57	59	55	4	2	NO
S1620	Residential	B	67	1	1	67	68	62	6	1	YES
S1621	Residential	B	67	1	1	52	55	NA	NA	3	NO
S1622	Residential	B	67	1	1	52	56	NA	NA	4	NO
S1623	Residential	B	67	1	1	51	54	NA	NA	3	NO
S1624.1	Residential	B	67	2	1	68	69	62	7	1	YES
S1624.2	Residential	B	67	2	2	70	71	65	6	1	YES
S1625.1	**Residential**	**B**	**67**	**2**	**1**	**68**	**69**	**61**	**8**	**1**	**YES**
S1625.2	Residential	B	67	2	2	70	71	64	7	1	YES

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S1625.3	Residential	B	67	2	3	71	73	67	6	2	YES
S1626.1	**Residential**	**B**	**67**	**2**	**1**	**68**	**69**	**61**	**8**	**1**	**YES**
S1626.2	**Residential**	**B**	**67**	**2**	**2**	**70**	**72**	**63**	**9**	**2**	**YES**
S1626.3	**Residential**	**B**	**67**	**2**	**3**	**71**	**73**	**65**	**8**	**2**	**YES**
S1627.1	**Residential**	**B**	**67**	**2**	**1**	**68**	**69**	**60**	**9**	**1**	**YES**
S1627.2	**Residential**	**B**	**67**	**2**	**2**	**70**	**71**	**62**	**9**	**1**	**YES**
S1627.3	**Residential**	**B**	**67**	**2**	**3**	**71**	**72**	**64**	**8**	**1**	**YES**
S1628.1	**Residential**	**B**	**67**	**2**	**1**	**68**	**69**	**61**	**8**	**1**	**YES**
S1628.2	**Residential**	**B**	**67**	**2**	**2**	**70**	**72**	**62**	**10**	**2**	**YES**
S1628.3	**Residential**	**B**	**67**	**2**	**3**	**71**	**73**	**64**	**9**	**2**	**YES**
S1629.1	**Residential**	**B**	**67**	**2**	**1**	**68**	**69**	**60**	**9**	**1**	**YES**
S1629.2	**Residential**	**B**	**67**	**2**	**2**	**69**	**70**	**62**	**8**	**1**	**YES**
S1629.3	**Residential**	**B**	**67**	**2**	**3**	**71**	**73**	**63**	**10**	**2**	**YES**
S1630.1	Residential	B	67	2	1	57	61	NA	NA	4	NO
S1630.2	Residential	B	67	2	2	59	61	NA	NA	2	NO
S1630.3	Residential	B	67	2	3	60	62	NA	NA	2	NO
S1631.1	Residential	B	67	3	1	57	61	NA	NA	4	NO
S1631.2	Residential	B	67	3	2	59	62	NA	NA	3	NO
S1631.3	Residential	B	67	3	3	60	62	NA	NA	2	NO
S1632.1	Residential	B	67	2	1	57	61	NA	NA	4	NO
S1632.2	Residential	B	67	2	2	59	62	NA	NA	3	NO
S1632.3	Residential	B	67	2	3	60	62	NA	NA	2	NO
S1633.1	Residential	B	67	3	1	57	61	NA	NA	4	NO
S1633.2	Residential	B	67	3	2	59	62	NA	NA	3	NO
S1633.3	Residential	B	67	3	3	60	62	NA	NA	2	NO
S1634.1	Residential	B	67	3	1	55	59	NA	NA	4	NO
S1634.2	Residential	B	67	3	2	57	61	NA	NA	4	NO
S1634.3	Residential	B	67	3	3	59	62	NA	NA	3	NO
S1635	Hospital	D	52	1	1	43	44	NA	NA	1	NO

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S1636	Goodman Path	C	67	1	1	69	72	NA	NA	3	YES
S1637.1	Residential	B	67	9	1	71	73	70	3	2	YES
S1637.2	Residential	B	67	8	2	71	76	72	4	5	YES
S1638.1	Residential	B	67	8	1	59	60	55	5	1	NO
S1638.2	Residential	B	67	8	2	61	62	56	6	1	NO
S1639.1	Residential	B	67	9	1	71	74	69	5	3	YES
S1639.2	Residential	B	67	8	2	72	76	71	5	4	YES
S1640.1	Residential	B	67	8	1	59	62	56	6	3	NO
S1640.2	Residential	B	67	9	2	62	64	57	7	2	NO
S1641.1	Residential	B	67	8	1	72	76	71	5	4	YES
S1641.2	Residential	B	67	9	2	75	77	72	5	2	YES
S1642.1	Residential	B	67	8	2	62	64	58	6	2	NO
S1642.2	Residential	B	67	9	1	58	62	56	6	4	NO
S1643.1	Residential	B	67	9	1	73	77	71	6	4	YES
S1643.2	Residential	B	67	8	2	76	78	72	6	2	YES
S1644.1	**Residential**	**B**	**67**	**9**	**1**	**63**	**67**	**58**	**9**	**4**	YES
S1644.2	**Residential**	**B**	**67**	**8**	**2**	**67**	**68**	**60**	**8**	**1**	YES
S1645a.2	Residential	B	67	4	2	67	68	NA	NA	1	YES
S1645a.3	Residential	B	67	4	3	67	68	NA	NA	1	YES
S1645a.4	Residential	B	67	4	4	67	69	NA	NA	2	YES
S1645b.2	Residential	B	67	1	2	65	66	NA	NA	1	YES
S1645b.3	Residential	B	67	1	3	65	66	NA	NA	1	YES
S1645b.4	Residential	B	67	1	4	65	67	NA	NA	2	YES
S1645c.2	Residential	B	67	1	2	64	65	NA	NA	1	NO
S1645c.3	Residential	B	67	1	3	64	65	NA	NA	1	NO
S1645c.4	Residential	B	67	1	4	64	65	NA	NA	1	NO
S1645d.2	Residential	B	67	4	2	54	56	NA	NA	2	NO
S1645d.3	Residential	B	67	4	3	56	57	NA	NA	1	NO
S1645d.4	Residential	B	67	4	4	57	59	NA	NA	2	NO

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Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase (Future No Barrier - Existing)	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss		
S1645e	Residential	B	67	1	1	65	66	NA	NA	1	YES
S1646	Residential	B	67	1	1	58	60	NA	NA	2	NO
S1647	Residential	B	67	2	1	65	65	59	6	0	NO
S1648	Residential	B	67	1	1	63	64	60	4	1	NO
S1700.1	Residential	B	67	1	1	66	67	61	6	1	YES
S1700.2	Residential	B	67	1	2	67	68	62	6	1	YES
S1700.3	Residential	B	67	1	3	68	68	63	5	0	YES
S1700.4	Residential	B	67	1	4	69	70	64	6	1	YES
S1701.1	Residential	B	67	2	1	67	67	62	5	0	YES
S1701.2	Residential	B	67	2	2	67	68	62	6	1	YES
S1701.3	Residential	B	67	2	3	68	69	63	6	1	YES
S1701.4	Residential	B	67	2	4	69	71	65	6	2	YES
S1702.1	Residential	B	67	2	1	67	71	62	6	4	YES
S1702.2	Residential	B	67	2	2	68	69	63	6	1	YES
S1702.3	Residential	B	67	2	3	69	70	64	6	1	YES
S1702.4	Residential	B	67	2	4	70	71	65	6	1	YES
S1703.1	Residential	B	67	2	1	68	68	63	6	0	YES
S1703.2	Residential	B	67	2	2	69	70	64	6	1	YES
S1703.3	Residential	B	67	2	3	70	72	65	7	2	YES
S1703.4	Residential	B	67	2	4	72	73	66	7	1	YES
S1704.1	Residential	B	67	2	1	68	69	63	6	1	YES
S1704.2	Residential	B	67	2	2	69	71	64	7	2	YES
S1704.3	Residential	B	67	2	3	71	72	65	7	1	YES
S1704.4	**Residential**	**B**	**67**	**2**	**4**	**73**	**74**	**66**	**8**	**1**	YES
S1705.1	Residential	B	67	2	1	68	69	63	6	1	YES
S1705.2	Residential	B	67	2	2	69	70	63	7	1	YES
S1705.3	**Residential**	**B**	**67**	**2**	**3**	**71**	**72**	**64**	**8**	**1**	YES
S1705.4	**Residential**	**B**	**67**	**2**	**4**	**73**	**73**	**65**	**8**	**0**	YES
S1706.1	Residential	B	67	2	1	68	69	62	7	1	YES

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S1706.2	Residential	B	67	2	2	69	70	63	7	1	YES
S1706.3	**Residential**	**B**	**67**	**2**	**3**	**71**	**71**	**63**	**8**	**0**	**YES**
S1706.4	**Residential**	**B**	**67**	**2**	**4**	**72**	**73**	**64**	**9**	**1**	**YES**
S1707.1	Residential	B	67	2	1	67	68	61	7	1	YES
S1707.2	Residential	B	67	2	2	69	69	62	7	0	YES
S1707.3	**Residential**	**B**	**67**	**2**	**3**	**70**	**70**	**62**	**8**	**0**	**YES**
S1707.4	**Residential**	**B**	**67**	**2**	**4**	**72**	**73**	**63**	**10**	**1**	**YES**
S1708.1	Residential	B	67	2	1	67	68	61	7	1	YES
S1708.2	**Residential**	**B**	**67**	**2**	**2**	**69**	**69**	**61**	**8**	**0**	**YES**
S1708.3	**Residential**	**B**	**67**	**2**	**3**	**70**	**70**	**62**	**8**	**0**	**YES**
S1708.4	**Residential**	**B**	**67**	**2**	**4**	**71**	**73**	**63**	**10**	**2**	**YES**
S1709.1	**Residential**	**B**	**67**	**2**	**1**	**67**	**68**	**60**	**8**	**1**	**YES**
S1709.2	**Residential**	**B**	**67**	**2**	**2**	**68**	**69**	**61**	**8**	**1**	**YES**
S1709.3	**Residential**	**B**	**67**	**2**	**3**	**70**	**69**	**61**	**8**	**-1**	**YES**
S1709.4	**Residential**	**B**	**67**	**2**	**4**	**71**	**73**	**62**	**11**	**2**	**YES**
S1710.1	**Residential**	**B**	**67**	**1**	**1**	**67**	**68**	**60**	**8**	**1**	**YES**
S1710.2	**Residential**	**B**	**67**	**1**	**2**	**68**	**68**	**60**	**8**	**0**	**YES**
S1710.3	**Residential**	**B**	**67**	**1**	**3**	**69**	**69**	**61**	**8**	**0**	**YES**
S1710.4	**Residential**	**B**	**67**	**1**	**4**	**71**	**72**	**62**	**10**	**1**	**YES**
S1711.1	Residential	B	67	3	1	55	56	49	7	1	NO
S1711.2	Residential	B	67	3	2	56	57	50	7	1	NO
S1711.3	Residential	B	67	3	3	58	60	53	7	2	NO
S1711.4	Residential	B	67	3	4	64	66	59	7	2	YES
S1712.1	Residential	B	67	2	1	55	56	49	7	1	NO
S1712.2	Residential	B	67	2	2	55	56	49	7	1	NO
S1712.3	Residential	B	67	2	3	58	60	53	7	2	NO
S1712.4	Residential	B	67	2	4	64	65	59	6	1	NO
S1713.1	Residential	B	67	2	1	54	55	49	6	1	NO
S1713.2	**Residential**	**B**	**67**	**2**	**2**	**55**	**56**	**48**	**8**	**1**	**NO**

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Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-1: South Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
	Description	Category	Criteria			Existing	Future Build			Increase (Future No Barrier - Existing)	
							No Barrier	With Barrier	Insertion Loss		
S1713.3	Residential	B	67	2	3	58	59	53	6	1	NO
S1713.4	Residential	B	67	2	4	63	65	58	7	2	NO
S1714.1	Residential	B	67	2	1	55	56	49	7	1	NO
S1714.2	Residential	B	67	2	2	55	56	49	7	1	NO
S1714.3	Residential	B	67	2	3	59	60	54	6	1	NO
S1714.4	Residential	B	67	2	4	64	65	59	6	1	NO
S1715.1	Residential	B	67	2	1	55	56	51	5	1	NO
S1715.2	Residential	B	67	2	2	56	57	51	6	1	NO
S1715.3	Residential	B	67	2	3	59	61	55	6	2	NO
S1715.4	Residential	B	67	2	4	66	68	62	6	2	YES
S1716.1	Residential	B	67	3	1	56	57	52	5	1	NO
S1716.2	Residential	B	67	3	2	56	58	53	5	2	NO
S1716.3	Residential	B	67	3	3	59	61	56	5	2	NO
S1716.4	Residential	B	67	3	4	66	68	62	6	2	YES
S1717	**Residential Garden Area**	**B**	**67**	**1**	**1**	**59**	**63**	**54**	**9**	**4**	**NO**

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-2: North Section Noise Barrier Analysis Results by Receiver

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss	(Future No Barrier - Existing)	
N1	Residential	B	67	1	1	60	62	NA	NA	2	NO
N2	Residential	B	67	1	1	64	65	NA	NA	1	NO
N3	**Residential**	**B**	**67**	**1**	**1**	**69**	**71**	**63**	**8**	**2**	**YES**
N4	**Residential**	**B**	**67**	**1**	**1**	**71**	**72**	**61**	**11**	**1**	**YES**
N5	**Residential**	**B**	**67**	**1**	**1**	**69**	**70**	**59**	**11**	**1**	**YES**
N6	**Residential**	**B**	**67**	**1**	**1**	**70**	**71**	**60**	**11**	**1**	**YES**
N7	**Residential**	**B**	**67**	**1**	**1**	**70**	**69**	**61**	**8**	**-1**	**YES**
N8	Residential	B	67	1	1	70	72	66	6	2	YES
N9	Residential	B	67	1	1	75	71	64	7	-4	YES
N10	Residential	B	67	1	1	71	69	64	5	-2	YES
N11	Residential	B	67	1	1	73	65	NA	NA	-8	NO
N12	Residential	B	67	1	1	65	64	NA	NA	-1	NO
N13	Residential	B	67	1	1	64	64	NA	NA	0	NO
N14	Residential	B	67	1	1	73	73	69	4	0	YES
N15	**Residential**	**B**	**67**	**1**	**1**	**74**	**74**	**66**	**8**	**0**	**YES**
N16	**Residential**	**B**	**67**	**1**	**1**	**74**	**73**	**65**	**8**	**-1**	**YES**
N17	**Residential**	**B**	**67**	**1**	**1**	**73**	**73**	**65**	**8**	**0**	**YES**
N18	Residential	B	67	1	1	64	64	NA	NA	0	NO
N19	Residential	B	67	1	1	69	71	NA	NA	2	YES
N20	Residential	B	67	1	1	62	63	NA	NA	1	NO
N21	Playground	C	67	1	1	68	70	NA	NA	2	YES
N22	Playground	C	67	1	1	66	67	NA	NA	1	YES
N23	Residential	B	67	1	1	59	59	NA	NA	0	NO
N24	Residential	B	67	1	1	70	72	NA	NA	2	YES
N25	Residential	B	67	1	1	66	61	NA	NA	-5	NO
N26	Residential	B	67	1	1	60	59	NA	NA	-1	NO
N27	Residential	B	67	1	1	53	52	NA	NA	-1	NO
N28	Residential	B	67	1	1	52	52	NA	NA	0	NO
N29	Residential	B	67	1	1	51	51	NA	NA	0	NO
N30	Residential	B	67	1	1	60	60	NA	NA	0	NO
N31	Residential	B	67	1	1	54	54	NA	NA	0	NO
N32	Residential	B	67	1	1	54	54	NA	NA	0	NO
N33	Resort Restaurant	E	72	1	1	61	63	NA	NA	2	NO
N34	Park	C	67	1	1	61	62	NA	NA	1	NO
N35	Residential	B	67	1	1	71	71	NA	NA	0	YES
N36	Residential	B	67	1	1	68	69	NA	NA	1	YES
N37	Residential	B	67	1	1	65	63	NA	NA	-2	NO

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Table D-2: North Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss	(Future No Barrier - Existing)	
N38	Residential	B	67	1	1	62	61	NA	NA	-1	NO
N39	Residential	B	67	1	1	63	64	NA	NA	1	NO
N40	Residential	B	67	1	1	61	63	NA	NA	2	NO
N41	Residential	B	67	1	1	64	65	NA	NA	1	NO
N42	Residential	B	67	1	1	59	60	NA	NA	1	NO
N43	Residential	B	67	1	1	62	63	NA	NA	1	NO
N44	Residential	B	67	1	1	70	71	NA	NA	1	YES
N45	Residential	B	67	1	1	58	59	NA	NA	1	NO
N46	Residential	B	67	1	1	56	56	NA	NA	0	NO
N47	Residential	B	67	1	1	66	67	NA	NA	1	YES
N48	Residential	B	67	1	1	54	56	NA	NA	2	NO
N49	Residential	B	67	1	1	65	67	NA	NA	2	YES
N50	Residential	B	67	1	1	67	67	62	5	0	YES
N51	**Residential**	**B**	**67**	**1**	**1**	**72**	**72**	**61**	**11**	**0**	YES
N52	Residential	B	67	1	1	66	65	60	5	-1	NO
N53	Hotel Pool	E	72	1	1	68	68	NA	NA	0	NO
N54	Residential	B	67	1	1	68	70	NA	NA	2	YES
N55	Hotel Pool	E	72	1	1	63	66	NA	NA	3	NO
N56.1	**Residential**	**B**	**67**	**1**	**1**	**72**	**72**	**61**	**11**	**0**	YES
N56.2	**Residential**	**B**	**67**	**1**	**2**	**74**	**75**	**64**	**11**	**1**	YES
N56.3	**Residential**	**B**	**67**	**1**	**3**	**75**	**75**	**67**	**8**	**0**	YES
N56.4	Residential	B	67	1	4	75	75	72	3	0	YES
N57.1	**Residential**	**B**	**67**	**1**	**1**	**72**	**72**	**61**	**11**	**0**	YES
N57.2	**Residential**	**B**	**67**	**1**	**2**	**75**	**75**	**64**	**11**	**0**	YES
N57.3	**Residential**	**B**	**67**	**1**	**3**	**75**	**75**	**67**	**8**	**0**	YES
N57.4	Residential	B	67	1	4	75	75	71	4	0	YES
N58.1	**Residential**	**B**	**67**	**1**	**1**	**72**	**72**	**61**	**11**	**0**	YES
N58.2	**Residential**	**B**	**67**	**1**	**2**	**75**	**75**	**64**	**11**	**0**	YES
N58.3	**Residential**	**B**	**67**	**1**	**3**	**75**	**75**	**67**	**8**	**0**	YES
N58.4	Residential	B	67	1	4	75	75	71	4	0	YES
N59.1	**Residential**	**B**	**67**	**1**	**1**	**73**	**73**	**61**	**12**	**0**	YES
N59.2	**Residential**	**B**	**67**	**1**	**2**	**75**	**75**	**64**	**11**	**0**	YES
N59.3	**Residential**	**B**	**67**	**1**	**3**	**75**	**75**	**67**	**8**	**0**	YES
N59.4	Residential	B	67	1	4	75	75	71	4	0	YES
N60.1	**Residential**	**B**	**67**	**1**	**1**	**73**	**73**	**61**	**12**	**0**	YES
N60.2	**Residential**	**B**	**67**	**1**	**2**	**75**	**75**	**64**	**11**	**0**	YES
N60.3	**Residential**	**B**	**67**	**1**	**3**	**75**	**75**	**67**	**8**	**0**	YES

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Table D-2: North Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss	(Future No Barrier - Existing)	
N60.4	Residential	B	67	1	4	75	76	71	5	1	YES
N61.1	**Residential**	**B**	**67**	**1**	**1**	**74**	**73**	**61**	**12**	**-1**	**YES**
N61.2	**Residential**	**B**	**67**	**1**	**2**	**75**	**75**	**64**	**11**	**0**	**YES**
N61.3	**Residential**	**B**	**67**	**1**	**3**	**75**	**76**	**67**	**9**	**1**	**YES**
N61.4	Residential	B	67	1	4	76	76	71	5	0	YES
N62.1	**Residential**	**B**	**67**	**1**	**1**	**74**	**73**	**61**	**12**	**-1**	**YES**
N62.2	**Residential**	**B**	**67**	**1**	**2**	**75**	**76**	**64**	**12**	**1**	**YES**
N62.3	**Residential**	**B**	**67**	**1**	**3**	**76**	**76**	**67**	**9**	**0**	**YES**
N62.4	Residential	B	67	1	4	76	76	71	5	0	YES
N63.1	**Residential**	**B**	**67**	**1**	**1**	**74**	**73**	**61**	**12**	**-1**	**YES**
N63.2	**Residential**	**B**	**67**	**1**	**2**	**76**	**76**	**64**	**12**	**0**	**YES**
N63.3	**Residential**	**B**	**67**	**1**	**3**	**76**	**76**	**66**	**10**	**0**	**YES**
N63.4	Residential	B	67	1	4	76	76	70	6	0	YES
N64.1	Residential	B	67	1	1	48	48	NA	NA	0	NO
N64.2	Residential	B	67	1	2	50	50	NA	NA	0	NO
N64.3	Residential	B	67	1	3	52	52	NA	NA	0	NO
N64.4	Residential	B	67	1	4	53	53	NA	NA	0	NO
N65.1	Residential	B	67	1	1	50	49	NA	NA	-1	NO
N65.2	Residential	B	67	1	2	51	50	NA	NA	-1	NO
N65.3	Residential	B	67	1	3	53	52	NA	NA	-1	NO
N65.4	Residential	B	67	1	4	54	54	NA	NA	0	NO
N66.1	Residential	B	67	1	1	50	49	NA	NA	-1	NO
N66.2	Residential	B	67	1	2	52	51	NA	NA	-1	NO
N66.3	Residential	B	67	1	3	54	53	NA	NA	-1	NO
N66.4	Residential	B	67	1	4	55	54	NA	NA	-1	NO
N67.1	Residential	B	67	1	1	50	49	NA	NA	-1	NO
N67.2	Residential	B	67	1	2	52	51	NA	NA	-1	NO
N67.3	Residential	B	67	1	3	54	53	NA	NA	-1	NO
N67.4	Residential	B	67	1	4	55	55	NA	NA	0	NO
N68.1	Residential	B	67	1	1	50	50	NA	NA	0	NO
N68.2	Residential	B	67	1	2	52	51	NA	NA	-1	NO
N68.3	Residential	B	67	1	3	54	54	NA	NA	0	NO
N68.4	Residential	B	67	1	4	56	55	NA	NA	-1	NO
N69.1	Residential	B	67	1	1	51	50	NA	NA	-1	NO
N69.2	Residential	B	67	1	2	53	52	NA	NA	-1	NO
N69.3	Residential	B	67	1	3	55	54	NA	NA	-1	NO
N69.4	Residential	B	67	1	4	56	56	NA	NA	0	NO

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Table D-2: North Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss	(Future No Barrier - Existing)	
N70.1	Residential	B	67	1	1	51	50	NA	NA	-1	NO
N70.2	Residential	B	67	1	2	54	53	NA	NA	-1	NO
N70.3	Residential	B	67	1	3	56	55	NA	NA	-1	NO
N70.4	Residential	B	67	1	4	57	57	NA	NA	0	NO
N71.1	Residential	B	67	1	1	54	52	NA	NA	-2	NO
N71.2	Residential	B	67	1	2	57	57	NA	NA	0	NO
N71.3	Residential	B	67	1	3	58	59	NA	NA	1	NO
N71.4	Residential	B	67	1	4	59	59	NA	NA	0	NO
N72	**Campground**	**C**	**67**	**1**	**1**	**75**	**77**	**67**	**10**	**2**	**YES**
N73	**Campground**	**C**	**67**	**1**	**1**	**75**	**77**	**64**	**13**	**2**	**YES**
N74	**Campground**	**C**	**67**	**1**	**1**	**72**	**74**	**63**	**11**	**2**	**YES**
N75	**Campground**	**C**	**67**	**1**	**1**	**73**	**74**	**63**	**11**	**1**	**YES**
N76	**Campground**	**C**	**67**	**1**	**1**	**73**	**74**	**63**	**11**	**1**	**YES**
N77	**Campground**	**C**	**67**	**1**	**1**	**71**	**72**	**63**	**9**	**1**	**YES**
N78	**Campground**	**C**	**67**	**1**	**1**	**71**	**72**	**63**	**9**	**1**	**YES**
N79	**Campground**	**C**	**67**	**1**	**1**	**72**	**73**	**63**	**10**	**1**	**YES**
N80	**Campground**	**C**	**67**	**1**	**1**	**73**	**73**	**63**	**10**	**0**	**YES**
N81	**Campground**	**C**	**67**	**1**	**1**	**72**	**73**	**63**	**10**	**1**	**YES**
N82	**Campground**	**C**	**67**	**1**	**1**	**74**	**75**	**63**	**12**	**1**	**YES**
N83	**Campground**	**C**	**67**	**1**	**1**	**74**	**75**	**64**	**11**	**1**	**YES**
N84	**Campground**	**C**	**67**	**1**	**1**	**74**	**75**	**64**	**11**	**1**	**YES**
N85	**Campground**	**C**	**67**	**1**	**1**	**75**	**75**	**65**	**10**	**0**	**YES**
N86	**Campground**	**C**	**67**	**1**	**1**	**74**	**75**	**66**	**9**	**1**	**YES**
N87	Trail	C	67	1	1	71	70	NA	NA	-1	YES
N89	**Campground**	**C**	**67**	**1**	**1**	**76**	**75**	**66**	**9**	**-1**	**YES**
N90	**Campground**	**C**	**67**	**1**	**1**	**78**	**76**	**64**	**12**	**-2**	**YES**
N91	**Campground**	**C**	**67**	**1**	**1**	**78**	**76**	**65**	**11**	**-2**	**YES**
N92	**Campground**	**C**	**67**	**1**	**1**	**78**	**76**	**65**	**11**	**-2**	**YES**
N93	**Campground**	**C**	**67**	**1**	**1**	**78**	**77**	**65**	**12**	**-1**	**YES**
N94	**Campground**	**C**	**67**	**1**	**1**	**78**	**76**	**65**	**11**	**-2**	**YES**
N95	**Campground**	**C**	**67**	**1**	**1**	**78**	**77**	**64**	**13**	**-1**	**YES**
N96	**Campground**	**C**	**67**	**1**	**1**	**78**	**77**	**64**	**13**	**-1**	**YES**
N97	Campground	C	67	1	1	67	67	64	3	0	YES
N98	**Residential**	**B**	**67**	**1**	**1**	**64**	**68**	**60**	**8**	**4**	**YES**
N99	**Residential**	**B**	**67**	**1**	**1**	**66**	**67**	**59**	**8**	**1**	**YES**
N100	Residential	B	67	1	1	61	55	55	0	-6	NO
N101	Residential	B	67	1	1	63	64	NA	NA	1	NO

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-2: North Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss	(Future No Barrier - Existing)	
N102	Medical facility	D	52	1	1	48	49	NA	NA	1	NO
N103	Medical facility	D	52	1	1	44	47	NA	NA	3	NO
N104	Residential	B	67	1	1	63	64	NA	NA	1	NO
N105	Residential	B	67	1	1	62	63	NA	NA	1	NO
N106	Campground	C	67	1	1	64	64	NA	NA	0	NO
N107.1	Residential	B	67	1	1	61	61	54	7	0	NO
N107.2	**Residential**	**B**	**67**	**1**	**2**	**65**	**66**	**56**	**10**	**1**	**YES**
N108.1	Residential	B	67	1	1	59	61	57	4	2	NO
N108.2	Residential	B	67	1	2	64	66	60	6	2	YES
N109.1	Residential	B	67	1	1	44	45	43	2	1	NO
N109.2	Residential	B	67	1	2	46	47	46	1	1	NO
N110.1	Residential	B	67	1	1	45	46	44	2	1	NO
N110.2	Residential	B	67	1	2	46	47	45	2	1	NO
N111.1	Residential	B	67	1	1	50	52	47	5	2	NO
N111.2	Residential	B	67	1	2	55	56	50	6	1	NO
N112.1	Residential	B	67	1	1	54	55	55	0	1	NO
N112.2	Residential	B	67	1	2	59	60	59	1	1	NO
N113.1	Residential	B	67	1	1	42	43	38	5	1	NO
N113.2	Residential	B	67	1	2	44	45	44	1	1	NO
N114.1	Residential	B	67	1	1	43	44	40	4	1	NO
N114.2	Residential	B	67	1	2	43	45	42	3	2	NO
N115.1	Residential	B	67	1	1	54	56	52	4	2	NO
N115.2	Residential	B	67	1	2	61	63	57	6	2	NO
N116.1	Residential	B	67	1	1	54	57	52	5	3	NO
N116.2	Residential	B	67	1	2	61	62	57	5	1	NO
N117.1	Residential	B	67	1	1	54	56	52	4	2	NO
N117.2	Residential	B	67	1	2	61	62	56	6	1	NO
N118.1	Residential	B	67	1	1	54	56	52	4	2	NO
N118.2	Residential	B	67	1	2	61	62	56	6	1	NO
N119.1	Residential	B	67	1	1	55	56	51	5	1	NO
N119.2	Residential	B	67	1	2	61	62	55	7	1	NO
N120.1	Residential	B	67	1	1	54	56	51	5	2	NO
N120.2	Residential	B	67	1	2	60	62	55	7	2	NO
N121.1	Residential	B	67	1	1	54	56	51	5	2	NO
N121.2	Residential	B	67	1	2	61	61	55	6	0	NO
N122.1	Residential	B	67	1	1	56	57	54	3	1	NO
N122.2	Residential	B	67	1	2	61	62	58	4	1	NO

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NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-2: North Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss	(Future No Barrier - Existing)	
N123.1	Residential	B	67	1	1	50	51	48	3	1	NO
N123.2	Residential	B	67	1	2	57	57	53	4	0	NO
N124.1	Residential	B	67	1	1	47	49	48	1	2	NO
N124.2	Residential	B	67	1	2	50	52	51	1	2	NO
N125.1	Residential	B	67	1	1	46	48	47	1	2	NO
N125.2	Residential	B	67	1	2	50	51	51	0	1	NO
N126.1	Residential	B	67	1	1	46	48	46	2	2	NO
N126.2	Residential	B	67	1	2	50	52	51	1	2	NO
N127.1	**Residential**	**B**	**67**	**1**	**1**	**74**	**75**	**63**	**12**	**1**	**YES**
N127.2	**Residential**	**B**	**67**	**1**	**2**	**76**	**76**	**66**	**10**	**0**	**YES**
N128.1	**Residential**	**B**	**67**	**1**	**1**	**74**	**74**	**63**	**11**	**0**	**YES**
N128.2	**Residential**	**B**	**67**	**1**	**2**	**75**	**76**	**65**	**11**	**1**	**YES**
N129.1	**Residential**	**B**	**67**	**1**	**1**	**73**	**73**	**62**	**11**	**0**	**YES**
N129.2	**Residential**	**B**	**67**	**1**	**2**	**75**	**76**	**65**	**11**	**1**	**YES**
N130.1	**Residential**	**B**	**67**	**1**	**1**	**73**	**73**	**62**	**11**	**0**	**YES**
N130.2	**Residential**	**B**	**67**	**1**	**2**	**75**	**75**	**65**	**10**	**0**	**YES**
N131.1	Residential	B	67	1	1	59	59	55	4	0	NO
N131.2	Residential	B	67	1	2	64	65	58	7	1	NO
N132.1	Residential	B	67	1	1	58	58	55	3	0	NO
N132.2	Residential	B	67	1	2	64	64	58	6	0	NO
N133.1	Residential	B	67	1	1	57	57	54	3	0	NO
N133.2	Residential	B	67	1	2	62	63	58	5	1	NO
N134.1	Residential	B	67	1	1	55	55	53	2	0	NO
N134.2	Residential	B	67	1	2	60	61	58	3	1	NO
N135.1	Residential	B	67	1	1	47	48	47	1	1	NO
N135.2	Residential	B	67	1	2	47	48	47	1	1	NO
N136.1	Residential	B	67	1	1	44	46	44	2	2	NO
N136.2	Residential	B	67	1	2	45	47	46	1	2	NO
N137.1	Residential	B	67	1	1	44	46	44	2	2	NO
N137.2	Residential	B	67	1	2	45	47	46	1	2	NO
N138.1	Residential	B	67	1	1	45	47	45	2	2	NO
N138.2	Residential	B	67	1	2	46	47	46	1	1	NO
N139.1	**Residential**	**B**	**67**	**1**	**1**	**73**	**73**	**62**	**11**	**0**	**YES**
N139.2	**Residential**	**B**	**67**	**1**	**2**	**75**	**75**	**66**	**9**	**0**	**YES**
N140.1	**Residential**	**B**	**67**	**1**	**1**	**73**	**73**	**63**	**10**	**0**	**YES**
N140.2	**Residential**	**B**	**67**	**1**	**2**	**75**	**75**	**66**	**9**	**0**	**YES**
N141.1	**Residential**	**B**	**67**	**1**	**1**	**73**	**73**	**62**	**11**	**0**	**YES**

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NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-2: North Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss	(Future No Barrier - Existing)	
N141.2	**Residential**	**B**	**67**	**1**	**2**	**75**	**75**	**66**	**9**	**0**	**YES**
N142.1	**Residential**	**B**	**67**	**1**	**1**	**73**	**73**	**62**	**11**	**0**	**YES**
N142.2	**Residential**	**B**	**67**	**1**	**2**	**74**	**75**	**66**	**9**	**1**	**YES**
N143.1	Residential	B	67	1	1	45	46	45	1	1	NO
N143.2	Residential	B	67	1	2	48	49	48	1	1	NO
N144.1	Residential	B	67	1	1	45	46	45	1	1	NO
N144.2	Residential	B	67	1	2	47	48	47	1	1	NO
N145.1	Residential	B	67	1	1	45	46	45	1	1	NO
N145.2	Residential	B	67	1	2	46	47	47	0	1	NO
N146.1	Residential	B	67	1	1	45	46	44	2	1	NO
N146.2	Residential	B	67	1	2	47	47	47	0	0	NO
N147.1	**Residential**	**B**	**67**	**1**	**1**	**74**	**74**	**64**	**10**	**0**	**YES**
N147.2	Residential	B	67	1	2	75	75	68	7	0	YES
N148.1	**Residential**	**B**	**67**	**1**	**1**	**74**	**74**	**64**	**10**	**0**	**YES**
N148.2	Residential	B	67	1	2	75	75	69	6	0	YES
N149.1	**Residential**	**B**	**67**	**1**	**1**	**74**	**74**	**64**	**10**	**0**	**YES**
N149.2	Residential	B	67	1	2	75	76	69	7	1	YES
N150.1	**Residential**	**B**	**67**	**1**	**1**	**74**	**74**	**64**	**10**	**0**	**YES**
N150.2	Residential	B	67	1	2	75	75	69	6	0	YES
N151.1	Residential	B	67	1	1	44	45	43	2	1	NO
N151.2	Residential	B	67	1	2	47	48	47	1	1	NO
N152.1	Residential	B	67	1	1	46	47	46	1	1	NO
N152.2	Residential	B	67	1	2	47	48	47	1	1	NO
N153.1	Residential	B	67	1	1	46	47	46	1	1	NO
N153.2	Residential	B	67	1	2	47	48	47	1	1	NO
N154.1	Residential	B	67	1	1	45	45	44	1	0	NO
N154.2	Residential	B	67	1	2	47	48	47	1	1	NO
N155.1	Residential	B	67	1	1	54	54	54	0	0	NO
N155.2	Residential	B	67	1	2	61	62	60	2	1	NO
N156.1	Residential	B	67	1	1	57	54	54	0	-3	NO
N156.2	Residential	B	67	1	2	62	62	61	1	0	NO
N157.1	Residential	B	67	1	1	60	61	56	5	1	NO
N157.2	Residential	B	67	1	2	63	64	61	3	1	NO
N158.1	Residential	B	67	1	1	62	62	57	5	0	NO
N158.2	Residential	B	67	1	2	65	66	61	5	1	YES
N159.1	Residential	B	67	1	1	45	46	45	1	1	NO
N159.2	Residential	B	67	1	2	49	50	49	1	1	NO

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Table D-2: North Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss	(Future No Barrier - Existing)	
N160.1	Residential	B	67	1	1	44	45	44	1	1	NO
N160.2	Residential	B	67	1	2	47	48	48	0	1	NO
N161.1	Residential	B	67	1	1	43	45	44	1	2	NO
N161.2	Residential	B	67	1	2	47	48	48	0	1	NO
N162.1	Residential	B	67	1	1	44	45	44	1	1	NO
N162.2	Residential	B	67	1	2	47	48	48	0	1	NO
N163	**Residential**	**B**	**67**	**3**	**1**	**70**	**71**	**63**	**8**	**1**	**YES**
N164	**Residential**	**B**	**67**	**1**	**1**	**74**	**75**	**65**	**10**	**1**	**YES**
N165	**Residential**	**B**	**67**	**2**	**1**	**74**	**75**	**66**	**9**	**1**	**YES**
N166	Residential	B	67	3	1	67	69	64	5	2	YES
N167	**Residential**	**B**	**67**	**1**	**1**	**74**	**75**	**66**	**9**	**1**	**YES**
N168	**Residential**	**B**	**67**	**1**	**1**	**75**	**75**	**66**	**9**	**0**	**YES**
N169	**Residential**	**B**	**67**	**1**	**1**	**75**	**75**	**66**	**9**	**0**	**YES**
N170	Residential	B	67	1	1	73	74	67	7	1	YES
N171	Residential	B	67	5	1	66	67	61	6	1	YES
N172	Residential	B	67	1	1	71	72	68	4	1	YES
N173	Residential	B	67	1	1	67	68	63	5	1	YES
N174	Residential	B	67	4	1	63	64	59	5	1	NO
N175	Residential	B	67	2	1	64	65	60	5	1	NO
N176	Residential	B	67	1	1	68	69	65	4	1	YES
N177	Residential	B	67	3	1	65	66	62	4	1	YES
N178	Residential	B	67	2	1	70	71	65	6	1	YES
N179	Residential	B	67	1	1	71	72	65	7	1	YES
N180	Residential	B	67	4	1	69	70	63	7	1	YES
N181	**Residential**	**B**	**67**	**4**	**1**	**72**	**73**	**65**	**8**	**1**	**YES**
N182	**Residential**	**B**	**67**	**1**	**1**	**73**	**73**	**65**	**8**	**0**	**YES**
N183	**Residential**	**B**	**67**	**4**	**1**	**69**	**70**	**62**	**8**	**1**	**YES**
N184	**Residential**	**B**	**67**	**5**	**1**	**73**	**73**	**64**	**9**	**0**	**YES**
N185	**Residential**	**B**	**67**	**1**	**1**	**74**	**74**	**64**	**10**	**0**	**YES**
N186	Residential	B	67	5	1	69	70	64	6	1	YES
N187	**Residential**	**B**	**67**	**6**	**1**	**73**	**74**	**63**	**11**	**1**	**YES**
N188	Residential	B	67	5	1	72	72	65	7	0	YES
N189	**Residential**	**B**	**67**	**1**	**1**	**76**	**77**	**64**	**13**	**1**	**YES**
N190	**Residential**	**B**	**67**	**5**	**1**	**67**	**68**	**59**	**9**	**1**	**YES**
N191	**Residential**	**B**	**67**	**1**	**1**	**76**	**77**	**63**	**14**	**1**	**YES**
N192	**Residential**	**B**	**67**	**1**	**1**	**76**	**77**	**63**	**14**	**1**	**YES**
N193	**Residential**	**B**	**67**	**1**	**1**	**74**	**74**	**62**	**12**	**0**	**YES**

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Table D-2: North Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss	(Future No Barrier - Existing)	
N194	**Residential**	**B**	**67**	**4**	**1**	**68**	**69**	**59**	**10**	**1**	**YES**
N195	**Residential**	**B**	**67**	**1**	**1**	**74**	**73**	**62**	**11**	**-1**	**YES**
N196	**Residential**	**B**	**67**	**1**	**1**	**74**	**73**	**62**	**11**	**-1**	**YES**
N197	**Residential**	**B**	**67**	**4**	**1**	**69**	**71**	**61**	**10**	**2**	**YES**
N198	**Residential**	**B**	**67**	**1**	**1**	**75**	**76**	**63**	**13**	**1**	**YES**
N199	**Residential**	**B**	**67**	**1**	**1**	**76**	**76**	**63**	**13**	**0**	**YES**
N200	**Residential**	**B**	**67**	**1**	**1**	**76**	**76**	**63**	**13**	**0**	**YES**
N201	**Residential**	**B**	**67**	**5**	**1**	**67**	**69**	**59**	**10**	**2**	**YES**
N202	**Residential**	**B**	**67**	**1**	**1**	**76**	**76**	**63**	**13**	**0**	**YES**
N203	**Residential**	**B**	**67**	**5**	**1**	**72**	**72**	**61**	**11**	**0**	**YES**
N204	**Residential**	**B**	**67**	**5**	**1**	**76**	**74**	**63**	**11**	**-2**	**YES**
N205	**Residential**	**B**	**67**	**1**	**1**	**76**	**73**	**63**	**10**	**-3**	**YES**
N206	**Residential**	**B**	**67**	**1**	**1**	**73**	**73**	**62**	**11**	**0**	**YES**
N207	**Residential**	**B**	**67**	**1**	**1**	**73**	**72**	**62**	**10**	**-1**	**YES**
N208	**Residential**	**B**	**67**	**4**	**1**	**67**	**67**	**59**	**8**	**0**	**YES**
N209	**Residential**	**B**	**67**	**1**	**1**	**71**	**71**	**61**	**10**	**0**	**YES**
N210	**Residential**	**B**	**67**	**1**	**1**	**72**	**71**	**62**	**9**	**-1**	**YES**
N211	**Residential**	**B**	**67**	**1**	**1**	**72**	**71**	**62**	**9**	**-1**	**YES**
N212	**Residential**	**B**	**67**	**3**	**1**	**68**	**67**	**58**	**9**	**-1**	**YES**
N213	**Golf course**	**C**	**67**	**1**	**1**	**73**	**73**	**62**	**11**	**0**	**YES**
N214	**Golf course**	**C**	**67**	**1**	**1**	**75**	**76**	**63**	**13**	**1**	**YES**
N215	**Golf course**	**C**	**67**	**1**	**1**	**76**	**77**	**64**	**13**	**1**	**YES**
N216	**Residential**	**B**	**67**	**1**	**1**	**65**	**66**	**58**	**8**	**1**	**YES**
N217	**Residential**	**B**	**67**	**1**	**1**	**68**	**69**	**61**	**8**	**1**	**YES**
N218	Residential	B	67	1	1	63	65	58	7	2	NO
N219	Residential	B	67	1	1	62	64	60	4	2	NO
N220	Residential	B	67	1	1	62	64	61	3	2	NO
N221	Residential	B	67	1	1	61	63	60	3	2	NO
N222	Golf course	C	67	1	1	72	73	72	1	1	YES
N223	Residential	B	67	1	1	60	61	NA	NA	1	NO
N224.1	Residential	B	67	1	1	54	55	54	1	1	NO
N224.2	Residential	B	67	1	2	55	56	55	1	1	NO
N224.3	Residential	B	67	1	3	56	57	56	1	1	NO
N224.4	Residential	B	67	1	4	58	59	57	2	1	NO
N225.1	Residential	B	67	1	1	54	56	55	1	2	NO
N225.2	Residential	B	67	1	2	55	56	55	1	1	NO
N225.3	Residential	B	67	1	3	56	57	56	1	1	NO

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Table D-2: North Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss	(Future No Barrier - Existing)	
N225.4	Residential	B	67	1	4	59	60	59	1	1	NO
N226.1	Residential	B	67	1	1	54	55	54	1	1	NO
N226.2	Residential	B	67	1	2	56	57	56	1	1	NO
N226.3	Residential	B	67	1	3	59	60	58	2	1	NO
N226.4	Residential	B	67	1	4	61	61	60	1	0	NO
N227.1	Residential	B	67	1	1	55	55	55	0	0	NO
N227.2	Residential	B	67	1	2	57	58	58	0	1	NO
N227.3	Residential	B	67	1	3	60	60	60	0	0	NO
N227.4	Residential	B	67	1	4	61	62	61	1	1	NO
N228.1	Residential	B	67	1	1	55	56	55	1	1	NO
N228.2	Residential	B	67	1	2	58	58	58	0	0	NO
N228.3	Residential	B	67	1	3	61	61	60	1	0	NO
N228.4	Residential	B	67	1	4	61	62	61	1	1	NO
N229.1	Residential	B	67	1	1	55	55	55	0	0	NO
N229.2	Residential	B	67	1	2	58	59	58	1	1	NO
N229.3	Residential	B	67	1	3	61	61	60	1	0	NO
N229.4	Residential	B	67	1	4	61	62	61	1	1	NO
N230.1	Residential	B	67	1	1	55	55	55	0	0	NO
N230.2	Residential	B	67	1	2	58	59	59	0	1	NO
N231.1	Residential	B	67	1	1	60	60	59	1	0	NO
N231.2	Residential	B	67	1	2	62	63	62	1	1	NO
N231.3	Residential	B	67	1	3	64	64	63	1	0	NO
N231.4	Residential	B	67	1	4	65	65	63	2	0	NO
N232.1	Residential	B	67	1	1	60	60	60	0	0	NO
N232.2	Residential	B	67	1	2	62	63	62	1	1	NO
N232.3	Residential	B	67	1	3	64	64	63	1	0	NO
N232.4	Residential	B	67	1	4	65	65	63	2	0	NO
N233.1	Residential	B	67	1	1	60	60	60	0	0	NO
N233.2	Residential	B	67	1	2	62	63	62	1	1	NO
N233.3	Residential	B	67	1	3	64	65	63	2	1	NO
N233.4	Residential	B	67	1	4	65	65	64	1	0	NO
N234.1	Residential	B	67	1	1	60	61	61	0	1	NO
N234.2	Residential	B	67	1	2	63	63	63	0	0	NO
N234.3	Residential	B	67	1	3	64	65	63	2	1	NO
N234.4	Residential	B	67	1	4	65	65	64	1	0	NO
N235.1	Residential	B	67	1	1	60	61	61	0	1	NO
N235.2	Residential	B	67	1	2	63	64	63	1	1	NO

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-2: North Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss	(Future No Barrier - Existing)	
N235.3	Residential	B	67	1	3	64	65	64	1	1	NO
N235.4	Residential	B	67	1	4	65	66	64	2	1	YES
N236.1	Residential	B	67	1	1	61	62	62	0	0	NO
N236.2	Residential	B	67	1	2	63	64	63	1	1	NO
N236.3	Residential	B	67	1	3	65	65	64	1	0	NO
N236.4	Residential	B	67	1	4	65	66	64	2	1	YES
N237.1	Residential	B	67	1	1	44	46	NA	NA	2	NO
N237.2	Residential	B	67	1	2	45	48	NA	NA	3	NO
N237.3	Residential	B	67	1	3	46	50	NA	NA	4	NO
N237.4	Residential	B	67	1	4	48	52	NA	NA	4	NO
N238.1	Residential	B	67	1	1	42	45	NA	NA	3	NO
N238.2	Residential	B	67	1	2	44	47	NA	NA	3	NO
N239.1	Residential	B	67	1	1	42	45	NA	NA	3	NO
N239.2	Residential	B	67	1	2	43	47	NA	NA	4	NO
N239.3	Residential	B	67	1	3	45	49	NA	NA	4	NO
N239.4	Residential	B	67	1	4	46	50	NA	NA	4	NO
N240.1	Residential	B	67	1	1	39	44	NA	NA	5	NO
N240.2	Residential	B	67	1	2	41	46	NA	NA	5	NO
N241.1	Residential	B	67	1	1	39	44	NA	NA	5	NO
N241.2	Residential	B	67	1	2	41	46	NA	NA	5	NO
N241.3	Residential	B	67	1	3	43	48	NA	NA	5	NO
N241.4	Residential	B	67	1	4	45	49	NA	NA	4	NO
N242.1	Residential	B	67	1	1	40	44	NA	NA	4	NO
N242.2	Residential	B	67	1	2	42	46	NA	NA	4	NO
N242.3	Residential	B	67	1	3	43	48	NA	NA	5	NO
N242.4	Residential	B	67	1	4	45	50	NA	NA	5	NO
N243.1	Residential	B	67	1	1	51	53	NA	NA	2	NO
N243.2	Residential	B	67	1	2	55	56	NA	NA	1	NO
N243.3	Residential	B	67	1	3	58	58	NA	NA	0	NO
N243.4	Residential	B	67	1	4	59	60	NA	NA	1	NO
N244.1	Residential	B	67	1	1	61	62	61	1	1	NO
N244.2	Residential	B	67	1	2	63	64	63	1	1	NO
N244.3	Residential	B	67	1	3	65	65	64	1	0	NO
N244.4	Residential	B	67	1	4	65	66	64	2	1	YES
N245.1	Residential	B	67	1	1	61	61	60	1	0	NO
N245.2	Residential	B	67	1	2	63	64	63	1	1	NO
N245.3	Residential	B	67	1	3	65	65	64	1	0	NO

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-2: North Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss	(Future No Barrier - Existing)	
N245.4	Residential	B	67	1	4	65	66	64	2	1	YES
N246.1	Residential	B	67	1	1	61	61	58	3	0	NO
N246.2	Residential	B	67	1	2	63	64	62	2	1	NO
N246.3	Residential	B	67	1	3	65	65	63	2	0	NO
N246.4	Residential	B	67	1	4	65	66	64	2	1	YES
N247.1	Residential	B	67	1	1	60	61	58	3	1	NO
N247.2	Residential	B	67	1	2	63	64	62	2	1	NO
N247.3	Residential	B	67	1	3	65	65	64	1	0	NO
N247.4	Residential	B	67	1	4	65	66	64	2	1	YES
N248.1	Residential	B	67	1	1	61	61	58	3	0	NO
N248.2	Residential	B	67	1	2	63	64	62	2	1	NO
N248.3	Residential	B	67	1	3	65	65	64	1	0	NO
N248.4	Residential	B	67	1	4	65	66	64	2	1	YES
N249.1	Residential	B	67	1	1	61	61	59	2	0	NO
N249.2	Residential	B	67	1	2	64	64	62	2	0	NO
N249.3	Residential	B	67	1	3	65	66	64	2	1	YES
N249.4	Residential	B	67	1	4	66	66	64	2	0	YES
N250.1	Residential	B	67	1	1	61	61	59	2	0	NO
N250.2	Residential	B	67	1	2	64	64	63	1	0	NO
N251.1	Residential	B	67	1	1	59	60	58	2	1	NO
N251.2	Residential	B	67	1	2	62	63	60	3	1	NO
N251.3	Residential	B	67	1	3	64	64	62	2	0	NO
N251.4	Residential	B	67	1	4	64	65	63	2	1	NO
N252.1	Residential	B	67	1	1	59	59	58	1	0	NO
N252.2	Residential	B	67	1	2	62	63	60	3	1	NO
N252.3	Residential	B	67	1	3	64	64	62	2	0	NO
N252.4	Residential	B	67	1	4	64	65	63	2	1	NO
N253.1	Residential	B	67	1	1	59	59	58	1	0	NO
N253.2	Residential	B	67	1	2	62	62	60	2	0	NO
N253.3	Residential	B	67	1	3	64	64	62	2	0	NO
N253.4	Residential	B	67	1	4	64	65	63	2	1	NO
N254.1	Residential	B	67	1	1	59	59	58	1	0	NO
N254.2	Residential	B	67	1	2	62	62	60	2	0	NO
N254.3	Residential	B	67	1	3	63	64	62	2	1	NO
N254.4	Residential	B	67	1	4	64	65	63	2	1	NO
N255.1	Residential	B	67	1	1	58	58	58	0	0	NO
N255.2	Residential	B	67	1	2	61	62	60	2	1	NO

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-2: North Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss	(Future No Barrier - Existing)	
N255.3	Residential	B	67	1	3	63	64	62	2	1	NO
N255.4	Residential	B	67	1	4	64	64	63	1	0	NO
N256.1	Residential	B	67	1	1	58	58	58	0	0	NO
N256.2	Residential	B	67	1	2	61	62	60	2	1	NO
N256.3	Residential	B	67	1	3	63	64	62	2	1	NO
N256.4	Residential	B	67	1	4	63	64	63	1	1	NO
N257.1	Residential	B	67	1	1	39	43	NA	NA	4	NO
N257.2	Residential	B	67	1	2	40	45	NA	NA	5	NO
N257.3	Residential	B	67	1	3	42	48	NA	NA	6	NO
N257.4	Residential	B	67	1	4	46	51	NA	NA	5	NO
N258.1	Residential	B	67	1	1	38	41	NA	NA	3	NO
N258.2	Residential	B	67	1	2	38	43	NA	NA	5	NO
N259.1	Residential	B	67	1	1	37	40	NA	NA	3	NO
N259.2	Residential	B	67	1	2	38	41	NA	NA	3	NO
N259.3	Residential	B	67	1	3	40	44	NA	NA	4	NO
N259.4	Residential	B	67	1	4	44	48	NA	NA	4	NO
N260.1	Residential	B	67	1	1	38	38	NA	NA	0	NO
N260.2	Residential	B	67	1	2	39	39	NA	NA	0	NO
N261.1	Residential	B	67	1	1	38	39	NA	NA	1	NO
N261.2	Residential	B	67	1	2	39	39	NA	NA	0	NO
N261.3	Residential	B	67	1	3	40	41	NA	NA	1	NO
N261.4	Residential	B	67	1	4	42	43	NA	NA	1	NO
N262.1	Residential	B	67	1	1	38	39	NA	NA	1	NO
N262.2	Residential	B	67	1	2	39	40	NA	NA	1	NO
N262.3	Residential	B	67	1	3	40	41	NA	NA	1	NO
N262.4	Residential	B	67	1	4	43	43	NA	NA	0	NO
N263.1	Residential	B	67	1	1	46	49	NA	NA	3	NO
N263.2	Residential	B	67	1	2	48	51	NA	NA	3	NO
N263.3	Residential	B	67	1	3	50	53	NA	NA	3	NO
N263.4	Residential	B	67	1	4	52	55	NA	NA	3	NO
N264	Hotel Pool	E	72	1	1	58	59	NA	NA	1	NO
N265	Residential	B	67	1	1	58	59	NA	NA	1	NO
N266	Residential	B	67	1	1	63	63	NA	NA	0	NO
N267	Residential	B	67	1	1	63	63	NA	NA	0	NO
N268	Residential	B	67	1	1	63	63	NA	NA	0	NO
N269	Residential	B	67	1	1	63	63	NA	NA	0	NO
N270	Residential	B	67	1	1	63	63	NA	NA	0	NO

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Table D-2: North Section Noise Barrier Analysis Results by Receiver (continued)

Receiver ID	Noise Abatement Criteria			Receptor Units	Floor	Noise Level dBA Leq(h)					Impact?
							Future Build			Increase	
	Description	Category	Criteria			Existing	No Barrier	With Barrier	Insertion Loss	(Future No Barrier - Existing)	
N271	Residential	B	67	1	1	63	63	NA	NA	0	NO
N272	Residential	B	67	1	1	62	63	NA	NA	1	NO
N273	**Golf course**	**C**	**67**	**1**	**1**	**75**	**75**	**63**	**12**	**0**	**YES**
N274	Golf course	C	67	1	1	66	67	61	6	1	YES
N275	**Golf course**	**C**	**67**	**1**	**1**	**69**	**71**	**63**	**8**	**2**	**YES**
N276	**Campground**	**C**	**67**	**1**	**1**	**71**	**71**	**63**	**8**	**0**	**YES**
N277	**Campground**	**C**	**67**	**1**	**1**	**70**	**70**	**62**	**8**	**0**	**YES**
N278	**Campground**	**C**	**67**	**1**	**1**	**72**	**72**	**63**	**9**	**0**	**YES**
N279	**Campground**	**C**	**67**	**1**	**1**	**69**	**70**	**62**	**8**	**1**	**YES**
N280	**Campground**	**C**	**67**	**1**	**1**	**68**	**70**	**62**	**8**	**2**	**YES**
N281	Cemetery	C	67	1	1	60	64	NA	NA	4	NO
N282	Church	C	67	1	1	41	43	NA	NA	2	NO
N283	Residential	B	67	1	1	64	65	NA	NA	1	NO
N284	Baseball Field	C	67	1	1	65	65	59	6	0	NO
N285	Playground	C	67	1	1	62	63	58	5	1	NO
N286	**Residential**	**B**	**67**	**1**	**1**	**70**	**71**	**60**	**11**	**1**	**YES**
N287	**Residential**	**B**	**67**	**1**	**1**	**71**	**72**	**60**	**12**	**1**	**YES**
N288	**Residential**	**B**	**67**	**1**	**1**	**72**	**72**	**60**	**12**	**0**	**YES**
N289	Residential	B	67	1	1	60	61	55	6	1	NO
N290	**Residential**	**B**	**67**	**1**	**1**	**71**	**72**	**60**	**12**	**1**	**YES**
N291	**Residential**	**B**	**67**	**1**	**1**	**71**	**72**	**60**	**12**	**1**	**YES**
N292	**Residential**	**B**	**67**	**1**	**1**	**70**	**71**	**59**	**12**	**1**	**YES**
N293	**Residential**	**B**	**67**	**1**	**1**	**67**	**67**	**58**	**9**	**0**	**YES**
N294	Residential	B	67	1	1	62	63	56	7	1	NO
N295	**Residential**	**B**	**67**	**1**	**1**	**67**	**67**	**58**	**9**	**0**	**YES**
N296	Residential	B	67	1	1	60	61	55	6	1	NO
N297	Residential	B	67	1	1	60	60	NA	NA	0	NO
N298	Residential	B	67	1	1	62	62	NA	NA	0	NO
N299	Residential	B	67	1	1	62	62	NA	NA	0	NO
N300	Residential	B	67	1	1	62	62	NA	NA	0	NO
N301	**Residential**	**B**	**67**	**1**	**1**	**70**	**70**	**62**	**8**	**0**	**YES**

YES = Impact, NO = No Impact

NA = Not applicable to barrier analysis

Boldface with shading indicates the receiver is benefited with 8 dBA or more noise reduction (insertion loss).

Attachment E. Cost Averaging Tables

Table E-1: Cost Averaging of Eligible Noise Barriers in CNE 1 (South Section):

Barrier Number	Cost per Benefited Receptor	Total Cost[a]	Number of Benefited Receptors	Running Total Cost	Running Total Benefits	Averaged Running Cost per Benefited Receptor	Feasible and Reasonable
S14	$4,519	$2,503,380	554	$2,503,380	554	$4,519	Y
S2	$12,746	$2,918,880	229	$5,422,260	783	$6,925	Y
S3	$25,086	$5,217,870	208	$10,640,130	991	$10,737	Y
S7	$29,580	$2,011,470	68	$12,651,600	1,059	$11,947	Y
S13	$39,556	$1,700,910	43	$14,352,510	1,102	$13,024	Y
S10	$47,933	$6,039,510	126	$20,392,020	1,228	$16,606	Y
S4	$54,476	$1,906,650	35	$22,298,670	1,263	$17,655	Y[b]
S1	$76,066	$2,358,060	31	$24,656,730	1,294	$19,055	Y[b]

[a] Based on $30.00 per square foot

[b] Based on cost averaging of multiple barriers within the common noise environment

Note: Rows below the bolded line are noise barriers that are eligible for cost averaging with a cost per benefited receptor under $100,000. Rows above the bolded line are feasible and reasonable on their own with a cost per benefited receptor under $50,000.

Table E-2: Cost Averaging of Eligible Noise Barriers in CNE 3 (North Section):

Barrier Number	Cost per Benefited Receptor	Total Cost[a]	Number of Benefited Receptors	Running Total Cost	Running Total Benefits	Averaged Running Cost per Benefited Receptor	Feasible and Reasonable
N10	$30,585	$3,241,980	106	$3,241,980	106	$30,585	Y
N8	$35,685	$285,480	8	$3,527,460	114	$30,943	Y
N6	$37,200	$892,800	24	$4,420,260	138	$32,031	Y
N7	$91,360	$1,370,400	15	$5,790,660	153	$37,847	Y[b]

[a] Based on $30.00 per square foot

[b] Based on cost averaging of multiple barriers within the common noise environment

Note: Rows below the bolded line are noise barriers that are eligible for cost averaging with a cost per benefited receptor under $100,000. Rows above the bolded line are feasible and reasonable on their own with a cost per benefited receptor under $50,000.