

NOISE IMPACT ANALYSIS

I-65/I-465 SOUTH INTERCHANGE MODIFICATION

INDOT DES #0902297

MARION COUNTY, INDIANA

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TABLE OF CONTENTS

	EXECUTIVE SUMMARY	1
1.0	INTRODUCTION	4
1.1	EXISTING CONDITIONS	
1.2	PROJECT DESCRIPTION	
2.0	METHODOLOGY.....	7
2.1	DETERMINATION OF EXISTING TRAFFIC NOISE LEVELS	
2.2	PREDICTION OF FUTURE TRAFFIC NOISE LEVELS	
2.3	IDENTIFICATION OF IMPACTED RECEPTORS	
2.4	ABATEMENT CONSIDERATIONS	
2.5	AGENCY CORRESPONDENCE	
2.6	PUBLIC INVOLVEMENT	
3.0	TRAFFIC NOISE LEVELS	10
3.1	EXISTING CONDITIONS	
3.2	PREDICTED NOISE LEVELS	
4.0	NOISE ABATMENT CONSIDERATIONS.....	12
4.1	NOISE BARRIER LOCATIONS	
4.2	NOISE ABATEMENT RESULTS	
5.0	FINDINGS.....	15
5.1	AGENCY CORRESPONDENCE	
5.2	FEASIBILITY AND REASONABLENESS	
5.3	PUBLIC INVOLVEMENT	
5.4	OUTREACH TO LOCAL GOVERNMENT OFFICIALS	
5.5	CONSTRUCTION NOISE	
6.0	RECOMMENDATIONS	17

EXHIBITS

APPENDICES

APPENDIX A:	RECEPTOR ADDRESSES
APPENDIX B:	TRAFFIC FORECAST
APPENDIX C:	FHWA-TNM MODELING DATA
	C-1 SOUND LEVEL RESULTS
	C-2 NOISE BARRIER EVALUATION
APPENDIX D:	PUBLIC INVOLVEMENT
	LETTER
	RESPONSES
APPENDIX E:	FIELD LOG

EXECUTIVE SUMMARY

The Indiana Department of Transportation (INDOT) proposes to improve the I-65/I-465 Interchange in southeastern Indianapolis, Indiana (Marion County). The project scope includes the following improvements:

- Addition of a travel lane on I-65 SB between I-465 and Gray Rd
- Addition of travel lanes on I-465 EB and WB between 9th Ave and I-65
- Addition of a lane on the N-E ramp
- Building a new 40 mph W-S “flyover” ramp
- Addition of a northbound auxiliary lane on I-65 between I-465 and Southport Road

Based on criteria of the FHWA and INDOT, the proposed project is a Type I Project because the above improvements involve increasing the number of through traffic lanes. Therefore, in accordance with 23 CFR Part 772-*Procedures for Abatement of Highway Noise* and the INDOT Traffic Noise Policy approved by the Federal Highway Administration effective July 13, 2011, a noise impact analysis is required.

The noise impacts from the first four bullet points listed above were examined as part of the original noise analysis, which was approved in June, 2012. As part of the supplemental noise impact analysis, approved in October, 2012, the impacts from the last bullet point listed above were added to the original noise study. This final report combines the findings from the previous analyses, and includes receptors that were added to the analysis due to the revision of the noise analysis boundary area near the interchange of I-65 and I-465. Receptors within 500 feet of I-65 and I-465 (in both directions) were identified and modeled with Federal Highway Administration Traffic Noise Model version 2.5 (FHWA-TNM) using traffic data provided in the Traffic Forecast (revised September 2011) for the proposed project. Receptors identified within 500 feet of the proposed edges of outside travel lanes are listed in Appendix A to this report.

FHWA-TNM generates noise levels at each modeled receptor based on roadway configuration, traffic volume, vehicle speeds and distance from the edge of the outside travel lane (receptor location). Existing noise levels were generated based on current traffic volumes (2011) and the existing roadway alignment. Future noise levels were generated based on traffic volumes for design year (2032) and the preferred alternative for the proposed project.

If future noise impacts are anticipated to occur at a receptor, abatement of traffic noise impacts are evaluated to accomplish specific noise reduction level goals. The goal of abatement is to provide a substantial noise reduction level to a majority (greater than 50%) of the benefited first row receptors. INDOT defines substantial noise reduction as at least 7 dB(A). First row receptors are receptors that do not have other receptors between them and the roadway.

Noise abatement incorporated in Type I Projects must be both feasible and reasonable. INDOT considers noise abatement feasible if a majority (greater than 50%) of impacted receptors achieve at least 5 dBA noise reduction in the design year. Noise abatement reasonableness is primarily based on the cost effectiveness of constructing the prescribed noise barrier per benefited receptor. INDOT considers noise abatement reasonable if the cost of noise barrier construction is \$25,000 or less per benefited receptor. Public feedback may also be required in order to determine abatement reasonableness.

Based on the results of the final design noise impact analysis six hundred seventy four (674) receptors are located within 500 feet along the project alignment. Four hundred eighty three (483) of the identified receptors are predicted to experience noise impacts in design year (2032). Impacted receptors are in the Exhibits to this report.

Eleven (11) proposed noise barrier walls were modeled along the project alignment. Based on the studies completed to date, noise abatement is feasible and reasonable (based on cost effectiveness) along portions of I-465 EB, I-465 WB, and portions of I-65 NB and I-65 SB. These preliminary indications of likely abatement measures are based upon the preliminary design for Noise Barrier Walls I-465 EB, I-465 WB, I-65 NB2, I-65 NB3, I-65 NB4 (North of Gray Rd), and I-65 SB3.

Wall I-465 EB* ranges in height from 12 to 14 feet and is 3,550 feet in length at an estimated cost of \$18,900 per benefited receptor. Wall I-465 EB will provide at least 7 dBA noise reduction to 51.2% of impacted first row receptors and provide an average noise reduction of greater than 5.0 dBA to benefited receptors.

Wall I-465 WB* ranges in height from 13 to 14 feet and is 4,300 feet in length at an estimated cost of \$12,167 per benefited receptor. Wall I-465 WB will provide at least 7 dBA noise reduction to 62.7% of impacted first row receptors and provide an average noise reduction of greater than 5.0 dBA to benefited receptors.

Wall I-65 NB2 ranges in height from 13 to 14 feet and is 1,550 feet in length at an estimated cost of \$21,698 per benefited receptor. Wall I-65 NB2 will provide at least 7 dBA noise reduction to 100% of impacted first row receptors and provide an average noise reduction of greater than 5.0 dBA to benefited receptors.

Wall I-65 NB3 ranges in height from 12 to 13 feet and is 1,875 feet in length, at an estimated cost of \$20,978 per benefited receptor. Wall I-65 NB3 will provide at least 7 dBA noise reduction to 66.7% of impacted first row receptors and provide an average noise reduction of greater than 5.0 dBA to benefited receptors.

Wall I-65 NB4 (North of Gray Rd) ranges in height from 12 to 16 feet and is 2,700 feet in length at an estimated cost of \$21,600 per benefited receptor. Wall I-65 NB4 (North of Gray Rd) will provide at least 7 dBA noise reduction to 95.7% of impacted first row receptors and provide an average noise reduction of greater than 5.0 dBA to benefited receptors.

Wall I-65 SB3 ranges in height from 13 to 16 feet and is 3,000 feet in length at an estimated cost of \$23,182 per benefited receptor. Wall I-65 SB3 will provide at least 7 dBA noise reduction to 95.2% of impacted first row receptors and provide an average noise reduction of greater than 5.0 dBA to benefited receptors.

Noise abatement is not reasonable for the remaining noise barriers due to barrier costs exceeding \$25,000 per benefited receptor.

*Changes to Wall I-465 WB and Wall I-465 EB occurred during final design. Existing topography and grades along I-465 near Sherman Ave. are such that a retaining wall needs to be constructed to allow room for the improvements within the allotted right-of-way. Because retaining walls act as noise barriers, a portion of the proposed noise barrier walls can be eliminated from the project.

Table 1: Noise Barrier Analysis

Barrier Name	Min. Height (ft)	Max. Height (ft)	Total length (ft)	¹ Estimated Total Cost (\$)	² Benefited Receptors	Estimated Cost per Benefited Receptors
I-465 EB	12	14	3,550	\$1,323,000	70	\$18,900
I-465 WB	13	14	4,300	\$1,679,100	138	\$12,167
I-65 NB1	15	19	2,875	\$1,491,750	23	\$64,859
I-65 NB2	13	14	1,550	\$629,250	29	\$21,698
I-65 NB3	12	13	1,875	\$713,250	34	\$20,978
I-65 NB4 (North of Gray Rd)	12	16	2,700	\$1,188,000	55	\$21,600
I-65 NB4 (South of Gray Rd)	16	18	1,500	\$795,000	20	\$39,750
I-65 SB1	15	20	2,600	\$1,366,500	18	\$75,917
I-65 SB2	14	17	2,000	\$954,000	4	\$238,500
I-65 SB3	13	16	3,000	\$1,275,000	55	\$23,182
Ramp N-E	20	20	1,776	\$1,065,600	14	\$76,114

Notes:

1. Cost is based on \$30 per square foot.
2. Reduction of 5 dBA or more.

1.0 INTRODUCTION

This investigation analyzes anticipated noise impacts generated by increased traffic volume due to the addition of travel lanes along I-65 and I-465 in southeastern Indianapolis, Indiana (Marion County). Based on criteria of the Federal Highway Administration (FHWA) and Indiana Department of Transportation (INDOT), the proposed project is a Type I Project because it increases the number of through-traffic lanes to the existing roadway. Therefore, FHWA requires a complete noise impact analysis before proceeding with the project.

The purpose of the noise impact analysis is to predict future noise level, identify potential impacted receptors and evaluate noise abatement measures in (if applicable) areas that show potential noise impacts as a result of the proposed project. Noise (unwanted sound) as perceived by the human ear, is the result of the sound pressure exerted on the eardrum. Sound pressure is the sensory mechanism by which the human ear perceives loudness. As sound pressure reduces, loudness (as perceived by the ear) decreases.

In accordance with 23 CFR Part 772 Procedures for Abatement of Highway Noise and the INDOT Traffic Noise Policy, the objectives of the study were achieved by performing the following tasks:

1. Measuring existing noise levels at representative locations using the Quest 2900 Sound Level Meter,
2. Estimating existing noise levels using the FHWA Traffic Noise Model version 2.5 (TNM) based on measured traffic volumes,
3. Identifying impacted receptors based on FHWA Noise Abatement Criteria (NAC),
4. Assessing traffic noise mitigation measures (single sided roadway barriers) in TNM to anticipate noise reduction levels for identified impacted receptors, and
5. Evaluating whether proposed abatement measures are both feasible and reasonable.

1.1 EXISTING CONDITIONS

Current roadway configuration along I-65 consists of a six-lane interstate roadway with 12' lanes, and 10' paved (11' usable) outside shoulders. South of Thompson Rd, the inside paved shoulders are 4' wide as part of a 36' grass median. North of Thompson Rd through the interchange, the inside shoulders are 13'-6" wide as part of a 27' paved median with a concrete median barrier (CMB). Posted speeds evolve from 65 mph at Southport Rd to 55 mph at I-465.

I-465 is a six-lane interstate roadway with 12' lanes, and 10' paved (11' usable) outside shoulders. The speed limit is posted at 55 mph. Within the subject interchange, the inside shoulders are 10' paved (11' usable) with a wide, variable grass median to contain the left-hand ramp merges (N-W and S-E, or Ramps J and L). Between Sherman Drive and 9th St, the inside shoulders are 17' wide as part of 36' paved median with CMB.

The basic interchange type is a modified cloverleaf with two left-hand-entering semi-directional ramps (to I-465). All ramps that are to accomplish the eight basic turning movements of the interchange are single-lane, and no skew exits with one route in respect to another. Land uses in the project area include residential, commercial, and undeveloped.

FHWA identifies four Noise Abatement Criteria (NAC) categories based on exterior land use activities with the exception of one category. This activity category compares interior noise levels to abatement criterion. Each land use category has an assigned noise level above which abatement is required. See Table 1-1 for a description of NAC Activity Categories and criteria levels. Based on the FHWA NAC, land use in the project area are associated with Activity Categories B, C and E.

Table 1-1: FHWA Noise Abatement Criteria in dBA

Activity Category	NAC	Activity Description
A	57 (Exterior)	Lands on which serenity and quiet are of extraordinary significance and serve an important public need and where preservation of those qualities is essential if the area is to continue to serve its intended purpose.
B	67 (Exterior)	Residential.
C	67 (Exterior)	Active sport areas, amphitheaters, auditoriums, campgrounds, cemeteries, day care centers, hospitals, libraries, medical facilities, parks, picnic areas, places of worship, playgrounds, public meeting rooms, public or nonprofit institutional structures, radio studios, recording studios, recreation areas, Section 4(f) sites, schools, television studios, and trail crossings.
D	52 (Interior)	Auditoriums, day care centers, hospitals, libraries, medical facilities, places of worship, public meeting rooms, public or nonprofit institutional structures, radio stations, recording studios, schools, and television studios.
E	72 (Exterior)	Hotels, motels, offices, restaurant/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.

Total number of receptors (a location where noise impacts are measured or modeled) identified within 500 feet of the outside travel lane along I-65 NB and SB, and I-465 EB and WB are listed below in Table 1-2 according to the associated NAC categorical classification. A single family residence, a commercial building or farm house are each considered as one receptor. Similarly, each unit within a hotel or apartment building is considered one (1) receptor. Receptors identified within the study area are listed in Appendix A.

Table 1-2: Receptors per FHWA Activity Category

FHWA Activity Category	Number of Receptors
A	0
B	648
C	9
D	0
E	17
F	0
G	0

1.2 PROJECT DESCRIPTION

The project scope includes the following improvements:

- Addition of a travel lane on I-65 SB between I-465 and Gray Rd
- Addition of travel lanes on I-465 EB and WB between 9th Ave and I-65
- Addition of a lane on the N-E ramp
- Building a new 40 mph W-S “flyover” ramp
- Addition of a northbound auxiliary lane on I-65 between I-465 and Southport Road

2.0 METHODOLOGY

The noise impact analysis includes: determination of existing noise levels, future noise level for the specified design year, identification of impacted receptors and noise abatement consideration if applicable.

The FHWA Traffic Noise Model version 2.5 (FHWA-TNM) is used to conduct the noise impact analysis. All models are inherently limited and do not fully represent real world conditions. Numerical noise models are a simplification of actual physical conditions. All model results are affected by numerical approximation used to solve the noise equations, modeled area, and the availability and the accuracy of data used to define receptors, traffic, etc. Limitations of the noise model for this project were based on the availability and reliability of traffic data, roadway characteristics, receptor locations and barrier design options.

AECOM provided a traffic forecast, dated September, 2011, that included AM and PM AADT traffic volumes, % DHV, and % commercial traffic along each roadway segment associated with the proposed project. Traffic data for years 2011, 2012, 2017, 2022 and 2032 is available for this analysis. For purposes of this study, 2032 is the design year. For the noise analysis, AM peak DHV traffic was analyzed for the majority of the study area; however, PM peak DHV traffic was analyzed for the areas adjacent to I-65 SB travel lanes. Traffic was distributed across each travel lane. Traffic data for this project is in Appendix B to this report.

Emerson Ave, 9th Ave, Sherman, Thompson, Edgewood, and Southport Rd are roadways within the noise study area; however, these roadways were not modeled as part of this study. Noise from these roadways has little to no impact on total noise to nearby receptors in comparison to I-65 and I-465. Noise levels generated by vehicles along I-65 and I-465 are significantly higher than noise levels along the secondary roadways.

2.1 Determination of Existing Noise Levels

Shrewsberry selected twelve (12) representative monitoring locations along the project alignment to measure existing noise levels at representative receptors. The criteria for selecting monitoring locations include, but were not limited to, existing land use, accessibility for purposes of conducting field measurements, and estimated distance from the edge of the roadway.

Existing noise levels at representative receptors were measured utilizing the Quest 2900 sound level meter. Noise levels were recorded for 5 minutes or 15 minutes, depending on the significance of each selected monitoring location. Data was gathered between 9am and 3pm on June 17, 2011. See Appendix E for approximate monitoring locations.

Next, existing noise levels for each identified receptor within 500 feet of the proposed alignment were modeled based on input parameters such as traffic volume for automobiles and heavy trucks (2011) and traffic speed using FHWA-TNM. Output from the FHWA-TNM existing model is included in Appendix C.

2.2 Prediction of Future Noise Levels

Future noise levels for each receptor within 500 feet of the outside travel lane were predicted using the FHWA-TNM software. Output from the FHWA-TNM proposed model is included in Appendix C.

2.3 Identification of Impacted Receptors

In accordance with the INDOT Traffic Noise Policy, the determination of noise impacts is associated with NAC Activity Category criterion level and/or substantial increases to the noise level. FHWA-TNM generated noise levels for each identified receptor are compared to the appropriate NAC level. The software also evaluates the increase in the noise level at each receptor. An affected receptor is classified as “impacted” if either of the two following conditions is met:

1. Predicted noise level approaches (within 1 dBA) or exceeds the applicable NAC, or
2. Predicted noise level substantially exceeds the existing noise level by at least 15 dBA.

2.4 Abatement Considerations

Once noise impacts are identified, noise abatement measures are considered in areas where receptors experienced noise impacts. Due to limitations on INDOT’s ability to acquire property for mitigation or to mitigate sites off of State Right-of-Way, the most common form of abatement is the construction of noise barriers. These barriers include Type 1 noise barrier walls (single sided absorptive roadway side), and Type 3 noise barrier walls (reflective). Noise barrier incorporated in Type 1 Projects must be both feasible and reasonable.

The feasibility analysis determines whether a particular form of abatement will reduce noise levels at a receptor. This assessment is based on engineering considerations such as type of abatement material, topography, drainage, safety and access/maintenance needs. Selected noise abatement options must benefit (at least 5 dBA reduction) the majority (greater than 50%) of impacted receptors in the design year, compared to the average non-abatement levels.

Abatement measures reasonableness considers noise abatement cost, the noise reduction design goal, and public input. Noise barrier cost effectiveness is determined based on the estimated construction cost and the total number of benefited receptors. Per INDOT’s noise policy, the estimated cost of constructing a noise barrier will be divided among the number of benefited receptors. A cost of \$25,000 or less per benefited receptor is currently considered to be cost-effective. Due to increased unit cost associated with barrier height, INDOT does not consider noise barriers in excess of 20 feet in height cost effective. The design goal for substantial noise reduction is to provide at least 7 dBA for a majority (greater than 50%) of the impacted first row receptors. A first row receptor is defined as a receptor that is directly adjacent to the roadway with nothing between the receptor and the road.

The public involvement process is discussed below in Section 2.6.

2.5 Agency Correspondence

FHWA regulations require that a noise analysis include undeveloped land that is “planned, designed and programmed”. INDOT defines undeveloped land as planned, designed and programmed if building

permits have been issued for construction by local authorities. If no zoning or building permit process is in place the land is considered undeveloped unless foundations for new construction are in place. For land where construction is not visible, those who build adjacent to a highway are presumed to understand and accept the possibility of traffic noise.

At the time of this report drafting, no development within the project area is planned.

2.6 Public Involvement

A survey is sent to property owners affected by noise barriers found to be both feasible and cost effective. Property owners are surveyed to determine whether they do or do not want noise abatement. INDOT requires that a majority (greater than 50%) of benefited property owners respond by the due date or a second attempt will be made to solicit the views of those who did not respond. No third attempt will be made if a majority does not respond. For apartment complexes and hotels, the decision as to whether a barrier is desired rests with property owners rather than occupants.

The majority of benefited property owners must state that they want a barrier constructed for it to be considered reasonable. If the majority of benefited receptors do not respond affirmatively or do not respond after the second attempt, then INDOT will base their decision on survey responses they received even though a majority of responses was not received.

3.0 TRAFFIC NOISE LEVELS

3.1 Existing Noise Levels

In accordance with the INDOT Traffic Noise Policy, existing noise levels were measured at representative monitoring locations. Shrewsberry measured existing noise level at twelve (12) representative locations along the project length. See Appendix E for the approximate locations of the representative locations.

Data presented in Table 3-1 shows field measured noise levels as well as modeled noise levels using FHWA-TNM.

Table 3-1: Field-Measured Existing Noise Levels

Site Name	Noise Level Measured (dBA)	Noise Level Modeled (dBA)	Difference (+/-) (dBA)
1	78.3	78.8	+0.5
2	67.6	76.6	+9.0
3	65.4	70.5	+5.1
4	68.0	70.4	+2.4
5	76.5	75.2	-1.3
6	85.1	79.1	-6.0
7	70.9	70.3	-0.6
8	86.4	76.5	-9.9
9	89.6	82.6	-7.0
10	74.7	76.2	+1.5
11	82.8	76.8	-6.0
12	85.0	73.9	-11.1

Some of the modeled vs. measured levels are off by more than 3 dbA (Location #2, #3, #6, #8, #9, #11 and #12). Location #2 was measured behind a wooden privacy fence, and the line-of-sight to the traffic along I-65 NB was completely blocked. This could explain the difference of 9 dbA between the measured and modeled noise level. Location #3 measured vs. modeled is off by slightly more than 5 dbA, most likely due to vegetation and a house located between the measurement location and I-65 NB. Location #6 has a measured vs. modeled difference of 6 dbA. The measurement location was next to a berm, which may have reflected noise back towards the noise level meter, causing higher levels than what was modeled. Measurement location #8 has a measured vs. modeled difference in noise level by nearly 10 dbA. Because traffic could not be counted from this location, it is possible that heavy truck traffic during the measurement caused a higher noise level than what was modeled. Location #9 had a measured vs. modeled difference of 7 dbA. An existing berm at location #9 (similar to location #6), most likely reflected noise back towards the noise level meter, causing a higher level than what was modeled. Measurement location #11 had a difference in measured vs. modeled noise levels of 6 dbA. The measurement location was adjacent to an existing concrete block privacy wall, which may have reflected noise back to the meter, causing a higher measurement than what was modeled with FHWA-TNM. Measurement location #12 had a difference of over 10 dbA between the measured and modeled noise

level. Additional noise from acceleration of vehicles along the ramp could be the cause of the measured noise level being significantly higher than the modeled noise.

Although not all of the measured noise levels were within 3 dBA of the model, due to the various reasons mentioned above, the analyst was able to determine that the model is valid by making certain that the discrepancies between the measured and modeled noise levels were not due to data entry errors in the model.

In addition to the above field monitoring locations, FHWA-TNM was utilized to estimate existing noise levels for all receptors identified within 500 feet of the edge of pavement along the project alignment. FHWA-TNM generated noise levels at each modeled receptor based on roadway configuration, traffic volume, vehicle speeds and distance from the outside travel lane (receptor location). Existing sound level results are provided in Appendix C to this report.

3.2 Predicted Noise Levels

FHWA-TNM was used to estimate future noise levels for identified receptors. Future noise levels were generated based on traffic volumes for design year (2032) and the preferred alternative for the proposed project.

Data provided in Appendix C shows several receptors along the proposed alignment that will experience noise impacts in design year (2032). Receptors can be impacted by approaching (coming within 1 dBA) or exceeding the applicable NAC, or by experiencing a 15 dBA or greater increase in noise level compared to the existing noise level. A receptor can also experience both types of impact. In this study, each impacted receptor was due to the applicable NAC being approached or exceeded. No receptor will experience a substantial increase in noise by greater than 15 dBA as compared to existing noise levels.

In an effort to reduce noise impacts, noise abatement measures were evaluated. INDOT requires that abatement measures be both feasible and reasonable. Noise abatement measures are discussed below in Section 4.0.

4.0 NOISE ABATEMENT CONSIDERATIONS

Noise barriers reduce overall traffic noise to nearby receptors. Type 1 noise barrier walls (single sided absorptive roadway side) are the most common noise abatement measure used in the industry and were selected for this project. Absorbing noise barriers mitigate noise impacts by reducing the reflection of sound waves from the noise sources and thereby improving noise degradation. A noise reduction coefficient (NRC) number associated with a particular type of sound absorbing material establishes the amount of sound energy absorbed on striking a material. The higher the NRC rating, the more efficient the product is at reducing noise levels. INDOT requires a NRC of 0.70 to be used on the roadway side of the noise barrier.

4.1 Noise Barrier Locations

Type 1 noise barrier walls were selected as the method of abatement for the proposed project. Noise barrier wall analysis was conducted with the design goal to substantially reduce noise levels to impacted first row receptors in areas where receptors experienced noise impacts. Noise barriers were modeled with a 0.7 noise reduction coefficient on the roadside. Proposed noise barrier locations are shown in the Exhibits. Noise barrier descriptions are provided below in Table 4-1.

Table 4-1: Noise Barrier Descriptions

Barrier Name	Minimum Height (ft)	Maximum Height (ft)	Total Length (ft)
I-465 EB	12	14	3,550
I-465 WB	13	14	4,300
I-65 NB1	15	19	2,875
I-65 NB2	13	14	1,550
I-65 NB3	12	13	1,875
I-65 NB4 (North of Gray Rd)	12	16	2,700
I-65 NB4 (South of Gray Rd)	16	18	1,500
I-65 SB1	15	20	2,600
I-65 SB2	14	17	2,000
I-65 SB3	13	16	3,000
Ramp N-E	20	20	1,776

4.2 Noise Abatement Results

Eleven (11) proposed noise barriers were modeled as described above in Section 4.1. For a noise barrier to be considered feasible, the noise level reduction goal (5 dbA) must be met for a majority of the impacted receptors and must be feasible from an engineering standpoint, which takes into account things such as topography, drainage, safety, barrier height, utilities, and access/maintenance needs.

For noise barriers to be reasonable, the Indiana noise level reduction design goal (at least 7 dBA to more than 50% of impacted first row receptors) must be achieved, the barrier must be cost effective, and the public input must be taken into consideration. Each barrier achieved the Indiana noise level reduction design goal with the exception of Ramp N-E, I-65 NB1 and I-65 SB1. Cost for each noise barrier was

analyzed. For noise barriers to be considered cost effective, the price per benefited receptor must be less than \$25,000. Cost is summarized for each barrier in Table 4-2 below. Barriers Ramp N-E, I-65 NB1, I-65 NB4 (South of Gray Rd), I-65 SB1, and I-65 SB2 were not found to be cost effective.

Table 4-2: Cost Analysis

Barrier Name	¹ Estimated Total Cost (\$)	² Benefited Receptors	Estimated Cost per Benefited Receptors
I-465 EB	\$1,323,000	70	\$18,900
I-465 WB	\$1,679,100	138	\$12,167
I-65 NB1	\$1,491,750	23	\$64,859
I-65 NB2	\$629,250	29	\$21,698
I-65 NB3	\$713,250	34	\$20,978
I-65 NB4 (North of Gray Rd)	\$1,188,000	55	\$21,600
I-65 NB4 (South of Gray Rd)	\$795,000	20	\$39,750
I-65 SB1	\$1,366,500	18	\$75,917
I-65 SB2	\$954,000	4	\$238,500
I-65 SB3	\$1,275,000	55	\$23,182
Ramp N-E	\$1,065,600	14	\$76,114

Notes:

1. Cost is based on \$30 per square foot.
2. Reduction of 5 dBA or more.

Based on the analysis of noise reduction and cost, Walls I-465 EB, I-465 WB, I-65 NB2, I-65 NB3, I-65 NB4 (North of Gray Rd), and I-65 SB3 are all feasible and reasonable, and descriptions for those walls are provided below.

Wall I-465 EB is located on the south side of I-465 and begins at approximately station 507+50 and ends near station 543+00 (along the exit ramp to Emerson Ave), for a total length of approximately 3,550 ft. Between station 507+50 and 515+00, the wall height is 14 ft above the outside shoulder elevation. Between station 515+00 and station 542+95, the wall is 12 ft above the outside shoulder elevation. All of the noise wall will be ground mounted, with the exception of the bridge over 9th Avenue, where it will be mounted on bridge rail. The estimate cost per benefited receptor is \$18,900. Wall I-465 EB will provide at least 7 dBA noise reduction to 51.2% of impacted first row receptors and provide an average noise reduction of greater than 5.0 dBA to benefited receptors.

Wall I-465 WB is located on the north side of I-465 and begins approximately 1,200 feet east of Sherman Dr. at approximately station 508+05 and ends near station 550+75 (along the entrance ramp from Emerson Ave), for a total length of approximately 4,300 ft. Between station 508+05 and 508+75, the wall height is 14 ft above the outside shoulder elevation. Between station 508+75 and 550+75 the noise wall height is 13 ft above the outside shoulder elevation. The noise wall will be ground mounted, with the exception of the bridge over 9th Avenue, in which case the wall will be mounted on bridge rail. Also, a portion of wall along the Emerson Ave. entrance ramp will be installed on existing traffic barrier, from station 534+50 to station 541+20. The wall is an estimated cost of \$12,167 per benefited receptor. Wall

I-465 WB will provide at least 7 dBA noise reduction to 62.7% of impacted first row receptors and provide an average noise reduction of greater than 5.0 dBA to benefited receptors.

Wall I-65 NB2 is located on the east side of I-65 between Edgewood Ave. and Thompson Rd. Wall I-65 NB2 begins at approximately station 1492+75 and ends near station 1508+25, for a total length of 1,550 feet. Between station 1492+75 and 1500+00, the wall height is 13 feet above the outside shoulder elevation. Between station 1500+00 and 1508+25, the wall height is 14 feet above the outside shoulder elevation. The wall is ground mounted for the entire length of the wall. Wall I-65 NB2 is an estimated cost of \$21,698 per benefited receptor. Wall I-65 NB2 will provide at least 7 dBA noise reduction to 100% of impacted first row receptors and provide an average noise reduction of greater than 5.0 dBA to benefited receptors.

Wall I-65 NB3 is located on the east side of I-65 and begins just south of Edgewood Ave. and connects to the south end of Wall I-65 NB2. The wall will stop at both sides of the bridge abutment for the Edgewood Ave. overpass. From approximately station 1474+00 to the south side of Edgewood Ave. the wall is 12 feet above the outside shoulder elevation. From the north side of Edgewood Ave. to approximately station 1492+75 the wall is 13 feet above the outside shoulder elevation. The entire length of the wall will be ground mounted. The wall is an estimated cost of \$20,978 per benefited receptor. Wall I-65 NB3 will provide at least 7 dBA noise reduction to 66.7% of impacted first row receptors and provide an average noise reduction of greater than 5.0 dBA to benefited receptors.

Wall I-65 NB4 is located on the east side of I-65 and begins just north of Gray Rd. and connects to the south end of Wall I-65 NB3 at station 1474+00. Wall I-65 NB4 (North of Gray Rd) ranges in height from 12 to 16 feet above the outside shoulder elevation and is 2,700 feet in length at an estimated cost of \$21,600 per benefited receptor. Wall I-65 NB4 (North of Gray Rd) will provide at least 7 dBA noise reduction to 95.7% of impacted first row receptors and provide an average noise reduction of greater than 5.0 dBA to benefited receptors.

Wall I-65 SB3 is located on the west side of I-65 and begins just north of Edgewood Ave. and extends to station 1510+00, for a total length of approximately 3,000 feet. The wall ranges in height from 13 to 16 feet above the outside shoulder elevation and an estimated cost of \$23,182 per benefited receptor. Wall I-65 SB3 will provide at least 7 dBA noise reduction to 95.2% of impacted first row receptors and provide an average noise reduction of greater than 5.0 dBA to benefited receptors.

5.0 FINDINGS

5.1 Agency Correspondence

At the time of this report writing, no city or county agencies have been contacted to determine if any developments are planned within the project study area. The results of this noise study should be shared with local development agencies for their use in appropriate land use planning adjacent to this study area.

5.2 Feasibility and Reasonableness

Based on the studies completed to date, noise abatement is feasible and reasonable (cost-effective and meets noise reduction design goal) along portions of the project. These preliminary indications of likely abatement measures are based upon the preliminary design for Noise Barrier Walls I-465 EB, I-465 WB, I-65 NB2, I-65 NB3, I-65 NB4 (North of Gray Rd) and I-65 SB3.

Noise abatement is not reasonable for the remaining noise barriers (Ramp N-E, I-65 NB1, I-65 NB4 South of Gray Rd, I-65 SB1, and I-65 SB2) due to barrier costs exceeding \$25,000 per benefited receptor. Also, Noise Barrier Walls Ramp N-E, I-65 NB1 and I-65 SB1 do not meet the Indiana noise reduction design goals.

5.3 Public Involvement

A survey was sent to noise-impacted property owners benefited by the noise barriers found to be both feasible and reasonable (I-465 EB, I-465 WB, I-65 NB2, I-65 NB3, I-65 NB4 (North of Gray Rd), and I-65 SB3). The property owners were surveyed to determine whether they “do” or “do not” want the proposed noise abatement in their area. INDOT requires that a majority (50% +1) of property owners respond.

The public outreach for the original noise analysis consisted of a letter and survey that was mailed on March 14, 2012 as well as a public hearing that was conducted on April 10, 2012. For the March 14 mailing, one hundred seventy four (174) surveys were mailed to the benefited receptors of Wall I-465 EB, I-465 WB, and I-65 NB3. Ninety-nine (99) replies were received. Of the 99 responses received, 96 property owners are in favor of the proposed noise walls, and 3 responses were not in favor.

For the supplemental noise analysis, which examined the noise impacts and abatement for the added I-65 NB travel lane, a total of 127 surveys were mailed on August 31, 2012 to receptors benefited by Walls I-65 NB2, I-65 NB3, I-65 NB4 (North of Gray Rd), and I-65 SB3. Out of the 127 surveys mailed, 23 were returned as undeliverable and 64 responses were received, of which 62 responses were in favor of noise barrier walls and 2 responses were not in favor. In addition, a public information meeting was held on October 1, 2012, during which many residents in the area expressed a need for noise barrier walls along I-65 south of the I-65/I-465 interchange.

The public notice letters and survey responses are provided in Appendix D to this report.

5.4 Outreach to Local Government Officials

Upon completion of the environmental document phase, the noise study will be provided directly to the Indianapolis and Marion County Department of Metropolitan Development. INDOT understands that it is in a unique position to provide outreach to local government and county planning units. INDOT also understands that it is the local government that has the power to regulate land development. INDOT is willing to help the local government by providing expert guidance on noise-related issues. This can include recommendations on setbacks, how to interpret noise studies that have been provided for FHWA projects, and other general noise concerns so that noise impacts are minimized for areas that are being developed.

5.4 Construction Noise

In addition to noise from traffic, construction activities themselves can produce increased noise of a temporary nature. INDOT will be sensitive to local needs and may make adjustments to work practices in order to reduce inconvenience to the public.

6.0 RECOMMENDATIONS

Shrewsberry conducted the noise impact analysis for the I-65/I-465 interchange Interim Modification project in Marion County, Indiana. Based on the results of this noise impact analysis and public involvement, Shrewsberry recommends construction of Type 1 (single sided adsorptive roadside) noise barrier walls to reduce noise impacts along portions of I-465 Eastbound and Westbound between I-65 and Emerson Avenue and along portions of I-65 Northbound and Southbound between Southport Road and I-465. The remaining locations evaluated do not meet either the feasible or reasonable criteria, or both.

Statement of Likelihood:

Based on the studies completed to date, the State of Indiana has identified 483 impacted receptors and has determined that noise abatement is likely, but not guaranteed, at 6 locations. Noise abatement at these locations is based upon preliminary design costs and design criteria. Noise abatement in these locations at this time has been estimated to cost \$6,807,600 and will reduce the noise level by a minimum of 5 dB(A) at a majority of the identified impacted receptors.

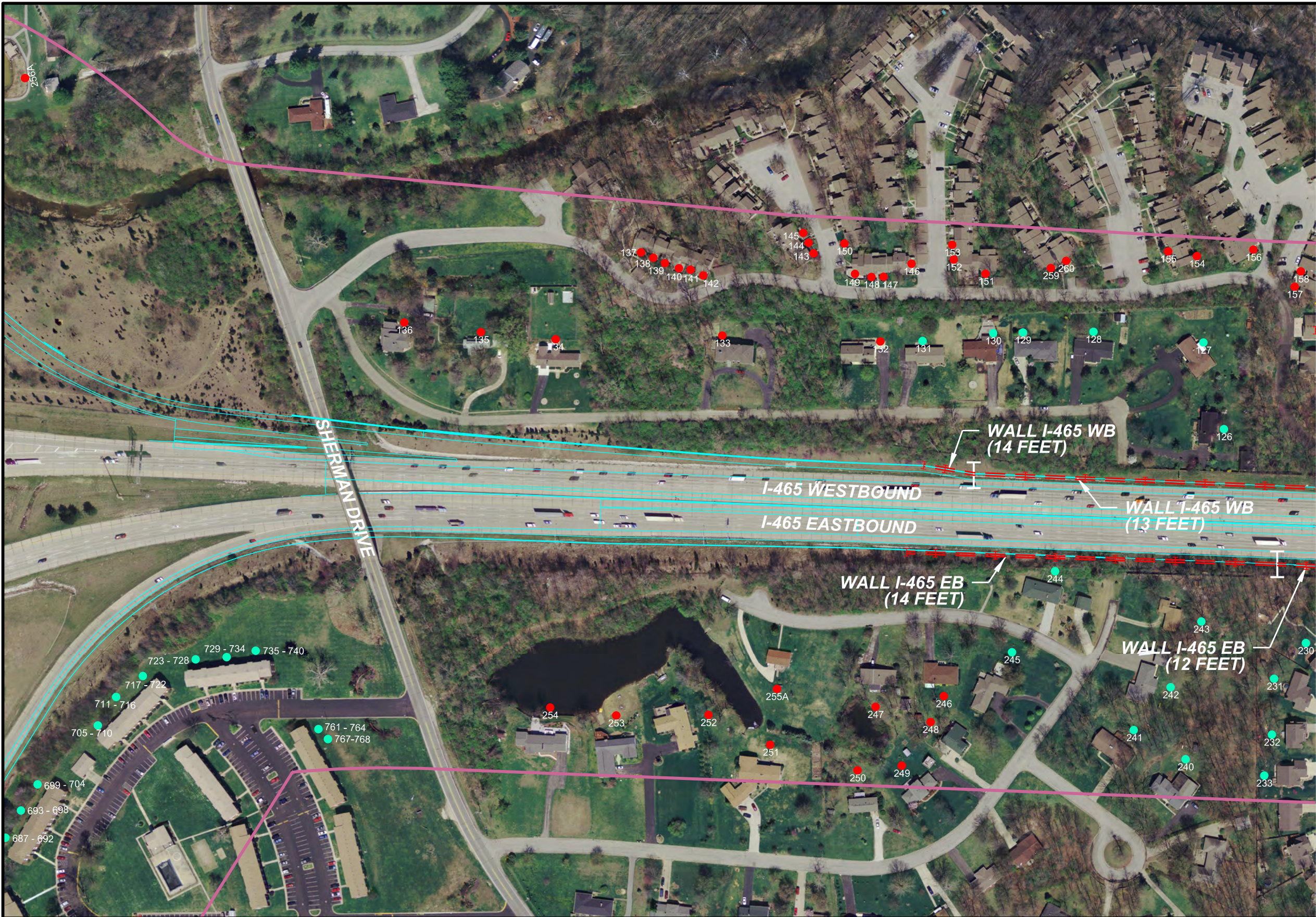
The viewpoints of the benefited residents and property owners were sought and were considered in determining the reasonableness of highway traffic noise for proposed highway construction projects. INDOT will incorporate highway traffic noise consideration in on-going activities for public involvement in the highway program.

These noise abatement measures have been analyzed based on conditions encountered during final design. The design engineer has investigated engineering considerations, such as topography and drainage to assess whether the recommended noise barrier locations (offset) are practical. No further design changes or modifications to noise walls are anticipated.

FHWA does not specify the type of material that must be used for noise barrier construction, but chosen material type must meet State of Indiana specifications.



EXHIBITS



LEGEND

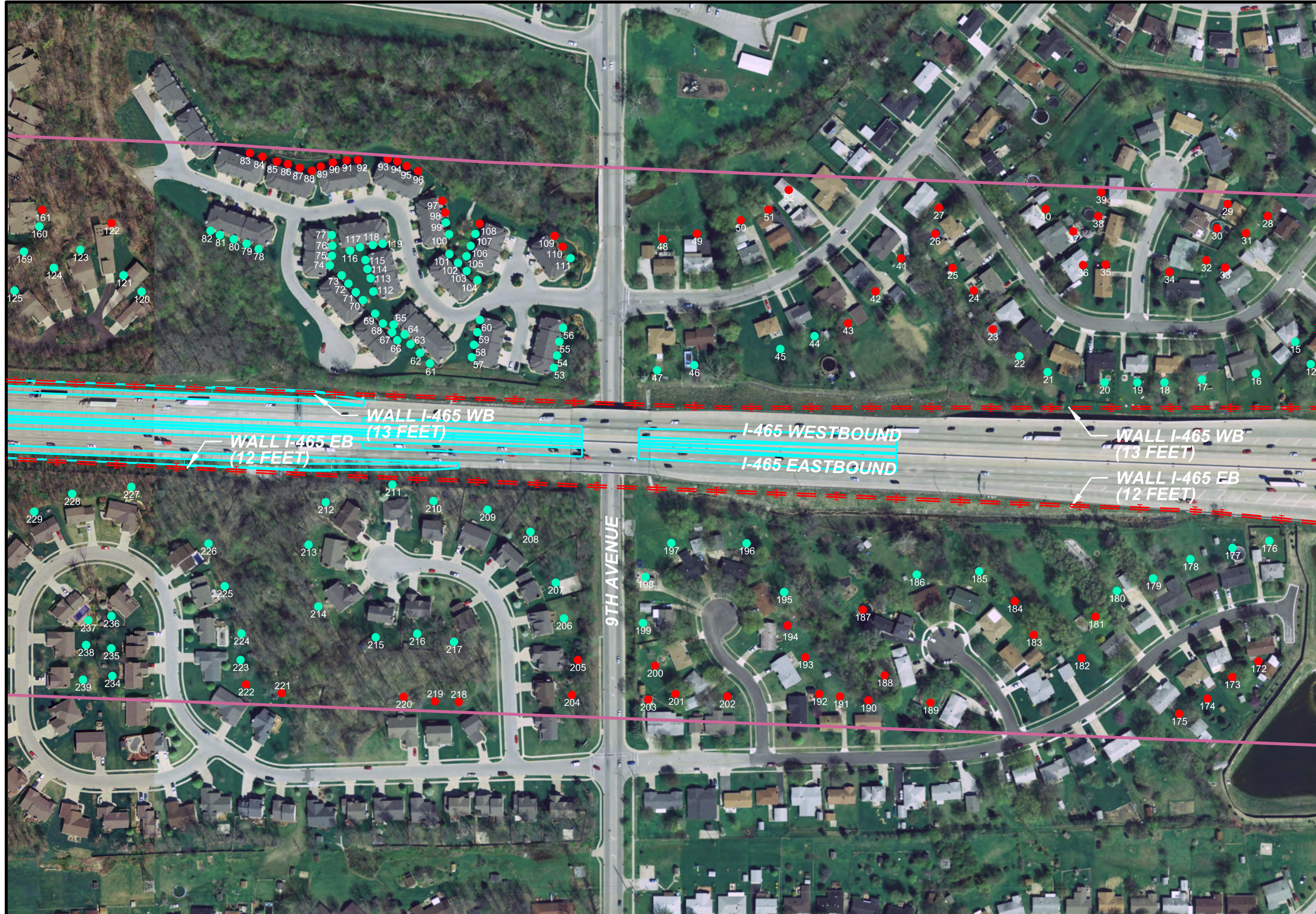
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- EDGE OF ROADWAY
- CONSTRUCTION LIMITS
- PROPOSED NOISE WALL
- RECEPTOR LOCATION
- IMPACTED RECEPTOR

shrewsberry
7321 Shadeland Station
Suite 160
Indianapolis, Indiana 46256
(t) 317.841.4799 (f) 317.841.4790

I-465 / I-65 INTERCHANGE MODIFICATION
DES. NO. 0902297

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- EDGE OF ROADWAY
- CONSTRUCTION LIMITS
- PROPOSED NOISE WALL
- RECEIVER LOCATION
- IMPACTED RECEPTOR

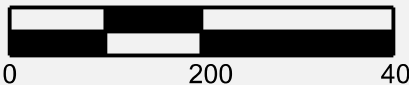


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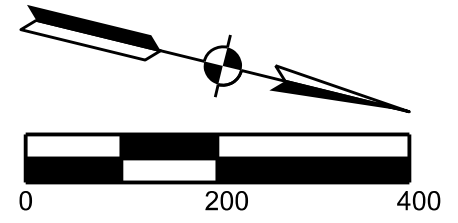
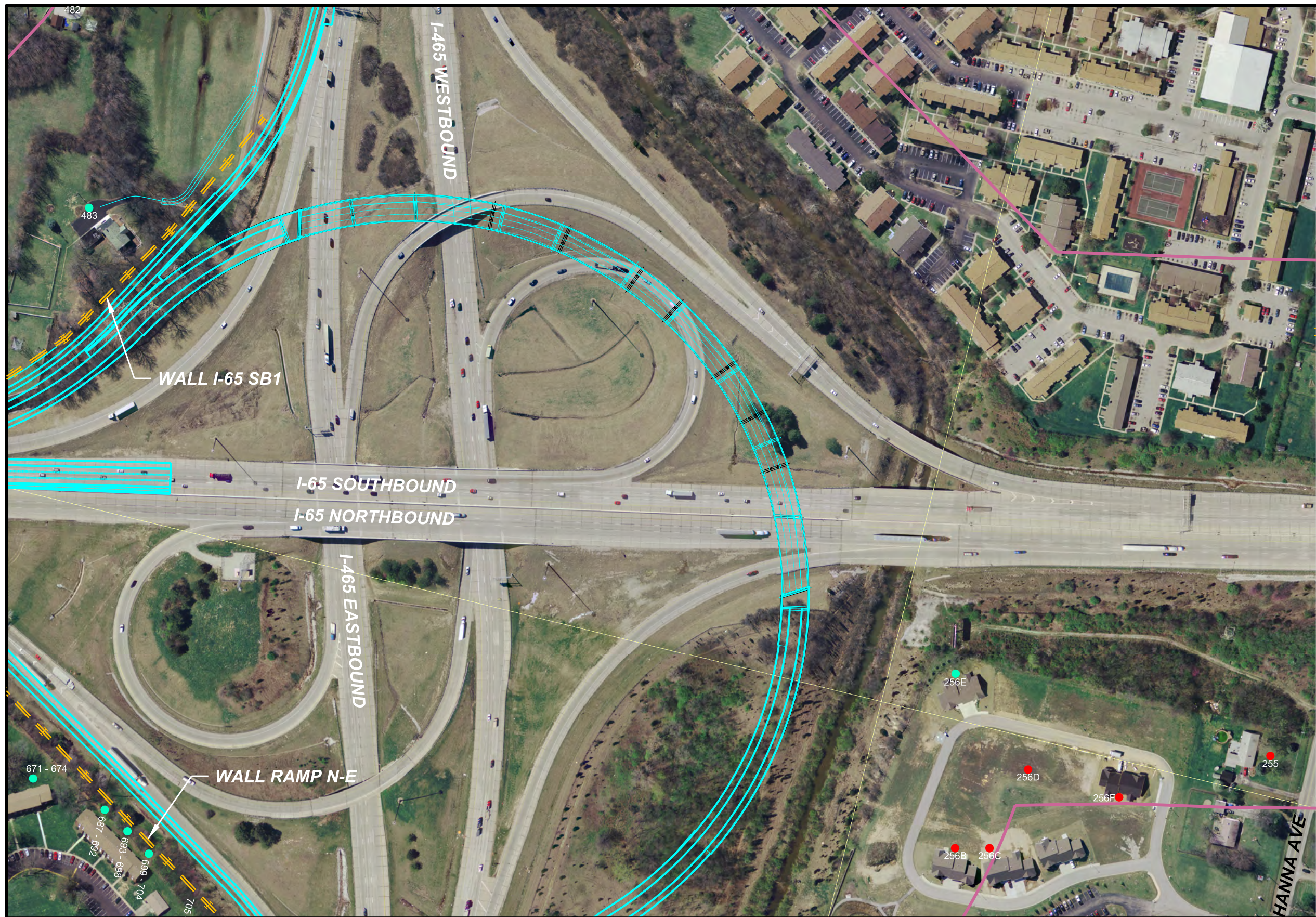




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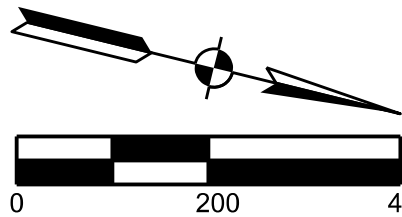
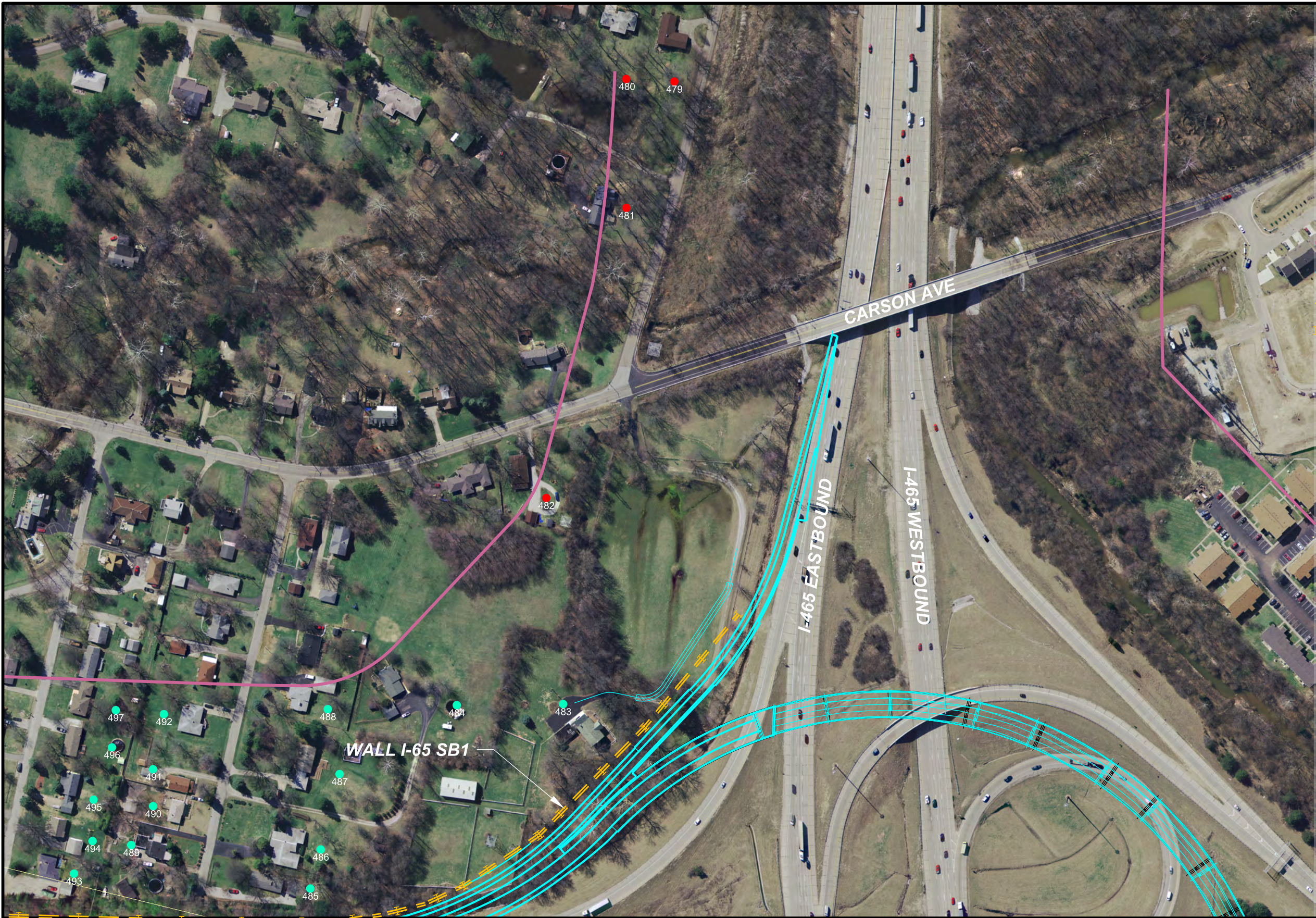
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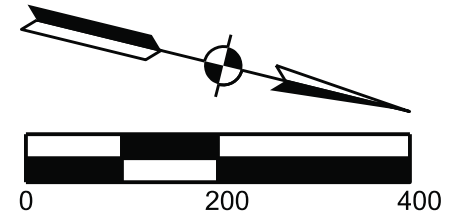
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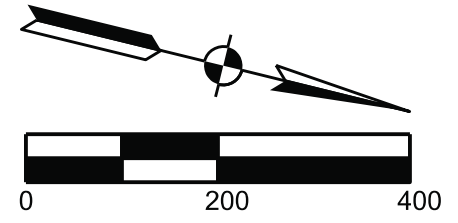
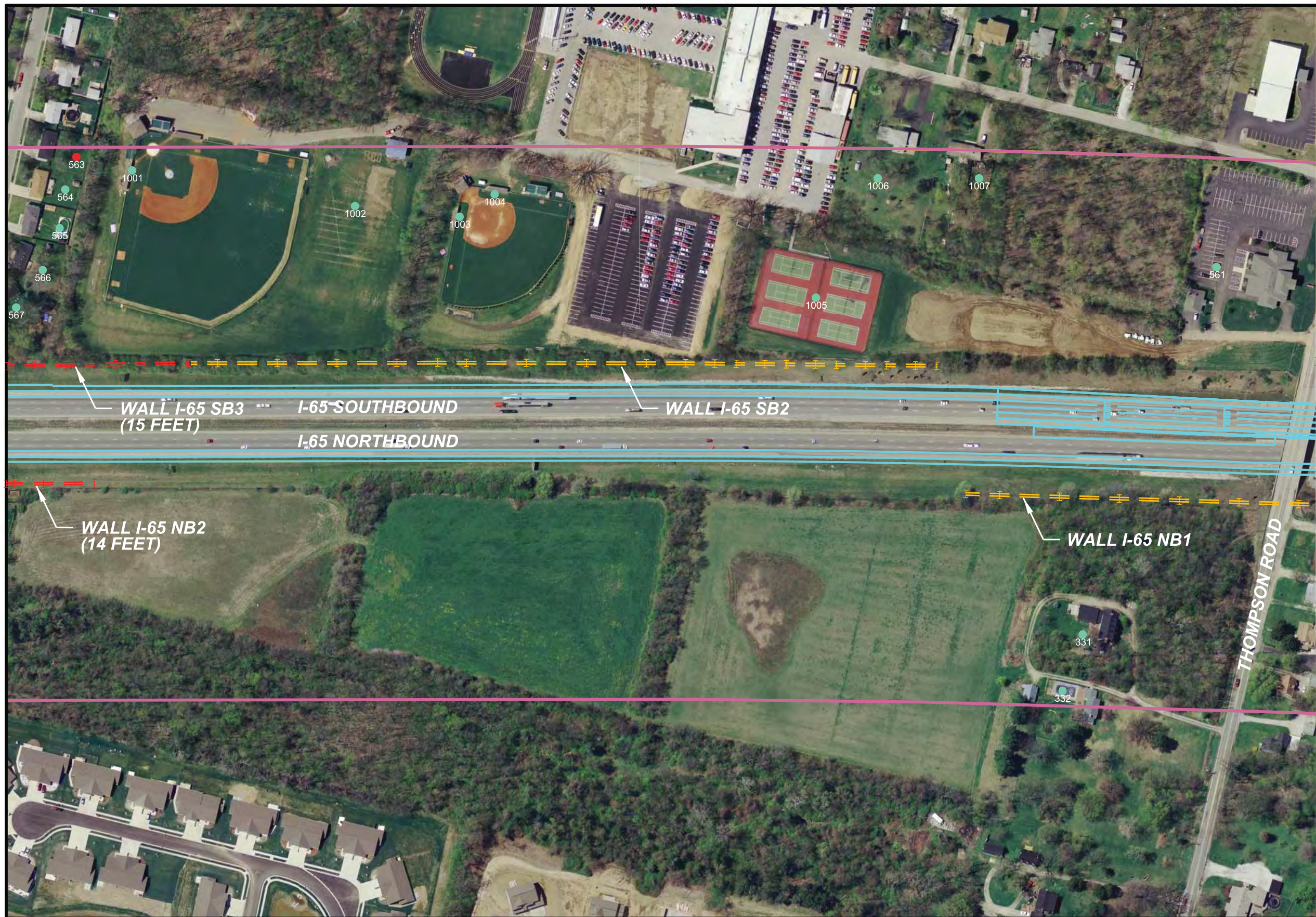
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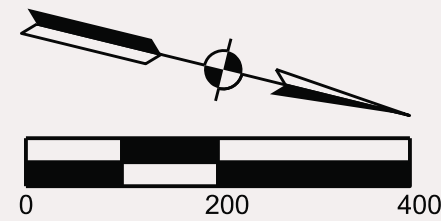
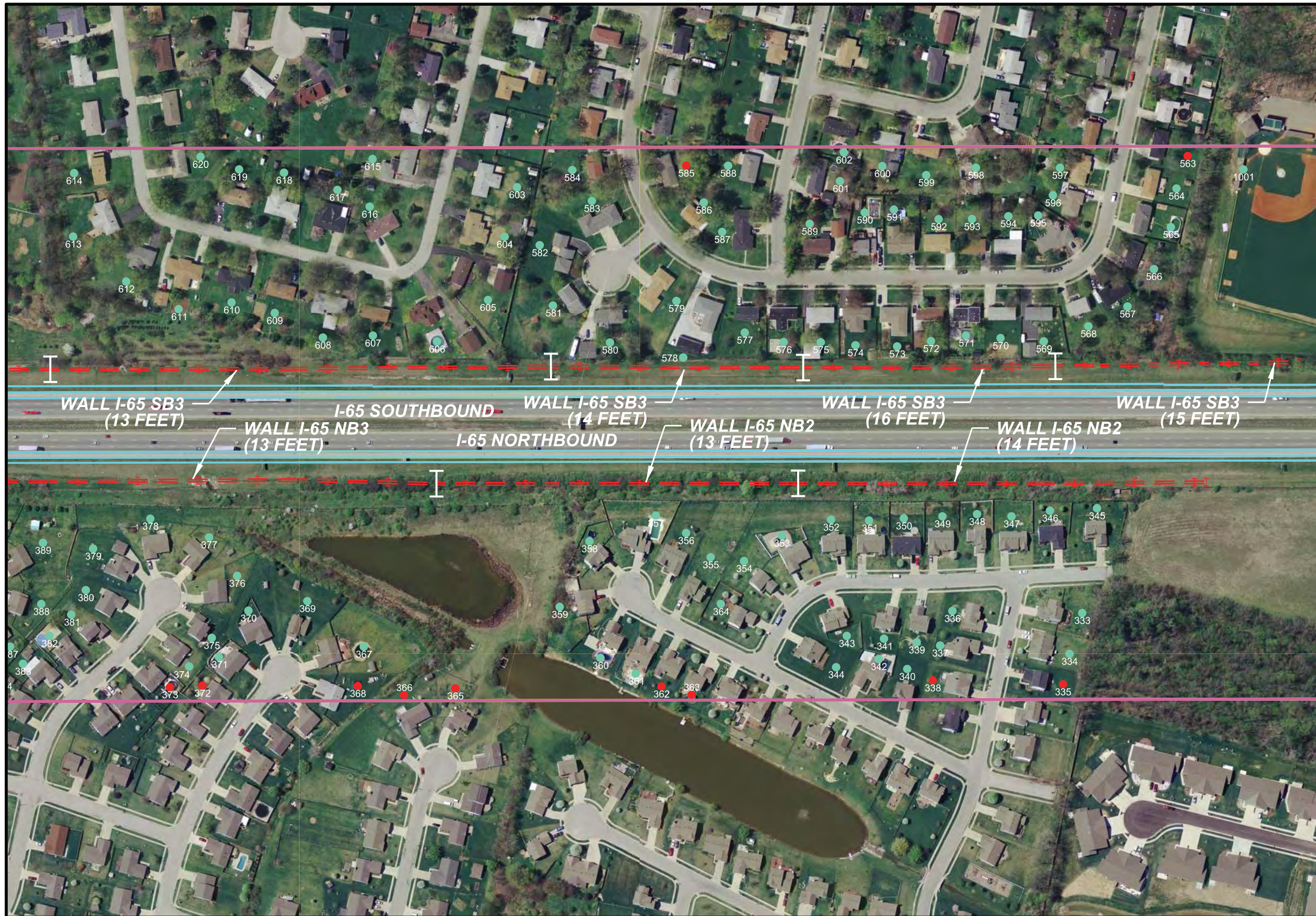
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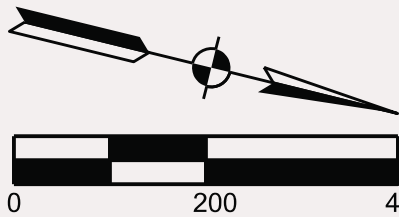
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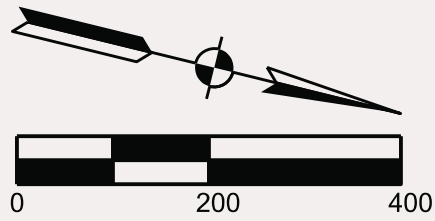
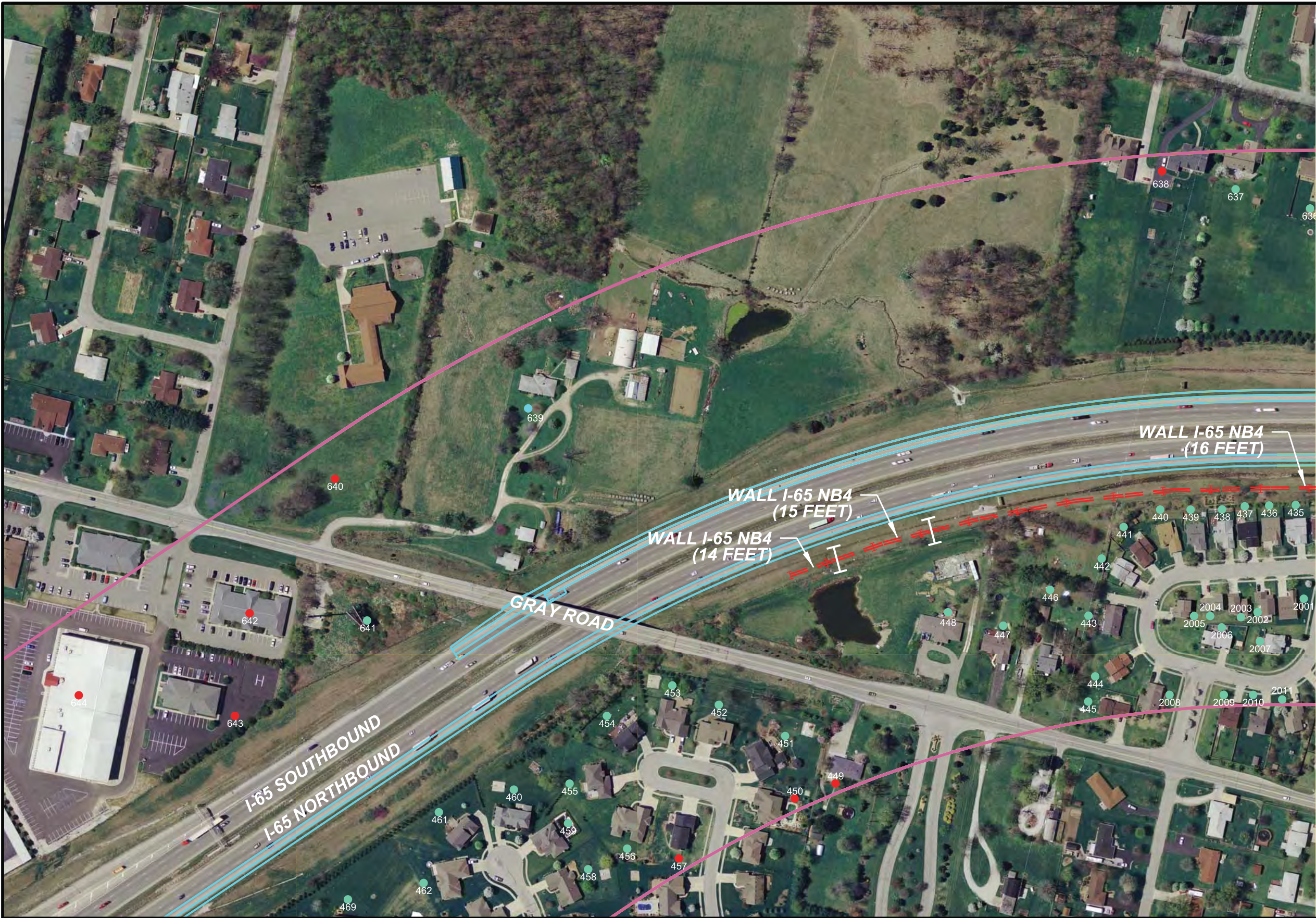
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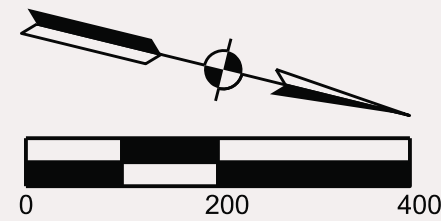
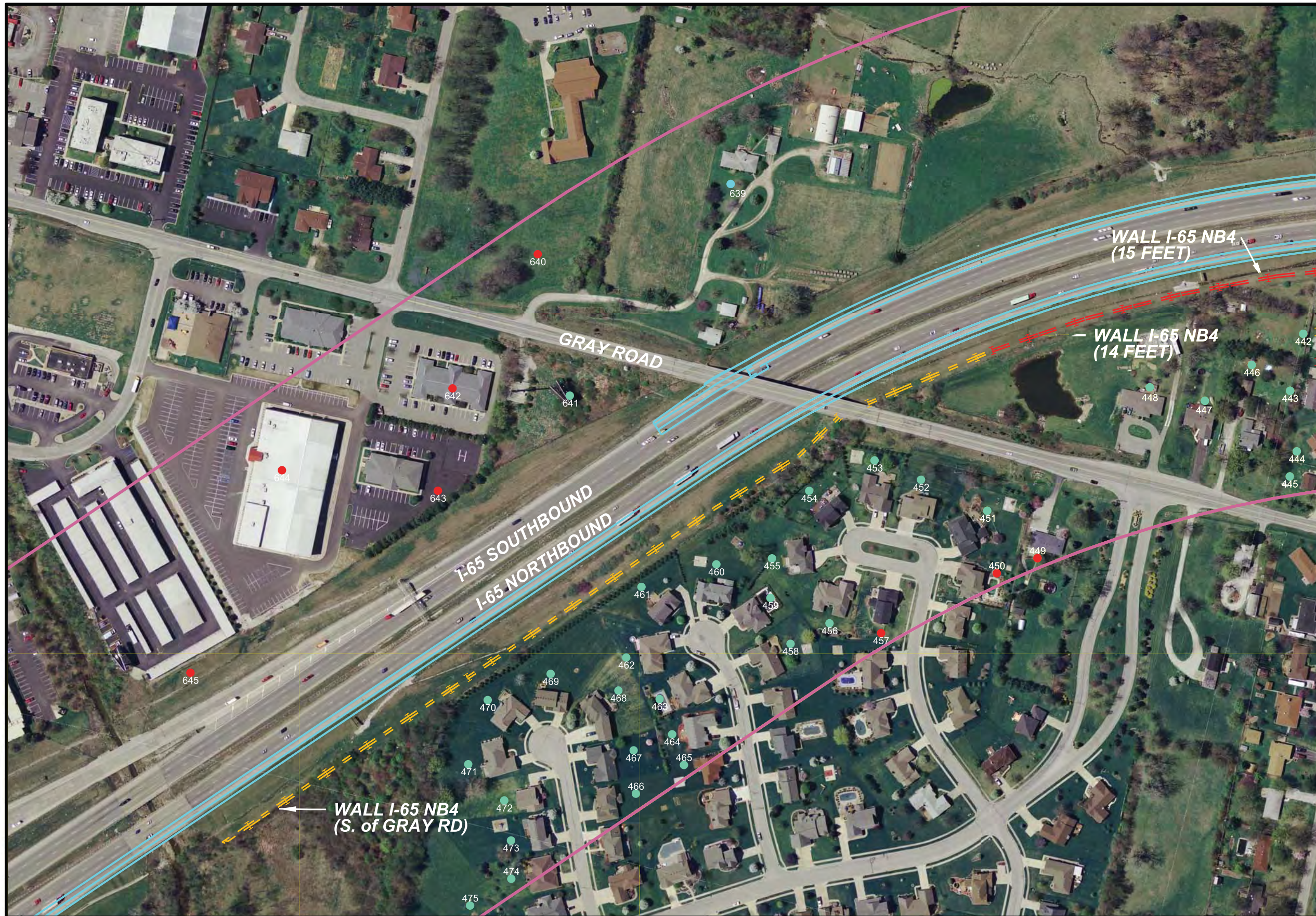
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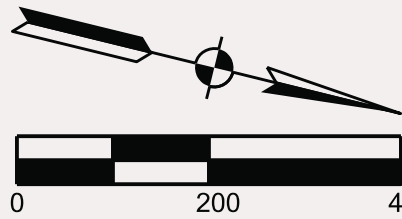
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APPENDICES

APPENDIX A

RECEPTOR ADDRESSES

Receptor No.	Street Number	Street	City, State, Zip	Owner Name
1	210	Ada Ln	Beech Grove, IN 46107	Robert W. & Donna S. Wolfram
2	214	Ada Ln	Beech Grove, IN 46107	Anne M. Okey
3	302	Ada Ln	Beech Grove, IN 46107	Robert L. & Tanis D. Ellis
4	306	Ada Ln	Beech Grove, IN 46107	Ross A. & Mary B. Wolfe
5	310	Ada Ln	Beech Grove, IN 46107	Timothy D. & Sarah L. Latimer
6	314	Ada Ln	Beech Grove, IN 46107	Creative Real Estate Solutions LP
7	402	Ada Ln	Beech Grove, IN 46107	Anita L. Alvarez
8	406	Ada Ln	Beech Grove, IN 46107	David L. & Kathleen R. Fouts
9	410	Ada Ln	Beech Grove, IN 46107	Kyle A. Bigelow
10	416	Ada Ln	Beech Grove, IN 46107	John J. & Angela Crissen
11	407	Ada Ln	Beech Grove, IN 46107	INDY RE INVESTMENTS INC
12	411	Ada Ln	Beech Grove, IN 46107	Thomas M. & Thelma D. Lewis
13	409	Edwards Ave	Beech Grove, IN 46107	Carlos E. Martinez
14	405	Edwards Ave	Beech Grove, IN 46107	Lila E. Hopkins
15	501	Edwards Ave	Beech Grove, IN 46107	Eugene S. & Lois A. Tanner
16	505	Edwards Ave	Beech Grove, IN 46107	Moses & Leslie Daly
17	509	Edwards Ave	Beech Grove, IN 46107	Kenni D. Spicer
18	513	Edwards Ave	Beech Grove, IN 46107	Rodney J. & Joy L. Ziegler
19	517	Edwards Ave	Beech Grove, IN 46107	Theda J. Taylor
20	601	Edwards Ave	Beech Grove, IN 46107	Lowell Eugene Plake
21	605	Edwards Ave	Beech Grove, IN 46107	Joseph J. & Muriel K. Wauro
22	609	Edwards Ave	Beech Grove, IN 46107	Tara A. Napier
23	613	Edwards Ave	Beech Grove, IN 46107	Larry E. Stump
24	617	Edwards Ave	Beech Grove, IN 46107	Eddie A. & Geraldine F. White
25	621	Edwards Ave	Beech Grove, IN 46107	William H. & Barbara L. Belt
26	711	Edwards Ave	Beech Grove, IN 46107	Curtis L. Cunningham (Trustee)
27	705	Groveswood Dr	Beech Grove, IN 46107	Alison E. Walters
28	422	Edwards Ave	Beech Grove, IN 46107	Clifford R. & Kristina L. Pappe
29	13	Edwards Ct	Beech Grove, IN 46107	Timothy W. & Kathy J. Eicher
30	9	Edwards Ct	Beech Grove, IN 46107	Allen E. Sayers
31	502	Edwards Ave	Beech Grove, IN 46107	Rosemary Lewis
32	5	Edwards Ct	Beech Grove, IN 46107	William & Melissa Mann
33	506	Edwards Ave	Beech Grove, IN 46107	Madik Grigorian
34	510	Edwards Ave	Beech Grove, IN 46107	George W. Jr. & Helen Ann Andrews
35	2	Edwards Ct	Beech Grove, IN 46107	Betty M. Little
36	606	Edwards Ave	Beech Grove, IN 46107	Frank O. Jr. & Sharron A. Stevens
37	610	Edwards Ave	Beech Grove, IN 46107	Michael F. & Janice A. Marmande
38	6	Edwards Ct	Beech Grove, IN 46107	Rose Products LLC
39	10	Edwards Ct	Beech Grove, IN 46107	Herbert & Dorothea M. Zimmerman
40	614	Edwards Ave	Beech Grove, IN 46107	Benjamin E. & Jennifer Lynn Kennerk
41	711	Groveswood Dr	Beech Grove, IN 46107	Tina L. Smith
42	715	Groveswood Dr	Beech Grove, IN 46107	Larry E. & Alice L. States
43	719	Groveswood Dr	Beech Grove, IN 46107	Brian E. & Michelle R. Foster
44	723	Groveswood Dr	Beech Grove, IN 46107	Robert E. II & Kimberly L. Todd
45	801	Groveswood Dr	Beech Grove, IN 46107	Robert T. Gaines
46	805	Groveswood Dr	Beech Grove, IN 46107	James P. & Mary Akison Gurganus
47	809	Groveswood Dr	Beech Grove, IN 46107	Steven A. & Donna C. Lawson
48	814	Groveswood Dr	Beech Grove, IN 46107	Matthew F. Gillespie
49	810	Groveswood Dr	Beech Grove, IN 46107	Gerald W. & Clemencia J. Sare
50	806	Groveswood Dr	Beech Grove, IN 46107	Jerome Edward & Teresa Smith
51	802	Groveswood Dr	Beech Grove, IN 46107	Gregory M. Weatherholt
52	722	Groveswood Dr	Beech Grove, IN 46107	Stephen C. Sommers
53	1119	Morning Sun Ln	Beech Grove, IN 46107	Stephanie A. Calhoun
54	1117	Morning Sun Ln	Beech Grove, IN 46107	Walter A. Johnson
55	1115	Morning Sun Ln	Beech Grove, IN 46107	Todd Cary
56	1113	Morning Sun Ln	Beech Grove, IN 46107	Carol S. Osborne
57	1120	Morning Sun Ln	Beech Grove, IN 46107	Linda L. Humbles
58	1118	Morning Sun Ln	Beech Grove, IN 46107	Donald W. & Elizabeth T. Pettingill
59	1116	Morning Sun Ln	Beech Grove, IN 46107	Arthur M. & Natividad H. Dilay

Receptor No.	Street Number	Street	City, State, Zip	Owner Name
60	1114	Morning Sun Ln	Beech Grove, IN 46107	Peggy A. Hayden
61	1003	Groveswood Dr	Beech Grove, IN 46107	Janet C. Conway
62	1005	Groveswood Dr	Beech Grove, IN 46107	Teresa L. Sommers
63	1007	Groveswood Dr	Beech Grove, IN 46107	Express Funding Corp. % Tricia Heppe
64	1009	Groveswood Dr	Beech Grove, IN 46107	Gerald E. & Marjorie J. Morgan, Trustees
65	1011	Groveswood Dr	Beech Grove, IN 46107	Scott B. Durbin
66	1107	Evening Shade Ci	Beech Grove, IN 46107	Carrie E Tuterow
67	1105	Evening Shade Ci	Beech Grove, IN 46107	Frank & Wendy L. Vastine
68	1103	Evening Shade Ci	Beech Grove, IN 46107	Daniel Duane Knox
69	1101	Evening Shade Ci	Beech Grove, IN 46107	Julie A. Baughman
70	1045	Evening Shade Ci	Beech Grove, IN 46107	Rebecca L. Hunt
71	1043	Evening Shade Ci	Beech Grove, IN 46107	Lisa Bagby
72	1041	Evening Shade Ci	Beech Grove, IN 46107	Nicholas A. Rembusch
73	1039	Evening Shade Ci	Beech Grove, IN 46107	David E. Conner
74	1029	Evening Shade Ci	Beech Grove, IN 46107	John A. & Cathy I. Koehler
75	1027	Evening Shade Ci	Beech Grove, IN 46107	April E. Scheib
76	1025	Evening Shade Ci	Beech Grove, IN 46107	Julie K. Moran
77	1023	Evening Shade Ci	Beech Grove, IN 46107	David & Roxanne Gaitner
78	1115	Groveswood Dr	Beech Grove, IN 46107	Franklin J. Baecher, Jr.
79	1117	Groveswood Dr	Beech Grove, IN 46107	Ronald R. Mathes
80	1119	Groveswood Dr	Beech Grove, IN 46107	Sarah J. Baker
81	1121	Groveswood Dr	Beech Grove, IN 46107	Beverly J. Smith
82	1123	Groveswood Dr	Beech Grove, IN 46107	Lindy Carlstrom
83	1120	Groveswood Dr	Beech Grove, IN 46107	Daniel A. & Raquel Teipen
84	1118	Groveswood Dr	Beech Grove, IN 46107	Marcia A. Hanson
85	1114	Groveswood Dr	Beech Grove, IN 46107	Ruth E. O'Daniel
86	1112	Groveswood Dr	Beech Grove, IN 46107	Thomas A. & Barbara T. Fields
87	1110	Groveswood Dr	Beech Grove, IN 46107	Betty J. Taylor
88	1108	Groveswood Dr	Beech Grove, IN 46107	Jill A. & Terry L. Wright
89	1048	Groveswood Dr	Beech Grove, IN 46107	George N. & Christina M. McGinsie
90	1046	Groveswood Dr	Beech Grove, IN 46107	Brittney Conwell
91	1044	Groveswood Dr	Beech Grove, IN 46107	Jeremy & Jovanna Hinkle
92	1042	Groveswood Dr	Beech Grove, IN 46107	Rose M. Durant
93	1038	Groveswood Dr	Beech Grove, IN 46107	Robin L. Kelley
94	1036	Groveswood Dr	Beech Grove, IN 46107	Kenneth J. Thomas
95	1034	Groveswood Dr	Beech Grove, IN 46107	Richard L. & Nancy A. Gibboney
96	1032	Groveswood Dr	Beech Grove, IN 46107	Ann M. Ward
97	1028	Groveswood Dr	Beech Grove, IN 46107	Marcia L. Adams
98	1026	Groveswood Dr	Beech Grove, IN 46107	Rachel Clark
99	1024	Groveswood Dr	Beech Grove, IN 46107	Laurie J. Eagan
100	1022	Groveswood Dr	Beech Grove, IN 46107	Polly J. Lester
101	1012	Groveswood Dr	Beech Grove, IN 46107	Kathy R. Vester
102	1010	Groveswood Dr	Beech Grove, IN 46107	Kimberly A. Dexter
103	1008	Groveswood Dr	Beech Grove, IN 46107	Mark McWilliams
104	1006	Groveswood Dr	Beech Grove, IN 46107	Derrick Johnson & Melissa Hubbell
105	1032	Morning Sun Ln	Beech Grove, IN 46107	Susan Shurig
106	1030	Morning Sun Ln	Beech Grove, IN 46107	Tina A. Battle
107	1028	Morning Sun Ln	Beech Grove, IN 46107	Ryan Roe
108	1026	Morning Sun Ln	Beech Grove, IN 46107	Lynn Marie Huff
109	1031	Morning Sun Ln	Beech Grove, IN 46107	David C. & Roberta C. Coombs
110	1033	Morning Sun Ln	Beech Grove, IN 46107	Matthew D. Coombs
111	1037	Morning Sun Ln	Beech Grove, IN 46107	Cynthia A. Wycoff (Trust)
112	1015	Groveswood Dr	Beech Grove, IN 46107	Aaron R. Maugherman
113	1017	Groveswood Dr	Beech Grove, IN 46107	Tonya L. Krasienko
114	1019	Groveswood Dr	Beech Grove, IN 46107	Susan J. Swengel
115	1021	Groveswood Dr	Beech Grove, IN 46107	Linda S. Winkle
116	1045	Groveswood Dr	Beech Grove, IN 46107	Paul D. & Mary J. Simmerman
117	1043	Groveswood Dr	Beech Grove, IN 46107	Barbara Windle
118	1041	Groveswood Dr	Beech Grove, IN 46107	Judy L. Grimes

Receptor No.	Street Number	Street	City, State, Zip	Owner Name
119	1039	Groveswood Dr	Beech Grove, IN 46107	Diane M. Gray
120	4210	Wilderness Trail	Indianapolis, IN 46237	Peggy M. Obergfell
121	4206	Wilderness Trail	Indianapolis, IN 46237	Dana L. McKee
122	4152	Wilderness Trail	Indianapolis, IN 46237	Gloria Lester
123	4148	Wilderness Trail	Indianapolis, IN 46237	Dennis G. & Janet K. Hunley
124	4144	Wilderness Trail	Indianapolis, IN 46237	Robert W. & Virginia M. Ashman (Trustees)
125	4140	Wilderness Trail	Indianapolis, IN 46237	Virginia & James B. Adams
126	4040	Dundee Drive	Indianapolis, IN 46237	Mark E. & Cheryl L. Stobaugh
127	4020	Dundee Drive	Indianapolis, IN 46237	Chester R. & Nora G. Goodin
128	4018	Dundee Drive	Indianapolis, IN 46237	James E. & Eileen J. Blatz
129	4006	Dundee Drive	Indianapolis, IN 46237	Wade & Ana Kathryn Reeves
130	3934	Dundee Drive	Indianapolis, IN 46237	Andrew G. & Agnes Winkler
131	3922	Dundee Drive	Indianapolis, IN 46237	Larry Ross & Dorothy L. Miller
132	3910	Dundee Drive	Indianapolis, IN 46237	Morgan L. & Kristy L. Keller
133	3842	Dundee Drive	Indianapolis, IN 46237	David E. & Eileen D. Scott
134	3838	Dundee Drive	Indianapolis, IN 46237	Edward & Ruby Newman
135	4245	Sherman Drive	Indianapolis, IN 46237	Gregg T. Kraeszig
136	4249	Sherman Drive	Indianapolis, IN 46237	Charles B. III & Brenda Sue Long
137	3820	Wilderness Trail	Indianapolis, IN 46237	Nancy J. Schuman
138	3824	Wilderness Trail	Indianapolis, IN 46237	Nancy A. VanVorst
139	3826	Wilderness Trail	Indianapolis, IN 46237	Thomas Y. & Joyce Guy Iwamoto
140	3830	Wilderness Trail	Indianapolis, IN 46237	Steven L. & Lynne R. Hulbert
141	3834	Wilderness Trail	Indianapolis, IN 46237	Mary E. Schuman
142	3836	Wilderness Trail	Indianapolis, IN 46237	Richard A. Elkins
143	4288	Larkspur Trace	Indianapolis, IN 46237	Eulala E. Williams
144	4284	Larkspur Trace	Indianapolis, IN 46237	Charles P. & Claire C. Kriese
145	4282	Larkspur Trace	Indianapolis, IN 46237	Ella C. Young
146	3912	Wilderness Trail	Indianapolis, IN 46237	Paul E. Economou & Tami-Rae M. Sands
147	3908	Wilderness Trail	Indianapolis, IN 46237	Ruth A. Bishop & Howard W. Beaver
148	3906	Wilderness Trail	Indianapolis, IN 46237	Jeffrey A. Rawlins
149	3902	Wilderness Trail	Indianapolis, IN 46237	Cheryl A. Amonett
150	4269	Larkspur Trace	Indianapolis, IN 46237	Resa L. Ramsey
151	3930	Wilderness Trail	Indianapolis, IN 46237	Robert J. & Chollie C. Marley
152	4281	Woodsage Trace	Indianapolis, IN 46237	Paul C. & Zoe M. Boulton
153	4277	Woodsage Trace	Indianapolis, IN 46237	Doreen Wei Sau Lam
154	4271	Foxglove Trace	Indianapolis, IN 46237	Kelli McDaniel-Wilson
155	4269	Foxglove Trace	Indianapolis, IN 46237	Marcheta A. Troxel
156	4270	Indiana Pipe Trace	Indianapolis, IN 46237	Alice M. Williams
157	4295	Indiana Pipe Trace	Indianapolis, IN 46237	Cheryl L. Johns
158	4291	Indiana Pipe Trace	Indianapolis, IN 46237	Larry E. Stark
159	4118	Wilderness Trail	Indianapolis, IN 46237	James F. & Barbara M. O'Maley
160	4114	Wilderness Trail	Indianapolis, IN 46237	Karen S. Kennedy
161	4110	Wilderness Trail	Indianapolis, IN 46237	Robert G. & Mary E. Storey (Trustees)
162	6	Wally Ct	Beech Grove, IN 46107	Connie Sue Wilson
163	10	Wally Ct	Beech Grove, IN 46107	Danny L. Campbell
164	9	Wally Ct	Beech Grove, IN 46107	Douglas A. Hutton
165	5151	Elmwood Ave	Indianapolis, IN 46203	Motel 6 Indianapolis South
166	5219	Elmwood Ave	Indianapolis, IN 46203	Bellkins, Inc.
167	5245	Elmwood Ave	Indianapolis, IN 46203	Home Remodeling, Inc. (Larry J. & Herbert J. Pierle)
168	4425	S Emerson Av	Indianapolis, IN 46219	Cheker Oil Co Of Indiana Inc % Emro Marketing Company Property Tax Department
169	5120	Victory Dr	Indianapolis, IN 46203	Reproindy, Inc. Attn: Kshitig Khanna
170	4420	S Emerson Av	Indianapolis, IN 46219	Real Estate Holdings I, Llc Attn: Curtis B McWilliams Cnl Building-10th Floor
171	4514	S Emerson Av	Indianapolis, IN 46219	Lowe's Home Centers Inc
172	501	North Bend Rd	Beech Grove, IN 46107	Michael A. Howell
173	505	North Bend Rd	Beech Grove, IN 46107	Amy M & Nathaniel C. Allen

Receptor No.	Street Number	Street	City, State, Zip	Owner Name
174	509	North Bend Rd	Beech Grove, IN 46107	Brian C & Rita M. Cherry
175	513	North Bend Rd	Beech Grove, IN 46107	Kristen Ramsey
176	502	North Bend Rd	Beech Grove, IN 46107	Brian D & Deborah J Hatfield & Kyle Hatfield
177	506	North Bend Rd	Beech Grove, IN 46107	Darren R. Alsobrook
178	510	North Bend Rd	Beech Grove, IN 46107	Pauline M. Saylor
179	514	North Bend Rd	Beech Grove, IN 46107	Starr Lynn Gordon
180	518	North Bend Rd	Beech Grove, IN 46107	Bradley D & Kathy J. Johnson
181	602	North Bend Rd	Beech Grove, IN 46107	Jason B. Stewart
182	1	Melody Ct	Indianapolis, IN 46231	Lonnie L & Nina K. Perry
183	5	Melody Ct	Indianapolis, IN 46231	James L & Becky E. Locke
184	9	Melody Ct	Indianapolis, IN 46231	Kenneth D Clark & Wendy M Booher
185	15	Melody Ct	Indianapolis, IN 46231	Danny L. Hemphill
186	14	Melody Ct	Indianapolis, IN 46231	Reddick, James Larry & Miriam
187	10	Melody Ct	Indianapolis, IN 46231	Betts, William M & Debbie L
188	6	Melody Ct	Indianapolis, IN 46231	Steve & Sabrina Todd
189	2	Melody Ct	Indianapolis, IN 46231	Rosalinde Parks
190	702	North Bend Rd	Beech Grove, IN 46107	Paul Shellabarger
191	706	North Bend Rd	Beech Grove, IN 46107	Michael C. & Michelle D. Hamilton
192	1	Kiefer Ct	Beech Grove, IN 46107	Tammy Cochran
193	5	Kiefer Ct	Beech Grove, IN 46107	Lonnie L. & Nina K. Perry
194	9	Kiefer Ct	Beech Grove, IN 46107	Richard J. Greenfield Jr.
195	13	Kiefer Ct	Beech Grove, IN 46107	Shiela F. Rozell
196	17	Kiefer Ct	Beech Grove, IN 46107	Ryan W. Nowak
197	18	Kiefer Ct	Beech Grove, IN 46107	Robert C. & Paula M. Elliott
198	4300	S 9th Av	Beech Grove, IN 46107	Indiana Bell Telephone Co Inc C/O Sbc Communications Inc
199	14	Kiefer Ct	Beech Grove, IN 46107	Antonio R. Mamot
200	10	Kiefer Ct	Beech Grove, IN 46107	Clarence Edgar Reel Jr.
201	6	Kiefer Ct	Beech Grove, IN 46107	Lowell Thomas & Carol S. Hooker
202	802	North Bend Rd	Beech Grove, IN 46107	Jonna J. Zurcher
203	810	North Bend Rd	Beech Grove, IN 46107	Carman, Junior C & June F Trust & Trustees
204	1255	Stave Oak Ct	Indianapolis, IN 46227	Joseph K. & Jane A. Hedges
205	1249	Stave Oak Ct	Indianapolis, IN 46227	Ronald E. & Anita L. Mitchell
206	1243	Stave Oak Ct	Indianapolis, IN 46227	David W. & Kathy J. Stratton
207	1237	Stave Oak Ct	Indianapolis, IN 46227	Alan C. & Carla J. Hammer
208	1231	Stave Oak Ct	Indianapolis, IN 46227	Charles R. & Barbara Bertram
209	1223	Stave Oak Ct	Indianapolis, IN 46227	Donald E. & Lisa C. Zoellner
210	1217	Stave Oak Ct	Indianapolis, IN 46227	Eric L. & Cheryl C. Bailey
211	1211	Stave Oak Ct	Indianapolis, IN 46227	Andrea D. Duncan
212	1203	Stave Oak Ct	Indianapolis, IN 46227	Marjorie A. Schoonover
213	1202	Stave Oak Ct	Indianapolis, IN 46227	Amy R. & Richard S. Winscott, III
214	1206	Stave Oak Ct	Indianapolis, IN 46227	Richard L. & Nancy J. Matkins
215	1212	Stave Oak Ct	Indianapolis, IN 46227	Elizabeth M & Fred L Smith
216	1218	Stave Oak Ct	Indianapolis, IN 46227	Robert L. & Michelle L. Landrum
217	1232	Stave Oak Ct	Indianapolis, IN 46227	Joseph E. Potterack
218	932	Stave Oak Dr	Indianapolis, IN 46227	Justin C. Longerich
219	942	Stave Oak Dr	Indianapolis, IN 46227	Jeff A. & Apryl A. McClurg
220	950	Stave Oak Dr	Indianapolis, IN 46227	Lash, Jerry G. & Tammy L. Lash
221	1040	Stave Oak Dr	Indianapolis, IN 46227	Jack N. & Mary K. West
222	1102	Stave Oak Dr	Indianapolis, IN 46227	William M. & Claudia A. Renick
223	1114	Stave Oak Dr	Indianapolis, IN 46227	Richard J. & Linda Byland
224	1122	Stave Oak Dr	Indianapolis, IN 46227	David P. & Nancy L. Stenger
225	1130	Stave Oak Dr	Indianapolis, IN 46227	Dennis G. & Lucile M. Biggs
226	1138	Stave Oak Dr	Indianapolis, IN 46227	Bruce E. Hawkersmith
227	1150	Stave Oak Dr	Indianapolis, IN 46227	James L. & Rosemary F. Tolle
228	1204	Smoketree Dr	Beech Grove, IN 46107	Charles S. & Gilda M. De Munbrun
229	1208	Smoketree Dr	Beech Grove, IN 46107	Wayne A. & Donna E. Williams
230	1210	Smoketree Dr	Beech Grove, IN 46107	Patrick O. & Cheri L. Brewster
231	1216	Smoketree Dr	Beech Grove, IN 46107	John T. & Michele A. Hopwood

Receptor No.	Street Number	Street	City, State, Zip	Owner Name
232	1224	Smoketree Dr	Beech Grove, IN 46107	James L. & Amy M. Longshore
233	1228	Smoketree Dr	Beech Grove, IN 46107	Andrew T. & Candace S. Wolsiffer
234	1113	Stave Oak Dr	Indianapolis, IN 46227	Timothy R. & Kimberly A. Dunn
235	1121	Stave Oak Dr	Indianapolis, IN 46227	Gary A. & Gwendolyn L. Pryor
236	1139	Stave Oak Dr	Indianapolis, IN 46227	Whyde, Linda S Revocable Living Trust
237	1209	Smoketree Dr	Beech Grove, IN 46107	Robert W. & Haley J. Challis
238	1225	Smoketree Dr	Beech Grove, IN 46107	James P. Lockwood
239	1229	Smoketree Dr	Beech Grove, IN 46107	James E. & Jolene L. Collins
240	4010	Klintonloch Ct	Indianapolis, IN 46237	Jan J. & Judith A. Hoffman
241	4004	Klintonloch Ct	Indianapolis, IN 46237	David S. & Ann D. Nice
242	4025	Meridee Dr	Indianapolis, IN 46237	Paula L. Bowling
243	4029	Meridee Dr	Indianapolis, IN 46237	Edward L. III & Carol Jean Damrell
244	4006	Rebel Run	Indianapolis, IN 46237	Russell C. & Mary E. Phillips
245	3945	Rebel Run	Indianapolis, IN 46237	Frederick R. & Fredia Ann Galloway
246	3927	Rebel Run	Indianapolis, IN 46237	Mary Helen Clemmer
247	3915	Rebel Run	Indianapolis, IN 46237	Sherry Marie Green
248	3926	Meridee Dr	Indianapolis, IN 46237	Timothy A. Puntarelli
249	3918	Meridee Dr	Indianapolis, IN 46237	Danny E. & Marcia D. Reeves
250	3910	Meridee Dr	Indianapolis, IN 46237	Bernadine R. & Stanley R. Tooley
251	3838	Meridee Dr	Indianapolis, IN 46237	Gardham, George E % Robert C Thompson Jr
252	3820	Meridee Dr	Indianapolis, IN 46237	Cathy Richardson & Jeanette K Damrell
253	3804	Meridee Dr	Indianapolis, IN 46237	Thomas E. & Irene C. Davis
254	3736	Meridee Dr	Indianapolis, IN 46237	Dennis L. & Deniese Heidelberger
255	3245	E Hanna Av	Indianapolis, IN 46237	Vernon K. & Milda A. Hayden
255A	3841	Rebel Run	Indianapolis, IN 46237	Connie J. Mullins
256A	3525	E Hanna Av	Indianapolis, IN 46237	Gardens At The Altenheim Llc
256B	3525	E Hanna Av	Indianapolis, IN 46237	Gardens At The Altenheim Llc
256C	3525	E Hanna Av	Indianapolis, IN 46237	Gardens At The Altenheim Llc
256D	3525	E Hanna Av	Indianapolis, IN 46237	Gardens At The Altenheim Llc
256E	3525	E Hanna Av	Indianapolis, IN 46237	Gardens At The Altenheim Llc
256F	3525	E Hanna Av	Indianapolis, IN 46237	Gardens At The Altenheim Llc
259	4276	Foxglove Trace	Indianapolis, IN 46237	John F. & Florence Hesse
260	4280	Foxglove Trace	Indianapolis, IN 46237	Kathryn L. Theobald
301	3606	Redfern Dr	Indianapolis, IN 46237	Nancy D. Carter
302	3536	Redfern Dr	Indianapolis, IN 46237	Derrick Flowers
303	3302	Lindbergh Dr	Indianapolis, IN 46237	Emmack, Malcolm W & Barbara A, CO-TRUSTEES, REVOCABLE LIVING
304	3304	Lindbergh Dr	Indianapolis, IN 46237	Joseph P. Yates
305	3310	Lindbergh Dr	Indianapolis, IN 46237	Uldis & Jane E. Duselis
306	3305	Lindbergh Dr	Indianapolis, IN 46237	Denton D. & Sharon L. Gross
307	3309	Lindbergh Dr	Indianapolis, IN 46237	Roxie J. Porter
308	3345	Lindbergh Dr	Indianapolis, IN 46237	Gary Lee Stickford
309	4555	S La Salle St	Indianapolis, IN 46237	Paul E. & Frances L. Murphy
310	3312	Chamberlin Dr	Indianapolis, IN 46237	David Beisinger
311	3316	Chamberlin Dr	Indianapolis, IN 46237	Robert M. Lee, Jr
312	3320	Chamberlin Dr	Indianapolis, IN 46237	Kathleen Rigby
313	3301	Chamberlin Dr	Indianapolis, IN 46237	Miranda S. & Susan T. Morse
314	3305	Chamberlin Dr	Indianapolis, IN 46237	Paul C. Davis
315	3309	Chamberlin Dr	Indianapolis, IN 46237	Virgil Ray & Deloris J. Ross
316	3315	Chamberlin Dr	Indianapolis, IN 46237	Joshua Ray Weddell
317	3321	Chamberlin Dr	Indianapolis, IN 46237	Bunny Maclean
318	3302	Byrd Dr	Indianapolis, IN 46237	Suelynne Childers
319	3310	Byrd Dr	Indianapolis, IN 46237	Steven Eugene & Jo Ann Swinford
320	3314	Byrd Dr	Indianapolis, IN 46237	Jason & Brittani Hess
321	3326	Byrd Dr	Indianapolis, IN 46237	Jonathan J. & Amanda Robbins
322	3350	Byrd Dr	Indianapolis, IN 46237	Denise A. Maio
323	3315	Byrd Dr	Indianapolis, IN 46237	Timothy D. & Jennifer L. Coleman
324	3325	Byrd Dr	Indianapolis, IN 46237	Thomas G. Jr & Donna J. Hale
325	3349	Byrd Dr	Indianapolis, IN 46237	Kent A. Stephens

Receptor No.	Street Number	Street	City, State, Zip	Owner Name
326	3353	Byrd Dr	Indianapolis, IN 46237	Carolyn R. Jacobs
327	3650	E Thompson Rd	Indianapolis, IN 46237	Heidi E. Randall
328	3660	E Thompson Rd	Indianapolis, IN 46237	Kittie A. & Patrick A Bradley
329	3706	E Thompson Rd	Indianapolis, IN 46237	Keith J. Woodcock
330	3710	E Thompson Rd	Indianapolis, IN 46237	Andree M. Muns
331	3709	E Thompson Rd	Indianapolis, IN 46237	Catherine B. Black
332	3725	E Thompson Rd	Indianapolis, IN 46237	Georgia Ann Pitcher
333	3802	Cherry Blossom Bl	Indianapolis, IN 46237	Edward A. & Lisa M. Baxter
334	3810	Cherry Blossom Bl	Indianapolis, IN 46237	Timothy D. & Sheryl L. Roller
335	3818	Cherry Blossom Bl	Indianapolis, IN 46237	Keeler, Tony J & Deborah L Starnes-Keeler
336	3809	Cherry Blossom Bl	Indianapolis, IN 46237	Michael J. & Judith E. Lucas
337	3817	Cherry Blossom Bl	Indianapolis, IN 46237	Zachary A. Shroyer & Sarah A. Willis
338	3825	Cherry Blossom Bl	Indianapolis, IN 46237	Stephen D. & Lisa A. Schuster
339	5535	Rum Cherry Wa	Indianapolis, IN 46237	Douglas A. & Lisa V. Polen
340	5530	Cherry Field Dr	Indianapolis, IN 46237	Linda Cornelius
341	5545	Rum Cherry Wa	Indianapolis, IN 46237	Cross, Kristi R & Theodore M Bell & Bonita G Bell
342	5540	Cherry Field Dr	Indianapolis, IN 46237	Read, Earl W & Julia E Pero-Read
343	5601	Rum Cherry Wa	Indianapolis, IN 46237	Edith A. Hendricks
344	5615	Rum Cherry Wa	Indianapolis, IN 46237	Jordan M. & Ashleigh Taylor
345	5506	Rum Cherry Wa	Indianapolis, IN 46237	Angela R. & Jeffrey L. Watson
346	5512	Rum Cherry Wa	Indianapolis, IN 46237	Robert G. & Stacey L. Moisant
347	5518	Rum Cherry Wa	Indianapolis, IN 46237	Ferd Stefan & Cathy D. Wolfla
348	5524	Rum Cherry Wa	Indianapolis, IN 46237	Ginger M. Adams
349	5532	Rum Cherry Wa	Indianapolis, IN 46237	Nguyen, Sang V & Hao T Pham (H&W)
350	5538	Rum Cherry Wa	Indianapolis, IN 46237	Stephanie L. Humerickhouse
351	5544	Rum Cherry Wa	Indianapolis, IN 46237	Monica Garcia
352	5550	Rum Cherry Wa	Indianapolis, IN 46237	Frank N. & Helen Angelyn Rojas
353	5602	Rum Cherry Wa	Indianapolis, IN 46237	Penny Pero
354	5608	Rum Cherry Wa	Indianapolis, IN 46237	Michelle Magana
355	5620	Cherry Field Dr	Indianapolis, IN 46237	Matthew A. & Karlyn K. Strack
356	5628	Cherry Field Dr	Indianapolis, IN 46237	Vicki L. Lang
357	5634	Cherry Field Dr	Indianapolis, IN 46237	George D. & Christy Lynn Walton
358	5638	Cherry Field Dr	Indianapolis, IN 46237	James H. & Cheri L. Gable
359	5635	Cherry Field Dr	Indianapolis, IN 46237	David R. Mcdougall, & Mary L. Givens
360	5627	Cherry Field Dr	Indianapolis, IN 46237	Highfill, David M & Sherry L Whipkey-Highfill
361	5621	Cherry Field Dr	Indianapolis, IN 46237	Vincent J. & Donna L. Prendergast
362	5615	Cherry Field Dr	Indianapolis, IN 46237	Lou Ellen Sears
363	5609	Cherry Field Dr	Indianapolis, IN 46237	Yan & Guang Zhang
364	5616	Rum Cherry Wa	Indianapolis, IN 46237	Jose D. & Ruby R. Dativas
365	3902	Jekyll Ct	Indianapolis, IN 46237	Terence & ebecca S. Cress
366	3901	Jekyll Ct	Indianapolis, IN 46237	Michael F. & Carol A. Cogdill
367	3828	St Simons Ct	Indianapolis, IN 46237	William C III & Lindsay A. Eland
368	3834	St Simons Ct	Indianapolis, IN 46237	Robert F. Slivka
369	3827	St Simons Ct	Indianapolis, IN 46237	Jeffrey D. Colford
370	3833	St Simons Ct	Indianapolis, IN 46237	David L. & Barbara S. Sweeney
371	3841	St Simons Ct	Indianapolis, IN 46237	Tammie J. Sorley
372	3909	St Simons Ct	Indianapolis, IN 46237	John A. & Stephanie L. Boosey
373	3842	Brunswick Av	Indianapolis, IN 46237	Mary L. & Jason Brewer
374	3836	Brunswick Av	Indianapolis, IN 46237	Melanie N. Holliday
375	3830	Brunswick Av	Indianapolis, IN 46237	Bradley & Barbara Delagrange
376	3824	Brunswick Av	Indianapolis, IN 46237	Wesley R. Woodhull
377	3818	Brunswick Av	Indianapolis, IN 46237	David Eric Smith
378	3819	Brunswick Av	Indianapolis, IN 46237	Ronald J. & Kimberly A. Smith
379	3823	Brunswick Av	Indianapolis, IN 46237	Matthew A. & Susan L. Whitman
380	3833	Brunswick Av	Indianapolis, IN 46237	Donald E. Sr & Patricia J. Allen
381	3843	Brunswick Av	Indianapolis, IN 46237	Mindy M. Schelling
382	3907	Brunswick Av	Indianapolis, IN 46237	Jennifer S. Gamboa

Receptor No.	Street Number	Street	City, State, Zip	Owner Name
383	3915	Brunswick Av	Indianapolis, IN 46237	Robert E. Brummett
384	3921	Brunswick Av	Indianapolis, IN 46237	Chanel E. Finzen
385	3906	Maple Manor Dr	Indianapolis, IN 46237	Richard L. & Carol S. Whitsit
386	3838	Maple Manor Dr	Indianapolis, IN 46237	James D., Jr & Jennifer R. Sheard
387	3832	Maple Manor Dr	Indianapolis, IN 46237	Lisa Gail Lynch
388	3826	Maple Manor Dr	Indianapolis, IN 46237	Highfill, David & Sherry Whipkey Highfill
389	3820	Maple Manor Dr	Indianapolis, IN 46237	Mason A. Begley
390	3819	Maple Manor Dr	Indianapolis, IN 46237	Michael D. Byrd
391	3825	Maple Manor Dr	Indianapolis, IN 46237	James O. & Joyce A. Cooper
392	3831	Maple Manor Dr	Indianapolis, IN 46237	Mark A. Staggs
393	3837	Maple Manor Dr	Indianapolis, IN 46237	Christopher S. & Heather A. York
394	3901	Maple Manor Dr	Indianapolis, IN 46237	Brian K. & Robyn N. Ludlow
395	3907	Maple Manor Dr	Indianapolis, IN 46237	Eric J. & Michelle I. Isaacson
396	3913	Maple Manor Dr	Indianapolis, IN 46237	Jerry J. & Betty J. Tucker
397	3908	E Edgewood Av	Indianapolis, IN 46237	Phyllis M. Kidd
398	3902	E Edgewood Av	Indianapolis, IN 46237	Peter G. & Jackie S. Campbell
399	3836	E Edgewood Av	Indianapolis, IN 46237	Jason L. Williams
400	3830	E Edgewood Av	Indianapolis, IN 46237	Harry Daniel & Karen Ruth De Witt
401	3837	E Edgewood Av	Indianapolis, IN 46237	Marshall P. & Dorothy A. Grant
402	3841	E Edgewood Av	Indianapolis, IN 46237	Troy ,Sr & Loretta Fugate
403	3901	E Edgewood Av	Indianapolis, IN 46237	Doris D. Wehlage
404	3911	E Edgewood Av	Indianapolis, IN 46237	Scottie W & Mandy Jonte Steinbrook
405	6130	Gray Rd	Indianapolis, IN 46237	David J. Munn
406	3922	Gray Arbor Wa	Indianapolis, IN 46237	Vasko, Gary & Christine
407	3916	Gray Arbor Wa	Indianapolis, IN 46237	Brian Murle & Melissa K. Halcomb
408	3917	Gray Arbor Dr	Indianapolis, IN 46237	Adam T. Brawner
409	3921	Gray Arbor Dr	Indianapolis, IN 46237	Thomas C. & Deborah K. Miller
410	3925	Gray Arbor Dr	Indianapolis, IN 46237	Brenda Sue Cook
411	3929	Gray Arbor Dr	Indianapolis, IN 46237	Jacob Pointer
412	3935	Gray Arbor Dr	Indianapolis, IN 46237	Talmadge & Marsha Bookout
413	3941	Gray Arbor Dr	Indianapolis, IN 46237	David C. & Michell D. Michael
414	3947	Gray Arbor Dr	Indianapolis, IN 46237	Pamela Elsey
415	4007	Gray Arbor Dr	Indianapolis, IN 46237	Jean Feldhake
416	4005	Gray Arbor Wa	Indianapolis, IN 46237	Douglas A. & Shelley R. Crawford
417	3939	Gray Arbor Wa	Indianapolis, IN 46237	Angel Vargas Luna
418	3931	Gray Arbor Wa	Indianapolis, IN 46237	Ronald J. & Maria C. Schwager
419	3924	Gray Arbor Wa	Indianapolis, IN 46237	Corey Freudenstein
420	3940	Gray Arbor Wa	Indianapolis, IN 46237	Jana L. Kime
421	4004	Gray Arbor Wa	Indianapolis, IN 46237	Jared S. Summeier
422	6359	Perry Pines Ct	Indianapolis, IN 46237	Jeffrey Neal & Beth A. Zorman
423	6353	Perry Pines Ct	Indianapolis, IN 46237	Dana R. & Matt Swales
424	6347	Perry Pines Ct	Indianapolis, IN 46237	Magdalena J. Mc Hargue
425	6337	Perry Pines Ct	Indianapolis, IN 46237	Brandon & Anna Peters
426	6331	Perry Pines Ct	Indianapolis, IN 46237	Duane L. & Carol L. King
427	6327	Perry Pines Ct	Indianapolis, IN 46237	Robert, Jr & Bethany Mueller
428	6323	Perry Pines Ct	Indianapolis, IN 46237	Michael E. & Tiffany F. Eland
429	6322	Perry Pines Ct	Indianapolis, IN 46237	Alyce Thorstad
430	6326	Perry Pines Ct	Indianapolis, IN 46237	Wilma J. Judd
431	6330	Perry Pines Ct	Indianapolis, IN 46237	Hutton, Jamie L Trustee Under The Jamie L Hutton
432	6334	Perry Pines Ct	Indianapolis, IN 46237	Castillo-Burgos, Luz M & Angel Burgos
433	6338	Perry Pines Ct	Indianapolis, IN 46237	Michael K. & Marilyn S. Sutherlin
434	6342	Perry Pines Ct	Indianapolis, IN 46237	Laforte, Maurice P li & Elizabeth S Cox
435	6406	Perry Pines Ct	Indianapolis, IN 46237	Jonathan Murphy
436	6412	Perry Pines Ct	Indianapolis, IN 46237	Emily D. Rushton
437	6418	Perry Pines Ct	Indianapolis, IN 46237	Alex E. & Nancy Y. Martinez
438	6424	Perry Pines Ct	Indianapolis, IN 46237	Lori L. Ellis
439	6430	Perry Pines Ct	Indianapolis, IN 46237	Trieu, Lillian & Phuong Van Nguyen
440	6436	Perry Pines Ct	Indianapolis, IN 46237	Peggy J. Stevens

Receptor No.	Street Number	Street	City, State, Zip	Owner Name
441	6440	Perry Pines Ct	Indianapolis, IN 46237	James Bernard II & Lindsay C. Urrutia
442	6444	Perry Pines Ct	Indianapolis, IN 46237	Stephen T. Colinco
443	6447	Perry Pines Ct	Indianapolis, IN 46237	John E. & Kathy K. Mc Dowell
444	6437	Perry Pines Ct	Indianapolis, IN 46237	Richard & Karen Fyten
2001	6409	Perry Pines Ct	Indianapolis, IN 46237	Mandy Nelson & Mary Nelson
2002	6415	Perry Pines Ct	Indianapolis, IN 46237	Juvirse J. Brown
2003	6421	Perry Pines Ct	Indianapolis, IN 46237	Jeremy J. McGee & Trena L. Robinson
2004	6427	Perry Pines Ct	Indianapolis, IN 46237	Kristy L. Shaffer
2005	6433	Perry Pines Ct	Indianapolis, IN 46237	Tamika I. Griffin
2006	6432	Perry Pines Ct	Indianapolis, IN 46237	Kevin R. & Lisa C. Mennel
2007	6354	Perry Pines Ct	Indianapolis, IN 46237	Tim M. Smith
2008	6431	Perry Pines Ct	Indianapolis, IN 46237	Samuel & Iyadunni Awosanya
2009	6417	Perry Pines Ct	Indianapolis, IN 46237	Rosendo H & Juana Garcia
2010	6407	Perry Pines Ct	Indianapolis, IN 46237	Karen A. Jones & Kevin R. McAndrews
2011	6365	Perry Pines Ct	Indianapolis, IN 46237	James T. & Maria J. Norris
445	6438	Gray Rd	Indianapolis, IN 46237	Bryan D. & Breanne N. Rubeck
446	6450	Gray Rd	Indianapolis, IN 46237	Theresa Waters
447	6460	Gray Rd	Indianapolis, IN 46237	Darryl Dean & Anastasia N. Mitchell
448	6506	Gray Rd	Indianapolis, IN 46237	Kenneth R. Matkins
449	6519	Gray Rd	Indianapolis, IN 46237	David L. Mccrary
450	4144	Moss Ridge Ln	Indianapolis, IN 46237	Gregory S. & Linda S. Hoffman
451	4136	Moss Ridge Ln	Indianapolis, IN 46237	Jack C. & Mary E. Finney
452	4130	Moss Ridge Ln	Indianapolis, IN 46237	Fred C. Poe
453	4124	Moss Ridge Ln	Indianapolis, IN 46237	Richard D. Cunneen
454	4114	Moss Ridge Ln	Indianapolis, IN 46237	Robert D. Vane
455	4115	Moss Ridge Ln	Indianapolis, IN 46237	Timothy R. & Lora K. Hansell
456	4121	Moss Ridge Ln	Indianapolis, IN 46237	James W. Tilton & Mary Jo Zajeski
457	4151	Moss Ridge Ln	Indianapolis, IN 46237	Russell E. & Sarah E. Glassburn
458	4226	Moss Ridge Ct	Indianapolis, IN 46237	Archie L. & Joanna Russell
459	4218	Moss Ridge Ct	Indianapolis, IN 46237	Michael D. & Sharon L. Hunt
460	4210	Moss Ridge Ct	Indianapolis, IN 46237	Michael D., II & Danielle L. Chrysler
461	4209	Moss Ridge Ct	Indianapolis, IN 46237	Jeffrey E. & Patty S. Lathrop
462	4215	Moss Ridge Ct	Indianapolis, IN 46237	Richard H. & Leah R. Winzenread
463	4225	Moss Ridge Ct	Indianapolis, IN 46237	Paul Douglas & Therese Ann Bippus
464	4233	Moss Ridge Ct	Indianapolis, IN 46237	Dwight Hensley
465	4241	Moss Ridge Ct	Indianapolis, IN 46237	Robert J., Jr & Gwendolyn Hamm
466	4324	Moss Ridge Ci	Indianapolis, IN 46237	Prabhjot S. & Amarjit K. Chauhan
467	4316	Moss Ridge Ci	Indianapolis, IN 46237	William B. & Sharon L. Bryant
468	4306	Moss Ridge Ci	Indianapolis, IN 46237	Jose E. & Olga P. Castellanos
469	4302	Moss Ridge Ci	Indianapolis, IN 46237	Kamal & Ferial Sufan
470	4305	Moss Ridge Ci	Indianapolis, IN 46237	Kyle & Kimberly Akers
471	4311	Moss Ridge Ci	Indianapolis, IN 46237	Steven J. & Julia M. Conner
472	4319	Moss Ridge Ci	Indianapolis, IN 46237	Duane P. & Kellie L. Polley
473	4327	Moss Ridge Ci	Indianapolis, IN 46237	Anthony J. & Erin M. Turk
474	4335	Moss Ridge Ci	Indianapolis, IN 46237	Stephen O. Jones
475	6714	Moss Creek Pl	Indianapolis, IN 46237	Robert Todd & Glenna Teresa Musser
476	6722	Moss Creek Pl	Indianapolis, IN 46237	Larry J. & Charlene A. Pierle
479	2901	Redfern Dr	Indianapolis, IN 46227	Thomas J, Sr & Jane R. Meier
480	4425	Ingleside Ln	Indianapolis, IN 46227	Patricia R. Barber
481	3015	Redfern Dr	Indianapolis, IN 46227	Marlin J. & Stephanie J. Sechrist
482	4451	Carson Av	Indianapolis, IN 46227	Phyllis Z. McKinney
483	3202	Redfern Dr	Indianapolis, IN 46227	Donald R. & Barbara J. Bush
484	3301	Redfern Dr	Indianapolis, IN 46227	James C. & Jean E. Butcher
485	3216	Lindbergh Dr	Indianapolis, IN 46237	Robert M. & Sally A. Hyde
486	3210	Lindbergh Dr	Indianapolis, IN 46237	Annette D. Lane
487	3202	Lindbergh Dr	Indianapolis, IN 46237	Anthony Weaver
488	3150	Lindbergh Dr	Indianapolis, IN 46237	Emerson, Mark S & Denise R
489	3213	Lindbergh Dr	Indianapolis, IN 46237	Norma J. & Mark Alan Matthias
490	3209	Lindbergh Dr	Indianapolis, IN 46237	Nichole D. & Daniel J., Jr Olin

Receptor No.	Street Number	Street	City, State, Zip	Owner Name
491	3205	Lindbergh Dr	Indianapolis, IN 46237	Darla J. Sears
492	3155	Lindbergh Dr	Indianapolis, IN 46237	Larry S. & Anita L. Evans
493	3220	Chamberlin Dr	Indianapolis, IN 46227	Margie Troutman
494	3216	Chamberlin Dr	Indianapolis, IN 46227	Elizabeth R. Borton
495	3214	Chamberlin Dr	Indianapolis, IN 46227	Gary W. & Belinda E. Neidlinger
496	3212	Chamberlin Dr	Indianapolis, IN 46227	Paul R. Carmen
497	3208	Chamberlin Dr	Indianapolis, IN 46227	Dennis A. & Victoria F. Fox
498	3225	Chamberlin Dr	Indianapolis, IN 46227	John D ,Jr. & Amy M. Hammond
499	3223	Chamberlin Dr	Indianapolis, IN 46227	Rosella J. Tittle
500	3213	Chamberlin Dr	Indianapolis, IN 46227	Michael J. Tittle
501	3211	Chamberlin Dr	Indianapolis, IN 46227	Michael J. Tittle
502	3214	Byrd Dr	Indianapolis, IN 46227	Jeremy A. Guillemette & Brandi Mercer
503	3210	Byrd Dr	Indianapolis, IN 46227	Kevin E. & Donna S. Long
504	3204	Byrd Dr	Indianapolis, IN 46227	Thomas F. & Diana L. Maier
505	3202	Byrd Dr	Indianapolis, IN 46227	Donald F. & Barbara A. Huddleston
506	3211	Byrd Dr	Indianapolis, IN 46227	John S. & Deborah L. Cairns
507	3205	Byrd Dr	Indianapolis, IN 46227	Jonathan D. & Carla L. Thomas
508	3203	Byrd Dr	Indianapolis, IN 46227	David E. & Karen L. Davis
509	3500	E Thompson Rd	Indianapolis, IN 46227	CHURCH, PARC-WAY ASSEMBLY OF GOD
510	3410	Rue Chanel (clubhouse)	Indianapolis, IN 46228	FSF PARC BORDEAUX ASSOCIATES, LLC
561	3333	E Thompson Rd	Indianapolis, IN 46237	SHIRLEY REALTY ASSOCIATES
563	3528	Redwood Dr	Indianapolis, IN 46227	Elizabeth Snyder
564	3536	Redwood Dr	Indianapolis, IN 46227	Michael K. Morris
565	3602	Redwood Dr	Indianapolis, IN 46227	Dorinda Harbaugh
566	3610	Redwood Dr	Indianapolis, IN 46227	Richard A. Qualls
567	3618	Redwood Dr	Indianapolis, IN 46227	Ernest & Carol Crenshaw
568	5503	S Kealing Av	Indianapolis, IN 46227	Billie J. Huntman
569	5511	S Kealing Av	Indianapolis, IN 46227	Daniel & C. Samantha Fitzgerald
570	5519	S Kealing Av	Indianapolis, IN 46227	James David & Kimberly A. Dawson
571	5527	S Kealing Av	Indianapolis, IN 46227	Michael E. Monaghan
572	5601	S Kealing Av	Indianapolis, IN 46227	Jason & Julie Crewe
573	5609	S Kealing Av	Indianapolis, IN 46227	Theresa A. Wright
574	5617	S Kealing Av	Indianapolis, IN 46227	Kelly L. Gratien
575	5623	S Kealing Av	Indianapolis, IN 46227	Margaret E. Mcintosh
576	5629	S Kealing Av	Indianapolis, IN 46227	Richard E. & Cindy L. Perry
577	5633	S Kealing Av	Indianapolis, IN 46227	Thomas E. & Deborah S. Negri
578	5639	S Kealing Av	Indianapolis, IN 46227	Joseph D. & Rebecca L. Essex
579	5703	S Kealing Av	Indianapolis, IN 46227	Emily M. Phipps
580	3632	S Kealing Ct	Indianapolis, IN 46227	John O. & Marilyn J. Bullens
581	3635	S Kealing Ct	Indianapolis, IN 46227	Adam D. & Melissa L. Long
582	3627	S Kealing Ct	Indianapolis, IN 46227	Bobby L., Jr & Angie L. Jobe
583	3621	Ferncliff Av	Indianapolis, IN 46227	H & H Property Investments Inc
584	3615	Ferncliff Av	Indianapolis, IN 46227	Douglas A. Johnson
585	3618	Ferncliff Av	Indianapolis, IN 46227	Denney, Perry J & Rabenia S Trustees Denney Family Trust
586	5704	S Kealing Av	Indianapolis, IN 46227	Kevin M. Quillen & Dorothy J. Carey
587	5638	S Kealing Av	Indianapolis, IN 46227	H & H Property Investments Inc
588	3611	Royal Oak Dr	Indianapolis, IN 46227	Robert Hawkins
589	5622	S Kealing Av	Indianapolis, IN 46227	Barbara A. Englert
590	5614	S Kealing Av	Indianapolis, IN 46227	Joseph P., Jr & Shelli L. Wohlhieter
591	5608	S Kealing Av	Indianapolis, IN 46227	Thomas L. & Janet R. Springer
592	5532	S Kealing Av	Indianapolis, IN 46227	Jesus F. Cardoza
593	5524	S Kealing Av	Indianapolis, IN 46227	Marco V. Patino
594	5516	S Kealing Av	Indianapolis, IN 46227	Stanley O. & Rita J. Hall
595	5508	S Kealing Av	Indianapolis, IN 46227	Gary L. & Debra L. Sowders
596	3605	Redwood Dr	Indianapolis, IN 46227	Sharon K. Keim
597	3539	Redwood Dr	Indianapolis, IN 46227	Paul E. & Nancy J. Behymer
598	3530	E Dudley Av	Indianapolis, IN 46227	James T. & Joan M. Bartley
599	5605	S Gale St	Indianapolis, IN 46227	Paul D.& Rose Marie Russell

Receptor No.	Street Number	Street	City, State, Zip	Owner Name
600	5615	S Gale St	Indianapolis, IN 46227	Robert & Carol R. Pollak
601	3610	Royal Oak Dr	Indianapolis, IN 46227	Christopher L. & Jodie L. Nelson
602	5625	S Gale St	Indianapolis, IN 46227	SECRETARY OF HOUSING & URBAN DEVELOPMENT % HARRINGTON MORAN BARKSDALE INC
603	3616	Whalen Av	Indianapolis, IN 46227	Ralph, Jr & Virginia F. De Boor
604	3626	Whalen Av	Indianapolis, IN 46227	Donald M. & Janet I. Carney
605	3636	Whalen Av	Indianapolis, IN 46227	Kevin L. Carney
606	5737	S Kealing Av	Indianapolis, IN 46227	Robert A. & Linda E. Thompson
607	5745	S Kealing Av	Indianapolis, IN 46227	Gloria Houchell
608	5801	S Kealing Av	Indianapolis, IN 46227	Rasnic, Steven James & Stephanie A Rasdell-Rasnic
609	5811	S Kealing Av	Indianapolis, IN 46227	Mark A. & Kelli R. Ramsey
610	5821	S Kealing Av	Indianapolis, IN 46227	Jeffrey M. & Kerry N. Anderson
611	5831	S Kealing Av	Indianapolis, IN 46227	Ronald D. Tanner
612	5841	S Kealing Av	Indianapolis, IN 46227	James L. Jackson
613	3641	E Brunswick Av	Indianapolis, IN 46227	Stephen R. & Roseanne Keefe
614	3631	E Brunswick Av	Indianapolis, IN 46227	Judith E. Villegas
615	3615	Whalen Av	Indianapolis, IN 46227	Ronald Mccord
616	3625	Whalen Av	Indianapolis, IN 46227	Faith Property Management LLC,
617	5806	S Kealing Av	Indianapolis, IN 46227	Barbara J. Bruce
618	5816	S Kealing Av	Indianapolis, IN 46227	Jo Ann Kouts
619	5838	S Kealing Av	Indianapolis, IN 46227	Bradley S. & Stephanie Parks
620	3626	E Brunswick Av	Indianapolis, IN 46227	Martin & Maria M. Ponce
621	3712	E Edgewood Av	Indianapolis, IN 46227	F James & Wanda I Nordsiek
622	3704	E Edgewood Av	Indianapolis, IN 46227	Basilio J., Jr & Nenita Delacruz
623	3330	E Edgewood Av	Indianapolis, IN 46227	Bryan K. & Deborah S. Himes
624	3630	E Edgewood Av	Indianapolis, IN 46227	Donald P. & Jonnie F. Harris
625	3417	E Edgewood Av	Indianapolis, IN 46227	Emma Jean Rhoton
626	3401	E Edgewood Av	Indianapolis, IN 46227	Rhoton, Stanley & Emma J Daniels
627	3351	E Edgewood Av	Indianapolis, IN 46227	Vicki L. Davis
628	3810	Busy Bee Ln	Indianapolis, IN 46227	Martha P. Reardon
629	3736	Busy Bee Ln	Indianapolis, IN 46227	Jacqueline M. Ray
630	3530	Busy Bee Ln	Indianapolis, IN 46227	Edward M., Jr & Ageline Petronie
631	3420	Busy Bee Ln	Indianapolis, IN 46227	Lawrence A. & Barbara Voorheis
632	3531	Busy Bee Ln	Indianapolis, IN 46227	Stanley T. & Teresa K. Mayo
633	6315	S Sherman Dr	Indianapolis, IN 46227	Donald R. & Beverly G. Newman
634	6325	S Sherman Dr	Indianapolis, IN 46227	Sanja Puletz
635	6335	S Sherman Dr	Indianapolis, IN 46227	Gregg A. & Kathleen M. Inman
636	6351	S Sherman Dr	Indianapolis, IN 46227	Douglas W. & Katherine M. Kuhn
637	6425	S Sherman Dr	Indianapolis, IN 46227	Larry L. & Wanda K. Cooney
638	6445	S Sherman Dr	Indianapolis, IN 46227	Eric M. & Melanie F. Crouch
639	6600	Gray Rd	Indianapolis, IN 46237	Allen S. & Susan L. Anderson
640	3932	Mi Casa Av	Indianapolis, IN 46237	Church, St Pauls Evangelical Lutheran Trs
641	6721	Gray Rd	Indianapolis, IN 46237	K F M Partners, Lp C/O Harry C Kim
642	6745	Gray Rd	Indianapolis, IN 46237	Ceeco & Associates, Inc Suite D
643	6755	Gray Rd	Indianapolis, IN 46237	Solar Sources, Inc % Felson Bowman
644	4150	Kildeer Dr	Indianapolis, IN 46237	Ceeco & Associates Inc
645	4049	Kildeer Dr	Indianapolis, IN 46237	Extra Space Properties Thirty Llc % Extra Space Storage Llc Attn: Real Estate Legal
646	4402	E Creekview Dr	Indianapolis, IN 46237	Jer/Jameson Properties Llc % Longhouse Hospitality Suite 200
647	4650	E Southport Rd	Indianapolis, IN 46237	DAB Investments, Southport Commons
648	4441	Southport Cross Dr	Indianapolis, IN 46237	Bef Reit, Inc
649	4670	Southport Cross Dr	Indianapolis, IN 46237	Brisam Court Indy Llc
650	4690	Southport Cross Dr	Indianapolis, IN 46237	Private Restaurant Properties, Llc Suite 470a
671	3713	Lickridge Ln. S. Dr #1	Indianapolis, IN 46227	Sawmill Apartments
672	3713	Lickridge Ln. S. Dr #2	Indianapolis, IN 46227	Sawmill Apartments
673	3713	Lickridge Ln. S. Dr #3	Indianapolis, IN 46227	Sawmill Apartments

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Receptor No.	Street Number	Street	City, State, Zip	Owner Name
733	3720	Lickridge Ln. N. Dr. #5	Indianapolis, IN 46227	Sawmill Apartments
734	3720	Lickridge Ln. N. Dr. #6	Indianapolis, IN 46227	Sawmill Apartments
735	3724	Lickridge Ln. N. Dr. #1	Indianapolis, IN 46227	Sawmill Apartments
736	3724	Lickridge Ln. N. Dr. #2	Indianapolis, IN 46227	Sawmill Apartments
737	3724	Lickridge Ln. N. Dr. #3	Indianapolis, IN 46227	Sawmill Apartments
738	3724	Lickridge Ln. N. Dr. #4	Indianapolis, IN 46227	Sawmill Apartments
739	3724	Lickridge Ln. N. Dr. #5	Indianapolis, IN 46227	Sawmill Apartments
740	3724	Lickridge Ln. N. Dr. #6	Indianapolis, IN 46227	Sawmill Apartments
761	4416	Lickridge Ct. #1	Indianapolis, IN 46227	Sawmill Apartments
762	4416	Lickridge Ct. #2	Indianapolis, IN 46227	Sawmill Apartments
763	4416	Lickridge Ct. #3	Indianapolis, IN 46227	Sawmill Apartments
764	4416	Lickridge Ct. #4	Indianapolis, IN 46227	Sawmill Apartments
767	4420	Lickridge Ct. #1	Indianapolis, IN 46227	Sawmill Apartments
768	4420	Lickridge Ct. #2	Indianapolis, IN 46227	Sawmill Apartments
1001	3300	Prague Rd	Indianapolis, IN 46227	Roncalli High School - baseball
1002	3300	Prague Rd	Indianapolis, IN 46227	Roncalli High School - practice field
1003	3300	Prague Rd	Indianapolis, IN 46227	Roncalli High School - softball 1
1004	3300	Prague Rd	Indianapolis, IN 46227	Roncalli High School - softball 2
1005	3300	Prague Rd	Indianapolis, IN 46227	Roncalli High School - tennis
1006	5145	S LaSalle St	Indianapolis, IN 46227	Roman Catholic Archdiocese of Indianapolis Properties, Inc.
1007	5129	S LaSalle St	Indianapolis, IN 46227	Darlene Kay & Charles G. Bowman

Notes:

1. Stone Lake Apartments do not have outdoor spaces therefore no receptors modeled
2. Rue Chanel Apartments: Pool/Clubhouse only outdoor space therefore nothing else in complex was modeled
3. Receptor Numbers 261-300, 477-478, and 651-670 are not used.
4. Majority of receptors in the study area are Category B, except as noted by highlights.

	Category C
	Category E

APPENDIX B

TRAFFIC FORECAST

Current Year Traffic Data (2011)

Direction	Segment		VPH		% Trucks		AM		PM		LOS C	Lane 1		Lane 2		Lane 3	
	From	To	Peak AM	Peak PM	AM	PM	Cars	Trucks	Cars	Trucks		Cars (40%)	Trucks (47%)	Cars (35%)	Trucks (50%)	Cars (25%)	Trucks (3%)
I-65 NB	Southport	I-465	5500	3300	15	16	4675	825	2772	528	AM	1870	388	1636	413	1169	25
Ramp	I-65 NB	I-465 EB/WB	2220	2032			1957	263	1736	296	AM						
Ramp	I-465 EB/WB	I-465 EB	1502	1314	7	11	1397	105	1169	145	AM						
Ramp	I-465 EB/WB	I-465 WB	718	718	22	21	560	158	567	151	AM						
I-65 NB	I-465 EB/WB	Merge Lane	2857	1039	3	15	2771	86	883	156	AM	1108	40	970	43	693	3
Ramp	I-465 EB	I-65 NB	449	337	3	7	436	13	313	24	AM						
I-65 NB	Merge Lane	Merge Lane	3306	1376			3207	99	1196	180	AM	1283	47	1122	50	802	3
Ramp	I-465 WB	I-65 NB	1135	516	3	8	1101	34	475	41	AM						
I-65 NB	Merge Lane	Keystone	4609	2095	12	13	4056	553	1823	272	AM	1622	260	1420	277	1014	17
I-65 SB	Keystone	I-465 EB/WB	2264	4527	14	12	1947	317	3984	543	AM	779	149	681	159	487	10
Ramp	I-65 SB	I-465 EB/WB	752	1502			692	60	1447	55	AM						
Ramp	I-465 EB/WB	I-465 EB	476	951	9	4	433	43	913	38	AM						
Ramp	I-465 EB/WB	I-465 WB	276	551	6	3	259	17	534	17	AM						
I-65 SB	I-465 EB/WB	Merge Lane	1513	3328	17	16	1256	257	2796	532	AM	502	121	440	129	314	8
Ramp	I-465 WB	I-65 SB	1099	1099	9	12	1000	99	967	132	AM						
I-65 SB	Merge Lane	Merge Lane	2612	4427			2256	356	3763	664	AM	902	167	790	178	564	11
Ramp	I-465 EB	I-65 SB	696	928	17	12	578	118	817	111	AM						
I-65 SB	Merge Lane	Southport	2878	5180	15	14	2446	432	4455	725	AM	978	203	856	216	612	13
I-465 EB	US 31	I-65 SB	3388	3290	14	15	2914	474	2797	494	AM	1166	223	1020	237	729	14
Ramp	I-465 EB	I-65 SB	700	928	17	12	581	119	817	111	AM						
I-465 EB	I-65 SB	Merge Lane	2688	2362			2333	355	1980	383	AM	933	167	817	178	583	11
Ramp	I-465 EB	I-65 NB	449	337	3	7	436	13	313	24	AM						
I-465 EB	I-65 NB	Merge Lane	2383	2085	15	17	2026	357	1731	354	AM	810	168	709	179	507	11
Ramp	I-465 EB/WB	I-465 EB	476	951	9	4	433	43	913	38	AM						
I-465 EB	Merge Lane	Merge Lane	2859	3036			2459	400	2644	392	AM	984	188	861	200	615	12
Ramp	I-465 EB/WB	I-465 EB	1502	1314	7	11	1397	105	1169	145	AM						
I-465 EB	Merge Lane	Merge Lane	4646	4065	11	13	4135	511	3537	528	AM	1654	240	1447	256	1034	15
Ramp	I-465 EB	Emerson	779	1169	3	2	756	23	1146	23	AM						
I-465 EB	Emerson	Merge Lane	3867	2896			3379	488	2391	505	AM	1352	229	1183	244	845	15
Ramp	Emerson	I-465 EB	1267	806	2	1	1242	25	798	8	AM						
I-465 EB	Emerson	I-74	5094	3962	11	13	4534	560	3447	515	AM	1814	263	1587	280	1134	17
I-465 WB	Emerson Exit	Merge Lane	2061	3709	19	16	1669	392	3116	593	AM	668	184	584	196	417	12
Ramp	Emerson	I-465 WB	1215	810	3	2	1179	36	794	16	AM						
I-465 WB	Merge Lane	I-65 NB	3283	4377	15	13	2791	492	3808	569	AM	1116	231	977	246	698	15
Ramp	I-465 WB	I-65 NB	271	516	3	8	263	8	475	41	AM						
I-465 WB	I-65 NB exit	I-65 SB exit	3012	3861			2528	484	3333	528	AM	1011	227	885	242	632	15
Ramp	I-465 WB	I-65 SB	1099	1099	9	12	1000	99	967	132	AM						
I-465 WB	I-65 SB exit	I-65 SB	1148	2869	22	15	895	253	2439	430	AM	358	119	313	127	224	8
Ramp	I-65 NB	I-465 WB	718	718	22	21	560	158	567	151	AM						
I-465 WB	Merge Lane	Merge Lane	1866	3587			1455	411	3006	581	AM	582	193	509	206	364	12
Ramp	I-465 EB/WB	I-465 WB	276	551	6	3	259	17	534	17	AM						
I-465 WB	Merge Lane	US 31	2223	4001	20	15	1778	445	3401	600	AM	711	209	622	223	445	13

Design Year Traffic Data (2032)

Direction	Segment		VPH		% Trucks		AM		PM		LOS C	Lane 1		Lane 2		Lane 3	
	From	To	Peak AM	Peak PM	AM	PM	Cars	Trucks	Cars	Trucks		Cars (40%)	Trucks (47%)	Cars (35%)	Trucks (50%)	Cars (25%)	Trucks (3%)
I-65 NB	Southport	I-465	6367		15	16	5412	955	0	0	AM	2165	449	1894	478	1353	29
Ramp	I-65 NB	I-465 EB/WB	2570				2265	305	0	0	AM						
Ramp	I-465 EB/WB	I-465 EB	1738		7	11	1616	122	0	0	AM						
Ramp	I-465 EB/WB	I-465 WB	832		22	21	649	183	0	0	AM						
I-65 NB	I-465 EB/WB	Merge Lane	3307		3	15	3208	99	0	0	AM	1283	47	1123	50	802	3
Ramp	I-465 EB	I-65 NB	519		3	7	503	16	0	0	AM						
I-65 NB	Merge Lane	Merge Lane	3826				3711	115	0	0	AM	1484	54	1299	58	928	3
Ramp	I-465 WB	I-65 NB	1315		3	8	1276	39	0	0	AM						
I-65 NB	Merge Lane	Keystone	5335		12	13	4695	640	0	0	AM	1878	301	1643	320	1174	19
I-65 SB	Keystone	I-465 EB/WB	2620		14	12	2253	367	0	0	AM	901	172	789	184	563	11
Ramp	I-65 SB	I-465 EB/WB	870	0			801	69	0	0	AM						
Ramp	I-465 EB/WB	I-465 EB	551		9	4	501	50	0	0	AM						
Ramp	I-465 EB/WB	I-465 WB	319		6	3	300	19	0	0	AM						
I-65 SB	I-465 EB/WB	Merge Lane	1751		17	16	1453	298	0	0	AM	581	140	509	149	363	9
Ramp	I-465 WB	I-65 SB	1272		9	12	1158	114	0	0	AM						
I-65 SB	Merge Lane	Merge Lane	3023	0			2611	412	0	0	AM	1044	194	914	206	653	12
Ramp	I-465 EB	I-65 SB	806		17	12	669	137	0	0	AM						
I-65 SB	Merge Lane	Southport	3331		15	14	2831	500	0	0	AM	849	160	849	160	283	20
I-465 EB	US 31	I-65 SB	3808		14	15	3275	533	0	0	AM	1310	251	1146	267	819	16
Ramp	I-465 EB	I-65 SB	806		17	12	669	137	0	0	AM						
I-465 EB	I-65 SB	Merge Lane	3002	0			2606	396	0	0	AM	1042	186	912	198	652	12
Ramp	I-465 EB	I-65 NB	519		3	7	503	16	0	0	AM						
I-465 EB	I-65 NB	Merge Lane	2758		15	17	2344	414	0	0	AM	938	195	820	207	586	12
Ramp	I-465 EB/WB	I-465 EB	551		9	4	501	50	0	0	AM						
I-465 EB	Merge Lane	Merge Lane	3309	0			2845	464	0	0	AM	1138	218	996	232	711	14
Ramp	I-465 EB/WB	I-465 EB	1738		7	11	1616	122	0	0	AM						
I-465 EB	Merge Lane	Merge Lane	5378		11	13	4786	592	0	0	AM	1914	278	1675	296	1197	18
Ramp	I-465 EB	Emerson	902		3	2	875	27	0	0	AM						
I-465 EB	Emerson	Merge Lane	4476	0			3911	565	0	0	AM	1564	266	1369	283	978	17
Ramp	Emerson	I-465 EB	1466		2	1	1437	29	0	0	AM						
I-465 EB	Emerson	I-74	5897		11	13	5248	649	0	0	AM	2099	305	1837	325	1312	19
I-465 WB	Emerson Exit	Merge Lane	2385		19	16	1932	453	0	0	AM	773	213	676	227	483	14
Ramp	Emerson	I-465 WB	1407		3	2	1365	42	0	0	AM						
I-465 WB	Merge Lane	I-65 NB	3800		15	13	3230	570	0	0	AM	1292	268	1131	285	808	17
Ramp	I-465 WB	I-65 NB	1315		3	8	1276	39	0	0	AM						
I-465 WB	I-65 NB exit	I-65 SB exit	2485	0			1954	531	0	0	AM	782	250	684	266	489	16
Ramp	I-465 WB	I-65 SB	1272		9	12	1158	114	0	0	AM						
I-465 WB	I-65 SB exit	I-65 SB	1328		22	15	1036	292	0	0	AM	414	137	363	146	259	9
Ramp	I-65 NB	I-465 WB	832		22	21	649	183	0	0	AM						
I-465 WB	Merge Lane	Merge Lane	2160	0			1685	475	0	0	AM	674	223	590	238	421	14
Ramp	I-465 EB/WB	I-465 WB	319		6	3	300	19	0	0	AM						
I-465 WB	Merge Lane	US 31	3574		20	15	2859	715	0	0	AM	1144	336	1001	358	715	21

Design Year Traffic Data (2032)

Direction	Segment		VPH		% Trucks		AM		PM		LOS C	Lane SB6		Lane SB5		Lane SB4 (Widening)	
	From	To	Peak AM	Peak PM	AM	PM	Cars	Trucks	Cars	Trucks		Cars	Trucks	Cars	Trucks	Cars	Trucks
I-65 NB	Southport	I-465	6367		15	16	5412	955	0	0	AM						
Ramp	I-65 NB	I-465 EB/WB	2570				2265	305	0	0	AM						
Ramp	I-465 EB/WB	I-465 EB	1738		7	11	1616	122	0	0	AM						
Ramp	I-465 EB/WB	I-465 WB	832		22	21	649	183	0	0	AM						
I-65 NB	I-465 EB/WB	Merge Lane	3307		3	15	3208	99	0	0	AM						
Ramp	I-465 EB	I-65 NB	519		3	7	503	16	0	0	AM						
I-65 NB	Merge Lane	Merge Lane	3826				3711	115	0	0	AM						
Ramp	I-465 WB	I-65 NB	1315		3	8	1276	39	0	0	AM						
I-65 NB	Merge Lane	Keystone	5335		12	13	4695	640	0	0	AM						
I-65 SB	Keystone	I-465 EB/WB	2620		14	12	2253	367	0	0	AM	669	137	579	57		
Ramp	I-65 SB	I-465 EB/WB	870	0			801	69	0	0	AM						
Ramp	I-465 EB/WB	I-465 EB	551		9	4	501	50	0	0	AM						
Ramp	I-465 EB/WB	I-465 WB	319		6	3	300	19	0	0	AM						
I-65 SB	I-465 EB/WB	Merge Lane	1751		17	16	1453	298	0	0	AM						
Ramp	I-465 WB	I-65 SB	1272		9	12	1158	114	0	0	AM						
I-65 SB	Merge Lane	Merge Lane	3023	0			2611	412	0	0	AM						
Ramp	I-465 EB	I-65 SB	806		17	12	669	137	0	0	AM						
I-65 SB	Merge Lane	Southport	3331		15	14	2831	500	0	0	AM					849	160
I-465 EB	US 31	I-65 SB	3808		14	15	3275	533	0	0	AM						
Ramp	I-465 EB	I-65 SB	806		17	12	669	137	0	0	AM						
I-465 EB	I-65 SB	Merge Lane	3002	0			2606	396	0	0	AM						
Ramp	I-465 EB	I-65 NB	519		3	7	503	16	0	0	AM						
I-465 EB	I-65 NB	Merge Lane	2758		15	17	2344	414	0	0	AM						
Ramp	I-465 EB/WB	I-465 EB	551		9	4	501	50	0	0	AM						
I-465 EB	Merge Lane	Merge Lane	3309	0			2845	464	0	0	AM						
Ramp	I-465 EB/WB	I-465 EB	1738		7	11	1616	122	0	0	AM						
I-465 EB	Merge Lane	Merge Lane	5378		11	13	4786	592	0	0	AM						
Ramp	I-465 EB	Emerson	902		3	2	875	27	0	0	AM						
I-465 EB	Emerson	Merge Lane	4476	0			3911	565	0	0	AM						
Ramp	Emerson	I-465 EB	1466		2	1	1437	29	0	0	AM						
I-465 EB	Emerson	I-74	5897		11	13	5248	649	0	0	AM						
I-465 WB	Emerson Exit	Merge Lane	2385		19	16	1932	453	0	0	AM						
Ramp	Emerson	I-465 WB	1407		3	2	1365	42	0	0	AM						
I-465 WB	Merge Lane	I-65 NB	3800		15	13	3230	570	0	0	AM						
Ramp	I-465 WB	I-65 NB	1315		3	8	1276	39	0	0	AM						
I-465 WB	I-65 NB exit	I-65 SB exit	2485	0			1954	531	0	0	AM						
Ramp	I-465 WB	I-65 SB	1272		9	12	1158	114	0	0	AM						
I-465 WB	I-65 SB exit	I-65 SB	1328		22	15	1036	292	0	0	AM						
Ramp	I-65 NB	I-465 WB	832		22	21	649	183	0	0	AM						
I-465 WB	Merge Lane	Merge Lane	2160	0			1685	475	0	0	AM						
Ramp	I-465 EB/WB	I-465 WB	319		6	3	300	19	0	0	AM						
I-465 WB	Merge Lane	US 31	3574		20	15	2859	715	0	0	AM						

Design Year Traffic Data

Design Year Traffic Data (2032)

Direction	Segment		VPH		% Trucks		AM		PM		Lane 0		Lane 1		Lane 2		Lane 3	
	From	To	Peak AM	Peak PM	AM	PM	Cars	Trucks	Cars	Trucks	Cars	Trucks	Cars	Trucks	Cars	Trucks	Cars	Trucks
											30%	30%	30%	40%	30%	28%	10%	2%
I-65 NB	Southport	I-465	6367		15		5412	955	0	0	1624	287	1624	382	1624	267	541	19
											30%	32%	30%	32%	30%	32%	10%	4%
I-65 SB	Southport	I-465	3331		15		2831	500	0	0	849	160	849	160	849	160	283	20
											30%	30%	30%	40%	30%	28%	10%	2%
I-65 NB	Southport	I-465		3820		16	0	0	3209	611	963	183	963	244	963	171	321	12
											30%	30%	30%	40%	30%	28%	10%	2%
I-65 SB	Southport	I-465		5996		14	0	0	5157	839	1547	252	1547	336	1547	235	516	17

APPENDIX C-1
SOUND LEVEL RESULTS

RESULTS: SOUND LEVELS

I-65/I-465 South, DES 0902297

Shrewsberry													
Melanie Barnes													
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		I-65/I-465 South, DES 0902297											
RUN:		I-465 wb lane 1											
BARRIER DESIGN:		INPUT HEIGHTS											
ATMOSPHERICS:		68 deg F, 50% RH											
Receiver													
Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h		Increase over existing	Type		With Barrier Calculated	Noise Reduction			
				Calculated	Crit'n	Calculated	Crit'n	Impact	LAeq1h	Calculated	Goal	Calculated	
							Sub'l Inc					minus	
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
1	1475	1	0.0	68.5	66	68.5	15	Snd Lvl	68.5	0.0	7	-7.0	
2	1476	1	0.0	65.5	66	65.5	15	----	65.5	0.0	7	-7.0	
3	1477	1	0.0	64.1	66	64.1	15	----	64.1	0.0	7	-7.0	
4	1478	1	0.0	67.2	66	67.2	15	Snd Lvl	67.2	0.0	7	-7.0	
5	1479	1	0.0	67.3	66	67.3	15	Snd Lvl	67.3	0.0	7	-7.0	
6	1480	1	0.0	68.0	66	68.0	15	Snd Lvl	68.0	0.0	7	-7.0	
7	1481	1	0.0	68.1	66	68.1	15	Snd Lvl	68.1	0.0	7	-7.0	
8	1482	1	0.0	67.6	66	67.6	15	Snd Lvl	67.6	0.0	7	-7.0	
9	1483	1	0.0	65.2	66	65.2	15	----	65.2	0.0	7	-7.0	
10	1484	1	0.0	64.9	66	64.9	15	----	64.9	0.0	7	-7.0	
11	1485	1	0.0	73.6	66	73.6	15	Snd Lvl	73.6	0.0	7	-7.0	
12	1486	1	0.0	71.8	66	71.8	15	Snd Lvl	71.8	0.0	7	-7.0	
13	1487	1	0.0	63.4	66	63.4	15	----	63.4	0.0	7	-7.0	
14	1488	1	0.0	62.0	66	62.0	15	----	62.0	0.0	7	-7.0	
15	1489	1	0.0	68.6	66	68.6	15	Snd Lvl	68.6	0.0	7	-7.0	
16	1490	1	0.0	71.4	66	71.4	15	Snd Lvl	71.4	0.0	7	-7.0	
17	1491	1	0.0	71.8	66	71.8	15	Snd Lvl	71.8	0.0	7	-7.0	
18	1492	1	0.0	69.7	66	69.7	15	Snd Lvl	69.7	0.0	7	-7.0	
19	1493	1	0.0	69.4	66	69.4	15	Snd Lvl	69.4	0.0	7	-7.0	
20	1494	1	0.0	68.7	66	68.7	15	Snd Lvl	68.7	0.0	7	-7.0	
21	1495	1	0.0	68.2	66	68.2	15	Snd Lvl	68.2	0.0	7	-7.0	
22	1496	1	0.0	67.7	66	67.7	15	Snd Lvl	67.7	0.0	7	-7.0	
23	1497	1	0.0	66.1	66	66.1	15	Snd Lvl	66.1	0.0	7	-7.0	
24	1498	1	0.0	64.7	66	64.7	15	----	64.7	0.0	7	-7.0	

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RESULTS: SOUND LEVELS

I-65/I-465 South, DES 0902297

25	1499	1	0.0	64.1	66	64.1	15	----	64.1	0.0	7	-7.0
26	1500	1	0.0	63.2	66	63.2	15	----	63.2	0.0	7	-7.0
27	1501	1	0.0	62.2	66	62.2	15	----	62.2	0.0	7	-7.0
28	1502	1	0.0	63.1	66	63.1	15	----	63.1	0.0	7	-7.0
29	1503	1	0.0	62.5	66	62.5	15	----	62.5	0.0	7	-7.0
30	1504	1	0.0	63.4	66	63.4	15	----	63.4	0.0	7	-7.0
31	1505	1	0.0	63.7	66	63.7	15	----	63.7	0.0	7	-7.0
32	1506	1	0.0	64.5	66	64.5	15	----	64.5	0.0	7	-7.0
33	1507	1	0.0	64.7	66	64.7	15	----	64.7	0.0	7	-7.0
34	1508	1	0.0	64.5	66	64.5	15	----	64.5	0.0	7	-7.0
35	1509	1	0.0	64.5	66	64.5	15	----	64.5	0.0	7	-7.0
36	1510	1	0.0	64.5	66	64.5	15	----	64.5	0.0	7	-7.0
37	1511	1	0.0	63.3	66	63.3	15	----	63.3	0.0	7	-7.0
38	1512	1	0.0	62.7	66	62.7	15	----	62.7	0.0	7	-7.0
39	1513	1	0.0	62.2	66	62.2	15	----	62.2	0.0	7	-7.0
40	1514	1	0.0	62.6	66	62.6	15	----	62.6	0.0	7	-7.0
41	1515	1	0.0	64.0	66	64.0	15	----	64.0	0.0	7	-7.0
42	1516	1	0.0	65.2	66	65.2	15	----	65.2	0.0	7	-7.0
43	1517	1	0.0	66.4	66	66.4	15	Snd Lvl	66.4	0.0	7	-7.0
44	1518	1	0.0	66.7	66	66.7	15	Snd Lvl	66.7	0.0	7	-7.0
45	1519	1	0.0	66.8	66	66.8	15	Snd Lvl	66.8	0.0	7	-7.0
46	1520	1	0.0	68.8	66	68.8	15	Snd Lvl	68.8	0.0	7	-7.0
47	1521	1	0.0	69.6	66	69.6	15	Snd Lvl	69.6	0.0	7	-7.0
48	1522	1	0.0	64.4	66	64.4	15	----	64.4	0.0	7	-7.0
49	1523	1	0.0	63.8	66	63.8	15	----	63.8	0.0	7	-7.0
50	1524	1	0.0	63.3	66	63.3	15	----	63.3	0.0	7	-7.0
51	1525	1	0.0	62.9	66	62.9	15	----	62.9	0.0	7	-7.0
52	1526	1	0.0	62.2	66	62.2	15	----	62.2	0.0	7	-7.0
53	1527	1	0.0	73.1	66	73.1	15	Snd Lvl	73.1	0.0	7	-7.0
54	1528	1	0.0	70.9	66	70.9	15	Snd Lvl	70.9	0.0	7	-7.0
55	1529	1	0.0	69.6	66	69.6	15	Snd Lvl	69.6	0.0	7	-7.0
56	1530	1	0.0	68.5	66	68.5	15	Snd Lvl	68.5	0.0	7	-7.0
57	1531	1	0.0	74.2	66	74.2	15	Snd Lvl	74.2	0.0	7	-7.0
58	1532	1	0.0	72.9	66	72.9	15	Snd Lvl	72.9	0.0	7	-7.0
59	1533	1	0.0	71.2	66	71.2	15	Snd Lvl	71.2	0.0	7	-7.0
60	1534	1	0.0	70.2	66	70.2	15	Snd Lvl	70.2	0.0	7	-7.0
61	1535	1	0.0	75.4	66	75.4	15	Snd Lvl	75.4	0.0	7	-7.0
62	1536	1	0.0	74.0	66	74.0	15	Snd Lvl	74.0	0.0	7	-7.0
63	1537	1	0.0	73.1	66	73.1	15	Snd Lvl	73.1	0.0	7	-7.0
64	1538	1	0.0	72.0	66	72.0	15	Snd Lvl	72.0	0.0	7	-7.0
65	1539	1	0.0	71.1	66	71.1	15	Snd Lvl	71.1	0.0	7	-7.0

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RESULTS: SOUND LEVELS

I-65/I-465 South, DES 0902297

66	1540	1	0.0	72.8	66	72.8	15	Snd Lvl	72.8	0.0	7	-7.0
67	1541	1	0.0	71.8	66	71.8	15	Snd Lvl	71.8	0.0	7	-7.0
68	1542	1	0.0	70.9	66	70.9	15	Snd Lvl	70.9	0.0	7	-7.0
69	1543	1	0.0	70.0	66	70.0	15	Snd Lvl	70.0	0.0	7	-7.0
70	1544	1	0.0	69.1	66	69.1	15	Snd Lvl	69.1	0.0	7	-7.0
71	1545	1	0.0	68.5	66	68.5	15	Snd Lvl	68.5	0.0	7	-7.0
72	1546	1	0.0	68.0	66	68.0	15	Snd Lvl	68.0	0.0	7	-7.0
73	1547	1	0.0	67.4	66	67.4	15	Snd Lvl	67.4	0.0	7	-7.0
74	1549	1	0.0	67.0	66	67.0	15	Snd Lvl	67.0	0.0	7	-7.0
75	1550	1	0.0	66.4	66	66.4	15	Snd Lvl	66.4	0.0	7	-7.0
76	1551	1	0.0	66.0	66	66.0	15	Snd Lvl	66.0	0.0	7	-7.0
77	1552	1	0.0	65.4	66	65.4	15	----	65.4	0.0	7	-7.0
78	1553	1	0.0	66.0	66	66.0	15	Snd Lvl	66.0	0.0	7	-7.0
79	1554	1	0.0	65.8	66	65.8	15	----	65.8	0.0	7	-7.0
80	1555	1	0.0	65.5	66	65.5	15	----	65.5	0.0	7	-7.0
81	1556	1	0.0	65.3	66	65.3	15	----	65.3	0.0	7	-7.0
82	1557	1	0.0	64.9	66	64.9	15	----	64.9	0.0	7	-7.0
83	1558	1	0.0	62.3	66	62.3	15	----	62.3	0.0	7	-7.0
84	1559	1	0.0	62.5	66	62.5	15	----	62.5	0.0	7	-7.0
85	1560	1	0.0	62.7	66	62.7	15	----	62.7	0.0	7	-7.0
86	1561	1	0.0	62.8	66	62.8	15	----	62.8	0.0	7	-7.0
87	1562	1	0.0	63.0	66	63.0	15	----	63.0	0.0	7	-7.0
88	1563	1	0.0	63.1	66	63.1	15	----	63.1	0.0	7	-7.0
89	1564	1	0.0	62.9	66	62.9	15	----	62.9	0.0	7	-7.0
90	1565	1	0.0	62.8	66	62.8	15	----	62.8	0.0	7	-7.0
91	1566	1	0.0	62.9	66	62.9	15	----	62.9	0.0	7	-7.0
92	1567	1	0.0	62.7	66	62.7	15	----	62.7	0.0	7	-7.0
93	1568	1	0.0	62.7	66	62.7	15	----	62.7	0.0	7	-7.0
94	1569	1	0.0	62.8	66	62.8	15	----	62.8	0.0	7	-7.0
95	1570	1	0.0	62.9	66	62.9	15	----	62.9	0.0	7	-7.0
96	1571	1	0.0	63.1	66	63.1	15	----	63.1	0.0	7	-7.0
97	1572	1	0.0	64.0	66	64.0	15	----	64.0	0.0	7	-7.0
98	1573	1	0.0	64.4	66	64.4	15	----	64.4	0.0	7	-7.0
99	1574	1	0.0	64.8	66	64.8	15	----	64.8	0.0	7	-7.0
100	1575	1	0.0	65.3	66	65.3	15	----	65.3	0.0	7	-7.0
101	1576	1	0.0	66.1	66	66.1	15	Snd Lvl	66.1	0.0	7	-7.0
102	1577	1	0.0	66.5	66	66.5	15	Snd Lvl	66.5	0.0	7	-7.0
103	1578	1	0.0	66.9	66	66.9	15	Snd Lvl	66.9	0.0	7	-7.0
104	1579	1	0.0	67.3	66	67.3	15	Snd Lvl	67.3	0.0	7	-7.0
105	1580	1	0.0	66.1	66	66.1	15	Snd Lvl	66.1	0.0	7	-7.0
106	1581	1	0.0	65.7	66	65.7	15	----	65.7	0.0	7	-7.0

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RESULTS: SOUND LEVELS

I-65/I-465 South, DES 0902297

107	1582	1	0.0	65.2	66	65.2	15	----	65.2	0.0	7	-7.0
108	1583	1	0.0	64.8	66	64.8	15	----	64.8	0.0	7	-7.0
109	1584	1	0.0	65.0	66	65.0	15	----	65.0	0.0	7	-7.0
110	1585	1	0.0	65.3	66	65.3	15	----	65.3	0.0	7	-7.0
111	1586	1	0.0	65.9	66	65.9	15	----	65.9	0.0	7	-7.0
112	1587	1	0.0	68.4	66	68.4	15	Snd Lvl	68.4	0.0	7	-7.0
113	1588	1	0.0	67.7	66	67.7	15	Snd Lvl	67.7	0.0	7	-7.0
114	1589	1	0.0	67.1	66	67.1	15	Snd Lvl	67.1	0.0	7	-7.0
115	1590	1	0.0	66.6	66	66.6	15	Snd Lvl	66.6	0.0	7	-7.0
116	1591	1	0.0	66.2	66	66.2	15	Snd Lvl	66.2	0.0	7	-7.0
117	1592	1	0.0	66.0	66	66.0	15	Snd Lvl	66.0	0.0	7	-7.0
118	1593	1	0.0	65.8	66	65.8	15	----	65.8	0.0	7	-7.0
119	1594	1	0.0	65.8	66	65.8	15	----	65.8	0.0	7	-7.0
120	1595	1	0.0	68.2	66	68.2	15	Snd Lvl	68.2	0.0	7	-7.0
121	1596	1	0.0	66.8	66	66.8	15	Snd Lvl	66.8	0.0	7	-7.0
122	1597	1	0.0	64.4	66	64.4	15	----	64.4	0.0	7	-7.0
123	1598	1	0.0	66.1	66	66.1	15	Snd Lvl	66.1	0.0	7	-7.0
124	1599	1	0.0	67.5	66	67.5	15	Snd Lvl	67.5	0.0	7	-7.0
125	1600	1	0.0	70.1	66	70.1	15	Snd Lvl	70.1	0.0	7	-7.0
126	1601	1	0.0	73.2	66	73.2	15	Snd Lvl	73.2	0.0	7	-7.0
127	1602	1	0.0	65.8	66	65.8	15	----	65.8	0.0	7	-7.0
128	1603	1	0.0	64.3	66	64.3	15	----	64.3	0.0	7	-7.0
129	1604	1	0.0	63.5	66	63.5	15	----	63.5	0.0	7	-7.0
130	1605	1	0.0	63.6	66	63.6	15	----	63.6	0.0	7	-7.0
131	1606	1	0.0	62.6	66	62.6	15	----	62.6	0.0	7	-7.0
132	1607	1	0.0	61.7	66	61.7	15	----	61.7	0.0	7	-7.0
133	1608	1	0.0	59.3	66	59.3	15	----	59.3	0.0	7	-7.0
134	1609	1	0.0	60.0	66	60.0	15	----	60.0	0.0	7	-7.0
135	1610	1	0.0	60.1	66	60.1	15	----	60.1	0.0	7	-7.0
136	1611	1	0.0	61.4	66	61.4	15	----	61.4	0.0	7	-7.0
137	1612	1	0.0	58.3	66	58.3	15	----	58.3	0.0	7	-7.0
138	1613	1	0.0	58.3	66	58.3	15	----	58.3	0.0	7	-7.0
139	1614	1	0.0	58.3	66	58.3	15	----	58.3	0.0	7	-7.0
140	1615	1	0.0	58.2	66	58.2	15	----	58.2	0.0	7	-7.0
141	1616	1	0.0	58.2	66	58.2	15	----	58.2	0.0	7	-7.0
142	1617	1	0.0	58.2	66	58.2	15	----	58.2	0.0	7	-7.0
143	1618	1	0.0	59.0	66	59.0	15	----	59.0	0.0	7	-7.0
144	1619	1	0.0	58.8	66	58.8	15	----	58.8	0.0	7	-7.0
145	1620	1	0.0	58.8	66	58.8	15	----	58.8	0.0	7	-7.0
146	1621	1	0.0	59.8	66	59.8	15	----	59.8	0.0	7	-7.0
147	1622	1	0.0	60.0	66	60.0	15	----	60.0	0.0	7	-7.0

RESULTS: SOUND LEVELS

I-65/I-465 South, DES 0902297

148	1623	1	0.0	60.0	66	60.0	15	----	60.0	0.0	7	-7.0
149	1624	1	0.0	60.0	66	60.0	15	----	60.0	0.0	7	-7.0
150	1625	1	0.0	59.3	66	59.3	15	----	59.3	0.0	7	-7.0
151	1626	1	0.0	60.8	66	60.8	15	----	60.8	0.0	7	-7.0
152	1627	1	0.0	60.2	66	60.2	15	----	60.2	0.0	7	-7.0
153	1628	1	0.0	59.8	66	59.8	15	----	59.8	0.0	7	-7.0
154	1629	1	0.0	61.3	66	61.3	15	----	61.3	0.0	7	-7.0
155	1630	1	0.0	61.1	66	61.1	15	----	61.1	0.0	7	-7.0
156	1631	1	0.0	61.3	66	61.3	15	----	61.3	0.0	7	-7.0
157	1632	1	0.0	62.5	66	62.5	15	----	62.5	0.0	7	-7.0
158	1633	1	0.0	62.1	66	62.1	15	----	62.1	0.0	7	-7.0
159	1634	1	0.0	65.5	66	65.5	15	----	65.5	0.0	7	-7.0
160	1635	1	0.0	64.4	66	64.4	15	----	64.4	0.0	7	-7.0
161	1636	1	0.0	63.9	66	63.9	15	----	63.9	0.0	7	-7.0
162	1637	1	0.0	62.6	66	62.6	15	----	62.6	0.0	7	-7.0
163	1638	1	0.0	62.9	66	62.9	15	----	62.9	0.0	7	-7.0
164	1639	1	0.0	63.3	66	63.3	15	----	63.3	0.0	7	-7.0
165	1640	1	0.0	65.8	71	65.8	15	----	65.8	0.0	7	-7.0
166	1641	1	0.0	62.5	71	62.5	15	----	62.5	0.0	7	-7.0
167	1642	1	0.0	67.5	71	67.5	15	----	67.5	0.0	7	-7.0
168	1643	1	0.0	66.5	71	66.5	15	----	66.5	0.0	7	-7.0
169	1644	1	0.0	64.3	71	64.3	15	----	64.3	0.0	7	-7.0
170	1645	1	0.0	62.9	71	62.9	15	----	62.9	0.0	7	-7.0
171	1646	1	0.0	63.6	71	63.6	15	----	63.6	0.0	7	-7.0
172	1647	1	0.0	65.3	66	65.3	15	----	65.3	0.0	7	-7.0
173	1648	1	0.0	64.6	66	64.6	15	----	64.6	0.0	7	-7.0
174	1649	1	0.0	63.4	66	63.4	15	----	63.4	0.0	7	-7.0
175	1650	1	0.0	62.7	66	62.7	15	----	62.7	0.0	7	-7.0
176	1651	1	0.0	75.4	66	75.4	15	Snd Lvl	75.4	0.0	7	-7.0
177	1652	1	0.0	74.3	66	74.3	15	Snd Lvl	74.3	0.0	7	-7.0
178	1653	1	0.0	72.1	66	72.1	15	Snd Lvl	72.1	0.0	7	-7.0
179	1654	1	0.0	69.9	66	69.9	15	Snd Lvl	69.9	0.0	7	-7.0
180	1655	1	0.0	68.0	66	68.0	15	Snd Lvl	68.0	0.0	7	-7.0
181	1656	1	0.0	66.0	66	66.0	15	Snd Lvl	66.0	0.0	7	-7.0
182	1657	1	0.0	64.3	66	64.3	15	----	64.3	0.0	7	-7.0
183	1658	1	0.0	65.4	66	65.4	15	----	65.4	0.0	7	-7.0
184	1659	1	0.0	66.1	66	66.1	15	Snd Lvl	66.1	0.0	7	-7.0
185	1660	1	0.0	67.4	66	67.4	15	Snd Lvl	67.4	0.0	7	-7.0
186	1661	1	0.0	68.9	66	68.9	15	Snd Lvl	68.9	0.0	7	-7.0
187	1662	1	0.0	66.4	66	66.4	15	Snd Lvl	66.4	0.0	7	-7.0
188	1663	1	0.0	64.1	66	64.1	15	----	64.1	0.0	7	-7.0

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RESULTS: SOUND LEVELS

I-65/I-465 South, DES 0902297

189	1664	1	0.0	63.2	66	63.2	15	----	63.2	0.0	7	-7.0
190	1665	1	0.0	63.3	66	63.3	15	----	63.3	0.0	7	-7.0
191	1666	1	0.0	63.4	66	63.4	15	----	63.4	0.0	7	-7.0
192	1667	1	0.0	63.6	66	63.6	15	----	63.6	0.0	7	-7.0
193	1668	1	0.0	65.0	66	65.0	15	----	65.0	0.0	7	-7.0
194	1669	1	0.0	66.0	66	66.0	15	Snd Lvl	66.0	0.0	7	-7.0
195	1670	1	0.0	67.1	66	67.1	15	Snd Lvl	67.1	0.0	7	-7.0
196	1671	1	0.0	69.9	66	69.9	15	Snd Lvl	69.9	0.0	7	-7.0
197	1672	1	0.0	72.3	66	72.3	15	Snd Lvl	72.3	0.0	7	-7.0
198	1673	1	0.0	68.5	66	68.5	15	Snd Lvl	68.5	0.0	7	-7.0
199	1674	1	0.0	66.6	66	66.6	15	Snd Lvl	66.6	0.0	7	-7.0
200	1675	1	0.0	64.9	66	64.9	15	----	64.9	0.0	7	-7.0
201	1676	1	0.0	63.8	66	63.8	15	----	63.8	0.0	7	-7.0
202	1677	1	0.0	63.7	66	63.7	15	----	63.7	0.0	7	-7.0
203	1678	1	0.0	63.6	66	63.6	15	----	63.6	0.0	7	-7.0
204	1679	1	0.0	63.7	66	63.7	15	----	63.7	0.0	7	-7.0
205	1680	1	0.0	65.1	66	65.1	15	----	65.1	0.0	7	-7.0
206	1681	1	0.0	66.7	66	66.7	15	Snd Lvl	66.7	0.0	7	-7.0
207	1682	1	0.0	69.0	66	69.0	15	Snd Lvl	69.0	0.0	7	-7.0
208	1683	1	0.0	73.6	66	73.6	15	Snd Lvl	73.6	0.0	7	-7.0
209	1684	1	0.0	75.7	66	75.7	15	Snd Lvl	75.7	0.0	7	-7.0
210	1685	1	0.0	76.4	66	76.4	15	Snd Lvl	76.4	0.0	7	-7.0
211	1686	1	0.0	78.6	66	78.6	15	Snd Lvl	78.6	0.0	7	-7.0
212	1687	1	0.0	75.7	66	75.7	15	Snd Lvl	75.7	0.0	7	-7.0
213	1688	1	0.0	71.1	66	71.1	15	Snd Lvl	71.1	0.0	7	-7.0
214	1689	1	0.0	67.2	66	67.2	15	Snd Lvl	67.2	0.0	7	-7.0
215	1690	1	0.0	65.9	66	65.9	15	----	65.9	0.0	7	-7.0
216	1691	1	0.0	65.5	66	65.5	15	----	65.5	0.0	7	-7.0
217	1692	1	0.0	65.6	66	65.6	15	----	65.6	0.0	7	-7.0
218	1693	1	0.0	63.3	66	63.3	15	----	63.3	0.0	7	-7.0
219	1694	1	0.0	63.0	66	63.0	15	----	63.0	0.0	7	-7.0
220	1695	1	0.0	63.4	66	63.4	15	----	63.4	0.0	7	-7.0
221	1696	1	0.0	63.4	66	63.4	15	----	63.4	0.0	7	-7.0
222	1697	1	0.0	63.7	66	63.7	15	----	63.7	0.0	7	-7.0
223	1698	1	0.0	64.5	66	64.5	15	----	64.5	0.0	7	-7.0
224	1699	1	0.0	65.6	66	65.6	15	----	65.6	0.0	7	-7.0
225	1700	1	0.0	67.9	66	67.9	15	Snd Lvl	67.9	0.0	7	-7.0
226	1701	1	0.0	70.9	66	70.9	15	Snd Lvl	70.9	0.0	7	-7.0
227	1702	1	0.0	76.8	66	76.8	15	Snd Lvl	76.8	0.0	7	-7.0
228	1703	1	0.0	76.0	66	76.0	15	Snd Lvl	76.0	0.0	7	-7.0
229	1704	1	0.0	73.9	66	73.9	15	Snd Lvl	73.9	0.0	7	-7.0

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RESULTS: SOUND LEVELS

I-65/I-465 South, DES 0902297

230	1705	1	0.0	71.2	66	71.2	15	Snd Lvl	71.2	0.0	7	-7.0
231	1706	1	0.0	68.3	66	68.3	15	Snd Lvl	68.3	0.0	7	-7.0
232	1707	1	0.0	65.2	66	65.2	15	----	65.2	0.0	7	-7.0
233	1709	1	0.0	63.5	66	63.5	15	----	63.5	0.0	7	-7.0
234	1710	1	0.0	63.7	66	63.7	15	----	63.7	0.0	7	-7.0
235	1711	1	0.0	64.7	66	64.7	15	----	64.7	0.0	7	-7.0
236	1712	1	0.0	66.3	66	66.3	15	Snd Lvl	66.3	0.0	7	-7.0
237	1713	1	0.0	66.2	66	66.2	15	Snd Lvl	66.2	0.0	7	-7.0
238	1714	1	0.0	64.8	66	64.8	15	----	64.8	0.0	7	-7.0
239	1715	1	0.0	63.3	66	63.3	15	----	63.3	0.0	7	-7.0
240	1716	1	0.0	63.7	66	63.7	15	----	63.7	0.0	7	-7.0
241	1717	1	0.0	64.6	66	64.6	15	----	64.6	0.0	7	-7.0
242	1718	1	0.0	66.6	66	66.6	15	Snd Lvl	66.6	0.0	7	-7.0
243	1719	1	0.0	72.0	66	72.0	15	Snd Lvl	72.0	0.0	7	-7.0
244	1720	1	0.0	78.5	66	78.5	15	Snd Lvl	78.5	0.0	7	-7.0
245	1721	1	0.0	67.4	66	67.4	15	Snd Lvl	67.4	0.0	7	-7.0
246	1722	1	0.0	64.7	66	64.7	15	----	64.7	0.0	7	-7.0
247	1723	1	0.0	63.5	66	63.5	15	----	63.5	0.0	7	-7.0
248	1724	1	0.0	63.5	66	63.5	15	----	63.5	0.0	7	-7.0
249	1725	1	0.0	62.0	66	62.0	15	----	62.0	0.0	7	-7.0
250	1726	1	0.0	61.8	66	61.8	15	----	61.8	0.0	7	-7.0
251	1727	1	0.0	61.5	66	61.5	15	----	61.5	0.0	7	-7.0
252	1728	1	0.0	62.6	66	62.6	15	----	62.6	0.0	7	-7.0
253	1729	1	0.0	63.1	66	63.1	15	----	63.1	0.0	7	-7.0
254	1730	1	0.0	65.1	66	65.1	15	----	65.1	0.0	7	-7.0
255	1731	1	0.0	63.9	66	63.9	15	----	63.9	0.0	7	-7.0
255A	1732	1	0.0	61.8	66	61.8	15	----	61.8	0.0	7	-7.0
256A	1733	20	0.0	61.3	66	61.3	15	----	61.3	0.0	7	-7.0
256B	1734	2	0.0	62.6	66	62.6	15	----	62.6	0.0	7	-7.0
256C	1735	1	0.0	62.5	66	62.5	15	----	62.5	0.0	7	-7.0
256D	1736	2	0.0	64.3	66	64.3	15	----	64.3	0.0	7	-7.0
256E	1737	2	0.0	69.1	66	69.1	15	Snd Lvl	69.1	0.0	7	-7.0
256F	1738	2	0.0	63.1	66	63.1	15	----	63.1	0.0	7	-7.0
259	1741	1	0.0	60.7	66	60.7	15	----	60.7	0.0	7	-7.0
260	1742	1	0.0	60.7	66	60.7	15	----	60.7	0.0	7	-7.0
301	1743	1	0.0	63.1	66	63.1	15	----	63.1	0.0	7	-7.0
302	1744	1	0.0	64.0	66	64.0	15	----	64.0	0.0	7	-7.0
303	1745	1	0.0	72.0	66	72.0	15	Snd Lvl	72.0	0.0	7	-7.0
304	1746	1	0.0	68.4	66	68.4	15	Snd Lvl	68.4	0.0	7	-7.0
305	1747	1	0.0	64.6	66	64.6	15	----	64.6	0.0	7	-7.0
306	1748	1	0.0	68.0	66	68.0	15	Snd Lvl	68.0	0.0	7	-7.0

S:\Project Files\2010\IP10-0035\Reports\Final Report - Combined\TNM files\Existing

RESULTS: SOUND LEVELS

I-65/I-465 South, DES 0902297

307	1749	1	0.0	66.4	66	66.4	15	Snd Lvl	66.4	0.0	7	-7.0
308	1750	1	0.0	64.2	66	64.2	15	----	64.2	0.0	7	-7.0
309	1751	1	0.0	71.9	66	71.9	15	Snd Lvl	71.9	0.0	7	-7.0
310	1752	1	0.0	67.6	66	67.6	15	Snd Lvl	67.6	0.0	7	-7.0
311	1753	1	0.0	65.6	66	65.6	15	----	65.6	0.0	7	-7.0
312	1754	1	0.0	63.8	66	63.8	15	----	63.8	0.0	7	-7.0
313	1755	1	0.0	73.8	66	73.8	15	Snd Lvl	73.8	0.0	7	-7.0
314	1756	1	0.0	69.4	66	69.4	15	Snd Lvl	69.4	0.0	7	-7.0
315	1757	1	0.0	67.9	66	67.9	15	Snd Lvl	67.9	0.0	7	-7.0
316	1758	1	0.0	65.9	66	65.9	15	----	65.9	0.0	7	-7.0
317	1759	1	0.0	64.6	66	64.6	15	----	64.6	0.0	7	-7.0
318	1760	1	0.0	75.9	66	75.9	15	Snd Lvl	75.9	0.0	7	-7.0
319	1761	1	0.0	73.0	66	73.0	15	Snd Lvl	73.0	0.0	7	-7.0
320	1762	1	0.0	68.5	66	68.5	15	Snd Lvl	68.5	0.0	7	-7.0
321	1763	1	0.0	66.0	66	66.0	15	Snd Lvl	66.0	0.0	7	-7.0
322	1764	1	0.0	65.2	66	65.2	15	----	65.2	0.0	7	-7.0
323	1765	1	0.0	73.0	66	73.0	15	Snd Lvl	73.0	0.0	7	-7.0
324	1766	1	0.0	69.0	66	69.0	15	Snd Lvl	69.0	0.0	7	-7.0
325	1767	1	0.0	67.1	66	67.1	15	Snd Lvl	67.1	0.0	7	-7.0
326	1768	1	0.0	64.8	66	64.8	15	----	64.8	0.0	7	-7.0
327	1769	1	0.0	74.2	66	74.2	15	Snd Lvl	74.2	0.0	7	-7.0
328	1770	1	0.0	70.9	66	70.9	15	Snd Lvl	70.9	0.0	7	-7.0
329	1771	1	0.0	67.6	66	67.6	15	Snd Lvl	67.6	0.0	7	-7.0
330	1772	1	0.0	65.7	66	65.7	15	----	65.7	0.0	7	-7.0
331	1773	1	0.0	68.4	66	68.4	15	Snd Lvl	68.4	0.0	7	-7.0
332	1774	1	0.0	65.9	66	65.9	15	----	65.9	0.0	7	-7.0
333	1775	1	0.0	68.3	66	68.3	15	Snd Lvl	68.3	0.0	7	-7.0
334	1776	1	0.0	66.7	66	66.7	15	Snd Lvl	66.7	0.0	7	-7.0
335	1777	1	0.0	65.6	66	65.6	15	----	65.6	0.0	7	-7.0
336	1778	1	0.0	68.7	66	68.7	15	Snd Lvl	68.7	0.0	7	-7.0
337	1779	1	0.0	67.1	66	67.1	15	Snd Lvl	67.1	0.0	7	-7.0
338	1780	1	0.0	65.7	66	65.7	15	----	65.7	0.0	7	-7.0
339	1781	1	0.0	67.1	66	67.1	15	Snd Lvl	67.1	0.0	7	-7.0
340	1782	1	0.0	66.2	66	66.2	15	Snd Lvl	66.2	0.0	7	-7.0
341	1783	1	0.0	67.4	66	67.4	15	Snd Lvl	67.4	0.0	7	-7.0
342	1784	1	0.0	66.5	66	66.5	15	Snd Lvl	66.5	0.0	7	-7.0
343	1785	1	0.0	67.5	66	67.5	15	Snd Lvl	67.5	0.0	7	-7.0
344	1786	1	0.0	66.2	66	66.2	15	Snd Lvl	66.2	0.0	7	-7.0
345	1787	1	0.0	76.2	66	76.2	15	Snd Lvl	76.2	0.0	7	-7.0
346	1788	1	0.0	76.0	66	76.0	15	Snd Lvl	76.0	0.0	7	-7.0
347	1789	1	0.0	75.4	66	75.4	15	Snd Lvl	75.4	0.0	7	-7.0

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RESULTS: SOUND LEVELS**I-65/I-465 South, DES 0902297**

348	1790	1	0.0	75.8	66	75.8	15	Snd Lvl	75.8	0.0	7	-7.0
349	1791	1	0.0	75.8	66	75.8	15	Snd Lvl	75.8	0.0	7	-7.0
350	1792	1	0.0	75.6	66	75.6	15	Snd Lvl	75.6	0.0	7	-7.0
351	1793	1	0.0	75.5	66	75.5	15	Snd Lvl	75.5	0.0	7	-7.0
352	1794	1	0.0	75.6	66	75.6	15	Snd Lvl	75.6	0.0	7	-7.0
353	1795	1	0.0	73.8	66	73.8	15	Snd Lvl	73.8	0.0	7	-7.0
354	1796	1	0.0	71.7	66	71.7	15	Snd Lvl	71.7	0.0	7	-7.0
355	1797	1	0.0	71.9	66	71.9	15	Snd Lvl	71.9	0.0	7	-7.0
356	1798	1	0.0	74.2	66	74.2	15	Snd Lvl	74.2	0.0	7	-7.0
357	1799	1	0.0	76.2	66	76.2	15	Snd Lvl	76.2	0.0	7	-7.0
358	1800	1	0.0	73.4	66	73.4	15	Snd Lvl	73.4	0.0	7	-7.0
359	1801	1	0.0	68.9	66	68.9	15	Snd Lvl	68.9	0.0	7	-7.0
360	1802	1	0.0	66.8	66	66.8	15	Snd Lvl	66.8	0.0	7	-7.0
361	1803	1	0.0	66.0	66	66.0	15	Snd Lvl	66.0	0.0	7	-7.0
362	1804	1	0.0	65.5	66	65.5	15	----	65.5	0.0	7	-7.0
363	1805	1	0.0	65.3	66	65.3	15	----	65.3	0.0	7	-7.0
364	1806	1	0.0	69.0	66	69.0	15	Snd Lvl	69.0	0.0	7	-7.0
365	1807	1	0.0	65.6	66	65.6	15	----	65.6	0.0	7	-7.0
366	1808	1	0.0	65.4	66	65.4	15	----	65.4	0.0	7	-7.0
367	1809	1	0.0	67.2	66	67.2	15	Snd Lvl	67.2	0.0	7	-7.0
368	1810	1	0.0	65.8	66	65.8	15	----	65.8	0.0	7	-7.0
369	1811	1	0.0	69.3	66	69.3	15	Snd Lvl	69.3	0.0	7	-7.0
370	1812	1	0.0	68.8	66	68.8	15	Snd Lvl	68.8	0.0	7	-7.0
371	1813	1	0.0	66.8	66	66.8	15	Snd Lvl	66.8	0.0	7	-7.0
372	1814	1	0.0	65.7	66	65.7	15	----	65.7	0.0	7	-7.0
373	1815	1	0.0	65.7	66	65.7	15	----	65.7	0.0	7	-7.0
374	1816	1	0.0	66.4	66	66.4	15	Snd Lvl	66.4	0.0	7	-7.0
375	1817	1	0.0	67.6	66	67.6	15	Snd Lvl	67.6	0.0	7	-7.0
376	1818	1	0.0	70.9	66	70.9	15	Snd Lvl	70.9	0.0	7	-7.0
377	1819	1	0.0	73.9	66	73.9	15	Snd Lvl	73.9	0.0	7	-7.0
378	1820	1	0.0	75.9	66	75.9	15	Snd Lvl	75.9	0.0	7	-7.0
379	1821	1	0.0	72.8	66	72.8	15	Snd Lvl	72.8	0.0	7	-7.0
380	1822	1	0.0	69.9	66	69.9	15	Snd Lvl	69.9	0.0	7	-7.0
381	1823	1	0.0	68.6	66	68.6	15	Snd Lvl	68.6	0.0	7	-7.0
382	1824	1	0.0	67.6	66	67.6	15	Snd Lvl	67.6	0.0	7	-7.0
383	1825	1	0.0	66.6	66	66.6	15	Snd Lvl	66.6	0.0	7	-7.0
384	1826	1	0.0	65.6	66	65.6	15	----	65.6	0.0	7	-7.0
385	1827	1	0.0	65.6	66	65.6	15	----	65.6	0.0	7	-7.0
386	1828	1	0.0	66.4	66	66.4	15	Snd Lvl	66.4	0.0	7	-7.0
387	1829	1	0.0	67.2	66	67.2	15	Snd Lvl	67.2	0.0	7	-7.0
388	1830	1	0.0	69.1	66	69.1	15	Snd Lvl	69.1	0.0	7	-7.0

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RESULTS: SOUND LEVELS
I-65/I-465 South, DES 0902297

389	1831	1	0.0	73.3	66	73.3	15	Snd Lvl	73.3	0.0	7	-7.0
390	1832	1	0.0	76.8	66	76.8	15	Snd Lvl	76.8	0.0	7	-7.0
391	1833	1	0.0	75.5	66	75.5	15	Snd Lvl	75.5	0.0	7	-7.0
392	1834	1	0.0	72.5	66	72.5	15	Snd Lvl	72.5	0.0	7	-7.0
393	1835	1	0.0	69.7	66	69.7	15	Snd Lvl	69.7	0.0	7	-7.0
394	1836	1	0.0	68.2	66	68.2	15	Snd Lvl	68.2	0.0	7	-7.0
395	1837	1	0.0	66.8	66	66.8	15	Snd Lvl	66.8	0.0	7	-7.0
396	1838	1	0.0	65.8	66	65.8	15	----	65.8	0.0	7	-7.0
397	1839	1	0.0	66.0	66	66.0	15	Snd Lvl	66.0	0.0	7	-7.0
398	1840	1	0.0	67.4	66	67.4	15	Snd Lvl	67.4	0.0	7	-7.0
399	1841	1	0.0	69.2	66	69.2	15	Snd Lvl	69.2	0.0	7	-7.0
400	1842	1	0.0	72.8	66	72.8	15	Snd Lvl	72.8	0.0	7	-7.0
401	1843	1	0.0	76.7	66	76.7	15	Snd Lvl	76.7	0.0	7	-7.0
402	1844	1	0.0	71.3	66	71.3	15	Snd Lvl	71.3	0.0	7	-7.0
403	1845	1	0.0	68.8	66	68.8	15	Snd Lvl	68.8	0.0	7	-7.0
404	1846	1	0.0	66.8	66	66.8	15	Snd Lvl	66.8	0.0	7	-7.0
405	1847	1	0.0	68.2	66	68.2	15	Snd Lvl	68.2	0.0	7	-7.0
406	1848	1	0.0	77.9	66	77.9	15	Snd Lvl	77.9	0.0	7	-7.0
407	1849	1	0.0	77.9	66	77.9	15	Snd Lvl	77.9	0.0	7	-7.0
408	1850	1	0.0	77.6	66	77.6	15	Snd Lvl	77.6	0.0	7	-7.0
409	1851	1	0.0	77.6	66	77.6	15	Snd Lvl	77.6	0.0	7	-7.0
410	1852	1	0.0	74.6	66	74.6	15	Snd Lvl	74.6	0.0	7	-7.0
411	1853	1	0.0	71.6	66	71.6	15	Snd Lvl	71.6	0.0	7	-7.0
412	1855	1	0.0	69.4	66	69.4	15	Snd Lvl	69.4	0.0	7	-7.0
413	1856	1	0.0	68.0	66	68.0	15	Snd Lvl	68.0	0.0	7	-7.0
414	1857	1	0.0	66.8	66	66.8	15	Snd Lvl	66.8	0.0	7	-7.0
415	1858	1	0.0	65.8	66	65.8	15	----	65.8	0.0	7	-7.0
416	1859	1	0.0	65.8	66	65.8	15	----	65.8	0.0	7	-7.0
417	1860	1	0.0	66.8	66	66.8	15	Snd Lvl	66.8	0.0	7	-7.0
418	1861	1	0.0	68.9	66	68.9	15	Snd Lvl	68.9	0.0	7	-7.0
419	1862	1	0.0	69.3	66	69.3	15	Snd Lvl	69.3	0.0	7	-7.0
420	1863	1	0.0	67.3	66	67.3	15	Snd Lvl	67.3	0.0	7	-7.0
421	1864	1	0.0	65.8	66	65.8	15	----	65.8	0.0	7	-7.0
422	1865	1	0.0	65.7	66	65.7	15	----	65.7	0.0	7	-7.0
423	1866	1	0.0	66.4	66	66.4	15	Snd Lvl	66.4	0.0	7	-7.0
424	1867	1	0.0	67.8	66	67.8	15	Snd Lvl	67.8	0.0	7	-7.0
425	1868	1	0.0	69.1	66	69.1	15	Snd Lvl	69.1	0.0	7	-7.0
426	1869	1	0.0	67.4	66	67.4	15	Snd Lvl	67.4	0.0	7	-7.0
427	1870	1	0.0	67.4	66	67.4	15	Snd Lvl	67.4	0.0	7	-7.0
428	1871	1	0.0	68.8	66	68.8	15	Snd Lvl	68.8	0.0	7	-7.0
429	1872	1	0.0	71.5	66	71.5	15	Snd Lvl	71.5	0.0	7	-7.0

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RESULTS: SOUND LEVELS

I-65/I-465 South, DES 0902297

430	1873	1	0.0	75.4	66	75.4	15	Snd Lvl	75.4	0.0	7	-7.0
431	1874	1	0.0	77.4	66	77.4	15	Snd Lvl	77.4	0.0	7	-7.0
432	1875	1	0.0	77.6	66	77.6	15	Snd Lvl	77.6	0.0	7	-7.0
433	1876	1	0.0	77.7	66	77.7	15	Snd Lvl	77.7	0.0	7	-7.0
434	1877	1	0.0	78.1	66	78.1	15	Snd Lvl	78.1	0.0	7	-7.0
435	1878	1	0.0	77.9	66	77.9	15	Snd Lvl	77.9	0.0	7	-7.0
436	1879	1	0.0	77.9	66	77.9	15	Snd Lvl	77.9	0.0	7	-7.0
437	1880	1	0.0	77.9	66	77.9	15	Snd Lvl	77.9	0.0	7	-7.0
438	1881	1	0.0	77.7	66	77.7	15	Snd Lvl	77.7	0.0	7	-7.0
439	1882	1	0.0	77.9	66	77.9	15	Snd Lvl	77.9	0.0	7	-7.0
440	1883	1	0.0	78.1	66	78.1	15	Snd Lvl	78.1	0.0	7	-7.0
441	1884	1	0.0	76.7	66	76.7	15	Snd Lvl	76.7	0.0	7	-7.0
442	1885	1	0.0	73.5	66	73.5	15	Snd Lvl	73.5	0.0	7	-7.0
443	1886	1	0.0	69.7	66	69.7	15	Snd Lvl	69.7	0.0	7	-7.0
444	1887	1	0.0	67.0	66	67.0	15	Snd Lvl	67.0	0.0	7	-7.0
2001	1888	1	0.0	69.5	66	69.5	15	Snd Lvl	69.5	0.0	7	-7.0
2002	1889	1	0.0	69.0	66	69.0	15	Snd Lvl	69.0	0.0	7	-7.0
2003	1890	1	0.0	68.8	66	68.8	15	Snd Lvl	68.8	0.0	7	-7.0
2004	1891	1	0.0	68.9	66	68.9	15	Snd Lvl	68.9	0.0	7	-7.0
2005	1892	1	0.0	69.0	66	69.0	15	Snd Lvl	69.0	0.0	7	-7.0
2006	1893	1	0.0	68.4	66	68.4	15	Snd Lvl	68.4	0.0	7	-7.0
2007	1894	1	0.0	67.6	66	67.6	15	Snd Lvl	67.6	0.0	7	-7.0
2008	1895	1	0.0	66.1	66	66.1	15	Snd Lvl	66.1	0.0	7	-7.0
2009	1896	1	0.0	65.9	66	65.9	15	----	65.9	0.0	7	-7.0
2010	1897	1	0.0	65.9	66	65.9	15	----	65.9	0.0	7	-7.0
2011	1898	1	0.0	65.7	66	65.7	15	----	65.7	0.0	7	-7.0
445	1899	1	0.0	66.3	66	66.3	15	Snd Lvl	66.3	0.0	7	-7.0
446	1900	1	0.0	71.7	66	71.7	15	Snd Lvl	71.7	0.0	7	-7.0
447	1901	1	0.0	70.9	66	70.9	15	Snd Lvl	70.9	0.0	7	-7.0
448	1902	1	0.0	72.7	66	72.7	15	Snd Lvl	72.7	0.0	7	-7.0
449	1903	1	0.0	65.9	66	65.9	15	----	65.9	0.0	7	-7.0
450	1904	1	0.0	66.1	66	66.1	15	Snd Lvl	66.1	0.0	7	-7.0
451	1905	1	0.0	68.2	66	68.2	15	Snd Lvl	68.2	0.0	7	-7.0
452	1906	1	0.0	71.4	66	71.4	15	Snd Lvl	71.4	0.0	7	-7.0
453	1907	1	0.0	74.4	66	74.4	15	Snd Lvl	74.4	0.0	7	-7.0
454	1908	1	0.0	75.2	66	75.2	15	Snd Lvl	75.2	0.0	7	-7.0
455	1909	1	0.0	72.0	66	72.0	15	Snd Lvl	72.0	0.0	7	-7.0
456	1910	1	0.0	67.1	66	67.1	15	Snd Lvl	67.1	0.0	7	-7.0
457	1911	1	0.0	66.0	66	66.0	15	Snd Lvl	66.0	0.0	7	-7.0
458	1912	1	0.0	67.3	66	67.3	15	Snd Lvl	67.3	0.0	7	-7.0
459	1913	1	0.0	69.7	66	69.7	15	Snd Lvl	69.7	0.0	7	-7.0

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RESULTS: SOUND LEVELS

I-65/I-465 South, DES 0902297

460	1914	1	0.0	74.0	66	74.0	15	Snd Lvl	74.0	0.0	7	-7.0
461	1915	1	0.0	76.6	66	76.6	15	Snd Lvl	76.6	0.0	7	-7.0
462	1916	1	0.0	72.1	66	72.1	15	Snd Lvl	72.1	0.0	7	-7.0
463	1917	1	0.0	68.7	66	68.7	15	Snd Lvl	68.7	0.0	7	-7.0
464	1918	1	0.0	67.0	66	67.0	15	Snd Lvl	67.0	0.0	7	-7.0
465	1919	1	0.0	65.8	66	65.8	15	----	65.8	0.0	7	-7.0
466	1920	1	0.0	65.9	66	65.9	15	----	65.9	0.0	7	-7.0
467	1921	1	0.0	67.3	66	67.3	15	Snd Lvl	67.3	0.0	7	-7.0
468	1922	1	0.0	70.4	66	70.4	15	Snd Lvl	70.4	0.0	7	-7.0
469	1923	1	0.0	74.5	66	74.5	15	Snd Lvl	74.5	0.0	7	-7.0
470	1924	1	0.0	76.1	66	76.1	15	Snd Lvl	76.1	0.0	7	-7.0
471	1925	1	0.0	72.3	66	72.3	15	Snd Lvl	72.3	0.0	7	-7.0
472	1926	1	0.0	69.0	66	69.0	15	Snd Lvl	69.0	0.0	7	-7.0
473	1927	1	0.0	67.0	66	67.0	15	Snd Lvl	67.0	0.0	7	-7.0
474	1928	1	0.0	65.9	66	65.9	15	----	65.9	0.0	7	-7.0
475	1929	1	0.0	65.8	66	65.8	15	----	65.8	0.0	7	-7.0
476	1930	1	0.0	65.8	66	65.8	15	----	65.8	0.0	7	-7.0
479	1931	1	0.0	65.3	66	65.3	15	----	65.3	0.0	7	-7.0
480	1932	1	0.0	63.6	66	63.6	15	----	63.6	0.0	7	-7.0
481	1933	1	0.0	64.4	66	64.4	15	----	64.4	0.0	7	-7.0
482	1934	1	0.0	63.2	66	63.2	15	----	63.2	0.0	7	-7.0
483	1935	1	0.0	65.6	66	65.6	15	----	65.6	0.0	7	-7.0
484	1936	1	0.0	64.0	66	64.0	15	----	64.0	0.0	7	-7.0
485	1937	1	0.0	74.0	66	74.0	15	Snd Lvl	74.0	0.0	7	-7.0
486	1938	1	0.0	71.1	66	71.1	15	Snd Lvl	71.1	0.0	7	-7.0
487	1939	1	0.0	67.1	66	67.1	15	Snd Lvl	67.1	0.0	7	-7.0
488	1940	1	0.0	64.7	66	64.7	15	----	64.7	0.0	7	-7.0
489	1941	1	0.0	70.6	66	70.6	15	Snd Lvl	70.6	0.0	7	-7.0
490	1942	1	0.0	67.9	66	67.9	15	Snd Lvl	67.9	0.0	7	-7.0
491	1943	1	0.0	66.4	66	66.4	15	Snd Lvl	66.4	0.0	7	-7.0
492	1944	1	0.0	64.4	66	64.4	15	----	64.4	0.0	7	-7.0
493	1945	1	0.0	73.6	66	73.6	15	Snd Lvl	73.6	0.0	7	-7.0
494	1946	1	0.0	70.5	66	70.5	15	Snd Lvl	70.5	0.0	7	-7.0
495	1947	1	0.0	67.7	66	67.7	15	Snd Lvl	67.7	0.0	7	-7.0
496	1948	1	0.0	65.2	66	65.2	15	----	65.2	0.0	7	-7.0
497	1949	1	0.0	63.9	66	63.9	15	----	63.9	0.0	7	-7.0
498	1950	1	0.0	74.8	66	74.8	15	Snd Lvl	74.8	0.0	7	-7.0
499	1951	1	0.0	67.6	66	67.6	15	Snd Lvl	67.6	0.0	7	-7.0
500	1952	1	0.0	65.2	66	65.2	15	----	65.2	0.0	7	-7.0
501	1953	1	0.0	64.0	66	64.0	15	----	64.0	0.0	7	-7.0
502	1954	1	0.0	73.4	66	73.4	15	Snd Lvl	73.4	0.0	7	-7.0

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RESULTS: SOUND LEVELS

I-65/I-465 South, DES 0902297

503	1955	1	0.0	69.2	66	69.2	15	Snd Lvl	69.2	0.0	7	-7.0
504	1956	1	0.0	66.6	66	66.6	15	Snd Lvl	66.6	0.0	7	-7.0
505	1957	1	0.0	64.6	66	64.6	15	----	64.6	0.0	7	-7.0
506	1958	1	0.0	67.2	66	67.2	15	Snd Lvl	67.2	0.0	7	-7.0
507	1959	1	0.0	65.6	66	65.6	15	----	65.6	0.0	7	-7.0
508	1960	1	0.0	63.9	66	63.9	15	----	63.9	0.0	7	-7.0
509	1961	1	0.0	73.1	66	73.1	15	Snd Lvl	73.1	0.0	7	-7.0
510	1962	1	0.0	67.1	66	67.1	15	Snd Lvl	67.1	0.0	7	-7.0
561	1963	1	0.0	70.4	66	70.4	15	Snd Lvl	70.4	0.0	7	-7.0
563	1964	1	0.0	66.0	66	66.0	15	Snd Lvl	66.0	0.0	7	-7.0
564	1965	1	0.0	66.3	66	66.3	15	Snd Lvl	66.3	0.0	7	-7.0
565	1966	1	0.0	67.7	66	67.7	15	Snd Lvl	67.7	0.0	7	-7.0
566	1967	1	0.0	69.9	66	69.9	15	Snd Lvl	69.9	0.0	7	-7.0
567	1968	1	0.0	72.7	66	72.7	15	Snd Lvl	72.7	0.0	7	-7.0
568	1969	1	0.0	74.6	66	74.6	15	Snd Lvl	74.6	0.0	7	-7.0
569	1970	1	0.0	76.1	66	76.1	15	Snd Lvl	76.1	0.0	7	-7.0
570	1971	1	0.0	75.7	66	75.7	15	Snd Lvl	75.7	0.0	7	-7.0
571	1972	1	0.0	75.3	66	75.3	15	Snd Lvl	75.3	0.0	7	-7.0
572	1973	1	0.0	76.0	66	76.0	15	Snd Lvl	76.0	0.0	7	-7.0
573	1974	1	0.0	76.4	66	76.4	15	Snd Lvl	76.4	0.0	7	-7.0
574	1975	1	0.0	76.3	66	76.3	15	Snd Lvl	76.3	0.0	7	-7.0
575	1976	1	0.0	75.9	66	75.9	15	Snd Lvl	75.9	0.0	7	-7.0
576	1977	1	0.0	76.0	66	76.0	15	Snd Lvl	76.0	0.0	7	-7.0
577	1978	1	0.0	74.9	66	74.9	15	Snd Lvl	74.9	0.0	7	-7.0
578	1979	1	0.0	77.3	66	77.3	15	Snd Lvl	77.3	0.0	7	-7.0
579	1980	1	0.0	71.9	66	71.9	15	Snd Lvl	71.9	0.0	7	-7.0
580	1981	1	0.0	75.8	66	75.8	15	Snd Lvl	75.8	0.0	7	-7.0
581	1982	1	0.0	72.2	66	72.2	15	Snd Lvl	72.2	0.0	7	-7.0
582	1983	1	0.0	68.6	66	68.6	15	Snd Lvl	68.6	0.0	7	-7.0
583	1984	1	0.0	66.6	66	66.6	15	Snd Lvl	66.6	0.0	7	-7.0
584	1985	1	0.0	66.0	66	66.0	15	Snd Lvl	66.0	0.0	7	-7.0
585	1986	1	0.0	65.7	66	65.7	15	----	65.7	0.0	7	-7.0
586	1987	1	0.0	66.8	66	66.8	15	Snd Lvl	66.8	0.0	7	-7.0
587	1988	1	0.0	67.8	66	67.8	15	Snd Lvl	67.8	0.0	7	-7.0
588	1989	1	0.0	65.7	66	65.7	15	----	65.7	0.0	7	-7.0
589	1990	1	0.0	67.5	66	67.5	15	Snd Lvl	67.5	0.0	7	-7.0
590	1991	1	0.0	67.1	66	67.1	15	Snd Lvl	67.1	0.0	7	-7.0
591	1992	1	0.0	67.0	66	67.0	15	Snd Lvl	67.0	0.0	7	-7.0
592	1993	1	0.0	67.3	66	67.3	15	Snd Lvl	67.3	0.0	7	-7.0
593	1994	1	0.0	67.3	66	67.3	15	Snd Lvl	67.3	0.0	7	-7.0
594	1995	1	0.0	67.3	66	67.3	15	Snd Lvl	67.3	0.0	7	-7.0

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RESULTS: SOUND LEVELS

I-65/I-465 South, DES 0902297

595	1996	1	0.0	67.3	66	67.3	15	Snd Lvl	67.3	0.0	7	-7.0
596	1997	1	0.0	66.5	66	66.5	15	Snd Lvl	66.5	0.0	7	-7.0
597	1998	1	0.0	65.7	66	65.7	15	----	65.7	0.0	7	-7.0
598	1999	1	0.0	65.8	66	65.8	15	----	65.8	0.0	7	-7.0
599	2000	1	0.0	65.9	66	65.9	15	----	65.9	0.0	7	-7.0
600	2001	1	0.0	65.6	66	65.6	15	----	65.6	0.0	7	-7.0
601	2002	1	0.0	66.0	66	66.0	15	Snd Lvl	66.0	0.0	7	-7.0
602	2003	1	0.0	65.2	66	65.2	15	----	65.2	0.0	7	-7.0
603	2004	1	0.0	66.2	66	66.2	15	Snd Lvl	66.2	0.0	7	-7.0
604	2005	1	0.0	68.3	66	68.3	15	Snd Lvl	68.3	0.0	7	-7.0
605	2006	1	0.0	71.8	66	71.8	15	Snd Lvl	71.8	0.0	7	-7.0
606	2007	1	0.0	75.9	66	75.9	15	Snd Lvl	75.9	0.0	7	-7.0
607	2008	1	0.0	75.2	66	75.2	15	Snd Lvl	75.2	0.0	7	-7.0
608	2009	1	0.0	75.0	66	75.0	15	Snd Lvl	75.0	0.0	7	-7.0
609	2010	1	0.0	72.4	66	72.4	15	Snd Lvl	72.4	0.0	7	-7.0
610	2011	1	0.0	71.7	66	71.7	15	Snd Lvl	71.7	0.0	7	-7.0
611	2012	1	0.0	72.2	66	72.2	15	Snd Lvl	72.2	0.0	7	-7.0
612	2013	1	0.0	70.7	66	70.7	15	Snd Lvl	70.7	0.0	7	-7.0
613	2014	1	0.0	68.4	66	68.4	15	Snd Lvl	68.4	0.0	7	-7.0
614	2015	1	0.0	66.3	66	66.3	15	Snd Lvl	66.3	0.0	7	-7.0
615	2016	1	0.0	65.9	66	65.9	15	----	65.9	0.0	7	-7.0
616	2017	1	0.0	67.4	66	67.4	15	Snd Lvl	67.4	0.0	7	-7.0
617	2018	1	0.0	66.9	66	66.9	15	Snd Lvl	66.9	0.0	7	-7.0
618	2019	1	0.0	65.9	66	65.9	15	----	65.9	0.0	7	-7.0
619	2020	1	0.0	65.9	66	65.9	15	----	65.9	0.0	7	-7.0
620	2021	1	0.0	65.5	66	65.5	15	----	65.5	0.0	7	-7.0
621	2022	1	0.0	71.7	66	71.7	15	Snd Lvl	71.7	0.0	7	-7.0
622	2023	1	0.0	68.0	66	68.0	15	Snd Lvl	68.0	0.0	7	-7.0
623	2024	1	0.0	66.0	66	66.0	15	Snd Lvl	66.0	0.0	7	-7.0
624	2025	1	0.0	64.4	66	64.4	15	----	64.4	0.0	7	-7.0
625	2026	1	0.0	73.7	66	73.7	15	Snd Lvl	73.7	0.0	7	-7.0
626	2027	1	0.0	69.9	66	69.9	15	Snd Lvl	69.9	0.0	7	-7.0
627	2028	1	0.0	67.3	66	67.3	15	Snd Lvl	67.3	0.0	7	-7.0
628	2029	1	0.0	74.2	66	74.2	15	Snd Lvl	74.2	0.0	7	-7.0
629	2030	1	0.0	68.9	66	68.9	15	Snd Lvl	68.9	0.0	7	-7.0
630	2031	1	0.0	67.0	66	67.0	15	Snd Lvl	67.0	0.0	7	-7.0
631	2032	1	0.0	66.0	66	66.0	15	Snd Lvl	66.0	0.0	7	-7.0
632	2033	1	0.0	65.9	66	65.9	15	----	65.9	0.0	7	-7.0
633	2034	1	0.0	71.3	66	71.3	15	Snd Lvl	71.3	0.0	7	-7.0
634	2035	1	0.0	69.8	66	69.8	15	Snd Lvl	69.8	0.0	7	-7.0
635	2036	1	0.0	67.2	66	67.2	15	Snd Lvl	67.2	0.0	7	-7.0

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RESULTS: SOUND LEVELS**I-65/I-465 South, DES 0902297**

636	2037	1	0.0	67.5	66	67.5	15	Snd Lvl	67.5	0.0	7	-7.0
637	2038	1	0.0	67.0	66	67.0	15	Snd Lvl	67.0	0.0	7	-7.0
638	2039	1	0.0	68.1	66	68.1	15	Snd Lvl	68.1	0.0	7	-7.0
639	2040	1	0.0	71.3	66	71.3	15	Snd Lvl	71.3	0.0	7	-7.0
640	2041	1	0.0	66.8	66	66.8	15	Snd Lvl	66.8	0.0	7	-7.0
641	2042	1	0.0	74.9	71	74.9	15	Snd Lvl	74.9	0.0	7	-7.0
642	2043	1	0.0	69.3	71	69.3	15	----	69.3	0.0	7	-7.0
643	2044	1	0.0	75.4	71	75.4	15	Snd Lvl	75.4	0.0	7	-7.0
644	2045	1	0.0	67.9	71	67.9	15	----	67.9	0.0	7	-7.0
645	2046	1	0.0	72.8	71	72.8	15	Snd Lvl	72.8	0.0	7	-7.0
646	2047	1	0.0	72.0	71	72.0	15	Snd Lvl	72.0	0.0	7	-7.0
647	2048	1	0.0	71.8	71	71.8	15	Snd Lvl	71.8	0.0	7	-7.0
648	2049	1	0.0	65.7	71	65.7	15	----	65.7	0.0	7	-7.0
649	2051	1	0.0	67.0	71	67.0	15	----	67.0	0.0	7	-7.0
650	2052	1	0.0	69.7	71	69.7	15	----	69.7	0.0	7	-7.0
671-672	2053	2	0.0	68.8	66	68.8	15	Snd Lvl	68.8	0.0	7	-7.0
673-674	2054	2	0.0	70.5	66	70.5	15	Snd Lvl	70.5	0.0	7	-7.0
677-678	2055	2	0.0	67.1	66	67.1	15	Snd Lvl	67.1	0.0	7	-7.0
679-680	2056	2	0.0	69.5	66	69.5	15	Snd Lvl	69.5	0.0	7	-7.0
683-684	2057	2	0.0	66.1	66	66.1	15	Snd Lvl	66.1	0.0	7	-7.0
685-686	2058	2	0.0	68.9	66	68.9	15	Snd Lvl	68.9	0.0	7	-7.0
687-688	2059	2	0.0	69.5	66	69.5	15	Snd Lvl	69.5	0.0	7	-7.0
689-690	2060	2	0.0	70.9	66	70.9	15	Snd Lvl	70.9	0.0	7	-7.0
691-692	2061	2	0.0	71.7	66	71.7	15	Snd Lvl	71.7	0.0	7	-7.0
693-694	2062	2	0.0	69.4	66	69.4	15	Snd Lvl	69.4	0.0	7	-7.0
695-696	2063	2	0.0	70.9	66	70.9	15	Snd Lvl	70.9	0.0	7	-7.0
697-698	2064	2	0.0	71.6	66	71.6	15	Snd Lvl	71.6	0.0	7	-7.0
699-700	2065	2	0.0	69.5	66	69.5	15	Snd Lvl	69.5	0.0	7	-7.0
701-702	2066	2	0.0	71.0	66	71.0	15	Snd Lvl	71.0	0.0	7	-7.0
703-704	2067	2	0.0	71.7	66	71.7	15	Snd Lvl	71.7	0.0	7	-7.0
705-706	2068	2	0.0	69.7	66	69.7	15	Snd Lvl	69.7	0.0	7	-7.0
707-708	2069	2	0.0	71.4	66	71.4	15	Snd Lvl	71.4	0.0	7	-7.0
709-710	2070	2	0.0	71.9	66	71.9	15	Snd Lvl	71.9	0.0	7	-7.0
711-712	2071	2	0.0	70.0	66	70.0	15	Snd Lvl	70.0	0.0	7	-7.0
713-714	2072	2	0.0	71.6	66	71.6	15	Snd Lvl	71.6	0.0	7	-7.0
715-716	2073	2	0.0	72.1	66	72.1	15	Snd Lvl	72.1	0.0	7	-7.0
717-718	2074	2	0.0	70.5	66	70.5	15	Snd Lvl	70.5	0.0	7	-7.0
719-720	2075	2	0.0	71.9	66	71.9	15	Snd Lvl	71.9	0.0	7	-7.0
721-722	2076	2	0.0	72.5	66	72.5	15	Snd Lvl	72.5	0.0	7	-7.0
723-724	2077	2	0.0	70.2	66	70.2	15	Snd Lvl	70.2	0.0	7	-7.0
725-726	2078	2	0.0	71.8	66	71.8	15	Snd Lvl	71.8	0.0	7	-7.0

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RESULTS: SOUND LEVELS
I-65/I-465 South, DES 0902297

727-728	2079	2	0.0	72.4	66	72.4	15	Snd Lvl	72.4	0.0	7	-7.0
729-730	2080	2	0.0	69.9	66	69.9	15	Snd Lvl	69.9	0.0	7	-7.0
731-732	2081	2	0.0	71.7	66	71.7	15	Snd Lvl	71.7	0.0	7	-7.0
733-734	2082	2	0.0	72.3	66	72.3	15	Snd Lvl	72.3	0.0	7	-7.0
735-736	2083	2	0.0	69.8	66	69.8	15	Snd Lvl	69.8	0.0	7	-7.0
737-738	2084	2	0.0	71.6	66	71.6	15	Snd Lvl	71.6	0.0	7	-7.0
739-740	2085	2	0.0	72.2	66	72.2	15	Snd Lvl	72.2	0.0	7	-7.0
761-762	2086	2	0.0	66.7	66	66.7	15	Snd Lvl	66.7	0.0	7	-7.0
763-764	2087	2	0.0	69.2	66	69.2	15	Snd Lvl	69.2	0.0	7	-7.0
767-768	2088	2	0.0	65.5	66	65.5	15	----	65.5	0.0	7	-7.0
1001	2090	1	0.0	66.0	66	66.0	15	Snd Lvl	66.0	0.0	7	-7.0
1002	2091	1	0.0	66.9	66	66.9	15	Snd Lvl	66.9	0.0	7	-7.0
1003	2092	1	0.0	67.2	66	67.2	15	Snd Lvl	67.2	0.0	7	-7.0
1004	2093	1	0.0	66.6	66	66.6	15	Snd Lvl	66.6	0.0	7	-7.0
1005	2094	1	0.0	72.6	66	72.6	15	Snd Lvl	72.6	0.0	7	-7.0
1006	2095	1	0.0	66.0	66	66.0	15	Snd Lvl	66.0	0.0	7	-7.0
1007	2096	1	0.0	66.0	66	66.0	15	Snd Lvl	66.0	0.0	7	-7.0
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		674	0.0	0.0	0.0							
All Impacted		419	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

RESULTS: SOUND LEVELS
I-65/I-465 South, DES 0902297

Shrewsberry Melanie Barnes												
17 December 2012 TNM 2.5 Calculated with TNM 2.5												
RESULTS: SOUND LEVELS PROJECT/CONTRACT: I-65/I-465 South, DES 0902297 RUN: I-465 EB BARRIER DESIGN: Wall I-465 EB ATMOSPHERICS: 68 deg F, 50% RH Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
Receiver												
Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Goal	Calculated minus Goal
			dBa	dBa	dBa	dB	dB		dBa	dB	dB	dB
207	1033	1	69.0	68.6	66	-0.4	15	Snd Lvl	61.8	6.8	7	-0.2
168	995	1	66.5	66.5	66	0.0	15	Snd Lvl	66.5	0.0	7	-7.0
169	996	1	64.3	64.5	66	0.2	15	----	64.5	0.0	7	-7.0
170	997	1	62.9	62.7	66	-0.2	15	----	62.6	0.1	7	-6.9
171	998	1	63.6	63.3	66	-0.3	15	----	63.0	0.3	7	-6.7
172	999	1	65.3	65.1	66	-0.2	15	----	61.0	4.1	7	-2.9
173	1000	1	64.6	64.5	66	-0.1	15	----	60.2	4.3	7	-2.7
174	1001	1	63.4	63.3	66	-0.1	15	----	59.1	4.2	7	-2.8
175	1002	1	62.7	62.5	66	-0.2	15	----	58.1	4.4	7	-2.6
176	1003	1	75.4	75.5	66	0.1	15	Snd Lvl	65.3	10.2	7	3.2
177	1004	1	74.3	74.5	66	0.2	15	Snd Lvl	64.4	10.1	7	3.1
178	1005	1	72.1	72.1	66	0.0	15	Snd Lvl	63.7	8.4	7	1.4
179	1006	1	69.9	69.5	66	-0.4	15	Snd Lvl	62.5	7.0	7	0.0
180	1007	1	68.0	67.8	66	-0.2	15	Snd Lvl	61.5	6.3	7	-0.7
181	1008	1	66.0	65.6	66	-0.4	15	----	59.8	5.8	7	-1.2
182	1009	1	64.3	64.0	66	-0.3	15	----	58.4	5.6	7	-1.4
183	1010	1	65.4	65.0	66	-0.4	15	----	59.2	5.8	7	-1.2
184	1011	1	66.1	65.4	66	-0.7	15	----	59.3	6.1	7	-0.9
185	1012	1	67.4	66.6	66	-0.8	15	Snd Lvl	60.0	6.6	7	-0.4
186	1013	1	68.9	68.3	66	-0.6	15	Snd Lvl	61.3	7.0	7	0.0
187	1014	1	66.4	65.9	66	-0.5	15	----	59.4	6.5	7	-0.5
188	1015	1	64.1	64.1	66	0.0	15	----	58.2	5.9	7	-1.1
189	1016	1	63.2	63.1	66	-0.1	15	----	57.5	5.6	7	-1.4
190	1017	1	63.3	63.3	66	0.0	15	----	57.5	5.8	7	-1.2

RESULTS: SOUND LEVELS
I-65/I-465 South, DES 0902297

191	1018	1	63.4	63.5	66	0.1	15	----	57.6	5.9	7	-1.1
192	1019	1	63.6	63.7	66	0.1	15	----	57.8	5.9	7	-1.1
193	1020	1	65.0	64.8	66	-0.2	15	----	58.6	6.2	7	-0.8
194	1021	1	66.0	65.9	66	-0.1	15	----	59.6	6.3	7	-0.7
195	1022	1	67.1	66.7	66	-0.4	15	Snd Lvl	59.9	6.8	7	-0.2
196	1023	1	69.9	69.4	66	-0.5	15	Snd Lvl	61.8	7.6	7	0.6
197	1024	1	72.3	70.5	66	-1.8	15	Snd Lvl	62.8	7.7	7	0.7
198	1025	1	68.5	67.9	66	-0.6	15	Snd Lvl	60.9	7.0	7	0.0
199	1026	1	66.6	66.0	66	-0.6	15	Snd Lvl	59.6	6.4	7	-0.6
200	1027	1	64.9	65.1	66	0.2	15	----	58.9	6.2	7	-0.8
201	1028	1	63.8	64.1	66	0.3	15	----	58.1	6.0	7	-1.0
202	1029	1	63.7	64.0	66	0.3	15	----	57.9	6.1	7	-0.9
203	1030	1	63.6	63.9	66	0.3	15	----	58.0	5.9	7	-1.1
204	1031	1	63.7	64.3	66	0.6	15	----	58.2	6.1	7	-0.9
205	1032	1	65.1	65.6	66	0.5	15	----	59.3	6.3	7	-0.7
206	1033	1	66.7	66.9	66	0.2	15	Snd Lvl	60.3	6.6	7	-0.4
208	1034	1	73.6	72.9	66	-0.7	15	Snd Lvl	64.1	8.8	7	1.8
209	1035	1	75.7	74.1	66	-1.6	15	Snd Lvl	64.7	9.4	7	2.4
210	1036	1	76.4	76.0	66	-0.4	15	Snd Lvl	65.3	10.7	7	3.7
211	1037	1	78.6	79.1	66	0.5	15	Snd Lvl	66.3	12.8	7	5.8
212	1038	1	75.7	75.8	66	0.1	15	Snd Lvl	65.3	10.5	7	3.5
213	1039	1	71.1	71.5	66	0.4	15	Snd Lvl	63.4	8.1	7	1.1
214	1040	1	67.2	67.9	66	0.7	15	Snd Lvl	60.8	7.1	7	0.1
215	1041	1	65.9	66.3	66	0.4	15	Snd Lvl	59.8	6.5	7	-0.5
216	1042	1	65.5	66.7	66	1.2	15	Snd Lvl	60.1	6.6	7	-0.4
217	1043	1	65.6	66.4	66	0.8	15	Snd Lvl	59.9	6.5	7	-0.5
218	1044	1	63.3	64.3	66	1.0	15	----	58.1	6.2	7	-0.8
219	7 8	1	63.0	64.3	66	1.3	15	----	58.2	6.1	7	-0.9
220	1046	1	63.4	64.5	66	1.1	15	----	58.3	6.2	7	-0.8
221	1047	1	63.4	65.1	66	1.7	15	----	58.6	6.5	7	-0.5
222	1048	1	63.7	65.8	66	2.1	15	----	59.4	6.4	7	-0.6
223	1049	1	64.5	66.9	66	2.4	15	Snd Lvl	60.2	6.7	7	-0.3
224	1050	1	65.6	67.9	66	2.3	15	Snd Lvl	61.1	6.8	7	-0.2
225	1051	1	67.9	70.1	66	2.2	15	Snd Lvl	62.4	7.7	7	0.7
226	1052	1	70.9	72.6	66	1.7	15	Snd Lvl	63.8	8.8	7	1.8
227	1053	1	76.8	78.0	66	1.2	15	Snd Lvl	67.8	10.2	7	3.2
228	1054	1	76.0	77.1	66	1.1	15	Snd Lvl	68.3	8.8	7	1.8
229	1055	1	73.9	75.2	66	1.3	15	Snd Lvl	67.0	8.2	7	1.2
230	1056	1	71.2	73.1	66	1.9	15	Snd Lvl	65.6	7.5	7	0.5
231	1057	1	68.3	70.8	66	2.5	15	Snd Lvl	64.7	6.1	7	-0.9
232	1058	1	65.2	67.7	66	2.5	15	Snd Lvl	61.1	6.6	7	-0.4

RESULTS: SOUND LEVELS
I-65/I-465 South, DES 0902297

233	1059	1	63.5	66.0	66	2.5	15	Snd Lvl	60.4	5.6	7	-1.4
234	1060	1	63.7	66.3	66	2.6	15	Snd Lvl	61.1	5.2	7	-1.8
235	1061	1	64.7	67.4	66	2.7	15	Snd Lvl	61.7	5.7	7	-1.3
236	1062	1	66.3	68.9	66	2.6	15	Snd Lvl	63.6	5.3	7	-1.7
237	1063	1	66.2	68.6	66	2.4	15	Snd Lvl	63.5	5.1	7	-1.9
238	1064	1	64.8	67.6	66	2.8	15	Snd Lvl	61.9	5.7	7	-1.3
239	1065	1	63.3	66.2	66	2.9	15	Snd Lvl	61.0	5.2	7	-1.8
240	1066	1	63.7	66.1	66	2.4	15	Snd Lvl	59.6	6.5	7	-0.5
241	1067	1	64.6	66.5	66	1.9	15	Snd Lvl	60.7	5.8	7	-1.2
242	1068	1	66.6	68.9	66	2.3	15	Snd Lvl	61.9	7.0	7	0.0
243	1069	1	72.0	73.8	66	1.8	15	Snd Lvl	64.9	8.9	7	1.9
244	1070	1	78.5	79.5	66	1.0	15	Snd Lvl	66.9	12.6	7	5.6
245	1071	1	67.4	68.7	66	1.3	15	Snd Lvl	62.7	6.0	7	-1.0
246	1072	1	64.7	65.6	66	0.9	15	----	61.4	4.2	7	-2.8
247	1073	1	63.5	64.3	66	0.8	15	----	61.2	3.1	7	-3.9
248	1074	1	63.5	64.5	66	1.0	15	----	60.5	4.0	7	-3.0
249	1075	1	62.0	62.8	66	0.8	15	----	59.4	3.4	7	-3.6
250	1076	1	61.8	62.4	66	0.6	15	----	59.8	2.6	7	-4.4
251	1077	1	61.5	61.9	66	0.4	15	----	60.3	1.6	7	-5.4
252	1078	1	62.6	63.1	66	0.5	15	----	62.1	1.0	7	-6.0
253	1079	1	63.1	63.5	66	0.4	15	----	63.1	0.4	7	-6.6
254	1080	1	65.1	65.7	66	0.6	15	----	65.5	0.2	7	-6.8
255A	1083	1	61.8	62.1	66	0.3	15	----	60.9	1.2	7	-5.8
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		88	0.0	6.0	12.8							
All Impacted		48	0.0	7.4	12.8							
All that meet NR Goal		24	7.0	8.8	12.8							

RESULTS: SOUND LEVELS

I-65/I-465 South, DES 0902297

Shrewsberry													
Melanie Barnes													
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		I-65/I-465 South, DES 0902297											
RUN:		I-465 WB											
BARRIER DESIGN:		Wall I-465 WB							Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.				
ATMOSPHERICS:		68 deg F, 50% RH											
Receiver													
Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h		Increase over existing	Type	Calculated	Noise Reduction				
				Calculated	Crit'n	Calculated	Crit'n	Impact	LAeq1h	Calculated	Goal	Calculated	
							Sub'l Inc					minus	
												Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
1	1471	1	68.5	68.6	66	0.1	15	Snd Lvl	63.2	5.4	7	-1.6	
2	1472	1	65.5	65.5	66	0.0	15	----	61.3	4.2	7	-2.8	
3	1473	1	64.1	64.0	66	-0.1	15	----	59.7	4.3	7	-2.7	
4	1474	1	67.2	67.3	66	0.1	15	Snd Lvl	61.8	5.5	7	-1.5	
5	1475	1	67.3	67.4	66	0.1	15	Snd Lvl	61.6	5.8	7	-1.2	
6	1476	1	68.0	68.1	66	0.1	15	Snd Lvl	62.0	6.1	7	-0.9	
7	1477	1	68.1	68.2	66	0.1	15	Snd Lvl	62.2	6.0	7	-1.0	
8	1478	1	67.6	67.7	66	0.1	15	Snd Lvl	61.3	6.4	7	-0.6	
9	1479	1	65.2	65.1	66	-0.1	15	----	59.4	5.7	7	-1.3	
10	1480	1	64.9	64.9	66	0.0	15	----	59.1	5.8	7	-1.2	
11	1481	1	73.6	73.8	66	0.2	15	Snd Lvl	63.5	10.3	7	3.3	
12	1482	1	71.8	72.0	66	0.2	15	Snd Lvl	63.2	8.8	7	1.8	
13	1483	1	63.4	63.4	66	0.0	15	----	58.0	5.4	7	-1.6	
14	1484	1	62.0	62.0	66	0.0	15	----	57.0	5.0	7	-2.0	
15	1485	1	68.6	68.7	66	0.1	15	Snd Lvl	61.5	7.2	7	0.2	
16	1486	1	71.4	71.6	66	0.2	15	Snd Lvl	62.6	9.0	7	2.0	
17	1487	1	71.8	72.2	66	0.4	15	Snd Lvl	62.6	9.6	7	2.6	
18	1488	1	69.7	69.7	66	0.0	15	Snd Lvl	61.6	8.1	7	1.1	
19	1489	1	69.4	69.3	66	-0.1	15	Snd Lvl	61.4	7.9	7	0.9	
20	1490	1	68.7	68.5	66	-0.2	15	Snd Lvl	61.1	7.4	7	0.4	
21	1491	1	68.2	68.2	66	0.0	15	Snd Lvl	60.8	7.4	7	0.4	
22	1492	1	67.7	67.5	66	-0.2	15	Snd Lvl	60.4	7.1	7	0.1	
23	1493	1	66.1	65.8	66	-0.3	15	----	59.3	6.5	7	-0.5	
24	1494	1	64.7	64.6	66	-0.1	15	----	58.2	6.4	7	-0.6	

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RESULTS: SOUND LEVELS
I-65/I-465 South, DES 0902297

25	1495	1	64.1	64.0	66	-0.1	15	----	57.8	6.2	7	-0.8
26	1496	1	63.2	63.1	66	-0.1	15	----	57.1	6.0	7	-1.0
27	1497	1	62.2	62.2	66	0.0	15	----	56.3	5.9	7	-1.1
28	1498	1	63.1	62.9	66	-0.2	15	----	57.7	5.2	7	-1.8
29	1499	1	62.5	62.5	66	0.0	15	----	57.2	5.3	7	-1.7
30	1500	1	63.4	63.4	66	0.0	15	----	57.9	5.5	7	-1.5
31	1501	1	63.7	63.7	66	0.0	15	----	58.2	5.5	7	-1.5
32	1502	1	64.5	64.4	66	-0.1	15	----	58.6	5.8	7	-1.2
33	1503	1	64.7	64.8	66	0.1	15	----	58.9	5.9	7	-1.1
34	1504	1	64.5	64.6	66	0.1	15	----	58.4	6.2	7	-0.8
35	1505	1	64.5	64.4	66	-0.1	15	----	58.2	6.2	7	-0.8
36	1506	1	64.5	64.5	66	0.0	15	----	58.3	6.2	7	-0.8
37	1507	1	63.3	63.3	66	0.0	15	----	57.3	6.0	7	-1.0
38	1508	1	62.7	62.7	66	0.0	15	----	57.1	5.6	7	-1.4
39	1509	1	62.2	62.1	66	-0.1	15	----	56.6	5.5	7	-1.5
40	1510	1	62.6	62.6	66	0.0	15	----	56.7	5.9	7	-1.1
41	1511	1	64.0	63.9	66	-0.1	15	----	57.7	6.2	7	-0.8
42	1512	1	65.2	65.0	66	-0.2	15	----	58.7	6.3	7	-0.7
43	1513	1	66.4	65.8	66	-0.6	15	----	59.5	6.3	7	-0.7
44	1514	1	66.7	66.0	66	-0.7	15	Snd Lvl	59.8	6.2	7	-0.8
45	1515	1	66.8	66.4	66	-0.4	15	Snd Lvl	60.1	6.3	7	-0.7
46	1516	1	68.8	67.8	66	-1.0	15	Snd Lvl	61.1	6.7	7	-0.3
47	1517	1	69.6	68.4	66	-1.2	15	Snd Lvl	61.5	6.9	7	-0.1
48	1518	1	64.4	64.6	66	0.2	15	----	58.2	6.4	7	-0.6
49	1519	1	63.8	63.9	66	0.1	15	----	57.6	6.3	7	-0.7
50	1520	1	63.3	63.4	66	0.1	15	----	57.2	6.2	7	-0.8
51	1521	1	62.9	63.0	66	0.1	15	----	56.9	6.1	7	-0.9
52	1522	1	62.2	62.3	66	0.1	15	----	56.5	5.8	7	-1.2
53	1523	1	73.1	73.1	66	0.0	15	Snd Lvl	64.0	9.1	7	2.1
54	1524	1	70.9	71.0	66	0.1	15	Snd Lvl	62.9	8.1	7	1.1
55	1525	1	69.6	69.4	66	-0.2	15	Snd Lvl	62.0	7.4	7	0.4
56	1526	1	68.5	68.4	66	-0.1	15	Snd Lvl	61.3	7.1	7	0.1
57	1527	1	74.2	75.4	66	1.2	15	Snd Lvl	64.8	10.6	7	3.6
58	1528	1	72.9	74.2	66	1.3	15	Snd Lvl	64.2	10.0	7	3.0
59	1529	1	71.2	72.4	66	1.2	15	Snd Lvl	63.2	9.2	7	2.2
60	1530	1	70.2	71.6	66	1.4	15	Snd Lvl	62.8	8.8	7	1.8
61	1531	1	75.4	76.4	66	1.0	15	Snd Lvl	65.7	10.7	7	3.7
62	1532	1	74.0	75.0	66	1.0	15	Snd Lvl	65.0	10.0	7	3.0
63	1533	1	73.1	74.4	66	1.3	15	Snd Lvl	64.5	9.9	7	2.9
64	1534	1	72.0	73.9	66	1.9	15	Snd Lvl	64.0	9.9	7	2.9
65	1535	1	71.1	73.6	66	2.5	15	Snd Lvl	63.6	10.0	7	3.0

S:\Project Files\2010\IP10-0035\Reports\Final Report - Combined\TNM files\Wall I-465 WB

RESULTS: SOUND LEVELS

I-65/I-465 South, DES 0902297

66	1536	1	72.8	74.2	66	1.4	15	Snd Lvl	64.5	9.7	7	2.7
67	1537	1	71.8	73.9	66	2.1	15	Snd Lvl	64.0	9.9	7	2.9
68	1538	1	70.9	72.9	66	2.0	15	Snd Lvl	63.4	9.5	7	2.5
69	1539	1	70.0	73.1	66	3.1	15	Snd Lvl	63.1	10.0	7	3.0
70	1540	1	69.1	72.0	66	2.9	15	Snd Lvl	62.6	9.4	7	2.4
71	1541	1	68.5	71.7	66	3.2	15	Snd Lvl	62.3	9.4	7	2.4
72	1542	1	68.0	71.0	66	3.0	15	Snd Lvl	61.9	9.1	7	2.1
73	1543	1	67.4	70.7	66	3.3	15	Snd Lvl	61.7	9.0	7	2.0
74	1544	1	67.0	70.3	66	3.3	15	Snd Lvl	61.5	8.8	7	1.8
75	1545	1	66.4	70.0	66	3.6	15	Snd Lvl	61.2	8.8	7	1.8
76	1546	1	66.0	69.8	66	3.8	15	Snd Lvl	60.9	8.9	7	1.9
77	1547	1	65.4	68.8	66	3.4	15	Snd Lvl	60.4	8.4	7	1.4
78	1548	1	66.0	68.2	66	2.2	15	Snd Lvl	60.8	7.4	7	0.4
79	1549	1	65.8	67.9	66	2.1	15	Snd Lvl	60.6	7.3	7	0.3
80	1550	1	65.5	67.4	66	1.9	15	Snd Lvl	60.4	7.0	7	0.0
81	1551	1	65.3	66.9	66	1.6	15	Snd Lvl	60.1	6.8	7	-0.2
82	1552	1	64.9	66.1	66	1.2	15	Snd Lvl	59.7	6.4	7	-0.6
83	1553	1	62.3	63.7	66	1.4	15	----	57.7	6.0	7	-1.0
84	1554	1	62.5	63.9	66	1.4	15	----	57.8	6.1	7	-0.9
85	1555	1	62.7	64.2	66	1.5	15	----	57.9	6.3	7	-0.7
86	1556	1	62.8	64.2	66	1.4	15	----	58.0	6.2	7	-0.8
87	1557	1	63.0	64.5	66	1.5	15	----	58.1	6.4	7	-0.6
88	1558	1	63.1	64.6	66	1.5	15	----	58.2	6.4	7	-0.6
89	1559	1	62.9	64.4	66	1.5	15	----	58.1	6.3	7	-0.7
90	1560	1	62.8	64.5	66	1.7	15	----	58.0	6.5	7	-0.5
91	1561	1	62.9	64.6	66	1.7	15	----	58.0	6.6	7	-0.4
92	1562	1	62.7	64.9	66	2.2	15	----	58.1	6.8	7	-0.2
93	1563	1	62.7	64.5	66	1.8	15	----	57.9	6.6	7	-0.4
94	1564	1	62.8	64.1	66	1.3	15	----	57.8	6.3	7	-0.7
95	1565	1	62.9	64.2	66	1.3	15	----	57.8	6.4	7	-0.6
96	1566	1	63.1	64.1	66	1.0	15	----	57.8	6.3	7	-0.7
97	1567	1	64.0	65.1	66	1.1	15	----	58.6	6.5	7	-0.5
98	1568	1	64.4	65.5	66	1.1	15	----	58.9	6.6	7	-0.4
99	1569	1	64.8	66.1	66	1.3	15	Snd Lvl	59.3	6.8	7	-0.2
100	1570	1	65.3	66.5	66	1.2	15	Snd Lvl	59.6	6.9	7	-0.1
101	1571	1	66.1	68.4	66	2.3	15	Snd Lvl	60.6	7.8	7	0.8
102	1572	1	66.5	69.2	66	2.7	15	Snd Lvl	60.9	8.3	7	1.3
103	1573	1	66.9	69.4	66	2.5	15	Snd Lvl	61.1	8.3	7	1.3
104	1574	1	67.3	69.5	66	2.2	15	Snd Lvl	61.3	8.2	7	1.2
105	1575	1	66.1	68.3	66	2.2	15	Snd Lvl	60.6	7.7	7	0.7
106	1576	1	65.7	67.1	66	1.4	15	Snd Lvl	60.1	7.0	7	0.0

S:\Project Files\2010\IP10-0035\Reports\Final Report - Combined\TNM files\Wall I-465 WB

RESULTS: SOUND LEVELS

I-65/I-465 South, DES 0902297

107	1577	1	65.2	66.3	66	1.1	15	Snd Lvl	59.4	6.9	7	-0.1
108	1578	1	64.8	65.6	66	0.8	15	----	59.1	6.5	7	-0.5
109	1579	1	65.0	65.7	66	0.7	15	----	59.1	6.6	7	-0.4
110	1580	1	65.3	65.7	66	0.4	15	----	59.1	6.6	7	-0.4
111	1581	1	65.9	66.0	66	0.1	15	Snd Lvl	59.4	6.6	7	-0.4
112	1582	1	68.4	71.4	66	3.0	15	Snd Lvl	62.3	9.1	7	2.1
113	1583	1	67.7	70.8	66	3.1	15	Snd Lvl	61.9	8.9	7	1.9
114	1584	1	67.1	70.4	66	3.3	15	Snd Lvl	61.5	8.9	7	1.9
115	1585	1	66.6	70.0	66	3.4	15	Snd Lvl	61.2	8.8	7	1.8
116	1586	1	66.2	69.9	66	3.7	15	Snd Lvl	61.0	8.9	7	1.9
117	1587	1	66.0	69.7	66	3.7	15	Snd Lvl	60.9	8.8	7	1.8
118	1588	1	65.8	69.0	66	3.2	15	Snd Lvl	60.7	8.3	7	1.3
119	1589	1	65.8	69.0	66	3.2	15	Snd Lvl	60.6	8.4	7	1.4
120	1590	1	68.2	71.5	66	3.3	15	Snd Lvl	62.6	8.9	7	1.9
121	1591	1	66.8	68.5	66	1.7	15	Snd Lvl	61.5	7.0	7	0.0
122	1592	1	64.4	66.0	66	1.6	15	Snd Lvl	59.7	6.3	7	-0.7
123	1593	1	66.1	71.0	66	4.9	15	Snd Lvl	61.7	9.3	7	2.3
124	1594	1	67.5	71.0	66	3.5	15	Snd Lvl	62.8	8.2	7	1.2
125	1595	1	70.1	72.6	66	2.5	15	Snd Lvl	64.0	8.6	7	1.6
126	1596	1	73.2	75.4	66	2.2	15	Snd Lvl	65.4	10.0	7	3.0
127	1597	1	65.8	68.9	66	3.1	15	Snd Lvl	61.9	7.0	7	0.0
128	1598	1	64.3	67.4	66	3.1	15	Snd Lvl	61.1	6.3	7	-0.7
129	1599	1	63.5	66.8	66	3.3	15	Snd Lvl	61.2	5.6	7	-1.4
130	1600	1	63.6	66.9	66	3.3	15	Snd Lvl	61.7	5.2	7	-1.8
131	1601	1	62.6	66.5	66	3.9	15	Snd Lvl	63.2	3.3	7	-3.7
132	1602	1	61.7	65.5	66	3.8	15	----	62.7	2.8	7	-4.2
133	1603	1	59.3	61.8	66	2.5	15	----	61.4	0.4	7	-6.6
134	1604	1	60.0	62.3	66	2.3	15	----	62.2	0.1	7	-6.9
135	1605	1	60.1	63.2	66	3.1	15	----	63.1	0.1	7	-6.9
136	1606	1	61.4	65.6	66	4.2	15	----	65.5	0.1	7	-6.9
137	1607	1	58.3	60.2	66	1.9	15	----	59.7	0.5	7	-6.5
138	1608	1	58.3	60.2	66	1.9	15	----	59.7	0.5	7	-6.5
139	1609	1	58.3	60.3	66	2.0	15	----	59.7	0.6	7	-6.4
140	1610	1	58.2	60.2	66	2.0	15	----	59.6	0.6	7	-6.4
141	1611	1	58.2	60.2	66	2.0	15	----	59.5	0.7	7	-6.3
142	1612	1	58.2	60.1	66	1.9	15	----	59.5	0.6	7	-6.4
143	1613	1	59.0	61.3	66	2.3	15	----	59.4	1.9	7	-5.1
144	1614	1	58.8	61.3	66	2.5	15	----	59.3	2.0	7	-5.0
145	1615	1	58.8	61.1	66	2.3	15	----	59.2	1.9	7	-5.1
146	1616	1	59.9	63.0	66	3.1	15	----	59.5	3.5	7	-3.5
147	1617	1	60.0	63.1	66	3.1	15	----	60.1	3.0	7	-4.0

S:\Project Files\2010\P10-0035\Reports\Final Report - Combined\TNM files\Wall I-465 WB

RESULTS: SOUND LEVELS
I-65/I-465 South, DES 0902297

148	1618	1	60.0	63.0	66	3.0	15	----	60.2	2.8	7	-4.2
149	1619	1	60.0	62.9	66	2.9	15	----	60.3	2.6	7	-4.4
150	1620	1	59.3	62.0	66	2.7	15	----	59.4	2.6	7	-4.4
151	1621	1	60.8	64.2	66	3.4	15	----	59.4	4.8	7	-2.2
152	1622	1	60.2	63.4	66	3.2	15	----	59.2	4.2	7	-2.8
153	1623	1	59.8	62.9	66	3.1	15	----	58.8	4.1	7	-2.9
154	1624	1	61.3	64.5	66	3.2	15	----	58.5	6.0	7	-1.0
155	1625	1	61.1	64.3	66	3.2	15	----	58.3	6.0	7	-1.0
156	1627	1	61.3	64.4	66	3.1	15	----	58.2	6.2	7	-0.8
157	1628	1	62.5	64.6	66	2.1	15	----	58.9	5.7	7	-1.3
158	1629	1	62.1	64.4	66	2.3	15	----	58.5	5.9	7	-1.1
159	1630	1	65.5	68.2	66	2.7	15	Snd Lvl	61.2	7.0	7	0.0
160	1631	1	64.4	66.4	66	2.0	15	Snd Lvl	60.2	6.2	7	-0.8
161	1632	1	63.9	66.5	66	2.6	15	Snd Lvl	59.8	6.7	7	-0.3
162	1633	1	62.6	62.7	66	0.1	15	----	60.5	2.2	7	-4.8
163	1634	1	62.9	63.0	66	0.1	15	----	61.7	1.3	7	-5.7
164	1635	1	63.3	63.4	66	0.1	15	----	62.4	1.0	7	-6.0
165	1636	1	65.8	66.0	71	0.2	15	----	65.9	0.1	7	-6.9
166	1637	1	62.5	62.9	71	0.4	15	----	62.8	0.1	7	-6.9
167	1638	1	67.5	68.0	71	0.5	15	----	68.0	0.0	7	-7.0
259	1646	1	60.7	63.7	66	3.0	15	----	58.5	5.2	7	-1.8
260	1647	1	60.7	63.7	66	3.0	15	----	58.7	5.0	7	-2.0
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		169	0.0	6.2	10.7							
All Impacted		83	3.3	8.0	10.7							
All that meet NR Goal		59	7.0	8.7	10.7							

RESULTS: SOUND LEVELS
I-65/I-465 South, DES 0902297

Shrewsberry Melanie Barnes												
24 August 2012 TNM 2.5 Calculated with TNM 2.5												
RESULTS: SOUND LEVELS PROJECT/CONTRACT: I-65/I-465 South, DES 0902297 RUN: I-65 NB1 BARRIER DESIGN: Wall 1 I-65 NB - PH2 ATMOSPHERICS: 68 deg F, 50% RH												
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.												
Receiver												
Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over Calculated	existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
306	1093	1	68.0	70.6	66	2.6	15	Snd Lvl	65.3	5.3	7	-1.7
307	1094	1	66.4	69.0	66	2.6	15	Snd Lvl	64.0	5.0	7	-2.0
308	1095	1	64.2	66.4	66	2.2	15	Snd Lvl	62.7	3.7	7	-3.3
309	1096	1	71.9	74.3	66	2.4	15	Snd Lvl	65.5	8.8	7	1.8
310	1097	1	67.6	70.3	66	2.7	15	Snd Lvl	64.2	6.1	7	-0.9
311	1098	1	65.6	68.1	66	2.5	15	Snd Lvl	62.5	5.6	7	-1.4
312	1099	1	63.8	65.8	66	2.0	15	----	61.3	4.5	7	-2.5
313	1100	1	73.8	75.8	66	2.0	15	Snd Lvl	68.5	7.3	7	0.3
314	1101	1	69.4	72.1	66	2.7	15	Snd Lvl	64.6	7.5	7	0.5
315	1102	1	67.9	70.6	66	2.7	15	Snd Lvl	63.5	7.1	7	0.1
316	1103	1	65.9	68.4	66	2.5	15	Snd Lvl	62.4	6.0	7	-1.0
317	1104	1	64.6	66.7	66	2.1	15	Snd Lvl	61.3	5.4	7	-1.6
318	1105	1	75.9	77.5	66	1.6	15	Snd Lvl	64.5	13.0	7	6.0
319	1106	1	73.0	74.9	66	1.9	15	Snd Lvl	64.1	10.8	7	3.8
320	1107	1	68.5	70.9	66	2.4	15	Snd Lvl	63.4	7.5	7	0.5
321	1108	1	66.0	68.5	66	2.5	15	Snd Lvl	62.3	6.2	7	-0.8
322	1109	1	65.2	67.4	66	2.2	15	Snd Lvl	61.6	5.8	7	-1.2
323	1110	1	73.0	74.7	66	1.7	15	Snd Lvl	63.5	11.2	7	4.2
324	1111	1	69.0	71.4	66	2.4	15	Snd Lvl	63.2	8.2	7	1.2
325	1112	1	67.1	69.3	66	2.2	15	Snd Lvl	62.2	7.1	7	0.1
326	1113	1	64.8	66.9	66	2.1	15	Snd Lvl	60.7	6.2	7	-0.8
327	1114	1	74.2	75.6	66	1.4	15	Snd Lvl	71.4	4.2	7	-2.8
328	1115	1	70.9	72.7	66	1.8	15	Snd Lvl	67.7	5.0	7	-2.0
329	1116	1	67.6	69.2	66	1.6	15	Snd Lvl	63.6	5.6	7	-1.4

RESULTS: SOUND LEVELS

I-65/I-465 South, DES 0902297

330	1117	1	65.7	66.6	66	0.9	15	Snd Lvl	60.2	6.4	7	-0.6
331	1118	1	68.4	69.7	66	1.3	15	Snd Lvl	64.3	5.4	7	-1.6
332	1119	1	65.9	66.4	66	0.5	15	Snd Lvl	61.9	4.5	7	-2.5
303	1471	1	72.0	72.9	66	0.9	15	Snd Lvl	72.1	0.8	7	-6.2
304	1472	1	68.4	69.7	66	1.3	15	Snd Lvl	68.1	1.6	7	-5.4
305	1473	1	64.6	66.4	66	1.8	15	Snd Lvl	64.7	1.7	7	-5.3
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		30	0.8	6.1	13.0							
All Impacted		29	0.8	6.2	13.0							
All that meet NR Goal		10	7.1	8.9	13.0							

RESULTS: SOUND LEVELS

I-65/I-465 South, DES 0902297

Shrewsberry													
Melanie Barnes													
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		I-65/I-465 South, DES 0902297											
RUN:		I-65 NB2											
BARRIER DESIGN:		Wall 2 I-65 NB							Average pavement type shall be used unless				
									a State highway agency substantiates the use				
ATMOSPHERICS:		68 deg F, 50% RH							of a different type with approval of FHWA.				
Receiver													
Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h		Increase over existing	Type		With Barrier Calculated LAeq1h	Noise Reduction Calculated	Goal	Calculated minus Goal	
				Calculated	Crit'n	Calculated	Crit'n	Impact					
							Sub'l Inc						
			dB	dB	dB	dB	dB		dB	dB	dB	dB	
333	1120	1	68.3	67.5	66	-0.8	15	Snd Lvl	63.0	4.5	7	-2.5	
334	1121	1	66.7	66.1	66	-0.6	15	Snd Lvl	61.7	4.4	7	-2.6	
335	1122	1	65.6	65.2	66	-0.4	15	----	60.8	4.4	7	-2.6	
336	1123	1	68.7	68.4	66	-0.3	15	Snd Lvl	61.8	6.6	7	-0.4	
337	1124	1	67.1	67.0	66	-0.1	15	Snd Lvl	60.7	6.3	7	-0.7	
338	1125	1	65.7	65.5	66	-0.2	15	----	59.7	5.8	7	-1.2	
339	1126	1	67.1	67.2	66	0.1	15	Snd Lvl	60.7	6.5	7	-0.5	
340	1127	1	66.2	66.5	66	0.3	15	Snd Lvl	60.1	6.4	7	-0.6	
341	1128	1	67.4	67.8	66	0.4	15	Snd Lvl	60.9	6.9	7	-0.1	
342	1129	1	66.5	66.9	66	0.4	15	Snd Lvl	60.3	6.6	7	-0.4	
343	1130	1	67.5	67.9	66	0.4	15	Snd Lvl	61.1	6.8	7	-0.2	
344	1131	1	66.2	66.6	66	0.4	15	Snd Lvl	60.0	6.6	7	-0.4	
345	1132	1	76.2	73.2	66	-3.0	15	Snd Lvl	64.8	8.4	7	1.4	
346	1133	1	76.0	73.2	66	-2.8	15	Snd Lvl	64.3	8.9	7	1.9	
347	1134	1	75.4	73.0	66	-2.4	15	Snd Lvl	64.2	8.8	7	1.8	
348	1135	1	75.8	74.5	66	-1.3	15	Snd Lvl	64.2	10.3	7	3.3	
349	1136	1	75.8	75.9	66	0.1	15	Snd Lvl	64.2	11.7	7	4.7	
350	1137	1	75.6	76.8	66	1.2	15	Snd Lvl	64.9	11.9	7	4.9	
351	1138	1	75.5	76.7	66	1.2	15	Snd Lvl	65.7	11.0	7	4.0	
352	1139	1	75.6	76.7	66	1.1	15	Snd Lvl	65.1	11.6	7	4.6	
353	1140	1	73.8	74.6	66	0.8	15	Snd Lvl	64.5	10.1	7	3.1	
354	1141	1	71.7	72.4	66	0.7	15	Snd Lvl	63.8	8.6	7	1.6	
355	1142	1	71.9	72.8	66	0.9	15	Snd Lvl	64.1	8.7	7	1.7	
356	1143	1	74.2	75.1	66	0.9	15	Snd Lvl	64.9	10.2	7	3.2	

RESULTS: SOUND LEVELS
I-65/I-465 South, DES 0902297

357	1144	1	76.2	77.3	66	1.1	15	Snd Lvl	65.6	11.7	7	4.7
358	1145	1	73.4	74.3	66	0.9	15	Snd Lvl	65.2	9.1	7	2.1
359	1146	1	68.9	69.0	66	0.1	15	Snd Lvl	63.1	5.9	7	-1.1
360	1147	1	66.8	66.7	66	-0.1	15	Snd Lvl	61.0	5.7	7	-1.3
361	1148	1	66.0	66.0	66	0.0	15	Snd Lvl	60.2	5.8	7	-1.2
362	1149	1	65.5	65.8	66	0.3	15	----	59.9	5.9	7	-1.1
363	1150	1	65.3	65.4	66	0.1	15	----	59.5	5.9	7	-1.1
364	1151	1	69.0	69.5	66	0.5	15	Snd Lvl	62.4	7.1	7	0.1
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		32	4.4	7.8	11.9							
All Impacted		28	4.4	8.1	11.9							
All that meet NR Goal		15	7.1	9.9	11.9							

RESULTS: SOUND LEVELS

I-65/I-465 South, DES 0902297

Shrewsberry												
Melanie Barnes												
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT: I-65/I-465 South, DES 0902297												
RUN: I-65 NB3												
BARRIER DESIGN: Wall 3 I-65 NB												
ATMOSPHERICS: 68 deg F, 50% RH												
Receiver												
Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
365	1152	1	65.6	64.1	66	-1.5	15	----	61.5	2.6	7	-4.4
366	1153	1	65.4	63.9	66	-1.5	15	----	60.6	3.3	7	-3.7
367	1154	1	69.2	66.4	66	-2.8	15	Snd Lvl	62.2	4.2	7	-2.8
368	1155	1	67.2	64.8	66	-2.4	15	----	60.8	4.0	7	-3.0
369	1156	1	65.8	69.4	66	3.6	15	Snd Lvl	63.4	6.0	7	-1.0
370	1157	1	68.8	69.0	66	0.2	15	Snd Lvl	62.7	6.3	7	-0.7
371	1158	1	66.8	66.8	66	0.0	15	Snd Lvl	61.2	5.6	7	-1.4
372	1159	1	65.7	65.5	66	-0.2	15	----	60.4	5.1	7	-1.9
373	1160	1	65.7	65.5	66	-0.2	15	----	60.2	5.3	7	-1.7
374	1161	1	66.4	66.3	66	-0.1	15	Snd Lvl	60.8	5.5	7	-1.5
375	1162	1	67.6	67.7	66	0.1	15	Snd Lvl	61.8	5.9	7	-1.1
376	1163	1	70.9	71.5	66	0.6	15	Snd Lvl	64.1	7.4	7	0.4
377	1164	1	73.9	74.7	66	0.8	15	Snd Lvl	65.0	9.7	7	2.7
378	1165	1	75.9	76.9	66	1.0	15	Snd Lvl	65.7	11.2	7	4.2
379	1166	1	72.8	73.6	66	0.8	15	Snd Lvl	64.3	9.3	7	2.3
380	1167	1	69.9	70.5	66	0.6	15	Snd Lvl	63.1	7.4	7	0.4
381	1168	1	68.6	69.1	66	0.5	15	Snd Lvl	62.3	6.8	7	-0.2
382	1169	1	67.6	67.9	66	0.3	15	Snd Lvl	61.9	6.0	7	-1.0
383	1170	1	66.6	66.5	66	-0.1	15	Snd Lvl	61.1	5.4	7	-1.6
384	1171	1	65.6	65.4	66	-0.2	15	----	60.1	5.3	7	-1.7
385	1172	1	65.6	65.4	66	-0.2	15	----	60.3	5.1	7	-1.9
386	1173	1	66.4	66.3	66	-0.1	15	Snd Lvl	60.9	5.4	7	-1.6
387	1174	1	67.2	67.3	66	0.1	15	Snd Lvl	61.7	5.6	7	-1.4
388	1175	1	69.1	69.7	66	0.6	15	Snd Lvl	63.1	6.6	7	-0.4

RESULTS: SOUND LEVELS
I-65/I-465 South, DES 0902297

389	1176	1	73.3	74.3	66	1.0	15	Snd Lvl	65.1	9.2	7	2.2
390	1177	1	76.8	77.8	66	1.0	15	Snd Lvl	66.5	11.3	7	4.3
391	1178	1	75.5	76.7	66	1.2	15	Snd Lvl	65.8	10.9	7	3.9
392	1179	1	72.5	73.5	66	1.0	15	Snd Lvl	64.7	8.8	7	1.8
393	1180	1	69.7	70.2	66	0.5	15	Snd Lvl	63.3	6.9	7	-0.1
394	1181	1	68.2	68.5	66	0.3	15	Snd Lvl	62.6	5.9	7	-1.1
395	1182	1	66.8	66.9	66	0.1	15	Snd Lvl	61.4	5.5	7	-1.5
396	1183	1	65.8	65.6	66	-0.2	15	----	60.5	5.1	7	-1.9
398	1184	1	67.4	67.6	66	0.2	15	Snd Lvl	62.2	5.4	7	-1.6
399	1185	1	69.2	69.8	66	0.6	15	Snd Lvl	63.5	6.3	7	-0.7
400	1186	1	72.8	73.8	66	1.0	15	Snd Lvl	65.1	8.7	7	1.7
401	1187	1	76.7	77.7	66	1.0	15	Snd Lvl	66.9	10.8	7	3.8
402	1188	1	71.3	72.1	66	0.8	15	Snd Lvl	66.0	6.1	7	-0.9
403	1189	1	68.8	69.3	66	0.5	15	Snd Lvl	64.6	4.7	7	-2.3
404	1190	1	66.8	66.7	66	-0.1	15	Snd Lvl	63.0	3.7	7	-3.3
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		39	2.6	6.5	11.3							
All Impacted		31	3.7	7.0	11.3							
All that meet NR Goal		11	7.4	9.5	11.3							

RESULTS: SOUND LEVELS

I-65/I-465 South, DES 0902297

Shrewsberry												
Melanie Barnes												
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT: I-65/I-465 South, DES 0902297												
RUN: I-65 NB4												
BARRIER DESIGN: I-65 NB 4 North of Gray												
ATMOSPHERICS: 68 deg F, 50% RH												
Receiver												
Name	No.	#DUs	Existing	No Barrier	Crit'n	Increase over existing		With Barrier				
			LAeq1h	LAeq1h		Calculated	Crit'n	Type	Calculated	Noise Reduction	Goal	
				Calculated			Sub'l Inc	Impact	LAeq1h	Calculated		Calculated
												minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
405	1191	1	68.2	68.9	66	0.7	15	Snd Lvl	63.6	5.3	7	-1.7
406	1192	1	77.9	79.3	66	1.4	15	Snd Lvl	70.1	9.2	7	2.2
407	1193	1	77.9	79.2	66	1.3	15	Snd Lvl	67.7	11.5	7	4.5
408	1194	1	77.6	78.9	66	1.3	15	Snd Lvl	67.4	11.5	7	4.5
409	1195	1	77.6	78.9	66	1.3	15	Snd Lvl	67.3	11.6	7	4.6
410	1196	1	74.6	75.9	66	1.3	15	Snd Lvl	65.8	10.1	7	3.1
411	1197	1	71.6	72.7	66	1.1	15	Snd Lvl	64.4	8.3	7	1.3
412	1198	1	69.4	70.4	66	1.0	15	Snd Lvl	63.5	6.9	7	-0.1
413	1199	1	68.0	68.9	66	0.9	15	Snd Lvl	62.7	6.2	7	-0.8
414	1200	1	66.8	67.5	66	0.7	15	Snd Lvl	61.8	5.7	7	-1.3
415	1201	1	65.8	66.4	66	0.6	15	Snd Lvl	61.0	5.4	7	-1.6
416	1202	1	65.8	66.4	66	0.6	15	Snd Lvl	61.3	5.1	7	-1.9
417	1203	1	66.8	67.6	66	0.8	15	Snd Lvl	62.6	5.0	7	-2.0
418	1204	1	68.9	69.9	66	1.0	15	Snd Lvl	64.2	5.7	7	-1.3
419	1205	1	69.3	70.3	66	1.0	15	Snd Lvl	64.2	6.1	7	-0.9
420	1206	1	67.3	68.1	66	0.8	15	Snd Lvl	62.6	5.5	7	-1.5
421	1207	1	65.8	66.3	66	0.5	15	Snd Lvl	61.3	5.0	7	-2.0
422	1208	1	65.7	66.6	66	0.9	15	Snd Lvl	61.1	5.5	7	-1.5
423	1209	1	66.4	67.4	66	1.0	15	Snd Lvl	61.7	5.7	7	-1.3
424	1210	1	67.8	69.0	66	1.2	15	Snd Lvl	62.9	6.1	7	-0.9
425	1211	1	69.1	70.2	66	1.1	15	Snd Lvl	63.2	7.0	7	0.0
426	1212	1	67.4	68.3	66	0.9	15	Snd Lvl	62.0	6.3	7	-0.7
427	1213	1	67.4	68.3	66	0.9	15	Snd Lvl	62.4	5.9	7	-1.1
428	1214	1	68.8	70.0	66	1.2	15	Snd Lvl	63.4	6.6	7	-0.4

RESULTS: SOUND LEVELS
I-65/I-465 South, DES 0902297

429	1215	1	71.5	73.0	66	1.5	15	Snd Lvl	64.8	8.2	7	1.2
430	1216	1	75.4	77.2	66	1.8	15	Snd Lvl	66.6	10.6	7	3.6
431	1217	1	77.4	78.9	66	1.5	15	Snd Lvl	67.4	11.5	7	4.5
432	1218	1	77.6	79.1	66	1.5	15	Snd Lvl	67.1	12.0	7	5.0
433	1219	1	77.7	79.3	66	1.6	15	Snd Lvl	67.3	12.0	7	5.0
434	1220	1	78.1	79.6	66	1.5	15	Snd Lvl	67.5	12.1	7	5.1
435	1221	1	77.9	79.4	66	1.5	15	Snd Lvl	68.1	11.3	7	4.3
436	1222	1	77.9	79.4	66	1.5	15	Snd Lvl	67.8	11.6	7	4.6
437	1223	1	77.9	79.4	66	1.5	15	Snd Lvl	67.9	11.5	7	4.5
438	1224	1	77.7	79.2	66	1.5	15	Snd Lvl	67.8	11.4	7	4.4
439	1225	1	77.9	79.3	66	1.4	15	Snd Lvl	67.9	11.4	7	4.4
440	1226	1	78.1	79.6	66	1.5	15	Snd Lvl	68.1	11.5	7	4.5
441	1227	1	76.7	78.3	66	1.6	15	Snd Lvl	67.4	10.9	7	3.9
442	1228	1	73.5	75.3	66	1.8	15	Snd Lvl	66.3	9.0	7	2.0
443	1229	1	69.7	71.4	66	1.7	15	Snd Lvl	64.6	6.8	7	-0.2
444	1230	1	67.0	68.3	66	1.3	15	Snd Lvl	62.9	5.4	7	-1.6
445	1231	1	66.3	67.4	66	1.1	15	Snd Lvl	62.4	5.0	7	-2.0
446	1233	1	71.7	73.4	66	1.7	15	Snd Lvl	65.5	7.9	7	0.9
447	1471	1	70.9	72.6	66	1.7	15	Snd Lvl	65.6	7.0	7	0.0
448	1472	1	72.7	74.5	66	1.8	15	Snd Lvl	67.0	7.5	7	0.5
2001	1473	1	69.5	70.8	66	1.3	15	Snd Lvl	63.5	7.3	7	0.3
2002	1474	1	69.0	70.3	66	1.3	15	Snd Lvl	63.4	6.9	7	-0.1
2003	1475	1	68.8	70.2	66	1.4	15	Snd Lvl	63.5	6.7	7	-0.3
2004	1476	1	68.9	70.4	66	1.5	15	Snd Lvl	63.6	6.8	7	-0.2
2005	1477	1	69.0	70.4	66	1.4	15	Snd Lvl	63.6	6.8	7	-0.2
2006	1478	1	68.4	69.7	66	1.3	15	Snd Lvl	63.2	6.5	7	-0.5
2007	1479	1	67.6	68.7	66	1.1	15	Snd Lvl	62.5	6.2	7	-0.8
2008	1480	1	66.1	67.1	66	1.0	15	Snd Lvl	61.6	5.5	7	-1.5
2009	1481	1	65.9	66.8	66	0.9	15	Snd Lvl	61.2	5.6	7	-1.4
2010	1482	1	65.9	66.7	66	0.8	15	Snd Lvl	61.1	5.6	7	-1.4
2011	1483	1	65.7	66.5	66	0.8	15	Snd Lvl	60.8	5.7	7	-1.3
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		55	5.0	7.8	12.1							
All Impacted		55	5.0	7.8	12.1							
All that meet NR Goal		24	7.0	10.3	12.1							

RESULTS: SOUND LEVELS

I-65/I-465 South, DES 0902297

Shrewsberry
Melanie Barnes

9 August 2012

TNM 2.5

Calculated with TNM 2.5

RESULTS: SOUND LEVELS

PROJECT/CONTRACT:

I-65/I-465 South, DES 0902297

RUN:

I-65 NB4

BARRIER DESIGN:

Wall 4 NB - South of Gray

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

ATMOSPHERICS:

68 deg F, 50% RH

Receiver													
Name	No.	#DUs	Existing	No Barrier				With Barrier					
			LAeq1h	LAeq1h		Increase over	existing	Type Impact	Calculated LAeq1h	Noise Reduction		Calculated minus Goal	
				Calculated	Crit'n	Calculated	Crit'n			Calculated	Goal		
							Sub'l Inc						
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB	
449	1235	1	65.9	63.3	66	-2.6	15	----	61.2	2.1	7	-4.9	
450	1236	1	66.1	63.4	66	-2.7	15	----	60.0	3.4	7	-3.6	
451	1237	1	68.2	66.6	66	-1.6	15	Snd Lvl	64.7	1.9	7	-5.1	
452	1238	1	71.4	69.4	66	-2.0	15	Snd Lvl	65.4	4.0	7	-3.0	
453	1239	1	74.4	72.7	66	-1.7	15	Snd Lvl	64.7	8.0	7	1.0	
454	1240	1	75.2	76.0	66	0.8	15	Snd Lvl	66.1	9.9	7	2.9	
455	1241	1	72.0	73.2	66	1.2	15	Snd Lvl	64.6	8.6	7	1.6	
456	1242	1	67.1	67.0	66	-0.1	15	Snd Lvl	61.2	5.8	7	-1.2	
457	1243	1	66.0	65.1	66	-0.9	15	----	60.0	5.1	7	-1.9	
458	1244	1	67.3	67.5	66	0.2	15	Snd Lvl	61.5	6.0	7	-1.0	
459	1245	1	69.7	70.7	66	1.0	15	Snd Lvl	63.1	7.6	7	0.6	
460	1246	1	74.0	75.7	66	1.7	15	Snd Lvl	65.4	10.3	7	3.3	
461	1247	1	76.6	77.9	66	1.3	15	Snd Lvl	68.1	9.8	7	2.8	
462	1248	1	72.1	73.9	66	1.8	15	Snd Lvl	66.1	7.8	7	0.8	
463	1249	1	68.7	70.0	66	1.3	15	Snd Lvl	63.7	6.3	7	-0.7	
464	1250	1	67.0	67.9	66	0.9	15	Snd Lvl	62.3	5.6	7	-1.4	
465	1251	1	65.8	66.3	66	0.5	15	Snd Lvl	61.0	5.3	7	-1.7	
466	1252	1	65.9	66.5	66	0.6	15	Snd Lvl	61.2	5.3	7	-1.7	
467	1253	1	67.3	68.2	66	0.9	15	Snd Lvl	62.1	6.1	7	-0.9	
468	1254	1	70.4	71.8	66	1.4	15	Snd Lvl	64.1	7.7	7	0.7	
469	1255	1	74.5	76.5	66	2.0	15	Snd Lvl	69.8	6.7	7	-0.3	
470	1256	1	76.1	77.7	66	1.6	15	Snd Lvl	75.6	2.1	7	-4.9	
471	1257	1	72.3	74.7	66	2.4	15	Snd Lvl	71.4	3.3	7	-3.7	
472	1258	1	69.0	70.4	66	1.4	15	Snd Lvl	64.6	5.8	7	-1.2	

RESULTS: SOUND LEVELS
I-65/I-465 South, DES 0902297

473	1259	1	67.0	67.7	66	0.7	15	Snd Lvl	61.9	5.8	7	-1.2
474	1260	1	65.9	66.2	66	0.3	15	Snd Lvl	60.9	5.3	7	-1.7
475	1261	1	65.8	66.2	66	0.4	15	Snd Lvl	61.4	4.8	7	-2.2
476	1262	1	65.8	65.8	66	0.0	15	----	61.6	4.2	7	-2.8
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		28	1.9	5.9	10.3							
All Impacted		24	1.9	6.2	10.3							
All that meet NR Goal		8	7.6	8.7	10.3							

RESULTS: SOUND LEVELS

I-65/I-465 South, DES 0902297

Shrewsberry												
Melanie Barnes												
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:												
I-65/I-465 South, DES 0902297												
RUN:												
I-65 SB1												
BARRIER DESIGN:												
Wall 1 I-65 SB												
ATMOSPHERICS:												
68 deg F, 50% RH												
Receiver												
Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	With Barrier				
								Type Impact	Calculated LAeq1h	Noise Reduction		
										Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
487	1105	1	67.1	69.4	66	2.3	15	Snd Lvl	66.4	3.0	7	-4.0
489	1107	1	70.7	73.6	66	2.9	15	Snd Lvl	64.7	8.9	7	1.9
490	1108	1	67.9	70.8	66	2.9	15	Snd Lvl	62.9	7.9	7	0.9
491	1109	1	66.4	69.3	66	2.9	15	Snd Lvl	63.7	5.6	7	-1.4
492	1110	1	64.4	67.1	66	2.7	15	Snd Lvl	62.5	4.6	7	-2.4
493	1111	1	73.6	76.3	66	2.7	15	Snd Lvl	69.2	7.1	7	0.1
494	1112	1	70.5	73.7	66	3.2	15	Snd Lvl	65.7	8.0	7	1.0
495	1113	1	67.7	71.0	66	3.3	15	Snd Lvl	63.8	7.2	7	0.2
496	1114	1	65.2	68.2	66	3.0	15	Snd Lvl	61.8	6.4	7	-0.6
497	1115	1	64.0	66.7	66	2.7	15	Snd Lvl	61.0	5.7	7	-1.3
498	1116	1	74.8	77.6	66	2.8	15	Snd Lvl	69.2	8.4	7	1.4
499	1117	1	67.6	71.4	66	3.8	15	Snd Lvl	63.6	7.8	7	0.8
500	1118	1	65.2	68.7	66	3.5	15	Snd Lvl	61.2	7.5	7	0.5
501	1119	1	64.0	67.1	66	3.1	15	Snd Lvl	60.4	6.7	7	-0.3
502	1471	1	73.4	76.6	66	3.2	15	Snd Lvl	64.4	12.2	7	5.2
503	1472	1	69.2	73.1	66	3.9	15	Snd Lvl	63.6	9.5	7	2.5
504	1473	1	66.6	70.5	66	3.9	15	Snd Lvl	62.2	8.3	7	1.3
505	1474	1	64.6	67.7	66	3.1	15	Snd Lvl	60.3	7.4	7	0.4
506	1475	1	67.2	68.5	66	1.3	15	Snd Lvl	62.3	6.2	7	-0.8
507	1476	1	65.6	67.0	66	1.4	15	Snd Lvl	61.9	5.1	7	-1.9
508	1477	1	63.9	65.3	66	1.4	15	----	60.5	4.8	7	-2.2
509	1478	1	73.1	74.6	66	1.5	15	Snd Lvl	74.5	0.1	7	-6.9
510	1479	1	66.5	69.6	66	3.1	15	Snd Lvl	66.4	3.2	7	-3.8
483	1101	1	65.6	69.2	66	3.6	15	Snd Lvl	66.1	3.1	7	-3.9

RESULTS: SOUND LEVELS
I-65/I-465 South, DES 0902297

484	1102	1	64.0	67.4	66	3.4	15	Snd Lvl	65.2	2.2	7	-4.8
485	1103	1	74.0	76.5	66	2.5	15	Snd Lvl	72.4	4.1	7	-2.9
486	1104	1	71.1	73.5	66	2.4	15	Snd Lvl	69.2	4.3	7	-2.7
488	1106	1	64.8	66.8	66	2.0	15	Snd Lvl	63.8	3.0	7	-4.0
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		28	0.1	6.0	12.2							
All Impacted		27	0.1	6.1	12.2							
All that meet NR Goal		12	7.1	8.3	12.2							

RESULTS: SOUND LEVELS
I-65/I-465 South, DES 0902297

Shrewsberry												
Melanie Barnes												
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT: I-65/I-465 South, DES 0902297												
RUN: I-65 SB2												
BARRIER DESIGN: Wall I-65 SB2-PH2												
ATMOSPHERICS: 68 deg F, 50% RH												
Receiver												
Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	With Barrier				
								Type Impact	Calculated LAeq1h	Noise Reduction		
										Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
1001	1471	1	66.0	67.0	66	1.0	15	Snd Lvl	62.4	4.6	7	-2.4
1002	1472	1	66.9	68.1	66	1.2	15	Snd Lvl	61.1	7.0	7	0.0
1003	1473	1	67.2	68.3	66	1.1	15	Snd Lvl	61.0	7.3	7	0.3
1004	1474	1	66.6	67.6	66	1.0	15	Snd Lvl	60.6	7.0	7	0.0
1005	1475	1	72.6	75.0	66	2.4	15	Snd Lvl	68.0	7.0	7	0.0
1006	1477	1	66.0	67.2	66	1.2	15	Snd Lvl	64.3	2.9	7	-4.1
1007	1478	1	66.0	67.3	66	1.3	15	Snd Lvl	65.7	1.6	7	-5.4
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		7	1.6	5.3	7.3							
All Impacted		7	1.6	5.3	7.3							
All that meet NR Goal		4	7.0	7.1	7.3							

RESULTS: SOUND LEVELS
I-65/I-465 South, DES 0902297

Shrewsberry												
Melanie Barnes												
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT: I-65/I-465 South, DES 0902297												
RUN: I-65 SB3												
BARRIER DESIGN: Wall 3 I-65 SB - Rev												
ATMOSPHERICS: 68 deg F, 50% RH												
Receiver												
Name	No.	#DUs	Existing	No Barrier	Crit'n	Increase over existing	Type	With Barrier				
			LAeq1h	LAeq1h				Calculated	Noise Reduction			
				Calculated		Calculated	Crit'n	Impact	LAeq1h	Calculated	Goal	Calculated
							Sub'l Inc					minus
			dBA	dBA	dBA	dB			dBA	dB	dB	Goal
563	1299	1	66.0	65.7	66	-0.3	15	----	62.4	3.3	5	-1.7
564	1300	1	66.3	67.4	66	1.1	15	Snd Lvl	63.3	4.1	5	-0.9
565	1301	1	67.7	69.2	66	1.5	15	Snd Lvl	64.3	4.9	5	-0.1
566	1302	1	70.0	72.0	66	2.0	15	Snd Lvl	65.7	6.3	5	1.3
567	1303	1	72.9	75.4	66	2.5	15	Snd Lvl	66.8	8.6	5	3.6
568	1304	1	75.3	77.7	66	2.4	15	Snd Lvl	66.8	10.9	5	5.9
569	1305	1	76.9	79.4	66	2.5	15	Snd Lvl	67.2	12.2	5	7.2
570	1306	1	76.6	79.1	66	2.5	15	Snd Lvl	66.5	12.6	5	7.6
571	1307	1	76.2	78.6	66	2.4	15	Snd Lvl	66.1	12.5	5	7.5
572	1308	1	76.7	79.2	66	2.5	15	Snd Lvl	66.5	12.7	5	7.7
573	1309	1	77.2	79.9	66	2.7	15	Snd Lvl	66.8	13.1	5	8.1
574	1310	1	77.3	80.0	66	2.7	15	Snd Lvl	66.7	13.3	5	8.3
575	1311	1	76.8	79.3	66	2.5	15	Snd Lvl	66.7	12.6	5	7.6
576	1312	1	76.7	79.3	66	2.6	15	Snd Lvl	66.8	12.5	5	7.5
577	1313	1	75.8	78.5	66	2.7	15	Snd Lvl	66.8	11.7	5	6.7
578	1314	1	75.3	77.3	66	2.0	15	Snd Lvl	66.4	10.9	5	5.9
579	1315	1	72.1	74.8	66	2.7	15	Snd Lvl	65.3	9.5	5	4.5
580	1316	1	77.1	79.9	66	2.8	15	Snd Lvl	66.7	13.2	5	8.2
581	1317	1	73.4	76.3	66	2.9	15	Snd Lvl	65.9	10.4	5	5.4
582	1318	1	68.8	70.5	66	1.7	15	Snd Lvl	63.7	6.8	5	1.8
583	1319	1	66.4	67.5	66	1.1	15	Snd Lvl	61.9	5.6	5	0.6
584	1320	1	66.1	66.9	66	0.8	15	Snd Lvl	61.1	5.8	5	0.8
585	1321	1	65.1	65.7	66	0.6	15	----	60.7	5.0	5	0.0
586	1322	1	66.5	67.7	66	1.2	15	Snd Lvl	61.9	5.8	5	0.8

RESULTS: SOUND LEVELS
I-65/I-465 South, DES 0902297

587	1323	1	67.6	69.1	66	1.5	15	Snd Lvl	62.8	6.3	5	1.3
588	1324	1	65.7	66.7	66	1.0	15	Snd Lvl	60.9	5.8	5	0.8
589	1325	1	66.6	68.0	66	1.4	15	Snd Lvl	62.3	5.7	5	0.7
590	1326	1	66.6	68.0	66	1.4	15	Snd Lvl	62.2	5.8	5	0.8
591	1327	1	66.7	68.1	66	1.4	15	Snd Lvl	62.1	6.0	5	1.0
592	1328	1	67.0	68.4	66	1.4	15	Snd Lvl	62.5	5.9	5	0.9
593	1329	1	67.0	68.5	66	1.5	15	Snd Lvl	62.6	5.9	5	0.9
594	1330	1	67.0	68.4	66	1.4	15	Snd Lvl	62.7	5.7	5	0.7
595	1331	1	67.0	68.4	66	1.4	15	Snd Lvl	62.8	5.6	5	0.6
596	1332	1	66.5	67.7	66	1.2	15	Snd Lvl	62.5	5.2	5	0.2
597	1333	1	65.7	66.7	66	1.0	15	Snd Lvl	61.8	4.9	5	-0.1
598	1334	1	66.3	67.5	66	1.2	15	Snd Lvl	62.3	5.2	5	0.2
599	1335	1	66.2	67.5	66	1.3	15	Snd Lvl	61.8	5.7	5	0.7
600	1336	1	65.9	67.0	66	1.1	15	Snd Lvl	61.3	5.7	5	0.7
601	1337	1	66.3	67.5	66	1.2	15	Snd Lvl	61.5	6.0	5	1.0
602	1338	1	65.3	66.1	66	0.8	15	Snd Lvl	60.5	5.6	5	0.6
603	1339	1	69.2	71.1	66	1.9	15	Snd Lvl	63.8	7.3	5	2.3
604	1340	1	68.4	69.7	66	1.3	15	Snd Lvl	63.3	6.4	5	1.4
605	1341	1	71.9	74.2	66	2.3	15	Snd Lvl	65.9	8.3	5	3.3
606	1342	1	76.7	79.3	66	2.6	15	Snd Lvl	68.1	11.2	5	6.2
607	1343	1	76.7	79.2	66	2.5	15	Snd Lvl	67.5	11.7	5	6.7
608	1344	1	76.0	78.6	66	2.6	15	Snd Lvl	66.4	12.2	5	7.2
609	1345	1	73.6	76.1	66	2.5	15	Snd Lvl	65.7	10.4	5	5.4
610	1346	1	72.5	74.7	66	2.2	15	Snd Lvl	65.2	9.5	5	4.5
611	1347	1	73.0	73.4	66	0.4	15	Snd Lvl	65.1	8.3	5	3.3
612	1348	1	71.2	71.0	66	-0.2	15	Snd Lvl	63.9	7.1	5	2.1
613	1349	1	69.0	68.8	66	-0.2	15	Snd Lvl	62.6	6.2	5	1.2
614	1350	1	66.5	66.1	66	-0.4	15	Snd Lvl	60.5	5.6	5	0.6
615	1387	1	65.9	66.4	66	0.5	15	Snd Lvl	60.7	5.7	5	0.7
616	1388	1	67.4	68.2	66	0.8	15	Snd Lvl	62.3	5.9	5	0.9
617	1389	1	67.3	67.9	66	0.6	15	Snd Lvl	61.9	6.0	5	1.0
618	1390	1	66.0	66.8	66	0.8	15	Snd Lvl	61.2	5.6	5	0.6
619	1391	1	65.5	66.2	66	0.7	15	Snd Lvl	60.7	5.5	5	0.5
620	1392	1	65.7	66.2	66	0.5	15	Snd Lvl	60.5	5.7	5	0.7
621	1393	1	64.8	64.7	66	-0.1	15	----	60.0	4.7	5	-0.3
622	1394	1	71.6	71.1	66	-0.5	15	Snd Lvl	64.6	6.5	5	1.5
623	1395	1	67.6	67.5	66	-0.1	15	Snd Lvl	62.7	4.8	5	-0.2
624	1396	1	66.0	65.6	66	-0.4	15	----	61.0	4.6	5	-0.4
625	1397	1	63.6	63.6	66	0.0	15	----	61.7	1.9	5	-3.1
626	1398	1	73.2	73.2	66	0.0	15	Snd Lvl	73.0	0.2	5	-4.8
627	1399	1	69.9	68.9	66	-1.0	15	Snd Lvl	68.2	0.7	5	-4.3

RESULTS: SOUND LEVELS

I-65/I-465 South, DES 0902297

Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		65	0.2	7.3	13.3							
All Impacted		60	0.2	7.6	13.3							
All that meet NR Goal		54	5.2	8.1	13.3							

RESULTS: SOUND LEVELS

I-65/I-465 South, DES 0902297

Shrewsberry
Melanie Barnes4 January 2012
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS

PROJECT/CONTRACT:

I-65/I-465 South, DES 0902297

RUN:

Ramp N-E

BARRIER DESIGN:

INPUT HEIGHTS

Average pavement type shall be used unless
a State highway agency substantiates the use
of a different type with approval of FHWA.

ATMOSPHERICS:

68 deg F, 50% RH

Receiver

Name	No.	#DUs	Existing LAeq1h	No Barrier				Type Impact	With Barrier			
				LAeq1h		Increase over existing			Calculated LAeq1h	Noise Reduction		Calculated minus Goal
				Calculated	Crit'n	Calculated	Crit'n Sub'l Inc			Calculated	Goal	
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
301	1088	1	63.2	62.7	66	-0.5	15	---	62.5	0.2	7	-6.8
302	1089	1	64.0	63.6	66	-0.4	15	---	63.4	0.2	7	-6.8
303	1090	1	72.0	71.2	66	-0.8	15	Snd Lvl	70.1	1.1	7	-5.9
304	1091	1	68.4	67.3	66	-1.1	15	Snd Lvl	66.6	0.7	7	-6.3
305	1092	1	64.6	63.1	66	-1.5	15	---	62.9	0.2	7	-6.8
671-672	1435	2	68.8	68.8	66	0.0	15	Snd Lvl	68.7	0.1	7	-6.9
673-674	1436	2	70.5	70.5	66	0.0	15	Snd Lvl	70.4	0.1	7	-6.9
677-678	1437	2	67.1	67.2	66	0.1	15	Snd Lvl	67.1	0.1	7	-6.9
679-680	1438	2	69.6	69.2	66	-0.4	15	Snd Lvl	69.1	0.1	7	-6.9
683-684	1439	2	66.1	66.1	66	0.0	15	Snd Lvl	65.9	0.2	7	-6.8
685-686	1440	2	68.9	68.4	66	-0.5	15	Snd Lvl	68.3	0.1	7	-6.9
687-688	1441	2	69.5	69.4	66	-0.1	15	Snd Lvl	69.3	0.1	7	-6.9
689-690	1442	2	71.0	71.3	66	0.3	15	Snd Lvl	71.2	0.1	7	-6.9
691-692	1443	2	71.7	71.8	66	0.1	15	Snd Lvl	71.7	0.1	7	-6.9
693-694	1444	2	69.5	69.4	66	-0.1	15	Snd Lvl	69.2	0.2	7	-6.8
695-696	1445	2	71.0	71.3	66	0.3	15	Snd Lvl	71.2	0.1	7	-6.9
697-698	1446	2	71.7	71.8	66	0.1	15	Snd Lvl	71.7	0.1	7	-6.9
699-700	1447	2	69.5	69.5	66	0.0	15	Snd Lvl	69.3	0.2	7	-6.8
701-702	1448	2	71.1	71.4	66	0.3	15	Snd Lvl	71.3	0.1	7	-6.9
703-704	1449	2	71.8	71.9	66	0.1	15	Snd Lvl	71.8	0.1	7	-6.9
705-706	1450	2	69.8	70.3	66	0.5	15	Snd Lvl	70.2	0.1	7	-6.9
707-708	1451	2	71.5	71.8	66	0.3	15	Snd Lvl	71.5	0.3	7	-6.7
709-710	1452	2	72.0	72.3	66	0.3	15	Snd Lvl	72.2	0.1	7	-6.9

S:\Project Files\2010\P10-0035\Design\Calculations\Proposed\With barrier\Wall Ramp N-E

RESULTS: SOUND LEVELS
I-65/I-465 South, DES 0902297

711-712	1453	2	70.1	70.7	66	0.6	15	Snd Lvl	70.6	0.1	7	-6.9
713-714	1454	2	71.7	72.0	66	0.3	15	Snd Lvl	71.8	0.2	7	-6.8
715-716	1455	2	72.3	72.6	66	0.3	15	Snd Lvl	72.5	0.1	7	-6.9
717-718	1456	2	70.5	71.3	66	0.8	15	Snd Lvl	71.2	0.1	7	-6.9
719-720	1457	2	72.1	72.4	66	0.3	15	Snd Lvl	72.2	0.2	7	-6.8
721-722	1458	2	72.6	73.0	66	0.4	15	Snd Lvl	72.9	0.1	7	-6.9
723-724	1459	2	70.3	71.2	66	0.9	15	Snd Lvl	71.2	0.0	7	-7.0
725-726	1460	2	72.0	72.3	66	0.3	15	Snd Lvl	72.2	0.1	7	-6.9
727-728	1461	2	72.5	72.9	66	0.4	15	Snd Lvl	72.8	0.1	7	-6.9
729-730	1462	2	70.0	71.1	66	1.1	15	Snd Lvl	71.0	0.1	7	-6.9
731-732	1463	2	71.9	72.2	66	0.3	15	Snd Lvl	72.1	0.1	7	-6.9
733-734	1464	2	72.4	72.8	66	0.4	15	Snd Lvl	72.7	0.1	7	-6.9
735-736	1465	2	70.0	70.9	66	0.9	15	Snd Lvl	70.9	0.0	7	-7.0
737-738	1466	2	71.9	72.1	66	0.2	15	Snd Lvl	72.1	0.0	7	-7.0
739-740	1467	2	72.4	72.8	66	0.4	15	Snd Lvl	72.7	0.1	7	-6.9
761-762	1468	2	66.9	67.6	66	0.7	15	Snd Lvl	67.6	0.0	7	-7.0
763-764	1469	2	69.6	69.7	66	0.1	15	Snd Lvl	69.6	0.1	7	-6.9
767-768	1470	2	65.8	66.4	66	0.6	15	Snd Lvl	66.4	0.0	7	-7.0
Dwelling Units	# DUs	Noise Reduction										
		Min	Avg	Max								
		dB	dB	dB								
All Selected	77	0.0	0.2	1.1								
All Impacted	74	0.0	0.1	1.1								
All that meet NR Goal	0	0.0	0.0	0.0								

APPENDIX C-2
NOISE BARRIER EVALUATION

Noise Reduction Analysis - Wall I-65 NB1

Receptor No.	Noise Reduction dB(A)	First Row?	First Row and 7 dB(A) ?	5 dB(A) ?	Impacted?	Impacted and 5 dB(A) ?
303	0.8	X			X	
304	1.6				X	
305	1.7				X	
306	5.3	X		X	X	X
307	5.0			X	X	X
308	3.7				X	
309	8.8	X	X	X	X	X
310	6.1			X	X	X
311	5.6			X	X	X
312	4.5					
313	7.3	X	X	X	X	X
314	7.5			X	X	X
315	7.1			X	X	X
316	6.0			X	X	X
317	5.4			X	X	X
318	13.0	X	X	X	X	X
319	10.8			X	X	X
320	7.5			X	X	X
321	6.2			X	X	X
322	5.8			X	X	X
323	11.2	X	X	X	X	X
324	8.2			X	X	X
325	7.1			X	X	X
326	6.2			X	X	X
327	4.2	X			X	
328	5.0			X	X	X
329	5.6			X	X	X
330	6.4			X	X	X
331	5.4	X		X	X	X
332	4.5				X	
Totals		8	4	23	29	23

Feasible? Yes.

Cost Analysis - Wall I-65 NB1

Wall Height	Length	Sq. Ft.	Cost per Sq. Ft.	Cost
15	1,225	18,375	\$ 30.00	\$ 551,250.00
19	1,650	31,350	\$ 30.00	\$ 940,500.00
	2,875	49,725	Total	\$ 1,491,750.00
			Cost per Benefited	\$ 64,858.70

Cost Effective? No.

Meets noise reduction design goal? No.

Noise Reduction Analysis - Wall I-65 NB2

Receptor No.	Noise Reduction dB(A)	First Row?	First Row and 7 dB(A) ?	5 dB(A) ?	Impacted?	Impacted and 5 dB(A) ?
333	4.5				X	
334	4.4				X	
335	4.4					
336	6.6			X	X	X
337	6.3			X	X	X
338	5.8			X		
339	6.5			X	X	X
340	6.4			X	X	X
341	6.9			X	X	X
342	6.6			X	X	X
343	6.8			X	X	X
344	6.6			X	X	X
345	8.4	X	X	X	X	X
346	8.9	X	X	X	X	X
347	8.8	X	X	X	X	X
348	10.3	X	X	X	X	X
349	11.7	X	X	X	X	X
350	11.9	X	X	X	X	X
351	11.0	X	X	X	X	X
352	11.6	X	X	X	X	X
353	10.1	X	X	X	X	X
354	8.6			X	X	X
355	8.7	X	X	X	X	X
356	10.2	X	X	X	X	X
357	11.7	X	X	X	X	X
358	9.1	X	X	X	X	X
359	5.9			X	X	X
360	5.7			X	X	X
361	5.8			X	X	X
362	5.9			X		
363	5.9			X		
364	7.1			X	X	X
Totals		13	13	29	28	26

Feasible? Yes.

Cost Analysis - Wall I-65 NB2

Wall Height	Length	Sq. Ft.	Cost per Sq. Ft.	Cost
13	725	9,425	\$ 30.00	\$ 282,750.00
14	825	11,550	\$ 30.00	\$ 346,500.00
1,550		20,975	Total	\$ 629,250.00
		Cost per Benefited	\$	21,698.28

Cost Effective? Yes.

Noise Reduction Analysis - Wall I-65 NB3

Receptor No.	Noise Reduction dB(A)	First Row?	First Row and 7 dB(A) ?	5 dB(A) ?	Impacted?	Impacted and 5 dB(A) ?
365	2.6	X				
366	3.3	X				
367	4.2	X			X	
368	4.0					
369	6.0	X		X	X	X
370	6.3	X		X	X	X
371	5.6			X	X	X
372	5.1			X		
373	5.3			X		
374	5.5			X	X	X
375	5.9			X	X	X
376	7.4	X	X	X	X	X
377	9.7	X	X	X	X	X
378	11.2	X	X	X	X	X
379	9.3	X	X	X	X	X
380	7.4			X	X	X
381	6.8			X	X	X
382	6.0			X	X	X
383	5.4			X	X	X
384	5.3			X		
385	5.1			X		
386	5.4			X	X	X
387	5.6			X	X	X
388	6.6			X	X	X
389	9.2	X	X	X	X	X
390	11.3	X	X	X	X	X
391	10.9	X	X	X	X	X
392	8.8	X	X	X	X	X
393	6.9			X	X	X
394	5.9			X	X	X
395	5.5			X	X	X
396	5.1			X		
397	5.0			X	X	X
398	5.4			X	X	X
399	6.3			X	X	X
400	8.7	X	X	X	X	X
401	10.8	X	X	X	X	X
402	6.1			X	X	X
403	4.7				X	
404	3.7				X	
Totals		15	10	34	32	29

Feasible? Yes.

Cost Analysis - Wall I-65 NB3

Wall Height	Length	Sq. Ft.	Cost per Sq. Ft.	Cost
12	600	7,200	\$ 30.00	\$ 216,000.00
13	1,275	16,575	\$ 30.00	\$ 497,250.00
	1,875	23,775	Total	\$ 713,250.00
		Cost per Benefited	\$	20,977.94

Cost Effective? Yes.

Noise Reduction Analysis - Wall I-65 NB4 (North of Gray Road)

Receptor No.	Noise Reduction dB(A)	First Row?	First Row and 7 dB(A) ?	5 dB(A) ?	Impacted?	Impacted and 5 dB(A) ?
405	5.3	X		X	X	X
406	9.2	X	X	X	X	X
407	11.5	X	X	X	X	X
408	11.5	X	X	X	X	X
409	11.6	X	X	X	X	X
410	10.1	X	X	X	X	X
411	8.3			X	X	X
412	6.9			X	X	X
413	6.2			X	X	X
414	5.7			X	X	X
415	5.4			X	X	X
416	5.1			X	X	X
417	5.0			X	X	X
418	5.7			X	X	X
419	6.1			X	X	X
420	5.5			X	X	X
421	5.0			X	X	X
422	5.5			X	X	X
423	5.7			X	X	X
424	6.1			X	X	X
425	7.0			X	X	X
426	6.3			X	X	X
427	5.9			X	X	X
428	6.6			X	X	X
429	8.2	X	X	X	X	X
430	10.6	X	X	X	X	X
431	11.5	X	X	X	X	X
432	12.0	X	X	X	X	X
433	12.0	X	X	X	X	X
434	12.1	X	X	X	X	X
435	11.3	X	X	X	X	X
436	11.6	X	X	X	X	X
437	11.5	X	X	X	X	X
438	11.4	X	X	X	X	X
439	11.4	X	X	X	X	X
440	11.5	X	X	X	X	X
441	10.9	X	X	X	X	X
442	9.0	X	X	X	X	X
443	6.8			X	X	X
444	5.4			X	X	X
445	5.0			X	X	X
446	7.9	X	X	X	X	X
447	7.0	X	X	X	X	X
448	7.5	X	X	X	X	X
2001	7.3			X	X	X
2002	6.9			X	X	X
2003	6.7			X	X	X
2004	6.8			X	X	X
2005	6.8			X	X	X

Receptor No.	Noise Reduction dB(A)	First Row?	First Row and 7 dB(A) ?	5 dB(A) ?	Impacted?	Impacted and 5 dB(A) ?
2006	6.5			X	X	X
2007	6.2			X	X	X
2008	5.5			X	X	X
2009	5.6			X	X	X
2010	5.6			X	X	X
2011	5.7			X	X	X
Totals		23	22	55	55	55

Feasible? Yes.

Cost Analysis - Wall I-65 NB4 (North of Gray Road)

Wall Height	Length	Sq. Ft.	Cost per Sq. Ft.	Cost
12	400	4,800	\$ 30.00	\$ 144,000.00
13	200	2,600	\$ 30.00	\$ 78,000.00
14	300	4,200	\$ 30.00	\$ 126,000.00
15	800	12,000	\$ 30.00	\$ 360,000.00
16	1,000	16,000	\$ 30.00	\$ 480,000.00
	2,700	39,600	Total	\$ 1,188,000.00
		Cost per Benefited	\$	21,600.00

Cost Effective? Yes

Noise Reduction Analysis - Wall I-65 NB4 (South of Gray Road)

Receptor No.	Noise Reduction dB(A)	First Row?	First Row and 7 dB(A) ?	5 dB(A) ?	Impacted?	Impacted and 5 dB(A) ?
449	2.1					
450	3.4					
451	1.9				X	
452	4.0				X	
453	8.0	X	X	X	X	X
454	9.9	X	X	X	X	X
455	8.6	X	X	X	X	X
456	5.8			X	X	X
457	5.1			X		
458	6.0			X	X	X
459	7.6			X	X	X
460	10.3	X	X	X	X	X
461	9.8	X	X	X	X	X
462	7.8	X	X	X	X	X
463	6.3			X	X	X
464	5.6			X	X	X
465	5.3			X	X	X
466	5.3			X	X	X
467	6.1			X	X	X
468	7.7	X	X	X	X	X
469	6.7	X		X	X	X
470	2.1	X			X	
471	3.3	X			X	
472	5.8			X	X	X
473	5.8			X	X	X
474	5.3			X	X	X
475	4.8	X			X	
476	4.2	X				
Totals		12	7	20	24	19

Feasible? Yes.

Cost Analysis - Wall I-65 NB4 (South of Gray Road)

Wall Height	Length	Sq. Ft.	Cost per Sq. Ft.	Cost
16	200	3,200	\$ 30.00	\$ 96,000.00
17	100	1,700	\$ 30.00	\$ 51,000.00
18	1,200	21,600	\$ 30.00	\$ 648,000.00
	1,500	26,500	Total	\$ 795,000.00
		Cost per Benefited	\$	39,750.00

Cost Effective? No.

Noise Reduction Analysis - Wall I-65 SB1

Receptor No.	Noise Reduction dB(A)	First Row?	First Row and 7 dB(A) ?	5 dB(A) ?	Impacted?	Impacted and 5 dB(A) ?
483	3.1	X			X	
484	2.2	X			X	
485	4.1	X	X		X	
486	4.3				X	
487	3.0				X	
488	3.0				X	
489	8.9	X	X	X	X	X
490	7.9			X	X	X
491	5.6			X	X	X
492	4.6				X	
493	7.1	X	X	X	X	X
494	8.0			X	X	X
495	7.2			X	X	X
496	6.4			X	X	X
497	5.7			X	X	X
498	8.4	X	X	X	X	X
499	7.8			X	X	X
500	7.5			X	X	X
501	6.7			X	X	X
502	12.2	X	X	X	X	X
503	9.5			X	X	X
504	8.3			X	X	X
505	7.4			X	X	X
506	6.2	X		X	X	X
507	5.1			X	X	X
508	4.8					
509	0.1	X			X	
510	3.2	X			X	
Totals		10	5	18	27	18

Feasible? Yes.

Cost Analysis - Wall I-65 SB1

Wall Height	Length	Sq. Ft.	Cost per Sq. Ft.	Cost
15	775	11,625	\$ 30.00	\$ 348,750.00
17	300	5,100	\$ 30.00	\$ 153,000.00
18	500	9,000	\$ 30.00	\$ 270,000.00
19	675	12,825	\$ 30.00	\$ 384,750.00
20	350	7,000	\$ 30.00	\$ 210,000.00
	2,600	45,550	Total	\$ 1,366,500.00
			Cost per Benefited	\$ 75,916.67

Cost Effective? No.

Meets noise reduction design goal? No.

Noise Reduction Analysis - Wall I-65 SB2

Receptor No.	Noise Reduction dB(A)	First Row?	First Row and 7 dB(A) ?	5 dB(A) ?	Impacted?	Impacted and 5 dB(A) ?
1001	4.6	X			X	
1002	7.0	X	X	X	X	X
1003	7.3	X	X	X	X	X
1004	7.0	X	X	X	X	X
1005	7.0	X	X	X	X	X
1006	2.9	X			X	
1007	1.6	X			X	
Totals		7	4	4	7	4

Feasible? Yes.

Cost Analysis - Wall I-65 SB2

Wall Height	Length	Sq. Ft.	Cost per Sq. Ft.	Cost
14	100	1,400	\$ 30.00	\$ 42,000.00
15	500	7,500	\$ 30.00	\$ 225,000.00
16	900	14,400	\$ 30.00	\$ 432,000.00
17	500	8,500	\$ 30.00	\$ 255,000.00
	2,000	31,800	Total	\$ 954,000.00
		Cost per Benefited	\$	238,500.00

Cost Effective? No.

Noise Reduction Analysis - Wall I-65 SB3

Receptor No.	Noise Reduction dB(A)	First Row?	First Row and 7 dB(A) ?	5 dB(A) ?	Impacted?	Impacted and 5 dB(A) ?
563	3.3					
564	4.1				X	
565	4.9				X	
566	6.3			X	X	X
567	8.6	X	X	X	X	X
568	10.9	X	X	X	X	X
569	12.2	X	X	X	X	X
570	12.6	X	X	X	X	X
571	12..5	X	X	X	X	X
572	12.7	X	X	X	X	X
573	13.1	X	X	X	X	X
574	13.3	X	X	X	X	X
575	12.6	X	X	X	X	X
576	12.5	X	X	X	X	X
577	11.7	X	X	X	X	X
578	10.9	X	X	X	X	X
579	9.5			X	X	X
580	13.2	X	X	X	X	X
581	10.4			X	X	X
582	6.8			X	X	X
583	5.6			X	X	X
584	5.8			X	X	X
585	5.0			X		
586	5.8			X	X	X
587	6.3			X	X	X
588	5.8			X	X	X
589	5.7			X	X	X
590	5.8			X	X	X
591	6.0			X	X	X
592	5.9			X	X	X
593	5.9			X	X	X
594	5.7			X	X	X
595	5.6			X	X	X
596	5.2			X	X	X
597	4.9				X	
598	5.2			X	X	X
599	5.7			X	X	X
600	5.7			X	X	X
601	6.0			X	X	X
602	5.6			X	X	X
603	7.3			X	X	X
604	6.4			X	X	X
605	8.3			X	X	X
606	11.2	X	X	X	X	X

Noise Reduction Analysis - Wall I-65 SB3

Receptor No.	Noise Reduction dB(A)	First Row?	First Row and 7 dB(A) ?	5 dB(A) ?	Impacted?	Impacted and 5 dB(A) ?
607	11.7	X	X	X	X	X
608	12.2	X	X	X	X	X
609	10.4	X	X	X	X	X
610	9.5	X	X	X	X	X
611	8.3	X	X	X	X	X
612	7.1	X	X	X	X	X
613	6.2			X	X	X
614	5.6			X	X	X
615	5.7			X	X	X
616	5.9			X	X	X
617	6.0			X	X	X
618	5.6			X	X	X
619	5.5			X	X	X
620	5.7			X	X	X
621	4.7					
622	6.5			X	X	X
623	4.8				X	
624	4.6					
625	1.9					
626	0.2	X			X	
627	0.7				X	
Totals		21	20	55	60	54

Feasible? Yes.

Cost Analysis - Wall I-65 SB3

Wall Height	Length	Sq. Ft.	Cost per Sq. Ft.	Cost
13	1,000	13,000	\$ 30.00	\$ 390,000.00
14	1,000	14,000	\$ 30.00	\$ 420,000.00
15	500	7,500	\$ 30.00	\$ 225,000.00
16	500	8,000	\$ 30.00	\$ 240,000.00
	3,000	42,500	Total	\$ 1,275,000.00
		Cost per Benefited	\$	23,181.82

Cost Effective? Yes

Noise Reduction Analysis - Wall I-465 EB

Receptor No.	Noise Reduction dB(A)	First Row?	First Row and 7 dB(A) ?	5 dB(A) ?	Impacted?	Impacted and 5 dB(A) ?
171	0.3	X				
172	4.1					
173	4.3					
174	4.2					
175	4.4					
176	10.2	X	X	X	X	X
177	10.1	X	X	X	X	X
178	8.4	X	X	X	X	X
179	7.0	X	X	X	X	X
180	6.3	X		X	X	X
181	5.8	X		X		
182	5.6	X		X		
183	5.8	X		X		
184	6.1	X		X		
185	6.6	X		X	X	X
186	7.0	X	X	X	X	X
187	6.5	X		X		
188	5.9			X		
189	5.6			X		
190	5.8			X		
191	5.9	X		X		
192	5.9	X		X		
193	6.2	X		X		
194	6.3	X		X		
195	6.8	X		X	X	X
196	7.6	X	X	X	X	X
197	7.7	X	X	X	X	X
198	7.0	X	X	X	X	X
199	6.4			X	X	X
200	6.2			X		
201	6.0			X		
202	6.1			X		
203	5.9			X		
204	6.1			X		
205	6.3			X		
206	6.6			X	X	X
207	6.8	X		X	X	X
208	8.8	X	X	X	X	X
209	9.4	X	X	X	X	X
210	10.7	X	X	X	X	X
211	12.8	X	X	X	X	X
212	10.5	X	X	X	X	X
213	8.1			X	X	X

Noise Reduction Analysis - Wall I-465 EB

Receptor No.	Noise Reduction dB(A)	First Row?	First Row and 7 dB(A) ?	5 dB(A) ?	Impacted?	Impacted and 5 dB(A) ?
214	7.1			X	X	X
215	6.5			X	X	X
216	6.6			X	X	X
217	6.5			X	X	X
218	6.2			X		
219	6.1			X		
220	6.2			X		
221	6.5			X		
222	6.4			X		
223	6.7			X	X	X
224	6.8			X	X	X
225	7.7	X	X	X	X	X
226	8.8	X	X	X	X	X
227	10.2	X	X	X	X	X
228	8.8	X	X	X	X	X
229	8.2	X	X	X	X	X
230	7.5	X	X	X	X	X
231	6.1			X	X	X
232	6.6			X	X	X
233	5.6			X	X	X
234	5.2			X	X	X
235	5.7			X	X	X
236	5.3			X	X	X
237	5.1			X	X	X
238	5.7			X	X	X
239	5.2			X	X	X
240	6.5			X	X	X
241	5.8			X	X	X
242	7.0			X	X	X
243	8.9	X	X	X	X	X
244	12.6	X	X	X	X	X
245	6.0			X	X	X
246	4.2	X				
247	3.1	X				
248	4.0					
249	3.4					
250	2.6					
251	1.6					
252	1.0	X				
253	0.4	X				
254	0.2	X				
255A	1.2	X				
Totals		41	21	70	47	47

Feasible? Yes.

Cost Analysis - Wall I-465 EB

Wall Height	Length	Sq. Ft.	Cost per Sq. Ft.	Cost
12	2,800	33,600	\$ 30.00	\$ 1,008,000.00
14	750	10,500	\$ 30.00	\$ 315,000.00
3,550		44,100	Total	\$ 1,323,000.00
Cost per Benefited			\$	18,900.00

Cost Effective? Yes.

Noise Reduction Analysis - Wall I-465 WB

Receptor No.	Noise Reduction dB(A)	First Row?	First Row and 7 dB(A) ?	5 dB(A) ?	Impacted?	Impacted and 5 dB(A) ?
1	5.4	X		X	X	X
2	4.2	X				
3	4.3	X				
4	5.5	X		X	X	X
5	5.8	X		X	X	X
6	6.1	X		X	X	X
7	6.0	X		X	X	X
8	6.4	X		X	X	X
9	5.7			X		
10	5.8			X		
11	10.3	X	X	X	X	X
12	8.8	X	X	X	X	X
13	5.4			X		
14	5.0			X		
15	7.2	X	X	X	X	X
16	9.0	X	X	X	X	X
17	9.6	X	X	X	X	X
18	8.1	X	X	X	X	X
19	7.9	X	X	X	X	X
20	7.4	X	X	X	X	X
21	7.4	X	X	X	X	X
22	7.1	X	X	X	X	X
23	6.5	X		X		
24	6.4	X		X		
25	6.2	X		X		
26	6.0	X		X		
27	5.9			X		
28	5.2			X		
29	5.3			X		
30	5.5			X		
31	5.5			X		
32	5.8			X		
33	5.9			X		
34	6.2			X		
35	6.2			X		
36	6.2			X		
37	6.0			X		
38	5.6			X		
39	5.5			X		
40	5.9			X		
41	6.2	X		X		
42	6.3	X		X		
43	6.3	X		X		
44	6.2	X		X	X	X

Noise Reduction Analysis - Wall I-465 WB

Receptor No.	Noise Reduction dB(A)	First Row?	First Row and 7 dB(A) ?	5 dB(A) ?	Impacted?	Impacted and 5 dB(A) ?
45	6.3	X		X	X	X
46	6.7	X		X	X	X
47	6.9	X		X	X	X
48	6.4			X		
49	6.3			X		
50	6.2			X		
51	6.1			X		
52	5.8			X		
53	9.1	X	X	X	X	X
54	8.1			X	X	X
55	7.4			X	X	X
56	7.1			X	X	X
57	10.6	X	X	X	X	X
58	10.0			X	X	X
59	9.2			X	X	X
60	8.8			X	X	X
61	10.7	X	X	X	X	X
62	10.0	X	X	X	X	X
63	9.9			X	X	X
64	9.9			X	X	X
65	10.0			X	X	X
66	9.7	X	X	X	X	X
67	9.9	X	X	X	X	X
68	9.5	X	X	X	X	X
69	10.0	X	X	X	X	X
70	9.4	X	X	X	X	X
71	9.4	X	X	X	X	X
72	9.1	X	X	X	X	X
73	9.0	X	X	X	X	X
74	8.8	X	X	X	X	X
75	8.8			X	X	X
76	8.9			X	X	X
77	8.4			X	X	X
78	7.4	X	X	X	X	X
79	7.3	X	X	X	X	X
80	7.0		X	X		
81	6.8			X		
82	6.4			X		
83	6.0			X		
84	6.1			X		
85	6.3			X		
86	6.2			X		
87	6.4			X		
88	6.4			X		

Noise Reduction Analysis - Wall I-465 WB

Receptor No.	Noise Reduction dB(A)	First Row?	First Row and 7 dB(A) ?	5 dB(A) ?	Impacted?	Impacted and 5 dB(A) ?
89	6.3			X		
90	6.5			X		
91	6.6			X		
92	6.8			X		
93	6.6			X		
94	6.3			X		
95	6.4			X		
96	6.3			X		
97	6.5			X		
98	6.6			X		
99	6.8			X	X	X
100	9.9			X	X	X
101	7.8			X	X	X
102	8.3			X	X	X
103	8.3			X	X	X
104	8.2			X	X	X
105	7.7			X	X	X
106	7.0			X	X	X
107	6.9			X	X	X
108	6.5			X		
109	6.6			X		
110	6.6			X		
111	6.6			X	X	X
112	9.1			X	X	X
113	8.9			X	X	X
114	8.9			X	X	X
115	8.8			X	X	X
116	8.9			X	X	X
117	8.8			X	X	X
118	8.3			X	X	X
119	8.4			X	X	X
120	8.9	X	X	X	X	X
121	7.0	X	X	X	X	X
122	6.3			X		
123	9.3	X	X	X	X	X
124	8.2	X	X	X	X	X
125	8.6	X	X	X	X	X
126	10.0	X	X	X	X	X
127	7.0			X	X	X
128	6.3	X		X	X	X
129	5.6			X		
130	5.2			X		
131	3.3					
132	2.8					

Noise Reduction Analysis - Wall I-465 WB

Receptor No.	Noise Reduction dB(A)	First Row and Impacted?	First Row and 7 dB(A) ?	5 dB(A) ?	Impacted?	Impacted and 5 dB(A) ?
133	0.4					
134	0.1					
135	0.1					
136	0.1					
137	0.5					
138	0.5					
139	0.6					
140	0.6					
141	0.7					
142	0.6					
143	1.9					
144	2.0					
145	1.9					
146	3.5					
147	3.0					
148	2.8					
149	2.6					
150	2.6					
151	4.8					
152	4.2					
153	4.1					
154	6.0			X		
155	6.0			X		
156	6.2			X		
157	5.7			X		
158	5.9			X		
159	7.0			X	X	X
160	6.2			X	X	X
161	6.7			X		
162	2.2					
163	1.3					
164	1.0					
259	5.2			X		
260	5.0			X		
Totals		51	32	138	75	75

Feasible? Yes.

Cost Analysis - Wall I-465 WB

Wall Height	Length	Sq. Ft.	Cost per Sq. Ft.	Cost
13	4,230	54,990	\$ 30.00	\$ 1,649,700.00
14	70	980	\$ 30.00	\$ 29,400.00
4,300		55,970	Total	\$ 1,679,100.00
		Cost per Benefited	\$	12,167.39

Cost Effective? Yes.

Noise Reduction Analysis - Wall Ramp N-E

Receptor No.	First Row?	7 dB(A) ?	5 dB(A) ?	Impacted?	Impacted and 5 dB(A) ?
301					
302	X	4.10			
303	X	7.70	X	X	X
304			X	X	X
305					
671-672			X	X	X
673-674				X	
677-678	X	5.40	X	X	X
679-680	X	2.90		X	
683-684	X	5.10	X	X	X
685-686	X	3.10		X	
687-688	X	7.90	X	X	X
689-690	X	3.60		X	
691-692	X	2.30		X	
693-694	X	7.60	X	X	X
695-696	X	3.40		X	
697-698	X	2.20		X	
699-700	X	7.40	X	X	X
701-702	X	3.40		X	
703-704	X	2.10		X	
705-706	X	4.70		X	
707-708	X	2.30		X	
709-710	X	1.60		X	
711-712	X	4.30		X	
713-714	X	2.00		X	
715-716	X	1.40		X	
717-718	X	4.00		X	
719-720	X	1.90		X	
721-722	X	1.30		X	
723-724	X	2.70		X	
725-726	X	1.50		X	
727-728	X	1.00		X	
729-730	X	2.60		X	
731-732	X	1.50		X	
733-734	X	1.10		X	
735-736	X	2.10		X	
737-738	X	1.20		X	
739-740	X	1.00		X	
761-762				X	
763-764				X	
767-768				X	
Totals	33	4	8	38	8

Feasible? No. Majority of receptors are not benefited.

Cost Analysis - Wall Ramp N-E

Wall Height	Length	Sq. Ft.	Cost per Sq. Ft.	Cost
20	1776	35520	\$ 30.00	\$ 1,065,600.00

Total \$ 1,065,600.00

Cost per Benefited \$ 133,200.00

Cost Effective? No.

APPENDIX D
PUBLIC INVOLVEMENT

MARCH 14, 2012
PUBLIC SURVEY AND
RESULTS

March 14, 2012

Dear Property Owner:



On behalf of the Indiana Department of Transportation (INDOT), Shrewsberry & Associates, LLC (Shrewsberry) is soliciting input from property owners regarding potential construction of sound barrier walls along the north and south sides of I-465 between the I-65 and Emerson Avenue interchanges, and along the east side of northbound I-65, near Edgewood Avenue, in southeastern Indianapolis, Marion County, Indiana. The proposed sound barrier walls vary in height from 12 to 15 feet and range from 1,625 feet to 4,295 feet in length. The intended purpose of the walls is to reduce the impact of vehicular noise on adjacent property owners. Approximate locations of the proposed sound barriers are shown on the enclosed maps.

INDOT evaluates noise abatement measures for feasibility and reasonableness. Then, property owners have an opportunity to provide their input on the proposed sound barrier walls. Finally, INDOT makes the decision whether to construct the sound barrier wall based on feasibility, reasonableness and supportive responses from the public. Preliminary findings show that the proposed sound barriers are both feasible and reasonable. Now, INDOT needs your input on whether you want the above sound barriers constructed in your area. If the barriers are constructed, property owners will be given an opportunity to express a preference as to the type and style of barrier facing away from the roadway.

Therefore, please complete and return the enclosed self-addressed stamped postcard. **Due to the high importance of your input, please return the enclosed postcard by April 25, 2012.** You may also hand deliver your response at the project's Public Hearing scheduled for April 10, 2012 at 6 pm in the South Grove Intermediate Cafeteria, 851 South Ninth Street, Beech Grove, Indiana 46107. The result of the survey is very important to the decision making process of the placement of sound barrier walls.

Again, INDOT is committed to listening to the thoughts and opinions from property owners concerning the proposed sound barrier walls. If you have any questions, please feel free to contact Melanie Barnes at mbarnes@shrewsusa.com or 317-841-4799, ext. 8244.

Sincerely,

SHREWSBERRY & ASSOCIATES, LLC

Melanie Barnes, P.E.
Project Manager

Enc.

7321 SHADELAND STATION SUITE 160 INDIANAPOLIS, IN 46256 (t) 317.841.4799 (f) 317.841.4790 (w) SHREWSUSA.COM

YOUR VISION. OUR FOCUS.

PROJECT DESCRIPTION

The Indiana Department of Transportation (INDOT) proposes to improve the I-65/I-465 Interchange in southeastern Indianapolis, Indiana (Marion County). The project scope includes the following improvements:

- Addition of travel lanes on I-65 SB between I-465 and Gray Rd
- Addition of travel lanes on I-465 EB and WB between 9th Ave and I-65
- Addition of a lane on the ramp from I-65 NB to I-465 EB
- Building a new 40 mph “flyover” ramp from I-465 WB to I-65 SB

HIGHWAY TRAFFIC NOISE BARRIERS

For more information on traffic noise barriers, please visit:

http://www.fhwa.dot.gov/environment/noise/noise_barriers/design_construction/keepdown.cfm

Sound Barrier Wall Reply Card

Thank you for completing this reply card. One per household

Name: _____

Mailing Address: _____

Property Address (if different than above): _____

Are you the Property Owner? _____

_____ Yes, I want the sound wall to be constructed

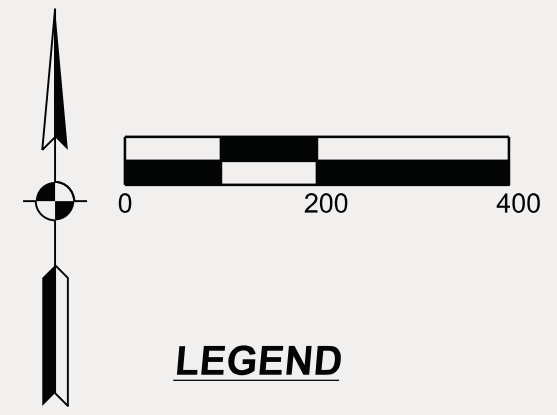
_____ No, I do not want the sound wall to be constructed

Comments:

To: Shrewsberry & Associates, LLC
Attention: Melanie Barnes, Project Manager
7321 Shadeland Station
Suite 160
Indianapolis, Indiana 46256



I-465 / I-65 INTERCHANGE MODIFICATION
DES. NO. 0902297



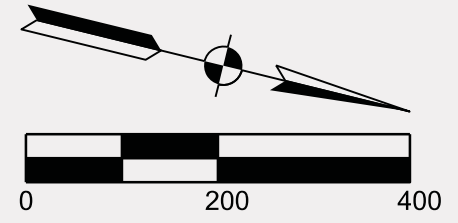
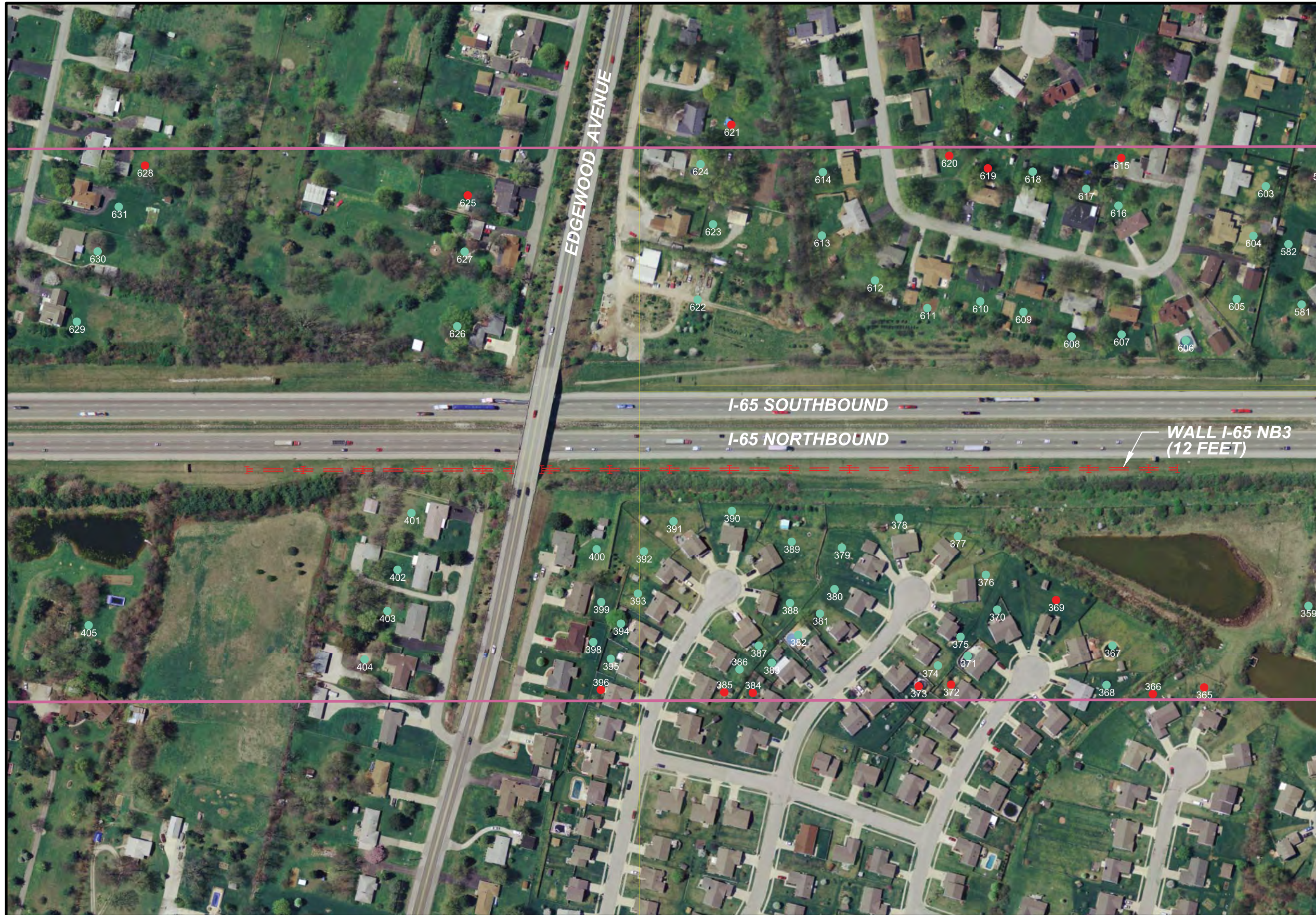
LEGEND

- NOISE ANALYSIS STUDY AREA
- EDGE OF ROADWAY
- CONSTRUCTION LIMITS
- 66 dBA CONTOUR LINE
- MODELED NOISE WALL
- PROPOSED NOISE WALL
- RECEPTOR LOCATION
- IMPACTED RECEPTOR

I-465 / I-65 INTERCHANGE MODIFICATION DES. NO. 0902297



I-465 / I-65 INTERCHANGE MODIFICATION DES. NO. 0902297



LEGEND

- NOISE ANALYSIS STUDY AREA
- EDGE OF ROADWAY
- CONSTRUCTION LIMITS
- 66 dBA CONTOUR LINE
- PROPOSED NOISE WALL
- RECEPTOR LOCATION
- IMPACTED RECEPTOR

I-465 / I-65 INTERCHANGE MODIFICATION DES. NO. 0902297

	Address		Owner	Response
210	Ada Ln	Beech Grove, IN 46107	Robert W. & Donna S. Wolfgram	N/R
306	Ada Ln	Beech Grove, IN 46107	Ross A. & Mary B. Wolfe	N
310	Ada Ln	Beech Grove, IN 46107	Timothy D. & Sarah L. Latimer	Y
314	Ada Ln	Beech Grove, IN 46107	Creative Real Estate Solutions LP	N/R
402	Ada Ln	Beech Grove, IN 46107	Anita L. Alvarez	N
406	Ada Ln	Beech Grove, IN 46107	David L. & Kathleen R. Fouts	N/R
407	Ada Ln	Beech Grove, IN 46107	INDY RE INVESTMENTS INC	N/R
411	Ada Ln	Beech Grove, IN 46107	Thomas M. & Thelma D. Lewis	Y
501	Edwards Ave	Beech Grove, IN 46107	Eugene S. & Lois A. Tanner	Y
505	Edwards Ave	Beech Grove, IN 46107	Moses & Leslie Daly	
509	Edwards Ave	Beech Grove, IN 46107	Kenni D. Spicer	Y
513	Edwards Ave	Beech Grove, IN 46107	Rodney J. & Joy L. Ziegler	Y
517	Edwards Ave	Beech Grove, IN 46107	Theda J. Taylor	N/R
601	Edwards Ave	Beech Grove, IN 46107	Lowell Eugene Plake	N/R
605	Edwards Ave	Beech Grove, IN 46107	Joseph J. & Muriel K. Wauro	N/R
609	Edwards Ave	Beech Grove, IN 46107	Tara A. Napier	Y
723	Groveswood Dr	Beech Grove, IN 46107	Robert E. II & Kimberly L. Todd	N
801	Groveswood Dr	Beech Grove, IN 46107	Robert T. Gaines	
805	Groveswood Dr	Beech Grove, IN 46107	James P. & Mary Akison Gurganus	N/R
809	Groveswood Dr	Beech Grove, IN 46107	Steven A. & Donna C. Lawson	N/R
1119	Morning Sun Ln	Beech Grove, IN 46107	Stephanie A. Calhoun	Y
1117	Morning Sun Ln	Beech Grove, IN 46107	Stephanie Messinger	Y
1115	Morning Sun Ln	Beech Grove, IN 46107	Todd Cary	N/R
1113	Morning Sun Ln	Beech Grove, IN 46107	Carol S. Osborne	Y
1120	Morning Sun Ln	Beech Grove, IN 46107	Linda L. Humbles	Y
1118	Morning Sun Ln	Beech Grove, IN 46107	Donald W. & Elizabeth T. Pettingill	N/R
1116	Morning Sun Ln	Beech Grove, IN 46107	Arthur M. & Natividad H. Dilay	Y
1114	Morning Sun Ln	Beech Grove, IN 46107	Peggy A. Hayden	Y
1003	Groveswood Dr	Beech Grove, IN 46107	Erin Ruiz	Y
1005	Groveswood Dr	Beech Grove, IN 46107	Teresa L. Sommers	Y
1007	Groveswood Dr	Beech Grove, IN 46107	Express Funding Corp. % Tricia Heppe	N/R
1009	Groveswood Dr	Beech Grove, IN 46107	Gerald E. & Marjorie J. Morgan, Trustees	N/R
1011	Groveswood Dr	Beech Grove, IN 46107	Scott B. Durbin	Y
1107	Evening Shade Ci	Beech Grove, IN 46107	Carrie E Tuterow	Y
1105	Evening Shade Ci	Beech Grove, IN 46107	Frank & Wendy L. Vastine	Y
1103	Evening Shade Ci	Beech Grove, IN 46107	Daniel Duane Knox	N/R
1101	Evening Shade Ci	Beech Grove, IN 46107	Julie A. Baughman	Y
1045	Evening Shade Ci	Beech Grove, IN 46107	Rebecca L. Hunt	Y
1043	Evening Shade Ci	Beech Grove, IN 46107	Lisa Bagby	Y
1041	Evening Shade Ci	Beech Grove, IN 46107	Nicholas A. Rembusch	N/R
1039	Evening Shade Ci	Beech Grove, IN 46107	David E. Conner	Y
1029	Evening Shade Ci	Beech Grove, IN 46107	John A. & Cathy I. Koehler	Y
1027	Evening Shade Ci	Beech Grove, IN 46107	April E. Scheib	N/R
1025	Evening Shade Ci	Beech Grove, IN 46107	Julie K. Moran	Y
1023	Evening Shade Ci	Beech Grove, IN 46107	David & Roxanne Gaither	Y
1115	Groveswood Dr	Beech Grove, IN 46107	Franklin J. Baecher, Jr.	N/R
1117	Groveswood Dr	Beech Grove, IN 46107	David Frank	Y
1119	Groveswood Dr	Beech Grove, IN 46107	Sarah J. Baker	N/R
1121	Groveswood Dr	Beech Grove, IN 46107	Beverly J. Smith	Y
1026	Groveswood Dr	Beech Grove, IN 46107		
1024	Groveswood Dr	Beech Grove, IN 46107	Laurie J. Eagan	Y
1022	Groveswood Dr	Beech Grove, IN 46107	Polly J. Lester	N/R
1012	Groveswood Dr	Beech Grove, IN 46107		

	Address		Owner	Response
1010	Groveswood Dr	Beech Grove, IN 46107	Kimberly A. Dexter Roberts	Y
1008	Groveswood Dr	Beech Grove, IN 46107	Mark McWilliams	N/R
1006	Groveswood Dr	Beech Grove, IN 46107		
1032	Morning Sun Ln	Beech Grove, IN 46107	Susan Shurig	N/R
1030	Morning Sun Ln	Beech Grove, IN 46107	Tina A. Battle	N/R
1028	Morning Sun Ln	Beech Grove, IN 46107	Ryan Roe	N/R
1037	Morning Sun Ln	Beech Grove, IN 46107	Cynthia A. Wycoff (Trust)	Y
1015	Groveswood Dr	Beech Grove, IN 46107	Aaron R. Maugherman	N/R
1017	Groveswood Dr	Beech Grove, IN 46107	Tonya L. Krasienko	N/R
1019	Groveswood Dr	Beech Grove, IN 46107	Susan J. Swengel	N/R
1021	Groveswood Dr	Beech Grove, IN 46107	Linda S. Winkle	Y
1045	Groveswood Dr	Beech Grove, IN 46107	Paul D. & Mary J. Simmerman	Y
1043	Groveswood Dr	Beech Grove, IN 46107	Barbara Henson	Y
1041	Groveswood Dr	Beech Grove, IN 46107	Judy L. Grimes	Y
1039	Groveswood Dr	Beech Grove, IN 46107	Diane M. Gray	N/R
4210	Wilderness Trail	Indianapolis, IN 46237	Peggy M. Obergfell	Y
4206	Wilderness Trail	Indianapolis, IN 46237	Dana L. McKee	N/R
4152	Wilderness Trail	Indianapolis, IN 46237	Gloria Lester	Y
4148	Wilderness Trail	Indianapolis, IN 46237	Dennis G. & Janet K. Hunley	Y
4144	Wilderness Trail	Indianapolis, IN 46237	Robert W. & Virginia M. Ashman (Trustees)	Y
4140	Wilderness Trail	Indianapolis, IN 46237	Virginia & James B. Adams	Y
4040	Dundee Drive	Indianapolis, IN 46237	Mark E. & Cheryl L. Stobaugh	N/R
4020	Dundee Drive	Indianapolis, IN 46237	Chester R. & Nora G. Goodin	N/R
4018	Dundee Drive	Indianapolis, IN 46237	James E. & Eileen J. Blatz	N/R
4271	Foxglove Trace	Indianapolis, IN 46237	Kelli McDaniel-Wilson	N/R
4269	Foxglove Trace	Indianapolis, IN 46237	Marcheta A. Troxel	Y
4270	Indiana Pipe Trace	Indianapolis, IN 46237	Alice M. Williams	Y
4295	Indiana Pipe Trace	Indianapolis, IN 46237	Cheryl L. Johns	N/R
4291	Indiana Pipe Trace	Indianapolis, IN 46237	Larry E. Stark	Y
4118	Wilderness Trail	Indianapolis, IN 46237	James F. & Barbara M. O'Maley	Y
4114	Wilderness Trail	Indianapolis, IN 46237	Karen S. Kennedy	N/R
4110	Wilderness Trail	Indianapolis, IN 46237	Robert G. & Mary E. Storey (Trustees)	Y
502	North Bend Rd	Beech Grove, IN 46107	Brian D & Deborah J Hatfield & Kyle Hatfield	N/R
506	North Bend Rd	Beech Grove, IN 46107	Darren R. Alsobrook	N/R
510	North Bend Rd	Beech Grove, IN 46107	Anthony Howell	Y
514	North Bend Rd	Beech Grove, IN 46107	Starr Lynn Gordon	N/R
518	North Bend Rd	Beech Grove, IN 46107	Bradley D & Kathy J. Johnson	Y
15	Melody Ct	Beech Grove, IN 46107	Danny L. Hemphill	Y
14	Melody Ct	Beech Grove, IN 46107	Reddick, James Larry & Miriam	Y
5	Kiefer Ct	Beech Grove, IN 46107	Jacquelyn Harris	Y
9	Kiefer Ct	Beech Grove, IN 46107	Richard J. Greenfield Jr.	Y
13	Kiefer Ct	Beech Grove, IN 46107	Shiela F. Rozell	
17	Kiefer Ct	Beech Grove, IN 46107	Ryan W. Nowak	N/R
18	Kiefer Ct	Beech Grove, IN 46107	Robert C. & Paula M. Elliott	Y
4300	S 9th Av	Beech Grove, IN 46107	Indiana Bell Telephone Co Inc C/O Sbc Communications Inc	
14	Kiefer Ct	Beech Grove, IN 46107	Antonio R. Mamot	N/R
10	Kiefer Ct	Beech Grove, IN 46107	Clarence Edgar Reel Jr.	N/R
6	Kiefer Ct	Beech Grove, IN 46107	Lowell Thomas & Carol S. Hooker	N/R
802	North Bend Rd	Beech Grove, IN 46107	Jonna J. Zurcher	N/R
810	North Bend Rd	Beech Grove, IN 46107	Carman, Junior C & June F Trust & Trustees	N/R
1255	Stave Oak Ct	Beech Grove, IN 46107	Joseph K. & Jane A. Hedges	N/R

	Address		Owner	Response
1249	Stave Oak Ct	Beech Grove, IN 46107	Ronald E. & Anita L. Mitchell	Y
1243	Stave Oak Ct	Beech Grove, IN 46107	David W. & Kathy J. Stratton	Y
1237	Stave Oak Ct	Beech Grove, IN 46107	Alan C. & Carla J. Hammer	Y
1231	Stave Oak Ct	Beech Grove, IN 46107	Charles R. & Barbara Bertram	N/R
1223	Stave Oak Ct	Beech Grove, IN 46107	Donald E. & Lisa C. Zoellner	Y
1217	Stave Oak Ct	Beech Grove, IN 46107	Haley Challis	Y
1211	Stave Oak Ct	Beech Grove, IN 46107	Andrea D. Buergelein	Y
1203	Stave Oak Ct	Beech Grove, IN 46107	Marjorie A. Schoonover	
1202	Stave Oak Ct	Beech Grove, IN 46107	Amy R. & Richard S. Winscott, III	Y
1206	Stave Oak Ct	Beech Grove, IN 46107	Richard L. & Nancy J. Matkins	Y
1212	Stave Oak Ct	Beech Grove, IN 46107	Elizabeth M & Fred L Smith	Y
1218	Stave Oak Ct	Beech Grove, IN 46107	Robert L. & Michelle L. Landrum	N/R
1232	Stave Oak Ct	Beech Grove, IN 46107	Joseph E. Potterack	
1102	Stave Oak Dr	Beech Grove, IN 46107	William M. & Claudia A. Renick	Y
1114	Stave Oak Dr	Beech Grove, IN 46107	Richard J. & Linda Byland	Y
1122	Stave Oak Dr	Beech Grove, IN 46107	David P. & Nancy L. Stenger	Y
1130	Stave Oak Dr	Beech Grove, IN 46107	Dennis G. & Lucile M. Biggs	Y
1138	Stave Oak Dr	Beech Grove, IN 46107	Bruce E. Hawkersmith	
1150	Stave Oak Dr	Beech Grove, IN 46107	James L. & Rosemary F. Tolle	Y
1204	Smoketree Dr	Beech Grove, IN 46107	Charles S. & Gilda M. De Munbrun	N/R
1208	Smoketree Dr	Beech Grove, IN 46107	David Carney	Y
1210	Smoketree Dr	Beech Grove, IN 46107	Patrick O. & Cheri L. Brewster	Y
1216	Smoketree Dr	Beech Grove, IN 46107	John T. & Michele A. Hopwood	Y
1224	Smoketree Dr	Beech Grove, IN 46107	James L. & Amy M. Longshore	Y
1228	Smoketree Dr	Beech Grove, IN 46107	Andrew T. & Candace S. Wolsiffer	N/R
1113	Stave Oak Dr	Beech Grove, IN 46107	Timothy R. & Kimberly A. Dunn	Y
1121	Stave Oak Dr	Beech Grove, IN 46107	Gary A. & Gwendolyn L. Pryor	Y
1139	Stave Oak Dr	Beech Grove, IN 46107	Whyde, Linda S Revocable Living Trust	Y
1209	Smoketree Dr	Beech Grove, IN 46107	Robert W. & Haley J. Challis	N/R
1225	Smoketree Dr	Beech Grove, IN 46107	James P. Lockwood	N/R
1229	Smoketree Dr	Beech Grove, IN 46107	James E. & Jolene L. Collins	Y
4010	Klintiloch Ct	Indianapolis, IN 46237	Jean Bauch	Y
4004	Klintiloch Ct	Indianapolis, IN 46237	Terry Johns	Y
4025	Meridee Dr	Indianapolis, IN 46237	Paula L. Bowling	Y
4029	Meridee Dr	Indianapolis, IN 46237	Edward L. III & Carol Jean Damrell	Y
4006	Rebel Run	Indianapolis, IN 46237	Russell C. & Mary E. Phillips	N/R
3945	Rebel Run	Indianapolis, IN 46237	Frederick R. & Fredia Ann Galloway	N/R
3927	Rebel Run	Indianapolis, IN 46237	Mary Helen Clemmer	Y
3915	Rebel Run	Indianapolis, IN 46237	Sherry Marie Green	Y
3926	Meridee Dr	Indianapolis, IN 46237	Timothy A. Puntarelli	Y
3918	Meridee Dr	Indianapolis, IN 46237	Danny E. & Marcia D. Reeves	Y
3841	Rebel Run	Indianapolis, IN 46237	Connie J. Mullins	Y
3833	St Simons Ct	Indianapolis, IN 46237	David L. & Barbara S. Sweeney	Y
3830	Brunswick Av	Indianapolis, IN 46237	Bradley & Barbara Delagrang	N/R
3824	Brunswick Av	Indianapolis, IN 46237	Wesley R. Woodhull	N/R
3818	Brunswick Av	Indianapolis, IN 46237	David Eric Smith	Y
3819	Brunswick Av	Indianapolis, IN 46237	Ronald J. & Kimberly A. Smith	N/R
3823	Brunswick Av	Indianapolis, IN 46237	Matthew A. & Susan L. Whitman	Y
3833	Brunswick Av	Indianapolis, IN 46237	Donald E. Sr & Patricia J. Allen	N/R
3843	Brunswick Av	Indianapolis, IN 46237	Mindy M. Schelling	N/R
3907	Brunswick Av	Indianapolis, IN 46237	Jennifer S. Gamboa	N/R
3915	Brunswick Av	Indianapolis, IN 46237	Robert E. Brummett	Y
3838	Maple Manor Dr	Indianapolis, IN 46237	James D., Jr & Jennifer R. Sheard	Y

Address			Owner	Response
3832	Maple Manor Dr	Indianapolis, IN 46237	Gail Lynch	Y
3826	Maple Manor Dr	Indianapolis, IN 46237	Highfill, David & Sherry Whipkey Highfill	N/R
3820	Maple Manor Dr	Indianapolis, IN 46237	Mason A. Begley	Y
3819	Maple Manor Dr	Indianapolis, IN 46237	Michael D. Byrd	N/R
3825	Maple Manor Dr	Indianapolis, IN 46237	James O. & Joyce A. Cooper	N/R
3831	Maple Manor Dr	Indianapolis, IN 46237	Mark A. Staggs	Y
3837	Maple Manor Dr	Indianapolis, IN 46237	Christopher S. & Heather A. York	Y
3901	Maple Manor Dr	Indianapolis, IN 46237	Brian K. & Robyn N. Ludlow	N/R
3907	Maple Manor Dr	Indianapolis, IN 46237	Eric J. & Michelle I. Isaacson	N/R
3908	E Edgewood Av	Indianapolis, IN 46237	Phyllis M. Kidd	Y
3902	E Edgewood Av	Indianapolis, IN 46237	Peter G. & Jackie S. Campbell	Y
3836	E Edgewood Av	Indianapolis, IN 46237	Jason L. Williams	Y
3830	E Edgewood Av	Indianapolis, IN 46237	Harry Daniel & Karen Ruth De Witt	Y
3837	E Edgewood Av	Indianapolis, IN 46237	Marshall P. & Dorothy A. Grant	Y
3841	E Edgewood Av	Indianapolis, IN 46237	Troy ,Sr & Loretta Fugate	Y
3901	E Edgewood Av	Indianapolis, IN 46237	Doris D. Wehlage	N/R

 = UNDELIVERABLE

N/R = NO RESPONSE RECEIVED

AUGUST 31, 2012
PUBLIC SURVEY AND
RESULTS

August 31, 2012

Dear Property Owner:



On behalf of the Indiana Department of Transportation (INDOT), Shrewsberry & Associates, LLC (Shrewsberry) is soliciting input from property owners regarding potential construction of sound barrier walls along the east and west sides of I-65, in southeastern Indianapolis, Marion County, Indiana. The proposed sound barrier walls vary in height from 12 to 18 feet and range from 1,500 feet to 3,350 feet in length. The intended purpose of the walls is to reduce the impact of vehicular noise on adjacent property owners. Approximate locations of the proposed sound barriers are shown on the enclosed maps.

INDOT evaluates noise abatement measures for feasibility and reasonableness. Then, property owners have an opportunity to provide their input on the proposed sound barrier walls. Finally, INDOT makes the decision whether to construct the sound barrier wall based on feasibility, reasonableness and supportive responses from the public. Preliminary findings show that the proposed sound barriers are both feasible and reasonable. Now, INDOT needs your input on whether you want the above sound barriers constructed in your area. If the barriers are constructed, property owners will be given an opportunity to express a preference as to the type and style of barrier facing away from the roadway.

Therefore, please complete and return the enclosed self-addressed stamped postcard. **Due to the high importance of your input, please return the enclosed postcard by September 28, 2012.** The result of the survey is very important to the decision making process of the placement of sound barrier walls.

Again, INDOT is committed to listening to the thoughts and opinions from property owners concerning the proposed sound barrier walls. If you have any questions, please feel free to contact Melanie Barnes at mbarnes@shrewsusa.com or 317-841-4799, ext. 8244.

Sincerely,

SHREWSBERRY & ASSOCIATES, LLC

Melanie Barnes

Melanie Barnes, P.E.
Project Manager

Enc.

PROJECT DESCRIPTION

The Indiana Department of Transportation (INDOT) proposes to improve the I-65/I-465 Interchange in southeastern Indianapolis, Indiana (Marion County). The project scope includes the following improvements:

- Addition of travel lanes on I-65 SB between I-465 and Gray Rd
- Addition of travel lanes on I-465 EB and WB between 9th Ave and I-65
- Addition of a lane on the ramp from I-65 NB to I-465 EB
- Building a new 40 mph “flyover” ramp from I-465 WB to I-65 SB
- Addition of an auxillary lane on I-65 NB from Southport Rd to I-465

HIGHWAY TRAFFIC NOISE BARRIERS

For more information on traffic noise barriers, please visit:

http://www.fhwa.dot.gov/environment/noise/noise_barriers/design_construction/keepdown.cfm

Sound Barrier Wall Reply Card

Thank you for completing this reply card. One per household

Name: _____

Mailing Address: _____

Property Address (if different than above): _____

Are you the Property Owner? _____

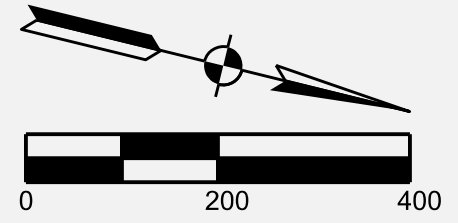
_____ Yes, I want the sound wall to be constructed

_____ No, I do not want the sound wall to be constructed

Comments:

To: Shrewsberry & Associates, LLC
Attention: Melanie Barnes, Project Manager
7321 Shadeland Station
Suite 160
Indianapolis, Indiana 46256

\$DATE\$ | \$TIME\$ | \$FILE\$ | Sheet No.: \$MODEL\$



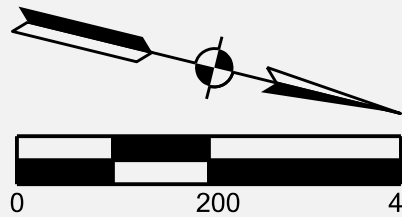
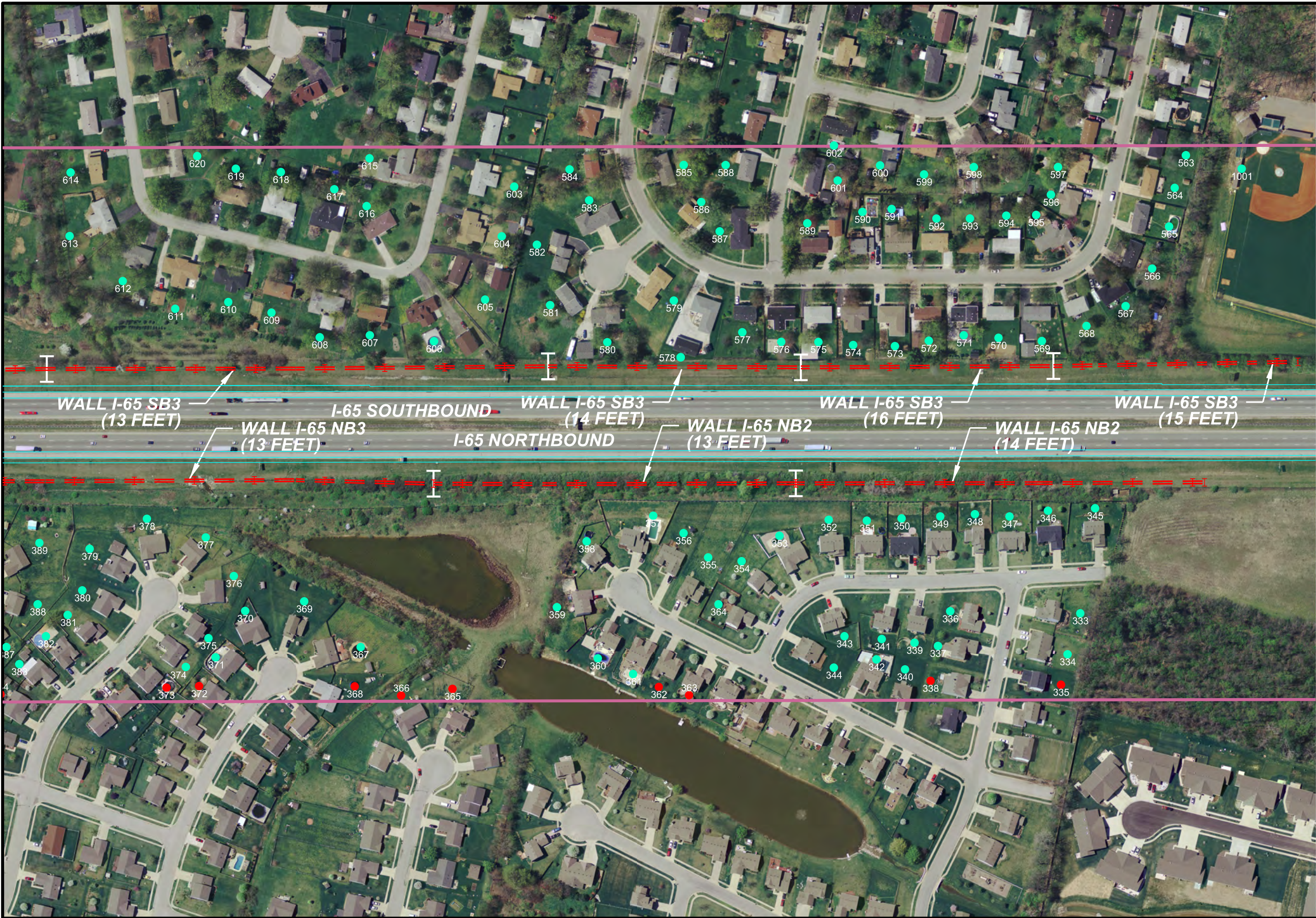
LEGEND

- NOISE ANALYSIS STUDY AREA
- EDGE OF ROADWAY
- CONSTRUCTION LIMITS
- 66 dBA CONTOUR LINE
- MODELED NOISE WALL
- PROPOSED NOISE WALL
- RECEPTOR LOCATION
- IMPACTED RECEPTOR



shrewsberry
7321 Shadeland Station
Suite 160
Indianapolis, Indiana 46256
(t) 317.841.4799 (f) 317.841.4790

I-465 / I-65 INTERCHANGE MODIFICATION
DES. NO. 0902297



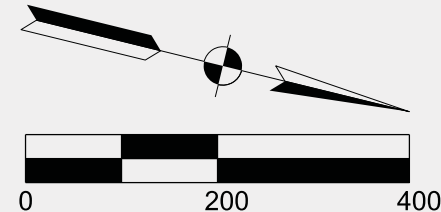
LEGEND

- NOISE ANALYSIS STUDY AREA
- EDGE OF ROADWAY
- CONSTRUCTION LIMITS
- 66 dBA CONTOUR LINE
- PROPOSED NOISE WALL
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DES. NO. 0902297



LEGEND

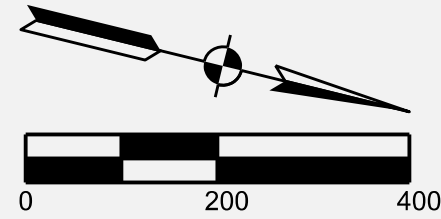
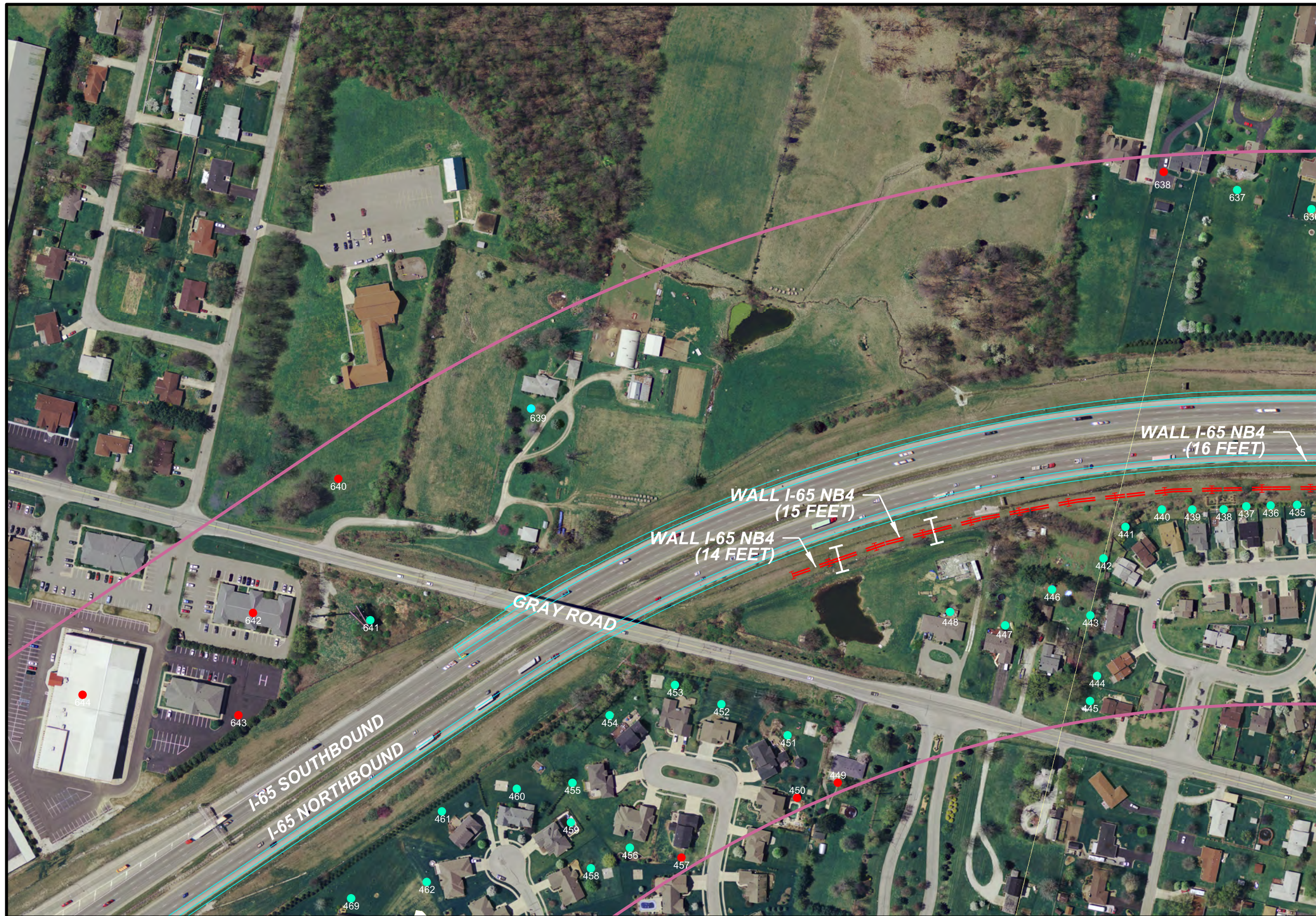
- NOISE ANALYSIS STUDY AREA
- EDGE OF ROADWAY
- - - CONSTRUCTION LIMITS
- 66 dBA CONTOUR LINE
- ≡≡≡ PROPOSED NOISE WALL
- RECEPTOR LOCATION
- IMPACTED RECEPTOR



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I-465 / I-65 INTERCHANGE MODIFICATION
DES. NO. 0902297

\$DATE\$ | \$TIME\$ | \$FILE\$ | Sheet No.: \$MODEL\$



LEGEND

- NOISE ANALYSIS STUDY AREA
- EDGE OF ROADWAY
- CONSTRUCTION LIMITS
- 66 dBA CONTOUR LINE
- PROPOSED NOISE WALL
- RECEPTOR LOCATION
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I-465 / I-65 INTERCHANGE MODIFICATION DES. NO. 0902297

Receptor No.	Street Number	Street	City, State, Zip	Owner Name	Response
336	3809	Cherry Blossom Bl	Indianapolis, IN 46237	Michael J. & Judith E. Lucas	N
337	3817	Cherry Blossom Bl	Indianapolis, IN 46237	Zachary A. Shroyer & Sarah A. Willis	
339	5535	Rum Cherry Wa	Indianapolis, IN 46237	Douglas A. & Lisa V. Polen	N/R
340	5530	Cherry Field Dr	Indianapolis, IN 46237	Linda Cornelius	Y
341	5545	Rum Cherry Wa	Indianapolis, IN 46237	Cross, Kristi R & Theodore M Bell & Bonita G Bell	N/R
342	5540	Cherry Field Dr	Indianapolis, IN 46237	Read, Earl W & Julia E Pero-Read	Y
343	5601	Rum Cherry Wa	Indianapolis, IN 46237	Edith A. Hendricks	Y
344	5615	Rum Cherry Wa	Indianapolis, IN 46237	Jordan M. & Ashleigh Taylor	Y
345	5506	Rum Cherry Wa	Indianapolis, IN 46237	Angela R. & Jeffrey L. Watson	N/R
346	5512	Rum Cherry Wa	Indianapolis, IN 46237	Robert G. & Stacey L. Moisant	
347	5518	Rum Cherry Wa	Indianapolis, IN 46237	Ferd Stefan & Cathy D. Wolfla	N/R
348	5524	Rum Cherry Wa	Indianapolis, IN 46237	Ginger M. Adams	N/R
349	5532	Rum Cherry Wa	Indianapolis, IN 46237	Nguyen, Sang V & Hao T Pham (H&W)	N/R
350	5538	Rum Cherry Wa	Indianapolis, IN 46237	Stephanie L. Humerickhouse	N/R
351	5544	Rum Cherry Wa	Indianapolis, IN 46237	Monica Garcia	Y
352	5550	Rum Cherry Wa	Indianapolis, IN 46237	Frank N. & Helen Angelyn Rojas	N/R
353	5602	Rum Cherry Wa	Indianapolis, IN 46237	Penny Pero	N/R
354	5608	Rum Cherry Wa	Indianapolis, IN 46237	Michelle Magana	
355	5620	Cherry Field Dr	Indianapolis, IN 46237	Matthew A. & Karlyn K. Strack	Y
356	5628	Cherry Field Dr	Indianapolis, IN 46237	Vicki L. Lang	N/R
357	5634	Cherry Field Dr	Indianapolis, IN 46237	George D. & Christy Lynn Walton	
358	5638	Cherry Field Dr	Indianapolis, IN 46237	James H. & Cheri L. Gable	Y
359	5635	Cherry Field Dr	Indianapolis, IN 46237	David R. Mcdougall, & Mary L. Givens	Y
360	5627	Cherry Field Dr	Indianapolis, IN 46237	Highfill, David M & Sherry L Whipkey-Highfill	Y
361	5621	Cherry Field Dr	Indianapolis, IN 46237	Vincent J. & Donna L. Prendergast	Y
364	5616	Rum Cherry Wa	Indianapolis, IN 46237	Jose D. & Ruby R. Dadvias	
405	6130	Gray Rd	Indianapolis, IN 46237	David J. Munn	Y
406	3922	Gray Arbor Wa	Indianapolis, IN 46237	Vasko, Gary & Christine	
407	3916	Gray Arbor Wa	Indianapolis, IN 46237	Brian Murle & Melissa K. Halcomb	Y
408	3917	Gray Arbor Dr	Indianapolis, IN 46237	Adam T. Brawner	
409	3921	Gray Arbor Dr	Indianapolis, IN 46237	Deborah K. Miller	Y
410	3925	Gray Arbor Dr	Indianapolis, IN 46237	Brenda Sue Cook	
411	3929	Gray Arbor Dr	Indianapolis, IN 46237	Jacob Pointer	Y
412	3935	Gray Arbor Dr	Indianapolis, IN 46237	Talmadge & Marsha Bookout	Y
413	3941	Gray Arbor Dr	Indianapolis, IN 46237	David C. & Michell D. Michael	Y
414	3947	Gray Arbor Dr	Indianapolis, IN 46237	Pamela Elsey	Y
415	4007	Gray Arbor Dr	Indianapolis, IN 46237	Jean Feldhake	N/R
416	4005	Gray Arbor Wa	Indianapolis, IN 46237	Douglas A. & Shelley R. Crawford	Y
417	3939	Gray Arbor Wa	Indianapolis, IN 46237	Angel Vargas Luna	
418	3931	Gray Arbor Wa	Indianapolis, IN 46237	Ronald J. & Maria C. Schwager	
419	3924	Gray Arbor Wa	Indianapolis, IN 46237	Corey Freudenstein	Y
420	3940	Gray Arbor Wa	Indianapolis, IN 46237	Jana L. Kime	Y
421	4004	Gray Arbor Wa	Indianapolis, IN 46237	Jared S. Summeier	N/R
422	6359	Perry Pines Ct	Indianapolis, IN 46237	Jeffrey Neal & Beth A. Zorman	N/R
423	6353	Perry Pines Ct	Indianapolis, IN 46237	Dana R. & Matt Swales	
424	6347	Perry Pines Ct	Indianapolis, IN 46237	Magdalena J. Mc Hargue	N/R
425	6337	Perry Pines Ct	Indianapolis, IN 46237	Brandon & Anna Peters	Y
426	6331	Perry Pines Ct	Indianapolis, IN 46237	Duane L. & Carol L. King	Y
427	6327	Perry Pines Ct	Indianapolis, IN 46237	Robert, Jr & Bethany Mueller	N/R
428	6323	Perry Pines Ct	Indianapolis, IN 46237	Michael E. & Tiffany F. Eland	N/R
429	6322	Perry Pines Ct	Indianapolis, IN 46237	Alyce Thorstad	Y
430	6326	Perry Pines Ct	Indianapolis, IN 46237	Wilma J. Judd	Y
431	6330	Perry Pines Ct	Indianapolis, IN 46237	Hutton, Jamie L Trustee Under The Jamie L Hutton	
432	6334	Perry Pines Ct	Indianapolis, IN 46237	Castillo-Burgos, Luz M & Angel Burgos	N/R
433	6338	Perry Pines Ct	Indianapolis, IN 46237	Michael K. & Marilyn S. Sutherlin	N
434	6342	Perry Pines Ct	Indianapolis, IN 46237	Laforge, Maurice P II & Elizabeth S Cox	N/R
435	6406	Perry Pines Ct	Indianapolis, IN 46237	Jonathan Murphy	N/R

Receptor No.	Street Number	Street	City, State, Zip	Owner Name	Response
436	6412	Perry Pines Ct	Indianapolis, IN 46237	Emily D. Rushton	Y
437	6418	Perry Pines Ct	Indianapolis, IN 46237	Alex E. & Nancy Y. Martinez	N/R
438	6424	Perry Pines Ct	Indianapolis, IN 46237	Lori L. Ellis	
439	6430	Perry Pines Ct	Indianapolis, IN 46237	Trieu, Lillian & Phuong Van Nguyen	N/R
440	6436	Perry Pines Ct	Indianapolis, IN 46237	Peggy J. Stevens	N/R
441	6440	Perry Pines Ct	Indianapolis, IN 46237	James Bernard II & Lindsay C. Urrutia	Y
442	6444	Perry Pines Ct	Indianapolis, IN 46237	Stephen T. Colinco	
443	6447	Perry Pines Ct	Indianapolis, IN 46237	John E. & Kathy K. Mc Dowell	Y
444	6437	Perry Pines Ct	Indianapolis, IN 46237	Richard & Karen Fyten	
445	6438	Gray Rd	Indianapolis, IN 46237	Bryan D. & Breanne N. Rubeck	
446	6450	Gray Rd	Indianapolis, IN 46237	Theresa Waters	
447	6460	Gray Rd	Indianapolis, IN 46237	Darryl Dean & Anastasia N. Mitchell	Y
448	6506	Gray Rd	Indianapolis, IN 46237	Kenneth R. Matkins	N/R
566	3610	Redwood Dr	Indianapolis, IN 46227	Richard A. Qualls	Y
567	3618	Redwood Dr	Indianapolis, IN 46227	Ernest & Carol Crenshaw	N/R
568	5503	S Kealing Av	Indianapolis, IN 46227	Billie J. Huntman	Y
569	5511	S Kealing Av	Indianapolis, IN 46227	Daniel & C. Samantha Fitzgerald	Y
570	5519	S Kealing Av	Indianapolis, IN 46227	James David & Kimberly A. Dawson	Y
571	5527	S Kealing Av	Indianapolis, IN 46227	Michael E. Monaghan	Y
572	5601	S Kealing Av	Indianapolis, IN 46227	Jason & Julie Crewe	
573	5609	S Kealing Av	Indianapolis, IN 46227	Theresa A. Wright	Y
574	5617	S Kealing Av	Indianapolis, IN 46227	Kelly L. Gratien	Y
575	5623	S Kealing Av	Indianapolis, IN 46227	Margaret E. Mcintosh	Y
576	5629	S Kealing Av	Indianapolis, IN 46227	Richard E. & Cindy L. Perry	Y
577	5633	S Kealing Av	Indianapolis, IN 46227	Thomas E. & Deborah S. Negri	Y
578	5639	S Kealing Av	Indianapolis, IN 46227	Joseph D. & Rebecca L. Essex	Y
579	5703	S Kealing Av	Indianapolis, IN 46227	Emily M. Phipps	N/R
580	3632	S Kealing Ct	Indianapolis, IN 46227	John O. & Marilyn J. Bullens	Y
581	3635	S Kealing Ct	Indianapolis, IN 46227	Adam D. & Melissa L. Long	Y
582	3627	S Kealing Ct	Indianapolis, IN 46227	Bobby L., Jr & Angie L. Jobe	Y
583	3621	Ferncliff Av	Indianapolis, IN 46227	H & H Property Investments Inc	N/R
584	3615	Ferncliff Av	Indianapolis, IN 46227	Douglas A. Johnson	Y
585	3618	Ferncliff Av	Indianapolis, IN 46227	Denney, Perry J & Rabenia S Trustees Denney Family Trust	
586	5704	S Kealing Av	Indianapolis, IN 46227	Kevin M. Quillen & Dorothy J. Carey	Y
587	5638	S Kealing Av	Indianapolis, IN 46227	H & H Property Investments Inc	N/R
588	3611	Royal Oak Dr	Indianapolis, IN 46227	Robert Hawkins	Y
589	5622	S Kealing Av	Indianapolis, IN 46227	Barbara A. Englert	Y
590	5614	S Kealing Av	Indianapolis, IN 46227	Joseph P., Jr & Shelli L. Wohlhieter	Y
591	5608	S Kealing Av	Indianapolis, IN 46227	Thomas L. & Janet R. Springer	Y
592	5532	S Kealing Av	Indianapolis, IN 46227	Jesus F. Cardoza	N/R
593	5524	S Kealing Av	Indianapolis, IN 46227	Marco V. Patino	Y
594	5516	S Kealing Av	Indianapolis, IN 46227	Stanley O. & Rita J. Hall	Y
595	5508	S Kealing Av	Indianapolis, IN 46227	Gary L. & Debra L. Sowders	N/R
596	3605	Redwood Dr	Indianapolis, IN 46227	Sharon K. Keim	N/R
598	3530	E Dudley Av	Indianapolis, IN 46227	James T. & Joan M. Bartley	Y
599	5605	S Gale St	Indianapolis, IN 46227	Paul D. & Rose Marie Russell	
600	5615	S Gale St	Indianapolis, IN 46227	Robert & Carol R. Pollak	N/R
601	3610	Royal Oak Dr	Indianapolis, IN 46227	Christopher L. & Jodie L. Nelson	N/R
602	5625	S Gale St	Indianapolis, IN 46227	Clayton A. Homann	
603	3616	Whalen Av	Indianapolis, IN 46227	Ralph, Jr & Virginia F. De Boor	Y
604	3626	Whalen Av	Indianapolis, IN 46227	Donald M. & Janet I. Carney	Y
605	3636	Whalen Av	Indianapolis, IN 46227	Kevin L. Carney	Y
606	5737	S Kealing Av	Indianapolis, IN 46227	Robert A. & Linda E. Thompson	
607	5745	S Kealing Av	Indianapolis, IN 46227	Gloria Houchell	Y
608	5801	S Kealing Av	Indianapolis, IN 46227	Rasnic, Steven James & Stephanie A Rasdell-Rasnic	Y
609	5811	S Kealing Av	Indianapolis, IN 46227	Mark A. & Kelli R. Ramsey	Y
610	5821	S Kealing Av	Indianapolis, IN 46227	Jeffrey M. & Kerry N. Anderson	Y
611	5831	S Kealing Av	Indianapolis, IN 46227	Ronald D. Tanner	N/R

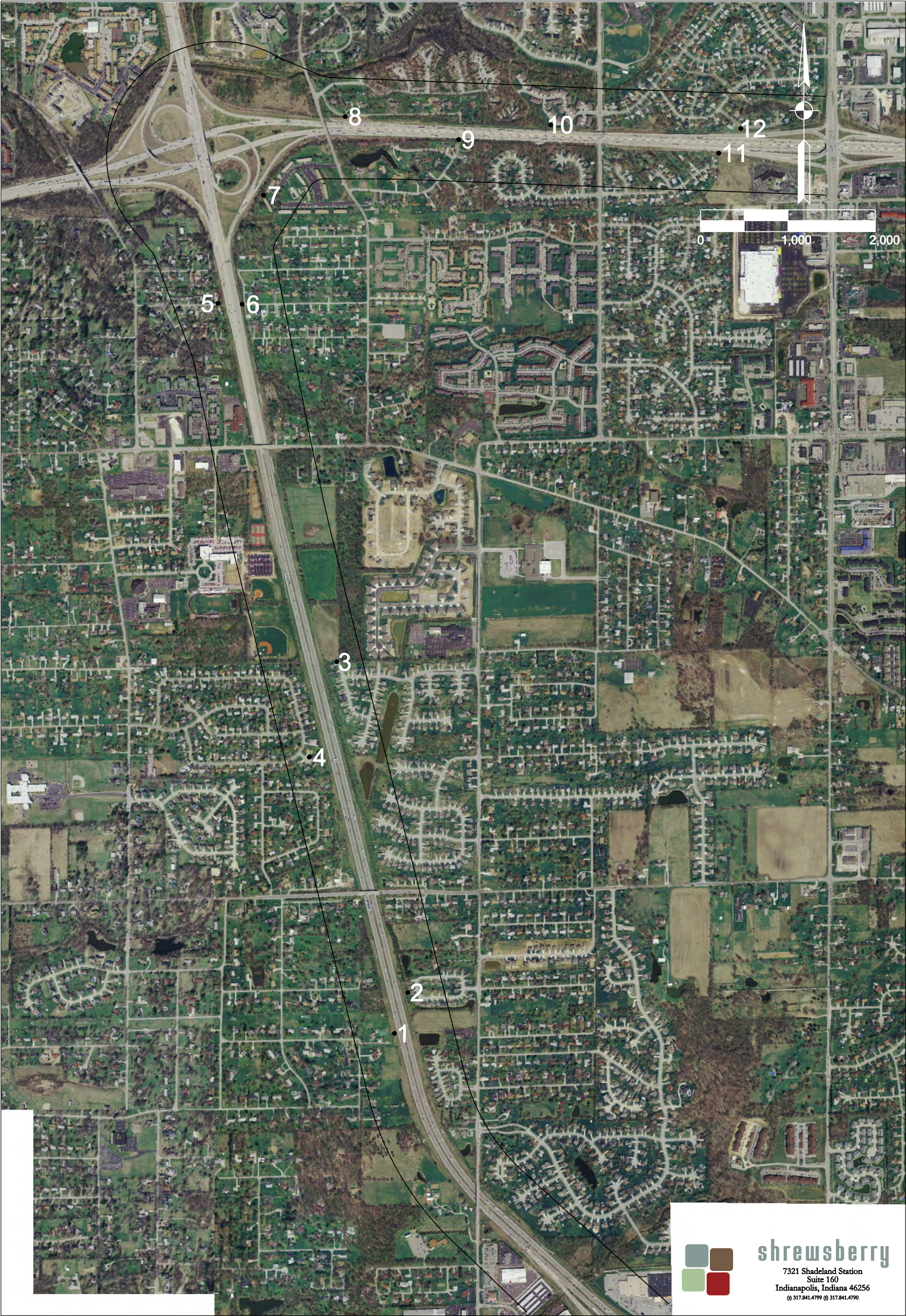
Receptor No.	Street Number	Street	City, State, Zip	Owner Name	Response
612	5841	S Kealing Av	Indianapolis, IN 46227	James L. Jackson	N/R
613	3641	E Brunswick Av	Indianapolis, IN 46227	Stephen R. & Roseanne Keefe	Y
614	3631	E Brunswick Av	Indianapolis, IN 46227	Judith E. Villegas	N/R
615	3615	Whalen Av	Indianapolis, IN 46227	Ronald Mccord	N/R
616	3625	Whalen Av	Indianapolis, IN 46227	Faith Property Management LLC,	N/R
617	5806	S Kealing Av	Indianapolis, IN 46227	Barbara J. Bruce	N/R
618	5816	S Kealing Av	Indianapolis, IN 46227	Jo Ann Kouts	Y
619	5838	S Kealing Av	Indianapolis, IN 46227	Bradley S. & Stephanie Parks	N/R
620	3626	E Brunswick Av	Indianapolis, IN 46227	Martin & Maria M. Ponce	Y
622	3704	E Edgewood Av	Indianapolis, IN 46227	Basilio J., Jr & Nenita Delacruz	
623	3330	E Edgewood Av	Indianapolis, IN 46227	Bryan K. & Deborah S. Himes	Y
626	3401	E Edgewood Av	Indianapolis, IN 46227	Rhoton, Stanley & Emma J Daniels	N/R

 = UNDELIVERABLE

N/R = NO RESPONSE RECEIVED

APPENDIX E

FIELD LOG



I-65 at I-465 Interchange Modification
Noise Measurement Locations



shrewsberry
7321 Shadeland Station
Suite 160
Indianapolis, Indiana 46256
(317) 841.4799 (317) 841.4790

I-65/I-465 South Interchange Project

NOISE ANALYSIS

Location #1

Receptor Description: Near E. Payne Dr and S. Sherman Dr

Major Noise Source: I-65 SB

Land Use Category: Suburban

Date: June 17, 2011

Start Time: 10:29 AM

End Time: 10:44 AM

Weather: sunny, 75 degrees F

Decibel Reading: 78.3 dBA

Ambient Speed: 65 mph

Posted Speed: 65 mph

Number of Lanes: 3

Lane Width: 12'

Traffic Count: per 15 minute measurement

	I-65 SB Lane 1	I-65 SB Lane 2	I-65 SB Lane 3
Cars	199	253	250
Heavy Trucks	58	70	4

Site Sketch:



West	North	South
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I-65/I-465 South Interchange Project

NOISE ANALYSIS

Location #2

Receptor Description: 3917 Gray Arbor Drive

Major Noise Source: I-65 NB

Land Use Category: Suburban

Date: June 17, 2011

Start Time: 11:02 AM

End Time: 11:07 AM

Weather: sunny, 78 degrees F

Decibel Reading: 67.6 dBA

Ambient Speed: 65 mph

Posted Speed: 65 mph

Number of Lanes: 3

Lane Width: 12'

Traffic Count: per 15 minute measurement– Could not see traffic from measurement point

	I-65 NB Lane 1	I-65 NB Lane 2	I-65 NB Lane 3
Cars	N/A	N/A	N/A
Heavy Trucks	N/A	N/A	N/A

Site Sketch:



North	South	West
-------	-------	------

I-65/I-465 South Interchange Project

NOISE ANALYSIS

Location #3

Receptor Description: 5506 Rum Cherry Way

Major Noise Source: I-65 NB

Land Use Category: Suburban

Date: June 17, 2011

Start Time: 11:22 AM

End Time: 11:27 AM

Weather: sunny, 80 degrees F

Decibel Reading: 65.4 dBA

Ambient Speed: 65 mph

Posted Speed: 65 mph

Number of Lanes: 3

Lane Width: 12'

Traffic Count: per 15 minute measurement– Could not see traffic from measurement point

	I-65 NB Lane 1	I-65 NB Lane 2	I-65 NB Lane 3
Cars	N/A	N/A	N/A
Heavy Trucks	N/A	N/A	N/A

Site Sketch:



West	South	North
------	-------	-------

I-65/I-465 South Interchange Project

NOISE ANALYSIS

Location #4

Receptor Description: 3632 Kealing Ct.

Major Noise Source: I-65 SB

Land Use Category: Suburban

NOTE: Helicopter
passed by during
noise measurement.

Date: June 17, 2011

Start Time: 10:10 AM

End Time: 10:15 AM

Weather: sunny, 74 degrees F

Decibel Reading: 68.0 dBA

Ambient Speed: 65 mph

Posted Speed: 65 mph

Number of Lanes: 3

Lane Width: 12'

Traffic Count: per 15 minute measurement– Could not see traffic from measurement point

	I-65 SB Lane 1	I-65 SB Lane 2	I-65 SB Lane 3
Cars	N/A	N/A	N/A
Heavy Trucks	N/A	N/A	N/A

Site Sketch:



North	West
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I-65/I-465 South Interchange Project

NOISE ANALYSIS

Location #5

Receptor Description: 3220 Chamberlin Drive

Major Noise Source: I-65 SB

Land Use Category: Suburban

Date: June 17, 2011

Start Time: 9:54 AM

End Time: 9:59 AM

Weather: sunny, 74 degrees F

Decibel Reading: 76.5 dBA

Ambient Speed: 60 mph

Posted Speed: 55 mph

Number of Lanes: 3

Lane Width: 12'

Traffic Count: per 15 minute measurement– Could not see traffic from measurement point

	I-65 SB Lane 1	I-65 SB Lane 2	I-65 SB Lane 3
Cars	N/A	N/A	N/A
Heavy Trucks	N/A	N/A	N/A

Site Sketch:



East	North	South
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I-65/I-465 South Interchange Project

NOISE ANALYSIS

Location #6

Receptor Description: 4555 S. LaSalle St.

Major Noise Source: I-65 NB

Land Use Category: Suburban

Date: June 17, 2011

Start Time: 11:41 AM

End Time: 11:56 AM

Weather: sunny, 82 degrees F

Decibel Reading: 85.1 dBA

Ambient Speed: 60 mph

Posted Speed: 55 mph

Number of Lanes: 3

Lane Width: 12'

Traffic Count: per 15 minute measurement

	I-65 NB Lane 1	I-65 NB Lane 2	I-65 NB Lane 3	Ramp I-65 NB
Cars	153	155	197	311
Heavy Trucks	49	56	11	55

Site Sketch:



South	North	East
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I-65/I-465 South Interchange Project

NOISE ANALYSIS

Location #7

Receptor Description: Lickridge Ln N Drive

Major Noise Source: I-65 NB and I-465 EB

Land Use Category: Suburban

Date: June 17, 2011

Start Time: 2:13 PM

End Time: 2:18 PM

Weather: sunny, 84 degrees F

Decibel Reading: 70.9 dBA

Ambient Speed: 50 mph

Posted Speed: 50 mph

Number of Lanes: 3

Lane Width: 12'

Traffic Count: per 15 minute measurement – Could not see traffic from measurement point

Cars	N/A	N/A	N/A
Heavy Trucks	N/A	N/A	N/A

Site Sketch:



South

I-65/I-465 South Interchange Project

NOISE ANALYSIS

Location #8

Receptor Description: 3838 Dundee Drive

Major Noise Source: I-465 WB

Land Use Category: Suburban

Date: June 17, 2011

Start Time: 2:24 PM

End Time: 2:29 PM

Weather: sunny, 82 degrees F

Decibel Reading: 86.4 dBA

Ambient Speed: 60 mph

Posted Speed: 55 mph

Number of Lanes: 3

Lane Width: 12'

Traffic Count: per 15 minute measurement – Could not see traffic from measurement point

	I-465 WB Lane 1	I-465 WB Lane 2	I-465 WB Lane 3
Cars	N/A	N/A	N/A
Heavy Trucks	N/A	N/A	N/A

Site Sketch:



East	South	North
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I-65/I-465 South Interchange Project

NOISE ANALYSIS

Location #9

Receptor Description: 4006 Rebel Run

Major Noise Source: I-465 EB

Land Use Category: Suburban

Date: June 17, 2011

Start Time: 12:05 PM

End Time: 12:20 PM

Weather: sunny, 80 degrees F

Decibel Reading: 89.6 dBA

Ambient Speed: 60 mph

Posted Speed: 55 mph

Number of Lanes: 3

Lane Width: 12'

Traffic Count: per 15 minute measurement

	I-465 EB Lane 1	I-465 EB Lane 2	I-465 EB Lane 3
Cars	264	288	179
Heavy Trucks	77	89	7

Site Sketch:



South	West
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I-65/I-465 South Interchange Project

NOISE ANALYSIS

Location #10

Receptor Description: 1107 Evening Shade Circle

Major Noise Source: I-465 WB

Land Use Category: Suburban

Date: June 17, 2011

Start Time: 1:48 PM

End Time: 1:53 PM

Weather: sunny, 82 degrees F

Decibel Reading: 74.7 dBA

Ambient Speed: 60 mph

Posted Speed: 55 mph

Number of Lanes: 3

Lane Width: 12'

Traffic Count: per 15 minute measurement – Could not see traffic from measurement point

Cars	N/A	N/A	N/A
Heavy Trucks	N/A	N/A	N/A

Site Sketch:



South	East	North
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I-65/I-465 South Interchange Project

NOISE ANALYSIS

Location #11

Receptor Description: 502 North Bend Rd

Major Noise Source: I-465 EB

Land Use Category: Suburban

Date: June 17, 2011

Start Time: 2:01 PM

End Time: 2:06 PM

Weather: sunny, 84 degrees F

Decibel Reading: 82.8 dBA

Ambient Speed: 60 mph

Posted Speed: 55 mph

Number of Lanes: 3

Lane Width: 12'

Traffic Count: per 15 minute measurement – Could not see traffic from measurement point

	I-465 EB Lane 1	I-465 EB Lane 2	I-465 EB Lane 3
Cars	N/A	N/A	N/A
Heavy Trucks	N/A	N/A	N/A

Site Sketch:



North	South
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I-65/I-465 South Interchange Project

NOISE ANALYSIS

Location #12

Receptor Description: 200 Block of Ada Lane

Major Noise Source: I-465 WB, Emerson Ave. Acceleration Ramp to I-465 WB

Land Use Category: Suburban

Date: June 17, 2011

Start Time: 1:25 PM

End Time: 1:40 PM

Weather: sunny, 84 degrees F

Decibel Reading: 85.0 dBA

Ambient Speed: 60 mph

Posted Speed: 55 mph

Number of Lanes: 3

Lane Width: 12'

Traffic Count: per 15 minute measurement

	I-465 WB Lane 1	I-465 WB Lane 2	I-465 WB Lane 3	Acceleration Ramps
Cars	195	243	161	147
Heavy Trucks	66	65	6	36

Site Sketch:



East	North	South
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