## PRELIMINARY ENGINEERING NOISE ANALYSIS REPORT



Pennsylvania Turnpike Commission SAP Contract No. 4400003926 Total Reconstruction and Widening MP-308 to MP-312 Chester County, Pennsylvania

Prepared for:

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### Total Reconstruction and Widening from MP 308 to MP 312 Chester County PRELIMINARY ENGINEERING NOISE ANALYSIS September 2015

#### **Executive Summary**

The Pennsylvania Turnpike Commission (PTC) proposes to reconstruct its toll road. The proposed project entails the total reconstruction and widening of the Pennsylvania Turnpike from approximately Milepost (MP) 308 to MP 312. The project will result in widening I-76 from four (4) travel lanes to six (6) travel lanes with full, twelve (12) –foot left and right-hand shoulders. The proposed widening consists of approximately four (4) miles of roadway and will include total roadway reconstruction, widening of mainline bridges and medians, the replacement of overhead bridges, culvert extensions, drainage modifications, construction of storm water management facilities, and necessary horizontal or vertical adjustments to approach roadways associated with modified overhead bridges. Construction will generally follow the existing centerline. The study corridor traverses Upper Uwchlan Township in Chester County, Pennsylvania Department of Transportation (PennDOT) and Federal Highway Administration (FHWA) criteria for a Type I project.

For analysis purposes, the project study area was divided into thirteen (13) Noise Study Areas (NSAs) as shown in Figures 2 through 7. Noise measurements and concurrent traffic counts were conducted in all NSAs and are reported in Table 2. Based on the evaluation of existing and future noise levels and the noise abatement criteria (NAC) described in Table 1, project-related noise impacts were identified in all NSAs except NSAs 7, 10 and 13.

Based on the evaluation of the noise levels associated with the preliminary engineering plans developed to date, noise abatement features were determined to be feasible and reasonable within NSA 12. Various noise barrier options were considered and evaluated in terms of abatement feature lengths, heights and costs. This process resulted in the development of the following feasible and reasonable noise barriers along I-76:

• NSA 12 Barrier – A noise barrier averaging 13.5 feet in height along I-76 Westbound, with a length of approximately 2,210 feet.

#### Introduction

The Pennsylvania Turnpike Commission (PTC) proposes to reconstruct its toll road. The proposed project entails the total reconstruction and widening of the Pennsylvania Turnpike from approximately Milepost (MP) 308 to MP 312. The project will result in widening I-76 from four (4) travel lanes to six (6) travel lanes with full, twelve (12) –foot left and right-hand shoulders. The proposed widening consists of approximately four (4) miles of roadway and will include total roadway reconstruction, widening of mainline bridges and medians, the replacement of overhead bridges, culvert extensions, drainage modifications, construction of storm water management facilities, and necessary horizontal or vertical adjustments to approach roadways associated with modified overhead bridges. Construction will generally follow the existing centerline. The study corridor traverses Upper Uwchlan Township in Chester County, Pennsylvania. Noise abatement has been evaluated for the noise study areas which meet the Pennsylvania Department of Transportation (PennDOT) and Federal Highway Administration (FHWA) criteria for a Type I project.

PennDOT Noise Abatement Criteria (NAC), described in Table 1, for specific land use activities were used in the evaluation of traffic noise impacts. These criteria are based on criteria established in Title 23 Code of Federal Regulations, Part 772, U.S. Department of Transportation, Federal Highway Administration (FHWA), *Procedures for Abatement of Highway Traffic Noise and Construction Noise*, and guidelines for "increase over existing" noise levels as set forth in PennDOT Publication *Project Level Highway Traffic Noise Handbook Publication No.24*, dated December, 2013. Predicted noise levels were determined using Version 2.5 of the FHWA Traffic Noise Model (FHWA TNM).

The noise level descriptor used for this project was the hourly equivalent noise level  $(L_{eq}(h))$ .  $L_{eq}(h)$  is the steady state, A-weighted sound level, which contains the same amount of acoustic energy as the actual time-varying A-weighted noise level over a one-hour period. The FHWA and PennDOT define noise impact based upon seven activity categories, as identified in Table 1. Individual sites located within a given activity category are designated as noise sensitive receptors.

Noise impacts were also evaluated by comparing the predicted noise levels with existing noise levels. A noise impact was identified if the future (year 2046) noise level was predicted to equal or exceed 66 dB(A) or if future noise levels within the project were predicted to cause a substantial noise increase ( $\geq 10$  dB(A)) as compared to existing noise levels.

#### **Noise Study Areas**

For noise analysis purposes, the project study area was divided into the following noise study areas (NSAs) as shown in Figures 2 through 7:

NSA 1: Activity Category B land uses are located adjacent to the westbound travel lanes (north side) of I-76, from approximately 1,830 feet west of Styer Road to Styer Road. See Figure 2

NSA 2: Activity Category B land uses are located adjacent to the eastbound travel lanes (south side) of I-76, from east of Styer Road to 2,260 feet east of Styer Road. See Figure 3.

NSA 3: Activity Category B land uses are located adjacent to the westbound travel lanes (north side) of I-76, from Styer Road to approximately 2,100 feet west of Milford Road. See Figure 3.

NSA 4: Activity Category B land uses are located adjacent to the eastbound travel lanes (south side) of the I-76, from Milford Road to Little Conestoga Road. See Figure 4.

NSA 5: Activity Category B land uses are located adjacent to the westbound travel lanes (north side) of I-76, from approximately 2,400 feet east of Styer Road to Milford Road. See Figure 4.

NSA 6: Activity Category B land uses are located adjacent to the eastbound travel lanes (south side) of the I-76, from Little Conestoga Road to Green Valley Road. See Figure 5.

NSA 7: An Activity Category B land uses are located adjacent to the westbound travel lanes (north side) of I-76, from Milford Road to approximately 380 feet east of Milford Road. See Figure 4.

NSA 8: Activity Category C land uses are located adjacent to the eastbound travel lanes (south side) of I-76, from Park Road to approximately 980 feet west of Park Road. See Figure 6.

NSA 9: Activity Category B land uses are located adjacent to the westbound travel lanes (north side) of I-76, from Little Conestoga Road to approximately 700 feet east of Little Conestoga Road. See Figure 5.

NSA 10: Activity Category C land use (Universal Technical Institute) is located adjacent to the eastbound travel lanes (south side) of I-76. See Figure 7.

NSA 11: An Activity Category B land uses are located adjacent to the westbound travel lanes (north side) of I-76, north of Little Conestoga Road within the Frame Property which is proposed for but not yet under development (no building permits issued) and was not

included in the noise mitigation analysis in accordance with PTC policy. See Figure 5.

NSA 12: Activity Category B land uses are located adjacent to the westbound travel lanes (north side) of I-76, from approximately 1,230 feet east of Little Conestoga Road to Park Road. See Figure 6.

NSA 13: Activity Category B land uses are located adjacent to the westbound travel lanes (north side) of I-76, from Park Road to approximately 330 east of Park Road. See Figure 6.

#### Noise Measurements and Model Validation

Ambient noise measurements were conducted throughout the project study area. Within each of the above NSAs, short-term (20 minute duration) noise measurements were taken along with concurrent traffic counts at 36 locations using American National Standards Association (ANSI) Type I noise meters. See Appendix A for field data sheets. Calibration certificates related to noise meters and calibrators are contained in Appendix B.

It should be noted that short-term measurements were taken at various times of the day between June 16 and 18, 2014 and did not necessarily represent the noisiest condition at any particular measurement site (receiver<sup>1</sup>). In addition, measurement sites were positioned in order to enable validation of the noise prediction model and to assist in defining existing noise levels for second-row residences and for receivers located approximately 500 feet from I-76. As such, in certain locations, noise measurement sites do not exactly correspond with noise analysis sites (receivers). Measurements were used primarily for purposes of noise model validation, with year 2013 peak hour traffic volumes assumed in the prediction of worst-case existing noise levels. Measured existing  $L_{eq}$  noise levels at short-term measurement sites (receivers) ranged from 51 to 72 dB(A).

Using the traffic data obtained concurrently with the short-term noise measurements, noise levels were modeled and compared to measured noise levels. Existing short-term measured noise levels and hourly traffic data based on concurrent traffic counts are summarized in Table 2, with field measurement data sheets contained in Appendix A.

<sup>&</sup>lt;sup>1</sup> \*In this report, the term "receptor" is used to represent a dwelling unit, or in the case of an Activity Category C non-residential land use, an equivalent residential unit (ERU). The term "receiver" is used to describe a particular analysis point in the FHWA TNM. It is important to note that, while in most cases one receiver represents one receptor, there are locations identified in this report where a receiver represents more than one receptor. These locations are identified in the various tables, where the "Receptor ID" column represents the FHWA TNM receiver point and the "Number of Units" column represents the number of receptors represented by that receiver.

Validation results are shown in Table 3, with FHWA TNM validation data files included on the CD-ROM which accompanies this report. Measured versus modeled noise levels were within the acceptable 3 dB(A) range for all sites evaluated. The results of the validation process was used to "build" the FHWA TNM used for purposes of modeling existing and future year noise levels, determining future year impacts, and evaluating potential noise abatement options.

#### **Noise Modeling**

The model used to predict worst case existing and future noise levels and to evaluate noise abatement options was the FHWA's TNM, Version 2.5. The FHWA TNM predicts noise levels at selected locations based on traffic data, roadway design, topographic features, and the relationship of the analysis site (receiver) to nearby roadways. Traffic data used for prediction of existing (year 2013) and future (year 2046) noise levels for both nobarrier and barrier conditions is contained in Appendix C. In addition, it was assumed that the Future No-Build and Future Build traffic are similar. The percentages of automobiles, medium trucks, and heavy trucks used in the FHWA TNM modeling process were developed from review of traffic classification data obtained during the noise measurement periods corresponding to the periods of highest noise levels.

#### **Evaluation of Noise Impacts**

Consideration of noise abatement is required in Pennsylvania if noise levels approach or exceed 67 dB(A) (defined as 66 dB(A) or higher) or create a substantial noise increase (10 dB(A)). The future year noise levels were compared to the NAC approach levels (66 dB(A)) and to the increases over existing year noise levels using PennDOT's NAC to determine if there would be any noise impacts. These comparisons are contained in the noise summary tables for each NSA, with the noise measurement sites and analysis sites (receivers) indicated within each NSA. Noise impacts were identified in each NSA based on predicted exterior noise levels exceeding the 66 dB(A) approach criteria level for Activity Category land uses B and C and the 71 dB(A) approach criteria level for Activity Category land use E. "Increase over existing" noise levels were generally the result of normal traffic growth predicted to occur between 2013 and 2046.

In addition to their use in evaluating noise impacts, noise analysis sites (receivers) were used in the consideration of noise abatement for noise sensitive receptors within each NSA. Abatement measures such as traffic management devices and roadway realignment were determined not to be feasible since the purpose of the project is to widen along the existing alignment and any traffic management techniques would be contrary to the efficient functioning of I-76 as an Interstate highway. In addition, the topography and development in the area does not lend itself to the use of noise berms as an effective noise abatement technique. Therefore, noise abatement evaluations focused on the design of noise barrier walls.

Consideration of noise abatement was required in all NSAs (except NSAs 7, 10 and 13) due to noise levels approaching or exceeding the NAC. Under PennDOT noise criteria, feasible noise barriers are those that provide at least 5 dB(A) of noise reduction for at least 50% of impacted receptors, while posing no safety, engineering, maintenance, constructability, drainage, or utility impacts, or access restrictions. If determined to be feasible, a barrier was then evaluated for reasonableness. For a barrier to be reasonable based on PennDOT noise criteria, it must be cost-effective (square footage per benefited residential receptor (SF/BR) must be less than or equal to 2000), and the desires of the affected property owners and residents must be considered. Receptors are considered to be benefited if they receive 5 dB(A) or more noise reduction (insertion loss) from a barrier. To meet PennDOT's reasonableness criteria, a barrier must also achieve at least a 7 dB(A) noise reduction at one receptor.

A summary of abatement considerations within each NSA follows. See referenced tables for more details related to all barrier options considered.

**NSA 1 (See Figure 2 and Table 4):** Seven of the nine receptors evaluated within this NSA were predicted to have levels at or above 66 dB(A) with the Build Alternative. As such, consideration of noise abatement within this NSA was warranted.

The following two abatement options were considered for NSA 1:

- Case 1 consisted of a 14 feet high wall and was determined to be not feasible (≥5 dB(A) insertion loss provided for 20% of impacted receptors).
- Case 2 consisted of a 20 feet high wall and was determined to be not feasible (≥5 dB(A) insertion loss provided for 40% of impacted receptors).

**NSA 2 (See Figure 3 and Table 5):** Six of the twelve receptors evaluated within this NSA were predicted to have levels at or above 66 dB(A) with the Build Alternative. As such, consideration of noise abatement within this NSA was warranted.

The following three abatement options were considered for NSA 2:

- Case 1 consisted of a 12 feet high wall and was determined to be not feasible (≥5 dB(A) insertion loss provided for 33% of impacted receptors).
- Case 2 consisted of a 14 feet high wall and was determined to be feasible (≥5 dB(A) insertion loss provided for 50% of impacted receptors) but not reasonable (goal of 7 dB(A) insertion loss for at least one receptor was achieved but square footage per benefited receptor SF/BR 9,303 > 2000).
- Case 3 consisted of an optimizing of Case 2 and was determined to be feasible (≥5 dB(A) insertion loss provided for 50% of impacted receptors) but not reasonable (goal of 7 dB(A) insertion loss for at least one receptor was achieved but square

footage per benefited receptor SF/BR 2,415 > 2000).

**NSA 3 (See Figure 3 and Table 6):** Thirteen of the fifteen receptors evaluated within this NSA were predicted to have levels at or above 66 dB(A) with the Build Alternative. As such, consideration of noise abatement within this NSA was warranted.

The following three abatement options were considered for NSA 3:

- Case 1 consisted of a 14 feet high wall and was determined to be not feasible (≥5 dB(A) insertion loss provided for 21% of impacted receptors).
- Case 2 consisted of a 16 feet high wall and was determined to be not feasible (≥5 dB(A) insertion loss provided for 36% of impacted receptors).
- Case 3 consisted of a 20 feet high wall and was determined to be not feasible (≥5 dB(A) insertion loss provided for 36% of impacted receptors).

**NSA 4 (See Figure 4 and Table 7):** Four of the nineteen receptors evaluated within this NSA were predicted to have levels at or above 66 dB(A) with the Build Alternative. As such, consideration of noise abatement within this NSA was warranted.

The following two abatement options were considered for NSA 4:

- Case 1 consisted of a 10 feet high wall and was determined to be feasible ( $\geq$ 5 dB(A) insertion loss provided for 50% of impacted receptors) but not reasonable (goal of 7 dB(A) insertion loss for at least one receptor was achieved but square footage per benefited receptor SF/BR 10,342 > 2000).
- Case 2 consisted of an optimizing of Case 1 and was determined to be feasible (≥5 dB(A) insertion loss provided for 50% of impacted receptors) but not reasonable (goal of 7 dB(A) insertion loss for at least one receptor was achieved but square footage per benefited receptor SF/BR 3,217 > 2000).

**NSA 5 (See Figure 4 and Table 8):** Eleven of the twelve receptors evaluated within this NSA were predicted to have levels at or above 66 dB(A) with the Build Alternative. As such, consideration of noise abatement within this NSA was warranted.

The following three abatement options were considered for NSA 5:

• Case 1 consisted of a 16 feet high wall and was determined to be feasible (≥5 dB(A) insertion loss provided for 82% of impacted receptors) but not reasonable (goal of 7 dB(A) insertion loss for at least one receptor was achieved but square footage per benefited receptor SF/BR 4,633 > 2000).

- Case 2 consisted of an optimizing of Case 1 and was determined to be feasible (≥5 dB(A) insertion loss provided for 64% of impacted receptors) but not reasonable (goal of 7 dB(A) insertion loss for at least one receptor was achieved but square footage per benefited receptor SF/BR 3,258 > 2000).
- Case 3 consisted of an optimizing of Case 2 and was determined to be not feasible (≥5 dB(A) insertion loss provided for 45% of impacted receptors).

NSA 6 (See Figure 5 and Table 9): All three receptors evaluated within this NSA were predicted to have levels at or above 66 dB(A) with the Build Alternative. As such, consideration of noise abatement within this NSA was warranted.

The following three abatement options were considered for NSA 6:

- Case 1 consisted of a 10 feet high wall and was determined to be not feasible (≥5 dB(A) insertion loss provided for 0% of impacted receptors).
- Case 2 consisted of a 16 feet high wall and was determined to be not feasible (≥5 dB(A) insertion loss provided for 33% of impacted receptors).
- Case 3 consisted of a 20 feet high wall and was determined to be not feasible (≥5 dB(A) insertion loss provided for 33% of impacted receptors).

**NSA 7 (See Figure 4 and Table 10):** The two receptors representative of the properties within this NSA were not predicted to have levels at or above 66 dB(A) and were not predicted to create a substantial noise increase of 10 dB(A) with the Build Alternative. Therefore consideration of abatement is not required for this NSA.

**NSA 8 (See Figure 6 and Table 11):** This NSA includes the Upper Uwchlan Township park baseball fields, the receptors were predicted to have levels at or above 66 dB(A) with the Build Alternative. As such, consideration of noise abatement within this NSA was warranted. In accordance with PennDOT Pub. 24, the equivalent receptor unit (ERU) to be calculated based on the following assumptions:

- Average event attendance: 75 person
- Average time used by each person per event: 3 hours
- Average number of events per day: 2 events
- Days per Year used: 240 days

Based on these assumptions, the ERU was calculated to be: 75\*3\*2\*240/13578 = 7.95 = 8. It was assumed that each of the analyzed sites within this NSA will be represented by 4 receptors to represent the property and to evaluate noise impacts and abatement options.

The following three abatement options were considered for NSA 8:

- Case 1 consisted of a 10 feet high wall and was determined to be feasible (≥5 dB(A) insertion loss provided for 50% of impacted receptors) but not reasonable (goal of 7 dB(A) insertion loss for at least one receptor was not achieved.
- Case 2 consisted of a 12 feet high wall and was determined to be feasible (≥5 dB(A) insertion loss provided for 50% of impacted receptors) but not reasonable (goal of 7 dB(A) insertion loss for at least one receptor was not achieved.
- Case 2 consisted of a 16 feet high wall and was determined to be feasible (≥5 dB(A) insertion loss provided for 50% of impacted receptors) but not reasonable (goal of 7 dB(A) insertion loss for at least one receptor was not achieved.

NSA 9 (See Figure 5 and Table 12): The receptor representative of this NSA was predicted to have levels at or above 66 dB(A) with the Build Alternative. As such, consideration of noise abatement within this NSA was warranted.

The following three abatement options were considered for NSA 9:

- Case 1 consisted of a 10 feet high wall and was determined to be feasible (≥5 dB(A) insertion loss provided for 100% of impacted receptors) but not reasonable (goal of 7 dB(A) insertion loss for at least one receptor was achieved but square footage per benefited receptor SF/BR 9,004 > 2000).
- Case 2 consisted of a 8 feet high wall and was determined to be feasible (≥5 dB(A) insertion loss provided for 100% of impacted receptors) but not reasonable (goal of 7 dB(A) insertion loss for at least one receptor was achieved but square footage per benefited receptor SF/BR 7,204 > 2000).
- Case 3 consisted of an optimizing of Case 2 and was determined to be feasible (≥5 dB(A) insertion loss provided for 100% of impacted receptors) but not reasonable (goal of 7 dB(A) insertion loss for at least one receptor was achieved but square footage per benefited receptor SF/BR 3,815 > 2000).

**NSA 10 (See Figure 5 and Table 13):** The FHWA TNM receptor in this NSA represents an educational institute. The University Technical Institute doesn't have an outdoor area of frequent human use. Therefore consideration of abatement was not required for this NSA.

**NSA 12 (See Figure 6 and Table 14):** Fifteen of the thirty receptors evaluated within this NSA were predicted to have levels at or above 66 dB(A) with the Build Alternative. As such, consideration of noise abatement within this NSA was warranted.

The following four abatement options were considered for NSA 12:

- Case 1 consisted of a 10 feet high wall and was determined to be not feasible (≥5 dB(A) insertion loss provided for 27% of impacted receptors).
- Case 2 consisted of a 12 feet high wall and was determined to be not feasible (≥5 dB(A) insertion loss provided for 47% of impacted receptors).
- Case 3 consisted of a 14 feet high wall and was determined to be feasible (≥5 dB(A) insertion loss provided for 73% of impacted receptors) but not reasonable (goal of 7 dB(A) insertion loss for at least one receptor was not achieved and square footage per benefited receptor SF/BR 2,452 > 2000).
- Case 4 consisted of an optimizing of Case 3 and was determined to be feasible (≥5 dB(A) insertion loss provided for 73% of impacted receptors) and reasonable (goal of 7 dB(A) insertion loss for at least one receptor was achieved and square footage per benefited receptor SF/BR 1,987 < 2000). The recommended barrier is approximately 2,210 feet in length with an average height of 13.5 feet and was predicted to provide an average I.L. of 6.1 dB(A) for the 15 benefited receptors as shown in Figure 8.</li>

**NSA 13 (See Figure 6 and Table 15):** The receptor representative of the properties within this NSA was not predicted to have levels at or above 66 dB(A) and were not predicted to create a substantial noise increase of 10 dB(A) with the Build Alternative. Therefore consideration of abatement is not required for this NSA.

#### **Construction Noise Considerations**

It is recognized that construction, while temporary in nature, will result in increased noise levels during certain periods and at certain locations. If required during the final design noise analysis, a more detailed consideration of construction noise and associated abatement/mitigation will be undertaken, consistent with the availability and detail of anticipated construction scheduling and operations. Construction of temporary noise barriers and the early construction of permanent noise barriers will be considered as will the possibility of developing construction noise specifications and/or special provisions related to construction time periods, duration of construction activities, types of construction equipment, and/or equipment noise levels.

#### Conclusion

Normal traffic growth can be expected to generally increase noise levels in the project area. Based on the analysis of noise reported herein, noise impacts exist within most NSAs. Based on the evaluation of the noise levels associated with the engineering plans developed to date, a noise barrier was determined to be feasible and reasonable for NSA

During the final design phase, a detailed optimization of barrier length, height, cost and location will be coordinated with the final design engineering process to insure compatibility and the most cost-effective and efficient barrier design. This process may result in barrier height, length, and location changing from those discussed in this document.

The PTC is committed to construction of the feasible and reasonable noise abatement measures discussed above contingent upon the following conditions:

- Detailed noise analyses during the final design process;
- Analysis and determination of the feasibility and reasonableness of noise abatement measures, methodology, and criteria;
- Community input regarding desires, types, height, and location, as well as aesthetic considerations;
- Preferences regarding compatibility with adjacent land uses, particularly as addressed by officials having jurisdiction over such land uses;
- Safety and engineering aspects as related to the roadway user and the adjacent property owner

It is likely that the noise abatement measures for the identified noise impacted areas will be constructed if found to be feasible and reasonable based on the contingencies listed above.

12.

## TABLES

Ног	urly Weighted Sou	Table 1 and Levels dB(A) For Various Land Use Activity Categories*
Land Use Activity Category	Leq(h)	Description of Land Use Activity Category
А	57 (exterior)	Lands on which serenity and quiet are of extraordinary significance and serve an important public need and where the preservation of those qualities is essential if the area is to continue to serve its intended purpose.
В	67 (exterior)	Residential
С	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, trails, 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 studios, recording studios, schools, and television studios.
Е	72 (exterior)	Hotels, motels, offices, restaurants/bars, and other developed lands, properties or activities not included in $A - D$ or F.
F		Agriculture, airports, bus yards, emergency services, industrial, logging, maintenance facilities, manufacturing, mining, rail yards, retail facilities, shipyards, utilities (water resources, water treatment, electrical), and warehousing.
G		Undeveloped lands that are not permitted.

\* PennDOT has chosen to use Leq(h) [not L10(h)] on all of its transportation improvement projects.

## Table 2Sound Level Measurments Results

Site ID			Time	Н	ourly Traffic	c Based on C	Concurrent	Fraffic Cour	ıts	Measured
Number	Adress of Measurements Site	Date	Period	Autos	Medium Trucks	Heavy Trucks	Buses	Motor- cycles	Total	(Leq)
M1-1	672 Greenridge Rd	6.16.14	1:49pm	1023 1161	72 33	159 255	9 6	3	1266 1458	67.2
M1-2	664 Greenridge Rd	6.16.14	2:16pm	1098 1293	69 33	138 288	6 0	24 6	1438 1335 1620	62.6
M1-3	665 Greenridge Rd	6.16.14	2:44pm	1295 1071 1119	45 39	183 249	3 6	6 0	1308 1413	58.7
M1-4	195 Styer Rd	6.16.14	3:20pm	1098	45	129 276	0	0	1413 1272 1791	70.3
M2-1	Marsh Creek State Park	6.18.14	11:12am	1476 945	36 84	222	0 15	3 0	1266	57.8
M2-2	114 Shoreline Rd	6.17.14	2:28pm	984 1074	45 57	255 174	6 6	3 6	1293 1317	61.4
M2-3	121 Shoreline Rd	6.17.14	2:00pm	1095 951	57 66	174 183	6 0	6 3	1338 1203	51.1
M2-4	121 Shoreline Rd	6.17.14	1:32pm	1053 1026	66 72	285 210	6 3	0	1410 1311	62.1
M3-1	200 Styer Rd	6.16.14	3:55pm	1068 1095	75 45	231 165	12 0	0	1386 1305	62.1
M3-2	46 Meadow Creek Ln	6.17.14	3:35pm	1824 1080	39 63	168 183	3	6 0	2040 1329	63.1
M3-3	47 Meadow Creek Ln	6.17.14	3:35pm	1575 1080	54 63	258 183	0 3	0	1887 1329	58.2
M3-4	38 Meadow Creek Ln	6.16.14	4:27pm	1575 1083	54 36	258 105	0 15	0	1887 1239	66.6
M4-1	102 Edgefield Dr	6.16.14	10:49am	2001 999	18 63	180 210	0 6	6 0	2205 1278	60.7
M4-2	112 Edgefield Dr	6.17.14	4:55pm	1122 1194	57 51	192 96	3 9	3 0	1377 1350	56.7
M4-3			-	2016 1194	42 51	180 96	6 9	9 0	2253 1350	
_	115 Edgefield Dr	6.17.14	4:54pm	2016 1008	42 39	180 240	6 0	9 3	2253 1290	51.6
M4-4	116 Edgefield Dr	6.16.14	10:18am	1353 1116	48 57	312 186	0	3	1716 1362	63.6
M4-5	118 Edgefield Dr	6.16.14	9:49am	1179 1233	54 42	252 150	9 9	0	1494 1434	63.8
M5-1	105 Wertz Lane	6.17.14	4:17pm	1926 1233	66 42	192 150	3	0	2187 1434	71.2
M5-2	103 Wertz Lane	6.17.14	4:17pm	1926 978	66 45	192 195	3 6	03	2187 1227	66.3
M5-3	9 Blackhorse Circle	6.18.14	11:15am	807 1056	57 81	234 207	6 18	6 0	1110 1362	61.3
M5-4	102 Hoffman Circle	6.16.14	11:22am	1050 1215 966	36 60	291 213	0	0	1542 1257	72.1
M6-1	20 Green Valley Rd	6.18.14	12:22pm	906 906 966	87 60	345 213	9 3	0	1257 1347 1257	59.8
M6-2	10 Green Valley Rd	6.18.14	12:22pm	906	87 69	345	9	0	1347	60.9
M6-3	30 Green Valley Rd	6.18.14	10:04am	894 1047	42	162 294	9 9	9 6	1143 1398	60.6
M7-1	445 Milford Rd	6.16.14	12:00pm	1014 1008	48 39	186 240	12 0	3 0	1263 1287	56.7
M7-2	435 Milford Rd	6.16.14	11:55am	1014 1008	48 39	186 240	12 0	3 0	1263 1287	54.6
M8-1	Hickory Park Baseball Field	6.17.14	7:39am	2079 894	69 30	201 123	3 0	3 3	2355 1050	60.0
M8-2	Hickory Park Baseball Field	6.17.14	7:42am	2079 894	69 30	201 123	3 0	3	2355 1050	60.9
M9-1	1850 Rosenburger Lane	6.18.14	8:35am	1500 957	63 75	255 141	15 24	3 0	1836 1197	64.2
M10-1	750 Pennsylvania Dr. (Universal Technical Inst.)	6.18.14	9:23am	1044 1065	48 36	216 264	9 9	3 3	1320 1377	63.5
M11-1	Undeveloped Parcel #1along Little Constoga Rd	6.18.14	8:03am	1797 1104	81 57	252 123	12 0	3 0	2145 1284	59.9
M11-2	Undeveloped Parcel #36 along Little Constoga Rd	6.18.14	8:03am	1797 1104	81 57	252 123	12 0	3 0	2145 1284	60.7
M12-1	6 Newlin Place.	6.17.14	11:22am	912 978	39 30	231 240	0 6	03	1182 1257	66.0
M12-2	2 Newlin Place	6.18.14	12:58pm	1050 1038	45 72	159 246	3 6	3 3	1260 1365	56.2
M12-3	120 Heather Hill Dr	6.17.14	10:45am	894 969	54 60	225 252	3 0	6 0	1182 1281	62.8
M12-4	107 Heather Hill Dr	6.17.14	10:16am	1125 1026	45 27	219 339	3 15	12 3	1404 1410	62.5
M12-5	110 Heather Hill Dr	6.17.14	9:47am	879 933	57 69	189 255	6 39	0	1131 1296	66.4
M12-6	102 Heather Hill Dr	6.17.14	9:07am	1143 990	69 57	168 216	3 0	0	1383 1263	60.9
M13-1	301 Park Rd	6.17.14	8:28am	1494 1002	81 54	216 153	21 9	03	1812 1221	59.9

## Table 3.Sound Level Measurement Results

Site ID	Address of Measurement Site		Model Vali e Levels in d	
Number		Modeled Leq(h)	Measured Leq	Difference
M1-1	672 Greenridge Rd	67.3	67.2	0
M1-2	664 Greenridge Rd	63.6	62.6	1
M1-3	665 Greenridge Rd	62.1	58.7	3
M1-4	195 Styer Rd	71.2	70.3	1
M2-1	Marsh Creek State Park	57.6	57.8	0
M2-2	114 Shoreline Rd	61.8	61.4	0
M2-3	121 Shoreline Rd	49.6	51.1	-2
M2-4	121 Shoreline Rd	64.8	62.1	3
M3-1	200 Styer Rd	62.8	62.1	1
M3-2	46 Meadow Creek Ln	63.0	63.1	0
M3-3	47 Meadow Creek Ln	58.3	58.2	0
M3-4	38 Meadow Creek Ln	65.9	66.6	-1
M4-1	102 Edgefield Dr	63.3	60.7	3
M4-2	112 Edgefield Dr	56.4	56.7	0
M4-3	115 Edgefield Dr	53.0	51.6	1
M4-4	116 Edgefield Dr	66.6	63.6	3
M4-5	118 Edgefield Dr	66.9	63.8	3
M5-1	105 Wertz Lane	72.3	71.2	1
M5-2	103 Wertz Lane	66.6	66.3	0
M5-3	9 Blackhorse Circle	61.5	61.3	0
M5-4	102 Hoffman Circle	71.4	72.1	-1
M6-1	20 Green Valley Rd	63.2	59.8	3
M6-2	10 Green Valley Rd	64.0	60.9	3
M6-3	30 Green Valley Rd	61.8	60.6	1
M7-1	445 Milford Rd	55.6	56.7	-1
M7-2	435 Milford Rd	54.3	54.6	0
M8-1	Hickory Park Baseball Field	61.9	60.0	2
M8-2	Hickory Park Baseball Field	63.1	60.9	2
M9-1	1850 Rosenburger Lane	65.6	64.2	1
M10-1	750 Pennsylvania Dr. (Universal Technical Inst.)	66.2	63.5	3
M11-1	Undeveloped Parcel #1along Little Constoga Rd	62.2	59.9	2
M11-2	Undeveloped Parcel #36 along Little Constoga Rd	60.7	60.7	0
M12-1	6 Newlin Place.	66.8	66.0	1
M12-2	2 Newlin Place	56.6	56.2	0
M12-3	120 Heather Hill Dr	65.5	62.8	3
M12-4	107 Heather Hill Dr	61.7	62.5	-1
M12-5	110 Heather Hill Dr	66.6	66.4	0
M12-6	102 Heather Hill Dr	62.2	60.9	1
M13-1	301 Park Rd	60.9	59.9	1

	Table 4
NSA 1	<b>Noise Barrier Evaluation</b>

					Future No Ba	arrier (2046)		Future Ba	rrier (2046)	
NSA	Site ID	Number of Units	Existing 2013	Future No-Build 2046	Noise Levels	Increase Over Existing	Noise Levels	I.L.	Noise Levels	I.L.
	M1-1	1	68	71	74	6	71	3	69	5
	M1-2	1	64	66	68	5	67	1	64	4
	M1-3	1	64	67	68	4	68	1	67	1
	M1-4 1 71 74 74 3							Analyzed as	part of NSA 3	
NSA 1								6	62	11
	<b>R1-6</b> 1 59 62 64 5 64						0	63	1	
	<b>R1-7</b> 1 62 65 67				5	67	0	67	0	
	<b>R1-8</b> 1 <b>R1-9</b> 1		56	59	62	5	62	0	61	0
	R1-9	1	54	57	59	5	59	0	58	1
FHW	A TNM Data	a File	Existing 2013	Future No-Build 2046	Future Bu	uild 2046	NSA 1 Case 1	(5.5.15) NSA 1 (5 1: 14 ft Case 2:		
		SE ABATEN	IENT SYSTEM D	ETAILS:						
Barrier Area								16881		24116
Total Numbe	1	1						5		5
		ving $\geq$ 5 dBA						1	_	2
			$g \ge 5 \text{ dBA I.L.}$					20%	_	40%
			tion Criteria?					No		No
	<u> </u>	e receiving $\geq 1$	/					1		2
		<u> </u>	$(SF/BR) \le 2000$						4 4	
		SF/BR Stand			-					
-		for Benefited								
	0	at least one be		1206	4 6	1206				
Total Barrier Barrier Heigh	0		1206 14		20					
Average Barn	U V	+)						14	4 }	20
Average Ball	iei neigiit (I	U						14.0		20.0

dBA = Decibels on the A-weighted scale

Leq = Equivalent noise level

I.L. = Insertion Loss

All noise levels are calculated to the tenth of a dBA and rounded for presentation purposes to the nearest whole number. Impacted Receptors (Build noise levels  $\geq$  66 dBA)

## Table 5NSA 2 Noise Barrier Evaluation

					Future No Ba	arrier (2046)		Future Barrier (2046)						
NSA	Site ID	Number of Units	Existing 2014	Future No-Build 2046	Noise Levels	Increase Over Existing	Noise Levels	I.L.	Noise Levels	I.L.	Noise Levels	I.L.		
	M2-1	1	58	61	66	8	66	1	66	1	66	0		
	M2-2	1	60	63	69	9	67	2	66	2	69	0		
	M2-3	1	58	60	63	5	60	3	59	4	60	3		
	M2-4	1	66	69	70	4	62	8	61	9	63	7		
	R2-5	1	60	63	68	8	65	2	65	3	68	0		
NSA 2	R2-6	1	55	57	61	6	60	1	59	2	60	0		
1,011 =	R2-7	1	61	64	65	4	64	1	63	2	64	1		
	R2-8	1	61	64	67	6	63	4	61	6	62	5		
	R2-9	1	58	61	62	5	58	5	57	5	58	5		
	R2-10	1	54	57	62	8	60	1	60	2	61	1		
	R2-11	1	56	59	64	8	62	2	62	2	64	0		
	R2-12	1	61	64	66	5	59	7	58	8	60	6		
FHW	A TNM Dat	a File	Existing 2013	Future No-Build 2046	Future Bu	uild 2046		(5.5.15)         NSA 2 (5.5.15)         NSA 2 (5.5.15)           1: 12 ft         Case 2: 14 ft         Case 3: 14 ft			· · · · · · · · · · · · · · · · · · ·			
RECOMMI	ENDED NOI	SE ABATEM	IENT SYSTEM D	ETAILS:			<u></u>							
Barrier Area	$(ft^2)$							31894		37210		9660		
Total Numbe	er of Receptor	s Impacted						6		6		6		
		ving $\geq$ 5 dBA						2		3	] [	3		
Percent of In	npacted Recept	otors Receivin	$g \ge 5 \text{ dBA I.L.}$					33%		50%		50%		
		5 dBA Reduct						No		Yes		Yes		
		e receiving $\geq 5$						3		4	] ]	4		
	Square Footage per Benefited Receptor (SF/BR) $\leq$ 2000									9,303		2,415		
	Barrier Reasonable from a SF/BR Standpoint?									No	]	No		
	Average Noise Reduction for Benefited Receptors (dBA)										4 1			
	Is 7 dBA I.L.goal met for at least one benefited receptor?										4 1			
	Total Barrier Length (ft)									2658	1 1	722		
Barrier Heigh					12		14	4 1	10 to 14					
Average Bar	rier Height (fi	t)						12.0		14.0		13.4		

#### NOTES:

dBA = Decibels on the A-weighted scale

Leq = Equivalent noise level

I.L. = Insertion Loss

All noise levels are calculated to the tenth of a dBA and rounded for presentation purposes to the nearest whole number.

Impacted Receptors (Build noise levels  $\geq$  66 dBA)

Impacted Receptors Units Receiving  $\geq$  5 dBA I.L.

## Table 6NSA 3 Noise Barrier Evaluation

					Future No Ba	arrier (2046)			Future Bar	rier (2046)		
NSA	Site ID	Number of Units	Existing 2013	Future No-Build 2046	Noise Levels	Increase Over Existing	Noise Levels	I.L.	Noise Levels	I.L.	Noise Levels	I.L.
NSA 1	M1-4	1	71	74	74	3	67	7	65	10	64	10
	M3-1	2	63	66	71	8	66	5	64	7	61	10
	M3-2	1	61	64	72	11	71	1	71	1	70	2
	M3-3	1	60	63	66	6	65	1	65	1	64	2
	M3-4	1	67	70	71	4	70	1	70	1	70	1
	R3-5	2	64	67	73	9	70	3	68	5	65	7
NSA 3	R3-6	1	66	69	73	8	72	1	72	2	71	3
110110	R3-7	2	61	64	66	5	65	1	65	1	65	1
	R3-8	1	68	71	70	1	68	2	68	2	67	2
	R3-9	1	63	66	68	5	68	0	68	0	68	0
	R3-10	1	59	62	63	4	63	1	63	1	63	1
	R3-11	1	58	61	64	6	63	1	63	1	63	1
	R3-12	1	61	64	68	7	67	1	66	2	65	3
FHW	VA TNM Data	a File	Existing 2013	Future No-Build 2046	Future Bu	uild 2046		A 3 (5.5.15) NSA 3 (5.5.15) NSA 3 (2010) ase 1: 14 ft Case 2: 16 ft Case 3:				
		SE ABATEM	IENT SYSTEM D	ETAILS:								
Barrier Area								27055		30920		38651
Total Numbe	er of Receptor	s Impacted						14		14		14
		$ving \ge 5 \text{ dBA}$						3		5		5
	1 1		$g \ge 5 \text{ dBA I.L.}$					21%		36%		36%
		5 dBA Reduct						No		No		No
		e receiving $\geq 5$						3		5		5
			$(SF/BR) \le 2000$									
	Barrier Reasonable from a SF/BR Standpoint?											
			Receptors (dBA)					1 I				
	Is 7 dBA I.L.goal met for at least one benefited receptor?										1	
Total Barrier								1933		1933	1 I	1933
Barrier Heig	<b>-</b>				14		16	1	20			
Average Bar	rier Height (ft	t)						14.0		16.0		20.0

#### NOTES:

dBA = Decibels on the A-weighted scale

Leq = Equivalent noise level

I.L. = Insertion Loss

All noise levels are calculated to the tenth of a dBA and rounded for presentation purposes to the nearest whole number.

Impacted Receptors (Build noise levels  $\geq$  66 dBA)

Impacted Receptors Units Receiving  $\geq$  5 dBA I.L.

## Table 7NSA 4 Noise Barrier Evaluation

					Future No Ba	arrier (2046)		Future Ba	rrier (2046)	
NSA	Site ID	Number of Units	Existing 2013	Future No-Build 2046	Noise Levels	Increase Over Existing	Noise Levels	I.L.	Noise Levels	I.L.
	M4-1	1	64	67	68	4	66	2	69	0
	M4-2	1	59	62	62	3	60	3	61	2
	M4-3	1	57	59	60	3	58	2	58	2
	M4-4	1	67	69	72	5	64	7	65	7
	M4-5	1	69	71	73	4	67	6	68	5
	R4-6	1	62	64	65	4	63	3	66	0
	R4-7	1	59	61	62	4	59	3	61	1
	R4-8	1	58	61	62	4	59	3	61	1
	R4-9	1	61	63	64	4	61	3	62	3
NSA 4	R4-10	1	62	65	66	3	63	2	64	2
	R4-11	1	60	63	63	3	61	2	62	2
	R4-12	1	58	61	62	4	60	2	60	2
	R4-13	1	56	59	60	3	57	2	58	2
	R4-14	1	56	58	59	3	56	3	57	2
	R4-15	1	56	58	59	3	56	3	58	1
	R4-16	1	57	59	60	3	56	4	59	1
	R4-17	1	57	60	61	3	57	4	59	1
	R4-18	1	58	61	61	3	58	3	60	1
	R4-19	1	60	62	64	4	62	2	63	1
	A TNM Dat		Existing 2013	Future No-Build 2046	Future B	uild 2046	NSA 4 ( Case 1	· /	NSA 4 ( Case 2: 10 f	
Barrier Area		SE ABATEMI	ENT SYSTEM DE	TAILS:				20684		6434
	r of Receptors	s Impacted						4	<b>-</b>	4
		ving≥ 5 dBA I	T					2	4	2
		tors Receiving						50%	4 1	50%
		5 dBA Reducti						Yes	1 1	Yes
		receiving $\geq 5$						2	1 1	2
	1 .	ų	$SF/BR) \le 2000$					10,342	1 1	3,217
1	Ç I	SF/BR Standp	/					No	1 1	No
			Receptors (dBA)					110	1 1	110
Ų	goal met for a			1 1						
Total Barrier	ç		2068	1 1	883					
Barrier Heigh	5 ( )		10	1 1	4 to 10					
	ier Height (ft		10.0	1 1	7.3					

#### NOTES:

dBA = Decibels on the A-weighted scale

Leq = Equivalent noise level

I.L. = Insertion Loss

All noise levels are calculated to the tenth of a dBA and rounded for presentation purposes to the nearest whole number.

Impacted Receptors (Build noise levels  $\geq$  66 dBA)

Impacted Receptors Units Receiving  $\geq$  5 dBA I.L.

## Table 8NSA 5 Noise Barrier Evaluation

					Future No Ba	arrier (2046)			Future Ba	arrier (2046)		
NSA	Site ID	Number of Units	Existing 2013	Future No-Build 2046	Noise Levels	Increase Over Existing	Noise Levels	I.L.	Noise Levels	I.L.	Noise Levels	I.L.
	M5-1	1	73	76	77	4	67	10	67	9	68	9
	M5-2	1	67	70	72	5	64	9	65	8	66	6
	M5-3	1	62	65	67	5	60	7	61	6	64	3
	M5-4	1	72	75	77	5	62	15	69	8	77	0
	R5-5	1	69	72	73	3	65	8	68	5	68	5
NSA 5	R5-6	1	64	67	70	5	65	5	67	3	67	3
110/10	R5-7	1	62	65	67	5	63	4	65	3	65	2
	R5-8	1	71	73	75	4	67	8	68	7	68	7
	R5-9	1	65	68	71	5	64	7	65	6	66	5
	R5-10	1	62	65	67	5	63	5	64	4	64	3
	R5-11	1	61	64	64	3	60	5	62	2	64	0
	R5-12	1	63	65	66	4	65	2	66	0	67	-1
FHW	VA TNM Dat	a File	Existing 2013	Future No-Build 2046	Future B	uild 2046	NSA 5 ( Case 1				· /	
		SE ABATEM	IENT SYSTEM D	ETAILS:					-2		2	
Barrier Area								41698		22805		16455
-	er of Receptor	1						11		11		11
		iving $\geq$ 5 dBA						9	1	7		5
		ptors Receivin						82%	1	64%		45%
		5 dBA Reduc						Yes		Yes		No
		e receiving $\geq 5$						<u>10</u> 4,170		7		5
	Square Footage per Benefited Receptor (SF/BR)≤2000									3,258		
		a SF/BR Stand	1			No		No				
			Receptors (dBA)				1 I					
	<u> </u>	at least one be	enefited receptor?						1			
Total Barrier								2606	1	1721		1104
Barrier Heig						16	1	6 to 16		14 to 16		
Average Bar	rier Height (f	t)						16.0		13.3		14.9

#### NOTES:

dBA = Decibels on the A-weighted scale

Leq = Equivalent noise level

I.L. = Insertion Loss

All noise levels are calculated to the tenth of a dBA and rounded for presentation purposes to the nearest whole number.

Impacted Receptors (Build noise levels≥ 66 dBA)

Impacted Receptors Units Receiving≥ 5 dBA I.L.

## Table 9NSA 6 Noise Barrier Evaluation

					Future No Ba	arrier (2046)			Future Ba	arrier (2046)		
NSA	Site ID	Number of Units	Existing 2013	Future No-Build 2046	Noise Levels	Increase Over Existing	Noise Levels	I.L.	Noise Levels	I.L.	Noise Levels	I.L.
	M6-1	1	64	66	67	4	68	-1	68	-1	68	-1
NSA 6	M6-2	1	67	70	71	4	69	1	69	2	68	3
	M6-3	1	63	66	67	4	63	4	61	6	60	7
FHWA I NM Data File Existing 2013 Future Build 2046						ISA 6 (5.5.15)         NSA 6 (5.5.15)         NSA 6 (5.5.15)           Case 1: 10 ft         Case 2: 16 ft         Case 3: 20						
		SE ABATEN	IENT SYSTEM D	ETAILS:								
Barrier Area								7005		11208		14010
	er of Receptor	1						3		3		3
		$iving \ge 5 \text{ dBA}$						0		1		1
	-		ng≥5 dBA I.L.					0%		33%		33%
			ction Criteria?					No		No		No
		e receiving $\geq 5$	/					0		1		1
			(SF/BR)≤2000									
		a SF/BR Stand										
Average Noise Reduction for Benefited Receptors (dBA)												
Is 7 dBA I.L	.goal met for	at least one be	enefited receptor?									
Total Barrier	Length (ft)					700	] ]	700	]	700		
Barrier Heig						10	1 I	16	]	20		
Average Bar	rier Height (f	t)						10.0		16.0		20.0

#### NOTES:

dBA = Decibels on the A-weighted scale

Leq = Equivalent noise level

I.L. = Insertion Loss

All noise levels are calculated to the tenth of a dBA and rounded for presentation purposes to the nearest whole number.

Impacted Receptors (Build noise levels > 66 dBA)



Impacted Receptors Units Receiving  $\geq$  5 dBA I.L.

Table 10NSA 7 Noise Barrier Evaluation

					Future No Ba	arrier (2046)
NSA	Site ID	Number of Units	Existing 2013	Future No-Build 2046	Noise Levels	Increase Over Existing
NICA 7	M7-1 1		57	60	61	3
NSA 7	M7-2	1	57	60	60	3
FHW	A TNM Data	a File	Existing 2013	Future No-Build 2046	Future B	uild 2046

dBA = Decibels on the A-weighted scale

Leq = Equivalent noise level

I.L. = Insertion Loss

All noise levels are calculated to the tenth of a dBA and rounded for presentation purposes to the nearest wh

Imp Imp Not

Impacted Receptors (Build noise levels  $\geq$  66 dBA)

Impacted Receptors Units Receiving  $\geq$  5 dBA I.L.

Table 11NSA 8 Noise Barrier Evaluation

NSA					Future No Barrier (2046)			Future Barrier (2046)					
	Site ID	Number of Units	Existing 2013	Future No-Build 2046	Noise Levels	Increase Over Existing	Noise Levels	I.L.	Noise Levels	I.L.	Noise Levels	I.L.	
NSA 8	M8-1	4	66	69	65	-1	63	2	63	3	62	3	
INSA 0	M8-2	4	68	71	69	1	64	5	63	6	63	6	
FHWA TNM Data FileExisting 2013Future No-Build 2046Future Build 2046NSA 8 Case											NSA 8 (5.5.15) Case 3: 16 ft		
		SE ABATEM	IENT SYSTEM DI	ETAILS:									
Barrier Area								5065		6078		8105	
Total Numbe								8		8		8	
<u> </u>	*	$ving \ge 5 dBA$						4		4		4	
	1		$g \ge 5 \text{ dBA I.L.}$					50%		50%		50%	
Barrier Feasi								Yes		Yes		Yes	
Benefited Re	<b>.</b> .	-	· · · · · · · · · · · · · · · · · · ·					4		4		4	
	Square Footage per Benefited Receptor (SF/BR) $\leq$ 2000									1,520		2,026	
		SF/BR Stand	<b>A</b>					Yes		Yes		No	
Average Noise Reduction for Benefited Receptors (dBA)								5.2		5.7			
Is 7 dBA I.L.goal met for at least one benefited receptor?								No		No			
Total Barrier Length (ft)								507		507		507	
Barrier Height Range (ft)										12		16	
Average Barr	Average Barrier Height (ft)											16.0	

dBA = Decibels on the A-weighted scale

Leq = Equivalent noise level

I.L. = Insertion Loss

All noise levels are calculated to the tenth of a dBA and rounded for presentation purposes to the nearest whole number.

Impacted Receptors (Build noise levels  $\geq$  66 dBA)

Impacted Receptors Units Receiving  $\geq$  5 dBA I.L.

Table 12NSA 9 Noise Barrier Evaluation

		Number of Units	Existing 2013	Future No-Build 2046	Future No Ba	arrier (2046)		Future Barrier (2046)						
NSA	Site ID				Noise Levels	Increase Over Existing	Noise Levels	I.L.	Noise Levels	I.L.	Noise Levels	I.L.		
NSA 9	M9-1	1	66	69	72	5	63	9	64	8	65	7		
FHWA TNM Data FileExisting 2013Future No-Build 2046Future Build 2046NSA 9 (5.5.7) Case 1: 10								. ,	NSA 9 (5.5.15) Case 2: 8 ft		NSA 9 (5.5.15) Case 3: 8 ft Optimized			
		SE ABATEM	ENT SYSTEM DI	ETAILS:										
Barrier Area								9004		7204		3815		
Total Numbe	1	1						1		1		1		
Impacted Rec	ceptors Receiv	$ving \ge 5 \text{ dBA}$	I.L.					1		1		1		
Percent of Im	pacted Recep	otors Receivin	$g \ge 5 \text{ dBA I.L.}$					100%		100%		100%		
Barrier Feasil	ble Based on	5 dBA Reduct	tion Criteria?					Yes		Yes		Yes		
Benefited Re	ceptors (those	e receiving $\geq 5$	5 dBA I.L.)					1		1		1		
Square Foota	ge per Benefi	ted Receptor	$(SF/BR) \le 2000$					9,004		7,204		3,815		
Barrier Reaso	Barrier Reasonable from a SF/BR Standpoint? No									No		No		
Average Nois	Average Noise Reduction for Benefited Receptors (dBA)													
Is 7 dBA I.L.goal met for at least one benefited receptor?														
Total Barrier Length (ft) 900									900		602			
Barrier Height Range (ft) 10								10		8		4 to 8		
Average Barrier Height (ft) 10.0										8.0		6.3		

dBA = Decibels on the A-weighted scale

Leq = Equivalent noise level

I.L. = Insertion Loss

All noise levels are calculated to the tenth of a dBA and rounded for presentation purposes to the nearest whole number.

Impacted Receptors (Build noise levels  $\geq$  66 dBA)

Impacted Receptors Units Receiving  $\geq$  5 dBA I.L.

Table 13NSA 10 Noise Barrier Evaluation

		Number of		Future No Duild	Future No Barrier (2046)		
NSA	Site ID	Number of Units	Existing 2013	Future No-Build 2046	Noise Levels	Increase Over Existing	
NSA 10	M10-1	1	68	71	70	2	
INSA 10	R10-2	1	65	67	68	4	
FHW	FHWA TNM Data File Existing 2013		Existing 2013	Future No-Build 2046	Future B	uild 2046	

dBA = Decibels on the A-weighted scale

Leq = Equivalent noise level

I.L. = Insertion Loss

All noise levels are calculated to the tenth of a dBA and rounded for presentation purposes to the nearest wh

### Table 14NSA 12 Noise Barrier Evaluation

			Existing 2013	Future No-Build 2046	Future No Barrier (2046)			Future Barrier (2046)						
NSA	Site ID	Number of Units			Noise Levels	Increase Over Existing	Noise Levels	I.L.	Noise Levels	I.L.	Noise Levels	I.L.	Noise Levels	I.L.
	M12-1	1	67	70	72	5	70	2	68	4	67	5	67	5
	M12-2	1	58	60	61	4	61	1	60	1	60	2	61	1
	M12-3	1	66	69	71	5	67	4	66	5	65	6	65	6
	M12-4	1	61	64	66	5	64	2	64	3	63	3	63	3
	M12-5	1	67	70	72	5	67	5	64	7	62	10	62	10
	M12-6	1	63	66	67	4	66	1	66	1	65	2	66	1
	R12-7	1	67	70	71	4	71	1	70	1	70	2	74	-3
	R12-8	1	62	65	67	4	67	0	66	1	66	1	67	0
	R12-9	1	60	62	64	5	64	0	64	1	63	1	64	0
	R12-10	1	61	64	65	4	65	0	64	1	62	2	63	2
	R12-11	1	65	67	68	4	66	2	65	4	63	6	63	6
	R12-12	1	60	63	63	3	62	2	61	3	59	4	60	4
	R12-13	1	69	72	71	2	64	6	63	7	63	8	63	8
NSA 12	R12-14	1	63	66	65	2	61	4	60	5	60	6	60	6
NSA 12	R12-15	1	59	62	62	3	60	3	58	4	58	5	58	5
	R12-16	2	59	62	63	4	61	2	61	2	60	3	60	3
	R12-17	1	65	67	70	6	67	3	67	4	66	5	66	5
	R12-18	1	68	71	73	5	69	4	68	5	66	7	66	7
	R12-19	2	67	69	71	5	66	6	64	7	62	9	62	9
	R12-20	1	67	69	71	5	67	4	67	5	63	8	64	8
	R12-21	1	67	70	71	4	68	3	67	4	66	5	67	5
	R12-22	1	60	62	64	4	62	2	62	2	61	3	62	2
	R12-23	1	61	63	65	4	63	2	63	2	62	3	62	3
	R12-24	1	61	63	65	4	63	2	63	3	60	5	60	5
	R12-25	1	58	60	62	4	60	2	60	2	58	3	59	3
	R12-26	1	60	62	64	4	61	2	61	3	58	6	58	6
	R12-27	1	60	62	64	5	63	2	62	2	61	3	61	3
	R12-28	1	58	61	62	4	61	2	60	2	60	3	60	3
FHW	VA TNM Dat	a File	Existing 2013	Future No-Build 2046	Future Bu	uild 2046	NSA 12 ( Case 1	· /	NSA 12 ( Case 2	· · · · · · · · · · · · · · · · · · ·	NSA 12 ( Case 3	· · · · ·	NSA 12 ( Case 4: 14 f	
		SE ABATEM	ENT SYSTEM DI	ETAILS:										
Barrier Area								26270	1 1	31524	1 7	36778		29803
Total Numbe	er of Receptor	rs Impacted						15		15		15		15
Impacted Red	ceptors Recei	iving $\geq 5 \text{ dBA}$	I.L.					4		7		11		11
Percent of Im	pacted Recep	ptors Receivin	$g \ge 5 \text{ dBA I.L.}$					27%		47%		73%		73%
Barrier Feasi	ble Based on	5 dBA Reduc	tion Criteria?					No	] [	No		Yes		Yes
Benefited Receptors (those receiving $\geq$ 5 dBA I.L.)								4		8		15		15
Square Footage per Benefited Receptor (SF/BR) ≤ 2000									JÍ			2,452		1,987
Barrier Reasonable from a SF/BR Standpoint?									ן ך		]	No	]	Yes
Average Noise Reduction for Benefited Receptors (dBA)									1 [		1		1	6.1
Is 7 dBA I.L.goal met for at least one benefited receptor?								1 [				1	Yes	
Total Barrier Length (ft)								2627	1 1	2627	1	2627	1	2210
Barrier Heigh								10	1 1	12		14	1	10 to 14
•	rier Height (fi	t)						10.0	1 1	12.0	1	14.0	1	13.5
ž	Į,												Recomm	nended

NOTES:

dBA = Decibels on the A-weighted scale

Leq = Equivalent noise level

I.L. = Insertion Loss

All noise levels are calculated to the tenth of a dBA and rounded for presentation purposes to the nearest whole number.

Impacted Receptors (Build noise levels  $\geq$  66 dBA)

Impacted Receptors Units Receiving  $\geq$  5 dBA I.L.

Table 15NSA 13 Noise Barrier Evaluation

			Number of		Future No Duild	Future No Barrier (2046)			
NS	SA	Site ID	Number of Units	Existing 2013	Future No-Build 2046	Noise Levels	Increase Over Existing		
NSA	A 13	M13-1	1	62	64	65	3		
	FHWA TNM Data File Existing 2013		Future No-Build 2046	Future Bu	uild 2046				

dBA = Decibels on the A-weighted scale

Leq = Equivalent noise level

I.L. = Insertion Loss

All noise levels are calculated to the tenth of a dBA and rounded for presentation purposes to the nearest who

# FIGURES

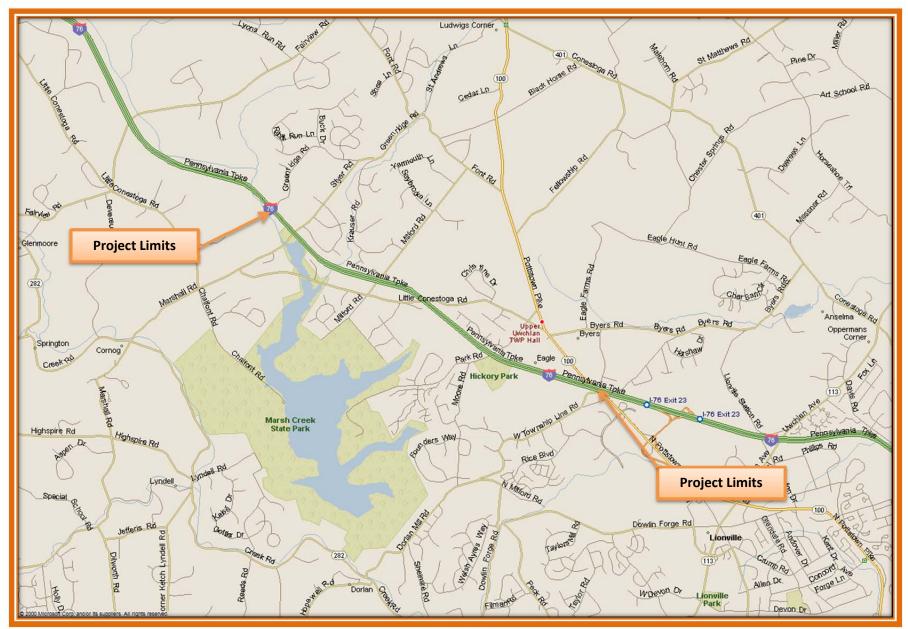
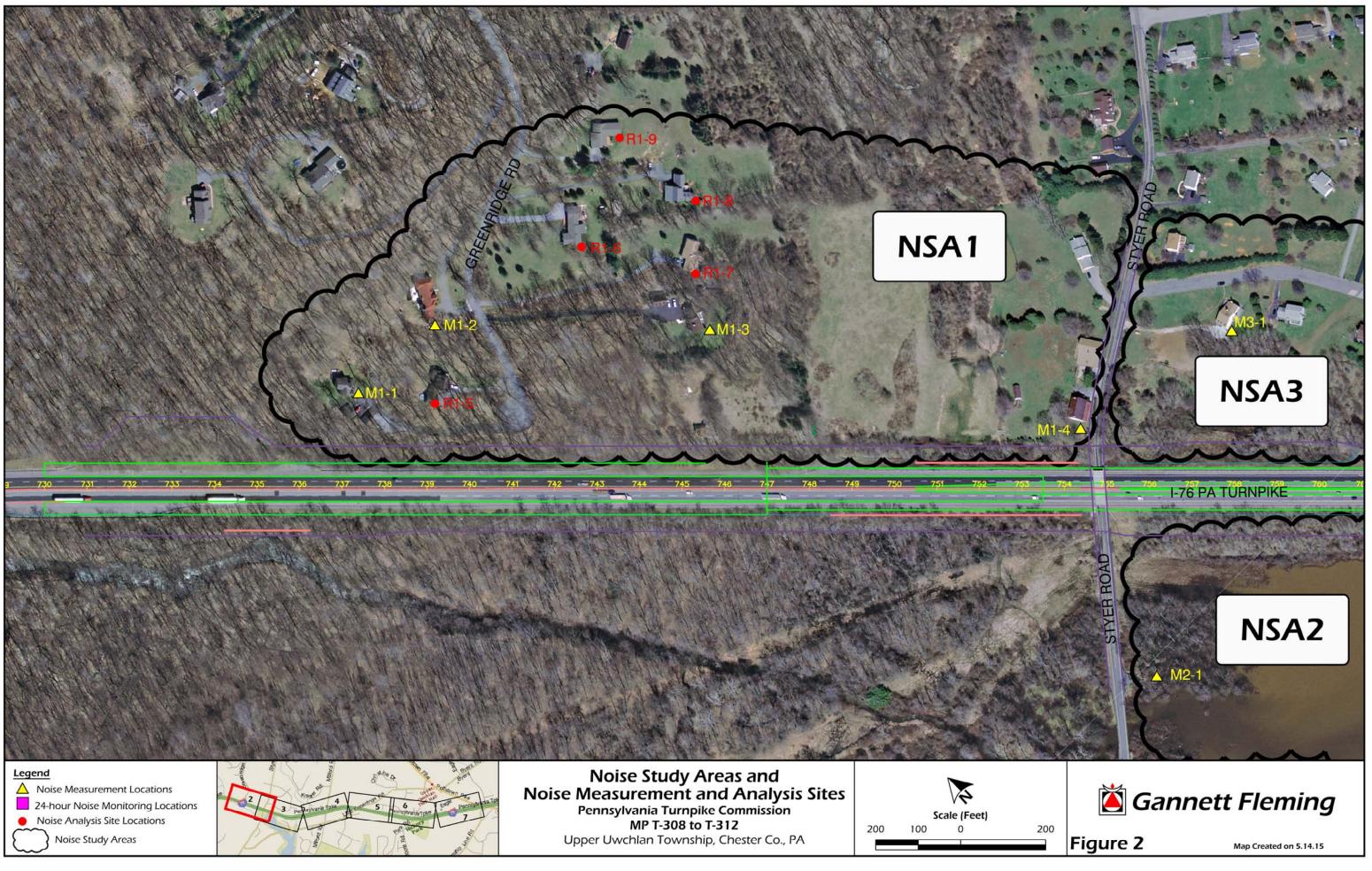
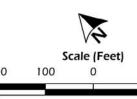
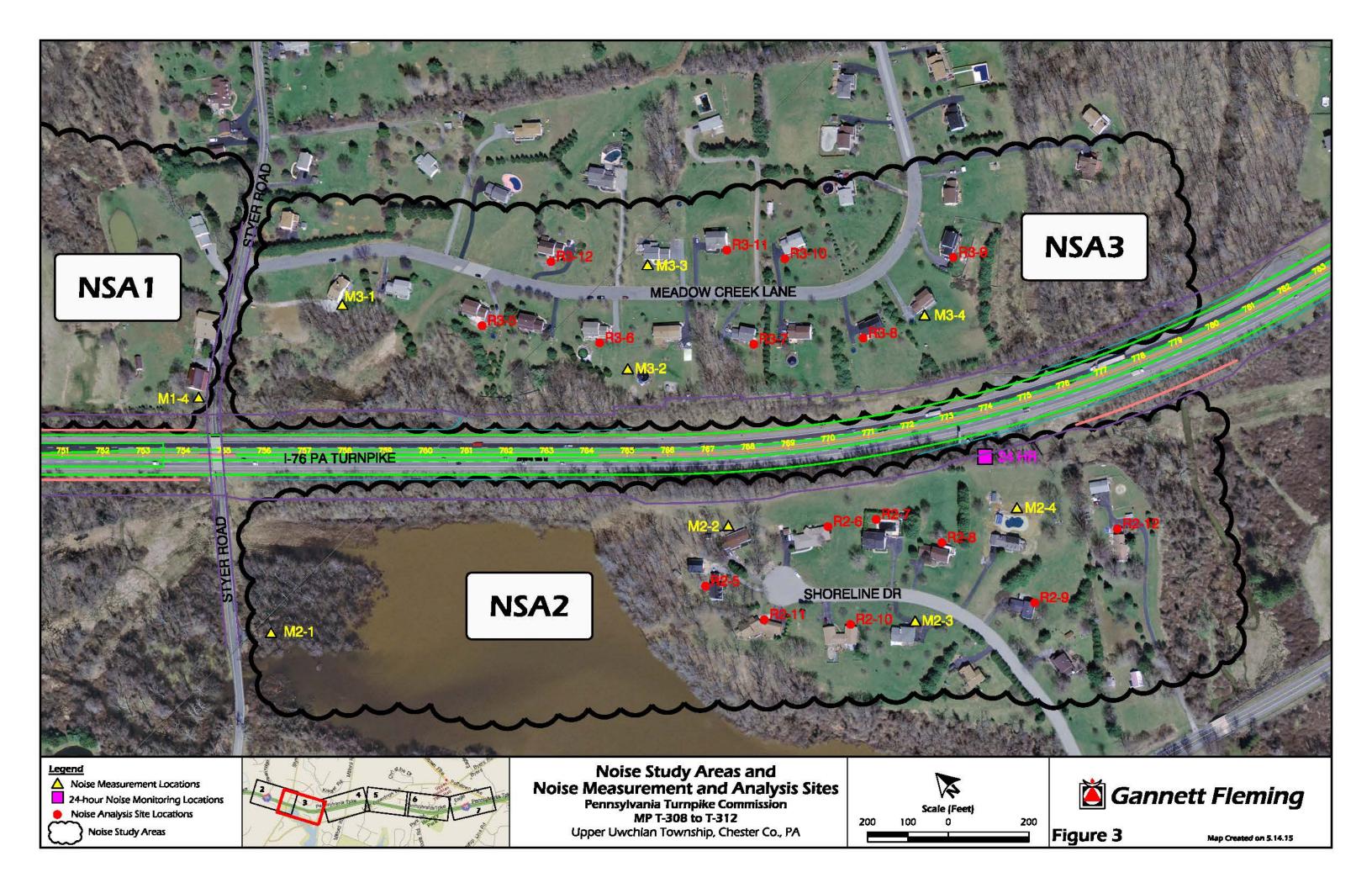


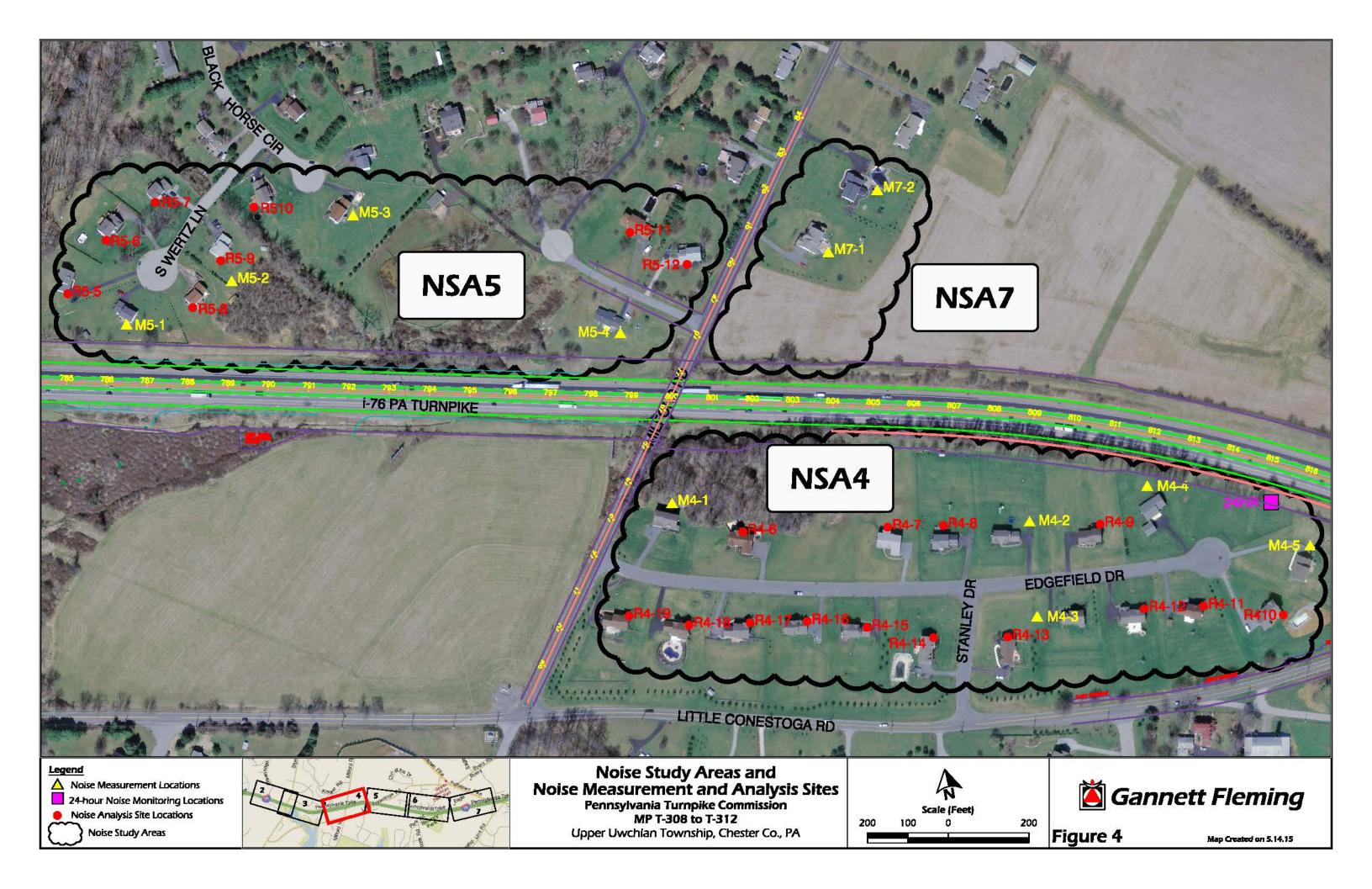
FIGURE 1 Project Location Map PA Turnpike MP 308-312 Chester County

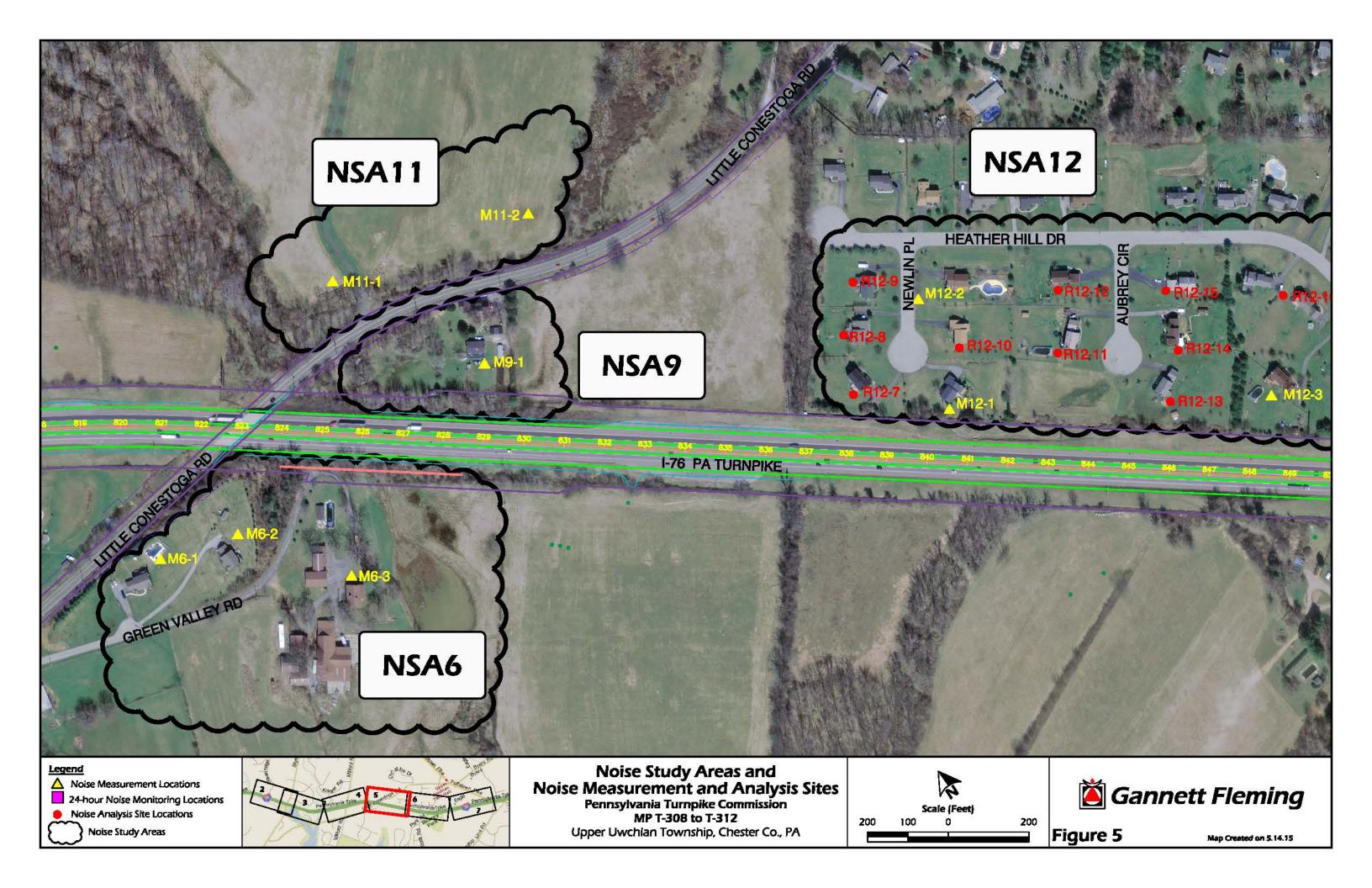


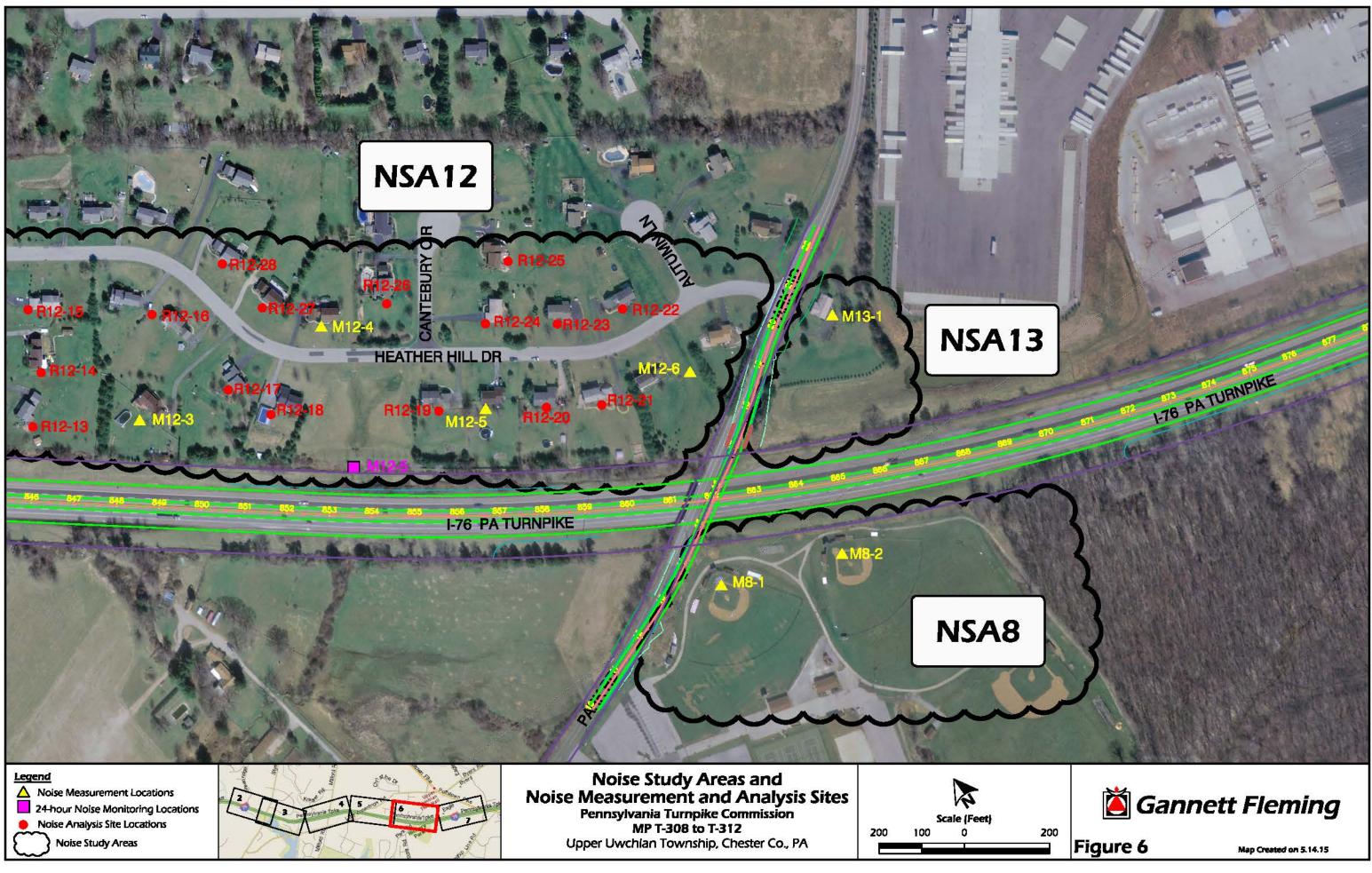






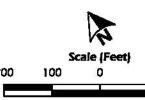


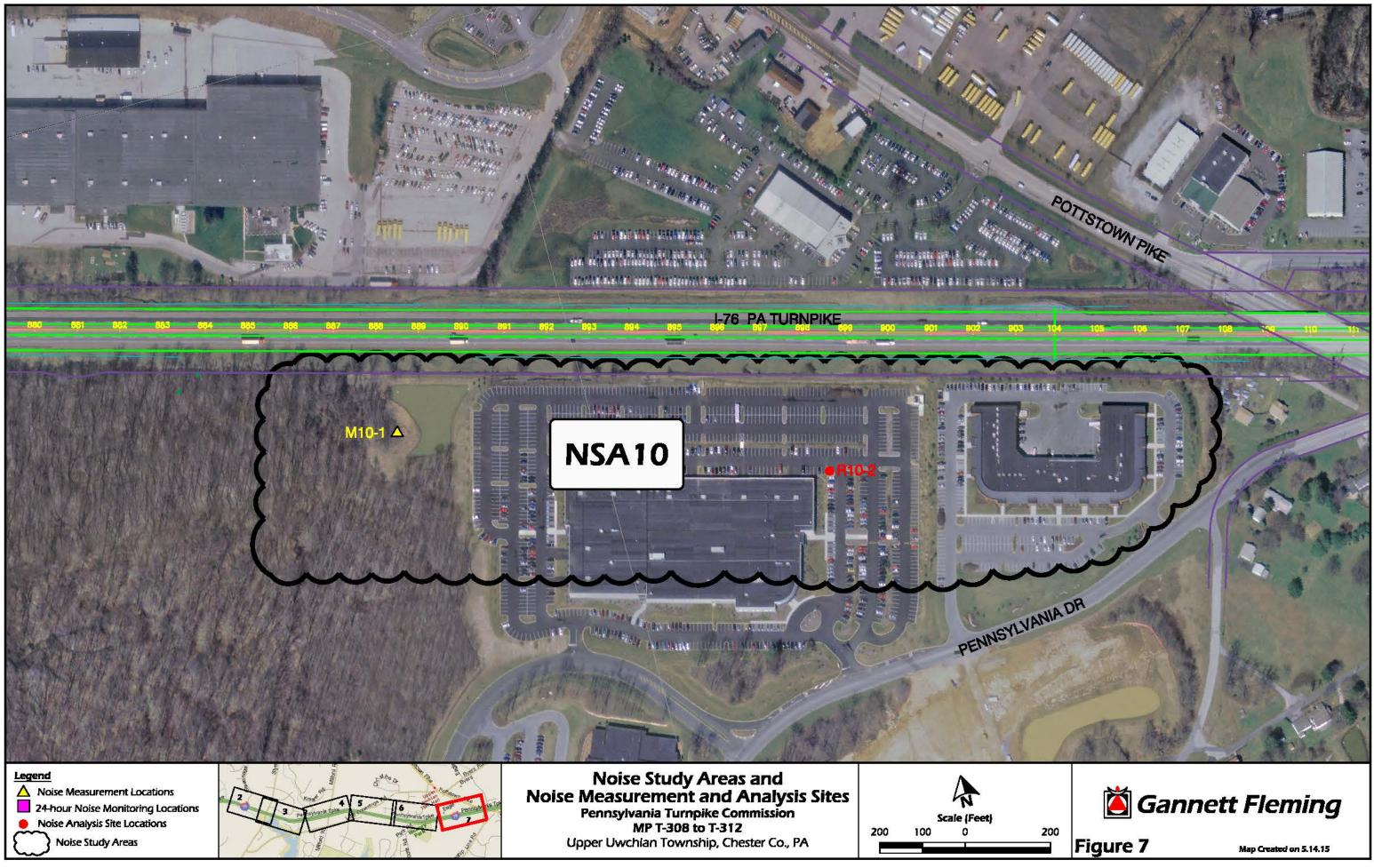




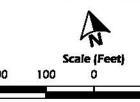


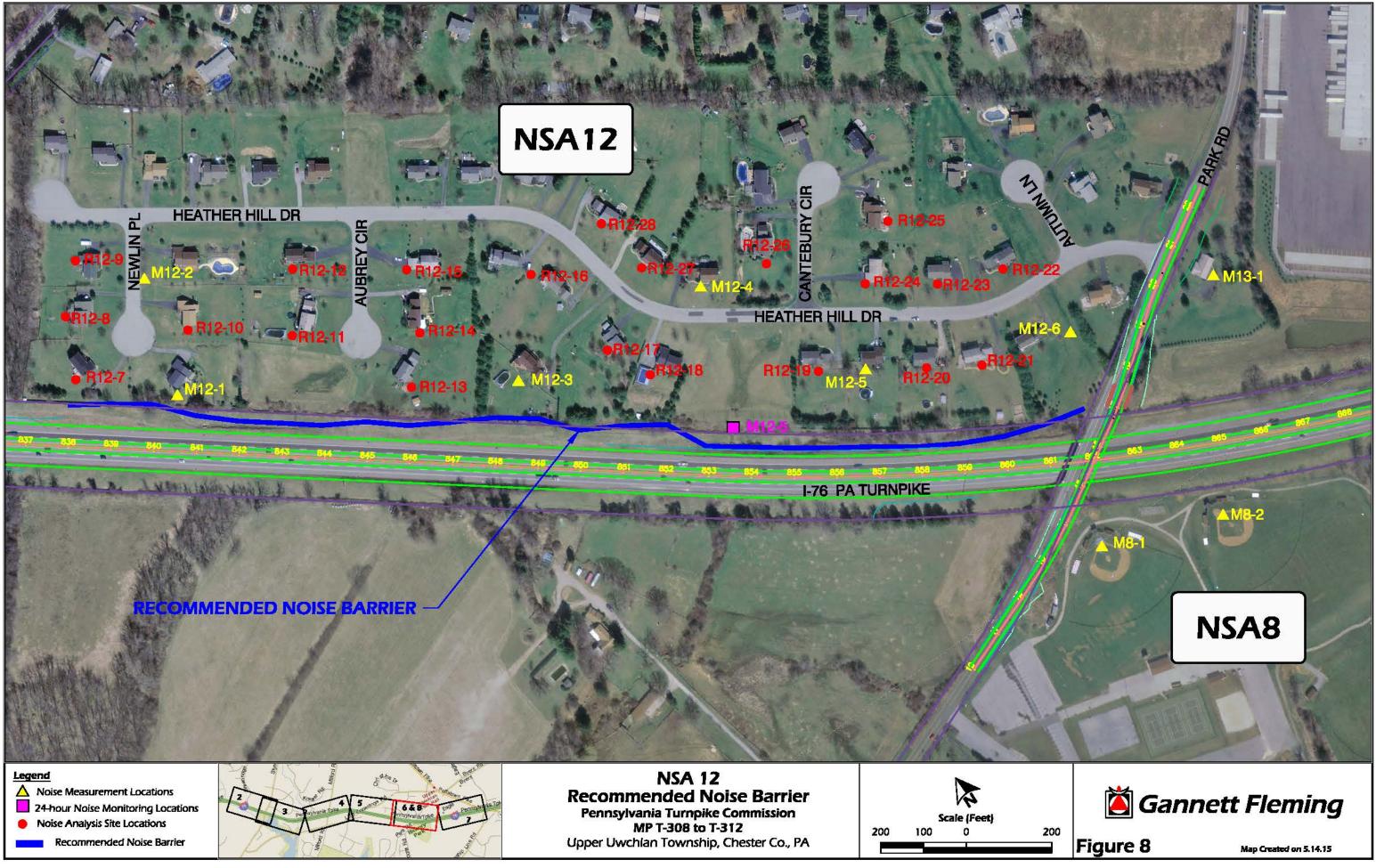




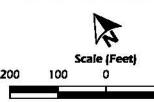












## **APPENDIX** A

## Short-term Measurements Field Data Sheets

DATE: <u>6</u> PROJECT: ]		10.2. 2	7				ADDRES	GREENBEDG	40
JOB # _0	Normal March Sciences					X	<u>v 165</u>		
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leasure	ment I	Data				Pho	tograph #'s _		
SLM Caliba	ration	before	94.0	efter				GPS PT _	1
Weather:		temper	nature _ S	20	wind speed	6-5	cloud cover	6	
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NOB #	10B #Stable Stable St	# <u>184</u> PT
Barneling. inc.     Meter Storage # 184       TYPE ID Residential Commercial Religion Educational Other     Other       feasurement Data     Photograph #'s       feasurement Data     Photograph #'s       SIM NO SIM Calibration before QUO after     GPS PT       feather:     tamperature SH     wind speed       SIM start     stop     total       Data:     1st     stop       Chart     stop     total       Data:     1st     stop       Chart	STTE ID       Model       Meter Storage         CYPE       Residential       Commercial       Religion       Educational       Other         Measurement Data       Photograph #'s	PT
Barneling. inc.     Meter Storage # 184       TYPE ID Residential Commercial Religion Educational Other     Other       feasurement Data     Photograph #'s       feasurement Data     Photograph #'s       SIM NO SIM Calibration before QUO after     GPS PT       feather:     tamperature SH     wind speed       SIM start     stop     total       Data:     1st     stop       Chart     stop     total       Data:     1st     stop       Chart	STTE ID       Model       Meter Storage         CYPE       Residential       Commercial       Religion       Educational       Other         Measurement Data       Photograph #'s	PT
FYPE       [2] Residential       Commercial       Religion       Educational       Other         deasurement Data       Photograph #'s	TYPE       Residential       Commercial       Religion       Educational       Other	PT
deasurement Data       Photograph #'s         SLM NO.       SLM Celibration before QU(O) after	Measurement Data       Photograph #'s         SLM NO.       SLM Celibration       before       QU.C.       after       GPS         Meather:       temperature       SUI       wind speed       G.S.       about cover_D       GPS         Fime:       1st       start       Q144       stop       dotsl       GPS         Pime:       1st       start       Q144       stop       dotsl       GPS         Data:       1st       lang       53.42       stell       SEL	PT
SLM NO.       SLM Calibration before QU.C.       star       GPS PT         Meather:       tamperature SH       wind speed       G-S       aloud cover O         Meather:       tamperature SH       wind speed       G-S       aloud cover O         Phree:       1st       start       stop       total	SLM NO.     SLM Calibration     before     QU.C.     after     GPS       Weather:     temperature     S <sup>1</sup> wind speed     G · S <sup>2</sup> aloud cover     O       Fime:     1st     start     Q1 · Q     after     O       Pime:     1st     start     Q1 · Q     aloud cover     O       Pime:     1st     start     Q1 · Q     total	PT
Sink Collection       Beter       Beter       Beter         Meether:       tampersture       Still       wind speed       A · S       aloud cover S         Pinne:       1st       start       2144       stop       total	Sha Cellipretion       Detors       Avec       atter         #seather:       temperature       Still       wind speed       G · S about cover         Filme:       1st       start        total          Znd       start        stop        total          Data:       1st       Leq        total        SEL          Cata:       1st       Leq        Imax       G3 &       Imin       SEL          Fraffic       Data	
Note:       temperature       Still       wind speed       G. S       aloud cover_D         Nune:       1st       start       2144       stop       total	Meether:       tamperature       Still       wind speed       G.5       about cover_D         Cime:       1st       start       2144       stop       total	
Filme:       1st       start	Filme:       1st       start       2144       stop       total         2nd       start       stop       total	
Data:       1st       Lag       58.7       Lanax       1amin       53.72       SEL       29.5         Praffic Data       Ianax       1amin       SEL	Data: 1st Loq <u>58.71</u> Lmax <u>63.22</u> Lmin <u>53.72</u> SEL <u>2</u> 2nd Loq Lmax Lmin <u>53.72</u> SEL <u>2</u> Fraffic Data Roadway#1 <u>PATP</u> Roadway#2 <u>PATP</u> Roadway#3 <u>Road</u> Direction <u>UB</u> Direction <u>Direction</u> Direction	<u>کې و</u> ر
Zhid     Log     Lamax     Lamin     SEL       Fraffic Data     Koadway#1     PATP     Koadway#2     PATP       koadway#1     PATP     Koadway#2     PATP       birection     G     Direction     Direction       ist     2nd     auto     ist       auto     3577     auto     1st       auto     3577     auto     auto       ist     2nd     auto     ist       auto     1st     2nd     auto       ist     2.0     auto     ist       ist     2.0     mod. trix     1.3       ist     2.3     hry trix     hry trix       istoroyole     2     motoroyole     motoroyole	Znd     Leq     Lmax     Lmin     SEL       Fraffic Data       toadway#1 <i>PATP</i> Roadway#2 <i>PATP</i> Roadway#3 <i>Roadway#3 Birection UCB</i> Direction <i>Direction Direction Direction</i>	<u>89.5</u>
Praffic Data       Data         toadway#1       PATP       Boadway#2       PATP       Boadway#3       Boadway#3       Boadway#4         threetion       GB       Direction       UG       Direction       Direction       Direction         auto       3577       2nd       auto       1st       2nd       auto       1st       2nd         ned. trik.       15       med. trik.       13       med. trik.       med. trik.       1st       2nd         net.       15       med. trik.       13       med. trik.       1st       2nd       1st       2nd         net.       15       med. trik.       13       med. trik.       1st       2nd       1st       2nd       1st       2nd	Fraffic Data Kondwny#1 <u>PATP</u> Rondwny#2 <u>PATP</u> Rondwny#3 Rond Wrection <u>EB</u> Direction <u>WB</u> Direction Direct	
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Iffection       Iffection       Iffection       Direction       Direction         1st       2nd       auto       1st       2nd       auto       1st       2nd         acto       3577       mod. trik.       13       mod. trik.       1st       auto       auto       1st       2nd         acto       157       mod. trik.       13       mod. trik.       mod. trik.       mod. trik.       mod. trik.       1st       auto       auto       1st       auto       1st       auto       auto       auto       auto       auto       auto       auto       auto	irection <u>EB</u> Direction <u>WB</u> Direction Direct	
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PROJECT:       PATP - 30P - 312       Image: file       Image: fi	
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Photograph #'s	1
Photograph #'s	
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Lat NO.       SLA CALIDRALIDA       Server       QCS	
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2nd       stort       stop       total	
ata:       1st       Leq $57.\%$ Lmox $(44-7)$ Lmin $51.7$ SEL $28.5$ raffic Data	
2nd       Leq       Imax       Imin       SEL	
Praffic Data       Still if       Part P       Readway#2       Part P       Readway#3       Still if       Readway#3       Mark P       Readway#4       Part P       Readway#3       Mark P       Readway#4       Mark P       Readway#4       Mark P       Readway#3       Mark P       Readway#4       Mark P       Readway#3       Mark P       Readway#4       Mark P	
Coadway#1       PATP       Roadway#2       PATP       Roadway#3       Stift       Roadway#3       T       Roadway#3       T       Direction       Direction       Direction       Direction       Direction       Ist       2nd       Ist       2nd       Ist       2nd       Ist       2nd       Ist       2nd       Ist       2nd       Ist       Ist <t< td=""><td></td></t<>	
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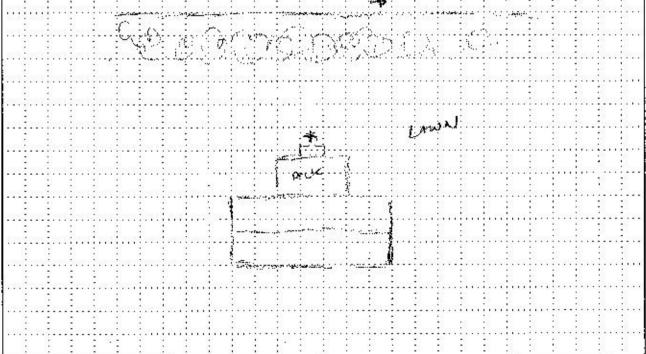
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Highway Noise Monitoring Sheet

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TYPE       GP Residential       Commercial       Religion       Educational       Other         deasurement Data       Photograph #'s         SIM Calibration       before       94.0       atter         SIM Calibration       before       94.0       atter       GPS PT	SAN NE CONTRACTO	NO CONTRACTO	500			Meter St	orage #	187
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Har California Constraints 95 wind speed 6-5 cloud cover	leasuremen	t Data			Ph	otograph #'s		
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Highway Noise Monitoring Sheet

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| SITE ID                            | m4-2                 | <u> </u>          |                    |                | FIRMUR'           | - 19 <b>1</b>          | Meter           | Storage #              | Yo Y   |
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|                                    |                      |                   | Ξ.                 |                |                   |                        |                 |                        |        |
| deasure                            | 3032                 |                   |                    |                | A. 4 -            |                        |                 | GPS PT _               |        |
| SLM NO.                            | a <u>.</u> 2         |                   | M Calibratio       |                |                   |                        | 2 10 223        |                        |        |
| Weather:                           |                      | tempe             | rature             |                |                   |                        |                 | r                      |        |
| lime:                              | 1st                  | start             | 4:55               |                |                   | total                  |                 |                        |        |
| Data:                              | 2nd<br>1st           | start             | 7.23               | Imaz           | (1.8              | Lmin                   | 51.2 1          | षाः <u>६२.5</u>        |        |
| Dana.                              | 2nd                  | Leg               |                    | Louit          | _                 | Lonin                  |                 |                        |        |
| Traffic                            | Data                 | 10005 <b>-</b> 13 |                    |                |                   |                        |                 |                        |        |
|                                    |                      | -0                |                    | De-            | P                 | n                      |                 | Bandungeld             |        |
| Roadway <b></b> ∳1                 | _PAT<br>EB           |                   |                    | WB             |                   | Readway 3<br>Direction |                 | Hondwayse<br>Direction |        |
| Direction                          |                      | 2nd               | Pileotion          | 1st            | and               |                        | let 2nd         |                        | 1st 2a |
| auto                               |                      |                   | otea               | 672            |                   | anto                   |                 | auto<br>med. trk.      |        |
| med. trk.                          | -17                  | <u> </u>          | med. trk.          | 41             |                   | med. trk.<br>hvy trk.  | 678.0           | hvy tric.              |        |
| hvy trk.                           | 32                   | <u> </u>          | hey tric.          |                | <u> </u>          | bum                    |                 | bus                    |        |
|                                    | 2                    |                   | house              |                | - 57 - 102 - 102  |                        |                 |                        |        |
| bus<br>motoroyola                  | _3_<br>              |                   | bas<br>protorcycle | <u>2</u><br>_3 |                   | motoroyole             | ·               | motorayale             | •      |
| bus                                | 0                    |                   |                    |                |                   | motoroyole             | ·               | motorayale             | •      |
| bus<br>motoroyals<br><u>NOTES:</u> | 0                    |                   |                    |                |                   | motoroyole             |                 | motorayale             |        |
| bus<br>motoroyals<br><u>NOTES:</u> | 0                    |                   |                    |                | TP                | motorcycle             |                 | motorayale             |        |
| bus<br>motoroyals<br><u>NOTES:</u> | 0                    |                   |                    |                |                   |                        |                 | motorayale             |        |
| bus<br>motoroyals<br><u>NOTES:</u> | 0                    |                   |                    |                | TP.               |                        |                 |                        |        |
| bus<br>motoroyals<br><u>NOTES:</u> | 0                    |                   |                    |                |                   |                        |                 | motorayala             |        |
| bus<br>motoroyals<br><u>NOTES:</u> | 0                    |                   |                    |                |                   |                        |                 |                        |        |
| bus<br>motoroyals<br><u>NOTES:</u> | 0                    |                   |                    |                |                   |                        |                 | motorayala             |        |
| bus<br>motoroyals<br><u>NOTES:</u> | 0                    |                   |                    |                |                   |                        |                 |                        |        |
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| bus<br>motoroyals<br><u>NOTES:</u> | 0                    |                   |                    |                |                   |                        |                 |                        |        |
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| bus<br>motoroyals<br><u>NOTES:</u> | 0                    |                   |                    |                |                   |                        |                 |                        |        |

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| NOB # SteSt 5. [1] S1       Stempti Premise, inc.       Meter Storage # 388         STE ID // 4 - 3       Photograph #'s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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    ·         ·         ·         ·         ·         ·         ·         ·         ·           ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         ·         · | , ,<br>, ,<br>, , , , , , , , , , , , , , , ,                     | · · · · · · · · · · · · · · · · · · ·                                                         | x + t<br>y + t<br>x + t<br>x + t + t + t<br>x + t + t + t + t + t                                               |                                                                                                                             |                                                                                                                  | · · · · · · · · · · · · · · · · · · ·   | 4 4<br>4 5<br>7 5<br>1 4 4<br>1 4 4 4 4 | •<br>•<br>• • • • •                   |
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## Highway Noise Monitoring Sheet

| ATE:                                        | 6-16-                                  | 14             |                               |                |                    | 2                 |          |          | 3:               |       | 332 |
|---------------------------------------------|----------------------------------------|----------------|-------------------------------|----------------|--------------------|-------------------|----------|----------|------------------|-------|-----|
| ROJECT:                                     | PATP-                                  | - 308 -        | 512                           |                |                    |                   |          | 114 8    | Encrefie         | ld Dr | 2   |
| ов <u># О</u>                               | 5658                                   | 3. HS          | 1                             |                |                    |                   |          |          |                  |       | 32  |
| tre id j                                    | the state of the state                 |                |                               |                | Gannel<br>Fleming, |                   | W.       | eter Sto | rage # _         | 176   |     |
| eressa - reciterativ                        | -1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 | 5/2            |                               |                |                    |                   |          |          |                  |       |     |
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| leasure                                     | ment 1                                 | Data           |                               |                |                    | Phe               | otograph | #'s      |                  |       |     |
|                                             |                                        |                | Qu i A                        | 10-210.001     |                    |                   |          |          | GPS PT           |       |     |
| IM Calib                                    | ration                                 |                | <u>-94.0</u> '                | 2022230        |                    |                   |          |          |                  |       |     |
| Venther:                                    | 222                                    |                | ature <u>54</u>               |                |                    |                   |          |          | 7.57 25          |       |     |
| ime:                                        | 1st<br>2nd                             | start          | 10118                         | stop .<br>stop | 10                 |                   | 20       |          |                  |       |     |
| Date:                                       | 1st                                    |                | 63,6                          |                | 69.4               |                   | 53.4     | SEL      | 94,4             |       |     |
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| <b>Fraffic</b>                              | Data                                   | 000.71 0       |                               |                |                    |                   |          |          |                  |       |     |
|                                             | 000000000                              | <u>11</u> 49   |                               | <b>A</b> .     | 0                  |                   |          |          |                  |       |     |
| loadwey#1 _                                 |                                        |                | Roadway#2                     | PAT            |                    | Roadway#3         |          | 0        | Rondway          | -     | 0   |
| irection _                                  | EB                                     | 2nd            | Direction                     | 2013 (V2C)     | 2<br>2nd           | Direction         | <br>1st  | 2nd      | Direction        | 1st   | 27  |
| uto _                                       | 1et<br>336                             | anu            | auto                          | 151            |                    | euto              |          |          | auto             |       |     |
| ned. trk                                    | 13                                     |                | med. trk.                     | 16             |                    | med. trk.         |          | 175      | med. trk.        |       |     |
|                                             | 2                                      |                |                               |                |                    |                   |          |          |                  |       |     |
| wy trk.                                     | 80                                     |                | hvy trk.                      | 104            | -                  | hvy trk.          |          |          | hvy trk.         | -     |     |
| us<br>iotorcycle                            | 80<br>0<br>1                           |                |                               | 0<br>_/        | <br>:ځ: ایدلو      | bus<br>motorayale | 63       | B · 4(5) | bus<br>motorcyci | 13    |     |
| NUS<br>notorcycle<br>NOTES: <sup>4</sup> h  | 80<br>0<br>1                           |                | hvy trk.<br>bus<br>motorcycle | 0<br>_/        | :5:56              | bus<br>motorayale | 63       | B · 7(5) | bus<br>motorcyci | 13    |     |
| NUS<br>notorcycle<br>NOTES: <sup>(1</sup> ) | 80<br>0<br>1                           |                | hvy trk.<br>bus<br>motorcycle | 0<br>_/        | :5:5(g             | bus<br>motorayale |          |          | bus<br>motorcyci | 13    | -   |
| NUS<br>notorcycle<br>NOTES: <sup>(1</sup> ) | 80<br>0<br>1                           |                | hvy trk.<br>bus<br>motorcycle | 0<br>_/        | :5:5(e,            | bus<br>motorayale | 63       |          | bus<br>motorcyci | 13    |     |
| NUS<br>notorcycle<br>NOTES: <sup>(1</sup> ) | 80<br>0<br>1                           | - EB           | hvy trk.<br>bus<br>motorcycle | 0<br>_/        | :5; þ(g            | bus<br>motorayale |          |          | bus<br>motorcyci | 13    |     |
| NUS<br>notorcycle<br>NOTES: <sup>4</sup> h  | 80<br>0<br>1                           |                | hvy trk.<br>bus<br>motorcycle | 0<br>_/        | :5; 5(e,           | bus<br>motorayale |          |          | bus<br>motorcyci | 13    |     |
| NUS<br>notorcycle<br>NOTES: <sup>4</sup> h  | 80<br>0<br>1                           | - EB           | hvy trk.<br>bus<br>motorcycle | 0<br>_/        | :5; %(g            | bus<br>motorayale |          |          | bus<br>motorcyci | 13    |     |
| NUS<br>notorcycle<br>NOTES: <sup>4</sup> h  | 80<br>0<br>1                           | _ εκ           | hvy trk.<br>bus<br>motorcycle | 0<br>_/        | 5. XQ              | bus<br>motorayale |          |          | bus<br>motorcyci | 13    |     |
| NOTES:                                      | 80<br>0<br>1                           | - SP>          | hvy trk.<br>bus<br>motorcycle | 0<br>_/        | 5. k(g             | bus<br>motorayale |          |          | bus<br>motorcyci | 13    |     |
| NUS<br>notorcycle<br>NOTES: <sup>4</sup> h  | 80<br>0<br>1                           | _ Σβ.          | hvy trk.<br>bus<br>motorcycle | 0<br>_/        | 5. XQ              | bus<br>motorayale |          |          | bus<br>motorcyci | 13    |     |
| NUS<br>notorcycle<br>NOTES: <sup>4</sup> h  | 80<br>0<br>1                           | - SP>          | hvy trk.<br>bus<br>motorcycle | 0<br>_/        | 5. kla             | bus<br>motorayale |          |          | bus<br>motorcyci | 13    |     |
| NUS<br>notorcycle<br>NOTES: <sup>4</sup> h  | 80<br>0<br>1                           | _ Σ.β.:        | hvy trk.<br>bus<br>motorcycle | 0<br>_/        | 5. 16              | bus<br>motorayale |          |          | bus<br>motorcyci | 13    |     |
| NOTES:                                      | 80<br>0<br>1                           | - <u>S</u> P>  | hvy trk.<br>bus<br>motorcycle | 0<br>_/        |                    | bus<br>motorayale |          |          | bus<br>motorcyci | 13    |     |
| NUS<br>notorcycle<br>NOTES: <sup>4</sup> h  | 80<br>0<br>1                           | - <u>E</u> By  | hvy trk.<br>bus<br>motorcycle | 0<br>_/        | 5.56               | bus<br>motorayale |          |          | bus<br>motorcyci | 13    |     |
| NUS<br>notorcycle<br>NOTES: <sup>(1</sup> ) | 80<br>0<br>1                           | <br><br>       | hvy trk.<br>bus<br>motorcycle | 0<br>_/        |                    | bus<br>motorayale |          |          | bus<br>motorcyci | 13    |     |
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| NUS<br>notorcycle<br>NOTES: <sup>(1</sup> ) | 80<br>0<br>1                           | _* <u>E</u> E> | hvy trk.<br>bus<br>motorcycle | 0<br>_/        | 5. 10              | bus<br>motorayale |          |          | bus<br>motorcyci | 13    |     |
| NUS<br>notorcycle<br>NOTES: <sup>(1</sup> ) | 80<br>0<br>1                           | - SP           | hvy trk.<br>bus<br>motorcycle | 0<br>_/        | 5. kla             | bus<br>motorayale |          |          | bus<br>motorcyci | 13    |     |
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| RS 18 - 3            | and a second second                      |                |                                                          |          | Gannet<br>Fleming, |            | <b>ર ⊻</b>                               | eter Sto | arage # 1         | 75                 | 213 |
|                      | <u>-m4-9</u>                             | XX 10 14       |                                                          |          | _                  |            | -                                        |          |                   |                    |     |
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| easure               | ement                                    | Data           |                                                          |          |                    | Pho        | tograpl                                  | n #'≉    | <u>.</u>          |                    |     |
| -                    | bration                                  | 100            | 940                                                      | after    |                    |            |                                          |          | GPS PT _          | <u> </u>           |     |
|                      |                                          |                | mature '7                                                |          |                    |            | alou                                     | d cover  | ۰                 |                    |     |
| eather:<br>ime:      | 1st                                      | atart          | Q(<``Q                                                   | stop     | 10:09              | total      | 20                                       |          |                   |                    |     |
| title.               | 2nd                                      | 1999           | (1) <del>- (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)</del> |          |                    | total      |                                          |          | 4053453           |                    |     |
| ata:                 | 1st                                      | Leg            | 63.8                                                     | Lmax     | 15.10              | <u>5</u>   | 4.9_                                     | 851      | 44.6              |                    |     |
|                      | 2nd                                      |                |                                                          |          |                    | Lmin       | <u>e</u> :                               | set.     |                   |                    |     |
| raffic               | Data                                     |                |                                                          |          |                    |            |                                          |          |                   |                    |     |
|                      | PATI                                     | 0              | Roadway#2                                                | At Pat   | npo                | Roadway#3  |                                          |          | Roadway#4         |                    |     |
| irection             | EB                                       |                | Direction                                                | in       | 3                  |            | 3203 <u></u>                             |          | Direction         |                    |     |
| 44 GR 2011           | lat                                      | 2nd            |                                                          | 1st      | Snd                | 100032403  | 1 at                                     | and      | 100000000         | 1st                | 27  |
| ote                  | .372                                     | - 0-5484       |                                                          | .393     |                    | otua       | <del>* * _</del>                         |          | euto<br>med. trk. | -                  |     |
| ged. trk.            |                                          |                | med. trk.                                                | 18       | <u></u>            | med, trk.  |                                          |          | hvy trk.          | 3 <del>. 37.</del> |     |
| vy trk.              |                                          |                | hvy trk.                                                 | <u></u>  | - 42 - 25          | hwy trk.   | () () () () () () () () () () () () () ( |          | bua               |                    |     |
| 115                  | 0                                        | <u></u>        | bus                                                      |          | <del>() ()</del>   | pas        | 0.00                                     | 2000     |                   |                    |     |
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| <u>iotes:</u>        | <u>1064</u> 23                           |                |                                                          |          |                    |            |                                          |          | motorcyou         |                    | _   |
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| <u>iotes:</u>        | <u>1064</u> 23                           |                |                                                          |          |                    |            |                                          |          | motorcyou         |                    |     |
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| <u>iotes:</u>        | <u>างติส</u> รร<br>etch                  |                | <u>. Cut -</u>                                           |          |                    |            |                                          |          | motorcyou         |                    |     |
| IOTES:               | <u>างติส</u> รร<br>etch                  |                | <u>. Cut -</u>                                           |          |                    |            |                                          |          | motorcyou         |                    |     |
| <u>iotes:</u>        | <u>างติส</u> รร<br>etch                  |                | <u>. Cut -</u>                                           |          |                    |            |                                          |          | motorcycl         |                    |     |
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| NOTES:               | <u>างติส</u> รร<br>etch                  |                | <u>. Cut -</u>                                           |          |                    |            |                                          |          | motorcycl         |                    |     |
| NOTES:               | <u>างติส</u> รร<br>etch                  |                | <u>. Cut -</u>                                           |          |                    |            |                                          |          |                   | 2                  |     |
| notoroyale<br>NOTES: | <u>างติส</u> รร<br>etch                  |                | <u>. Cut -</u>                                           |          |                    |            |                                          |          |                   |                    |     |
| NOTES:               | <u>างติส</u> รร<br>etch                  |                | <u>. Cut -</u>                                           |          |                    |            |                                          |          |                   |                    |     |

Monitoring Sheet --- -... .

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| ATE: 🤄                     | - 1-1.14    | <u>i</u> |                   |          |            | 5                 |         | ADDRESS      | 3:                       | 8        | -  |
|----------------------------|-------------|----------|-------------------|----------|------------|-------------------|---------|--------------|--------------------------|----------|----|
| ROJECT:                    | PATP        |          |                   |          |            | N                 |         | 105          | WERTZ                    | LAN      | 4. |
| oB # ≦                     | 56583       | 3. 1151  |                   |          | Genne      |                   |         | <u></u>      | <u></u>                  | 100      |    |
|                            |             | . 1      |                   |          | Floming.   |                   | М       | eter Sto     | rage #                   | 201      |    |
| 1010100000                 | 5           |          | 2                 | 4-1 🖂    | Duliaton   | 🗌 Educat          | anal [  | fither       |                          |          |    |
| Abë 🔽                      | Reside      |          | Commerc           | :101 🗌   | Rengion    |                   |         |              |                          |          |    |
| [easure                    | ment        | Data     |                   |          |            | Phe               | tograph | #'s          | and the second           |          |    |
| LM Calib                   | ration      | before   | 940               | after    |            |                   |         |              | GPS PT _                 | 033      |    |
| eather:                    |             | temper   | ature             |          | wind speed | 6-5               | clou    | d cover      | 30 60                    |          |    |
| ime:                       | 1st         |          |                   |          |            | total             | ZØ      | 500-<br>5005 | 10.0                     |          |    |
|                            | 2nd         |          |                   |          |            |                   |         |              |                          |          |    |
| ata:                       | 1st<br>Orad |          |                   |          |            | Lmin<br>Lmin      |         |              | <u>  \$2.0</u>           | <br>     |    |
|                            | 2nd         | red      | 83055             |          | 8 - S      |                   | 10      |              | S2 → 4                   |          |    |
| raffic                     | Data        |          |                   |          |            |                   |         |              |                          |          |    |
| oadway#1                   |             | P        | Rondway 22        |          |            | Roadway#3         |         | 100          | Roadway#4                | <u>s</u> |    |
| irection                   | EB          |          | Direction         | <u> </u> | A.C.       | Direction         |         |              | Direction                | <br>1st  |    |
| uto                        | 714         | 2nd      | nuto              | 642      | and _      | euto              | 1et     | Sud          | auto                     | 160      | 21 |
| sed. tric.                 | 14          | *        | med. trik.        | 22       |            | med. trk.         |         |              | med. trk.                |          |    |
| wy tark.                   | 50          |          | hvy trk.          | 64       |            | hvy trk.          | -       |              | hvy trk.                 |          |    |
|                            |             |          |                   |          | C (5) 77.  |                   |         |              |                          |          |    |
| us<br>astoroyole           | 3           |          | bus<br>motorcycle | -6       |            | bus<br>motorcycle |         | <u>- 50</u>  | bus<br>motorcycle        |          |    |
| aotoroyele<br>IOTES:       | 3           |          | bus               | 6        |            |                   |         |              |                          |          |    |
| aotoroyele<br>IOTES:       | 3           |          | bus               |          | <br>       |                   |         |              | motorcycle               |          |    |
| aotoroyele<br>IOTES:       | 3           |          | bus               |          |            | motorcycle        |         |              | motorcycle               |          |    |
| aotoroyele<br>IOTES:       | 3           |          | bus<br>motorcycle |          |            | motorcycle        |         | w            | motorcycle<br>Ly been be |          |    |
| aotoroyele<br>IOTES:       | 3           |          | bus<br>motorcycle |          |            | motorcycle        |         | w            | motorcycle<br>Ly been be |          |    |
| aotoroyele<br>IOTES:       | 3           |          | bus<br>motorcycle |          |            | motorcycle        |         | w            | motorcycle<br>Ly been be |          |    |
| aotoroyele<br>IOTES:       | 3           |          | bus<br>motorcycle |          |            | motorcycle        |         | w            | motorcycle<br>Ly been be |          |    |
| ue<br>astoroyele<br>IOTES: | 3           |          | bus<br>motorcycle |          |            | motorcycle        |         | w            | motorcycle<br>Ly been be |          |    |
| aotoroyele<br>IOTES:       | 3           |          | bus<br>motorcycle |          |            | motorcycle        |         | w            | motorcycle<br>Ly been be |          |    |
| aotoroyele<br>IOTES:       | 3           |          | bus<br>motorcycle |          |            | motorcycle        |         | w            | motorcycle<br>Ly been be |          |    |
| ue<br>astoroyele<br>IOTES: | 3           |          | bus<br>motorcycle |          |            | motorcycle        |         | w            | motorcycle<br>Ly been be |          |    |
| aotoroyele<br>IOTES:       | 3           |          | bus<br>motorcycle |          |            | motorcycle        |         | w            | motorcycle<br>Ly been be |          |    |
| aotoroyele<br>IOTES:       | 3           |          | bus<br>motorcycle |          |            | motorcycle        |         | w            | motorcycle<br>Ly been be |          |    |
| aotoroyele<br>IOTES:       | 3           |          | bus<br>motorcycle |          |            | motorcycle        |         | w            | motorcycle<br>Ly been be |          |    |
| aotoroyele<br>IOTES:       | 3           |          | bus<br>motorcycle |          |            | motorcycle        |         | w            | motorcycle<br>Ly been be |          |    |
| aotoroyole<br>NOTES:       | 3           |          | bus<br>motorcycle |          |            | motorcycle        |         | w            | motorcycle<br>Ly been be |          |    |
| NIS<br>ASTOROFORIS         | 3           |          | bus<br>motorcycle |          |            | motorcycle        |         | w            | motorcycle<br>Ly been be |          |    |
| notoroyole<br>NOTES:       | 3           |          | bus<br>motorcycle |          |            | motorcycle        |         | w            | motorcycle<br>Ly been be |          |    |
| aotoroyole<br>NOTES:       | 3           |          | bus<br>motorcycle |          |            | motorcycle        |         | w            | motorcycle<br>Ly been be |          |    |

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Highway Noise Monitoring Sneet DATE: 6/17/14 PROJECT: PA Turnet MR 308-312 103

| ADDRESS: | <u></u> |      |
|----------|---------|------|
| 103      | Wertz   | Lang |

| DATE: 6/1                            | 7/14               |                     | ~                                                                                                      | 4            | ADDRES       | S:           |     |
|--------------------------------------|--------------------|---------------------|--------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|-----|
|                                      | Turnpik            | 8 308 -3.           | $\mathbf{A}$                                                                                           |              | 103          | Wert         | 2   |
|                                      | 583.115            |                     |                                                                                                        |              |              |              | -92 |
|                                      | 15-2               | <u> </u>            | Gannet<br>Fleming,                                                                                     | t<br>Inc.    | Veter St.    | orage #      | 3 5 |
|                                      |                    |                     |                                                                                                        |              |              |              |     |
| TYPE 🛃 Rea                           | ridential 🔲 🤇      | Commercial          | Religion                                                                                               |              |              |              |     |
| leasuremer                           | nt Data            |                     |                                                                                                        | Photo        | graph #'s _  |              |     |
| SLM Calibratic                       | i) before          | afte                |                                                                                                        |              | graph #'s _  | GPS PT       | 34  |
| feather:                             |                    |                     | wind speed                                                                                             | 30.          |              |              |     |
| fime: 1st                            | temperatu<br>start | -117 pt stop        |                                                                                                        | A total ). ( | cloud cover_ |              |     |
| 2n                                   | i start            | sto                 | Р                                                                                                      | total        | /3           | 0 - 1        |     |
| )ata: 1st                            |                    | Q                   | 76.1                                                                                                   | - 20 - 20    | /.7 sea      | 91.1         | -59 |
| 2nd                                  |                    | Los                 | •×                                                                                                     | <u>Lmin</u>  | <u> </u>     | <u>8</u>     |     |
| Traffic Data                         | <u>a</u>           |                     |                                                                                                        |              |              |              |     |
| loadway#1                            | ATP                | Roadway#2           | ATP                                                                                                    | Roadway#3    |              | Roadway#4 _  | -   |
| frection                             | <u>FG</u> 1        | Direction <u>6</u>  | 115                                                                                                    | Direction    | <u>.</u>     | Direction _  |     |
| 114<br>114                           |                    | auto 44             |                                                                                                        | auto         | lat 2nd      | anto         | lat |
| aed. trk.                            | /                  | nod. trk            | 212                                                                                                    | med. tric    |              | med. trk.    |     |
| wy trk57                             | 2 1                | avy trk             | Y                                                                                                      | hvy trk      |              | hvy trk.     |     |
| mas                                  |                    |                     | t                                                                                                      | рля          |              | bus _        |     |
| 10 000 00 <b>0</b>                   |                    | 10 C A              |                                                                                                        |              |              |              |     |
|                                      |                    | notorcycle          | <u> </u>                                                                                               | motorcycle   |              | motorcycle _ | -   |
| motoroyoleO<br>NOTES:<br>SITE SKETCH | · : : :            | notorcycle          | · · · · · · · · · · · · · · · · · · ·                                                                  | motorcycle   |              | motorcycle _ |     |
| NOTES:                               |                    | notorcycle          | oo de d                                                                                                | motorcycle   |              | motorcycle _ |     |
| NOTES:                               |                    | notorcycle          | · · · · · · · · · · · · · · · · · · ·                                                                  |              |              |              |     |
| iotes:                               |                    |                     | · · · · · · · · · · · · · · · · · · ·                                                                  | motorcycle   |              |              |     |
| iotes:                               |                    | notorcycle          | oo de d                                                                                                | motorcycle   |              | motorcycle _ |     |
| iotes:                               |                    |                     | oo de d                                                                                                | motorcycle   |              |              |     |
| iotes:                               |                    | notarcycle          | oo de d                                                                                                | motorcycle   |              |              |     |
| iotes:                               |                    |                     | oo de d                                                                                                |              | 103          |              |     |
| NOTES:                               |                    |                     | oo de d<br>O<br>O<br>O                                                                                 |              |              |              |     |
| iotes:                               |                    |                     | eo de d                                                                                                |              |              |              |     |
| iotes:                               |                    | notarcycle <u>v</u> | eo de d                                                                                                |              |              |              |     |
| NOTES:                               |                    |                     | oo de d<br>O<br>O<br>O                                                                                 |              |              |              |     |
| iotes:                               |                    |                     | eo de d                                                                                                |              |              |              |     |
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| iotes:                               |                    |                     | eo de d                                                                                                |              |              |              |     |
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| OTES:                                |                    |                     | eo de d<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O<br>O |              |              |              |     |

|                                          |                        | y Noise M                                      | fonitoring                             | Sheet                |                                        |                                            |
|------------------------------------------|------------------------|------------------------------------------------|----------------------------------------|----------------------|----------------------------------------|--------------------------------------------|
| ATE: 6/18/1                              |                        |                                                | 1                                      | ADDRESS              | 8:                                     |                                            |
| ROJECT: PA Turn                          | pike 300 -3            | 12.                                            | Ni                                     | _7                   | Black                                  | hors Cm                                    |
| B # 5658-3                               |                        | Gan                                            |                                        |                      |                                        |                                            |
| TE D                                     | 5-31                   | Plemin                                         | g, inc.                                | Meter Sto            | rage #                                 | Z08                                        |
| PE Resident                              | ial 🗍 Commerc          | ział 🔲 Religion                                | Educations                             | al 🗌 Other           | í<br>Ta Marc                           | 0                                          |
|                                          | _                      |                                                |                                        | <br>гврћ <b>#</b> 's |                                        |                                            |
| easurement D                             | ata                    |                                                | Flictog                                | гећт 4 е —           | GPS PT                                 | 046                                        |
| M NO                                     | SLM Calibratio         | n before                                       | ofter                                  |                      | GPS PI                                 | ~,0                                        |
| eather:                                  | temperature            | wind spee                                      |                                        | cloud cover          |                                        |                                            |
| me: 1st<br>2nd                           | start 11:51 AA         |                                                | totel<br>totel                         |                      |                                        |                                            |
| ata: 1st                                 | Leg 61.3               |                                                |                                        | 5 8KL                | 92.1                                   | <u> </u>                                   |
| 2nd                                      | Leg                    | N                                              |                                        | SEL                  |                                        | _                                          |
| affic Data                               |                        |                                                |                                        |                      |                                        |                                            |
| 1. 1                                     | Rondway#3              | PAIR                                           | Roedway#3                              |                      | Roadway#4                              |                                            |
| restion EB                               | Readwayss<br>Direction | WB                                             | Direction                              |                      | Direction                              |                                            |
| 1st                                      | <br>Bud                | 1st 2nd                                        | la                                     | nt 2nd               |                                        | ist Snd                                    |
| to <u>.326</u><br>attric <u>15</u>       | auto                   | 269                                            | med. tric.                             |                      | nuto<br>med. trk.                      |                                            |
| ed. trk. <u>1.5</u><br>y trk. <u>165</u> | med. trk.<br>bvy trk.  | 78                                             | bvy trk.                               |                      | hvy trk.                               |                                            |
|                                          | bus                    | 2                                              | bus                                    |                      | bue                                    |                                            |
| otorcycle                                | motorcycle             | 2                                              | motorcycle                             |                      | motoroyele                             |                                            |
| OTES:                                    |                        |                                                |                                        |                      |                                        |                                            |
|                                          |                        |                                                | 10000000000000000000000000000000000000 |                      | (79-53                                 |                                            |
|                                          |                        |                                                |                                        |                      |                                        | (10) · · · · · · · · · · · · · · · · · · · |
| TE SKETCH                                |                        | 20 20 20 20                                    |                                        |                      | 20 20 20                               |                                            |
|                                          | Tucappe                | A D.S.                                         | in sheraby                             | 110                  | •••••••••••••••••••••••••••••••••••••• |                                            |
| 67 7 8 42                                | (a) (a) (a) (a)        | Carlos and | of price to the                        |                      |                                        |                                            |
|                                          | x * x *                | 7 4-10:00                                      | r r                                    |                      |                                        |                                            |
|                                          | $\square$              | i i i i                                        |                                        |                      |                                        | 1                                          |
|                                          | Jock                   |                                                |                                        |                      |                                        |                                            |
|                                          | a Aar                  |                                                | : : : : :                              | ····:·               |                                        |                                            |
|                                          | 7 - <u>7</u> - S       |                                                |                                        |                      |                                        |                                            |
|                                          | 13                     | 4 <b></b>                                      | [····]···]···]                         | ···i···i·            |                                        | n þen þen fere                             |
|                                          |                        |                                                |                                        |                      | . j j j.                               |                                            |
|                                          |                        | A.A.A.A.A.A.                                   | E.I.I.I.I.I.I.I                        |                      | . Hardan da                            |                                            |
|                                          | 11-                    |                                                |                                        |                      |                                        |                                            |
|                                          | 7                      |                                                | ; ; ; ; ; ;                            |                      | ;;;;                                   | 111                                        |
|                                          | A.                     |                                                |                                        |                      |                                        |                                            |
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| ATE:                                    |             |                      |                   |       |                     |                   |                                          |            |               |               |           |         |
|-----------------------------------------|-------------|----------------------|-------------------|-------|---------------------|-------------------|------------------------------------------|------------|---------------|---------------|-----------|---------|
| ROJECT:                                 |             | <sup>9</sup> Sudditu | 20 - 60 - 60      |       |                     |                   |                                          | 102.1      | OFFr          | MAN           | Cil       | 26      |
| ов # 5                                  | <u>88</u> 9 |                      |                   |       |                     |                   |                                          | e          |               |               | 222       | 98<br>3 |
|                                         | MS          |                      |                   |       | Gannet<br>Flørning, |                   | ų                                        | leter Sto  | TADA 4        | E I           | 79 -1     | 50      |
|                                         |             | 6.5                  |                   |       |                     |                   |                                          |            |               |               |           |         |
| TYPE 🗌                                  | Resider     | atial [              | Commerci          | ial 🗌 | Religion [          | Educat            | ional [                                  | ] Other    | 8             |               |           | -       |
| feasure                                 | ment 1      | Data                 |                   |       |                     | Phe               | otograpi                                 | h #'s      |               |               |           |         |
|                                         |             |                      | લ્પ. હ            | after |                     |                   |                                          |            | GPS 1         | PT 102        | 153       | 6       |
| Veather:                                | nation      |                      | rature            | 3465  |                     |                   | nlor                                     | d over     |               |               |           |         |
| fime:                                   | 1st         | 10-10-10 - TO 10-    | 11/22             |       |                     |                   |                                          |            |               |               |           |         |
|                                         | 2nd         | start                |                   |       | · · · · · · ·       |                   | an a | 6.0<br>242 |               |               |           |         |
| Data:                                   | 1st         | Leq                  | 720               | Linar | 80.8                | Lentn             | 6.04                                     | SIEL       | 105           | 9             | 22        |         |
|                                         | Snd         | Leq                  |                   | Linar | 9 <del>- 01</del> - | Lenin             |                                          | SEL        | 3 <del></del> | - 10<br>      | <u>83</u> |         |
| fraffic                                 | Data        |                      |                   |       |                     |                   |                                          |            |               |               |           |         |
| loadway#1                               | DAT         | P                    | Roadwayy2         | PA,   | -0                  | Roadway#3         | mice                                     | OK.P       | Roads         | roy#4 _       |           |         |
| direction                               | EB          | ,<br>,               | Direction         | 100   | 2000                | Direction         | 100                                      |            | Direct        | S             |           | 313     |
|                                         | 1et         | 2nd                  | 21                | Ist   | 2nd                 | 2                 | 1st                                      | Sad        | 1020          |               | 1st       | 2       |
| mto                                     | 352         |                      | nuto<br>med. trk. | 405   |                     | auto<br>med. trk. |                                          | JHTI       | auto<br>med.  | trir –        |           |         |
| ned. trk.<br>avy trk.                   | 69          | 20                   | hwy trk.          | 97    | a () (d)            | hvy trk.          | -                                        | 58         | hvy t         | _             |           |         |
| .,,                                     |             |                      |                   |       |                     |                   |                                          |            |               |               |           |         |
|                                         | 4           |                      | bus               | 0     |                     | b13.0             |                                          |            | buz           |               |           |         |
| notoreyele                              | -           |                      |                   | 0     |                     | bus<br>motoroyale | , <u> </u>                               |            |               | -<br>reycle _ |           |         |
| notoreyele<br>NOTES:                    | 0           |                      | bus               | 0     |                     |                   | ) <u></u>                                |            |               | reyels _      |           |         |
| notoreyele<br>NOTES:                    | 0           |                      | bus               | 0     |                     | motoroyale        |                                          |            |               |               |           |         |
| notoreyele<br>NOTES:                    | 0           |                      | bus               | 0     |                     | motoroyale        | B [ ]                                    |            |               | reycls        |           |         |
| notoreyele<br>NOTES:                    | 0           |                      | bus               | 0     |                     | motoroyale        | B [ ]                                    |            |               |               |           |         |
| notoreynle<br>NOTES:                    | 0           |                      | bus               | 0     |                     | motoroyale        | B [ ]                                    |            |               |               |           |         |
| notoreyele<br>NOTES:                    | 0           |                      | bus               |       |                     | motoroyale        | B [ ]                                    |            |               |               |           |         |
| notoreynle<br>NOTES:                    | 0           |                      | bus               | 0     |                     | motoroyale        | B [ ]                                    | And F      |               |               |           |         |
| notoreyele<br>NOTES:                    | 0           |                      | bus               |       |                     | motoroyale        | B [ ]                                    |            |               |               |           |         |
| notoreynle<br>NOTES:                    | 0           |                      | bus               |       |                     | motoroyale        | 8<br>8                                   |            |               |               |           |         |
| notoreynle<br>NOTES:                    | 0           |                      | bus               |       |                     | motoroyale        | 8<br>8                                   |            |               |               |           |         |
| notoreynle<br>NOTES:                    | 0           |                      | bus               |       |                     | motoroyale        | 8<br>8                                   |            |               |               |           |         |
| notoreynle<br>NOTES:                    | 0           |                      | bus               |       |                     | motoroyale        | 8<br>8                                   |            |               |               |           |         |
| notoreynle<br>NOTES:                    | 0           |                      | bus               |       |                     | motoroyale        | 8<br>8                                   |            |               |               |           | ····    |
| notoreyele<br>NOTES:                    | 0           |                      | bus               |       |                     | motoroyale        | 8<br>8                                   |            |               |               |           |         |
| notoreyele<br>NOTES:                    | 0           |                      | bus               |       |                     | motoroyale        | 8<br>8                                   |            |               |               |           |         |
| notoreyele<br>NOTES:                    | 0           |                      | bus               |       |                     | motoroyale        | ₽<br>₽<br>₽¥ <sup>(+</sup>               |            |               |               |           |         |
| notoreyele<br>NOTES:                    | 0           |                      | bus               |       |                     | motoroyale        | ₽<br>₽<br>₽¥ <sup>(+</sup>               |            |               |               |           |         |
| notoreyele<br>NOTES:                    | 0           |                      | bus               |       |                     | motoroyale        | ₽<br>₽<br>₽¥ <sup>(+</sup>               |            |               |               |           |         |
| bus<br>motorcynie<br>NOTES:<br>SITE SKE | 0           |                      | bus               |       |                     | motoroyale        | ₽<br>₽<br>₽¥ <sup>(+</sup>               |            |               |               |           |         |

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| 1882 - 5455 <b>-</b> 1744-1                    | 1750 FZ                                | oise Monitori                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ng Sneet     |                             |
|------------------------------------------------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------|
| DATE: <u>6/18</u>                              |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ADDRESS      |                             |
| PROJECT: DATU                                  | mpine 308-312                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - <u>F</u>   | O Green Vells<br>O Granital |
| 10B # 5658                                     | 28.0                                   | Gannett                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <u>#4_(</u>  | 6 6 raratal                 |
| SITE ID 61                                     | /6·2                                   | Fleming, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Meter Sto    | rage # 209 /39              |
| 1 24                                           | ential 🗌 Commercial 🗌                  | Palleion 🗂 Educa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |                             |
| TYPE 🗹 Resid                                   | sanai 🗌 commerciai 🗌                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |                             |
| Measurement                                    | Data                                   | PL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | otograph #'s |                             |
| SLM NO.                                        | SLM Calibration bet                    | ore <u>94.0</u> after                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              | GPS PT 47 46                |
| Weather:                                       | temperature                            | wind speed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | oloud cover  |                             |
| Time: 1st                                      | start 12:22 stop                       | 12:42 total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 20           |                             |
| 2nd                                            | start stop<br>Lea GO. 1 Lenar          | 6.8.8 Imin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 53,4 set.    | 91.7 #3                     |
| Date: 1st<br>2nd                               |                                        | · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 47.7 SEL     | <u>91.7</u> #3<br>BS.6 11   |
|                                                |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |                             |
| Traffic Data                                   | 121 A.                                 | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |                             |
| Roadway#1                                      |                                        | A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3            | Readway#4                   |
| Direction <u> </u>                             | <u>O</u> Direction <u>U</u><br>2nd 1st | 2nd Direction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1st 2nd      | lat i                       |
| auto372                                        | anto                                   | ento                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              | ofua                        |
| med. trk. <u>20</u>                            | med. trik<br>here trik//S              | 그는 것은 이번 전문에 가지 않는 것이 같이 있다. 것이 같이 있는 것이 같이 있다. 같이 있는 것이 같이 있는 것이 같이 있는 것이 없는 것이 않는 것이 없는 것이 없는 것이 않는 것이 없는 것이 않는 것이 않는 것이 없는 것이 않는 것이 없는 것이 않는 것이 없는 것이 않는 것이 않는 것이 없는 것이 없는 것이 않는 것이 없는 것이 없는 것이 않는 것이 없는 것이 없는 것이 같이 않는 것이 않 않는 것이 않이 않 않 않 않이 않는 것이 않이 않는 것이 않이 |              | med. trk.                   |
| hvy trk                                        | hwy trik. 173                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              | bus                         |
| bus                                            |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |                             |
| notoroyalo                                     | pump hor JUB                           | Running -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              | Alexandra                   |
| NOTES: Paci                                    |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |                             |
| 9096050000 <b>0</b> 099600 <del>00</del> 09860 |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |                             |
| NOTES: Paci                                    |                                        | Running -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                             |
| NOTES: Paci                                    |                                        | Running -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                             |
| NOTES: Paci                                    |                                        | Running -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                             |
| NOTES: Paci                                    |                                        | Running -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                             |
| NOTES: Paci                                    |                                        | Running -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                             |
| NOTES: Paci                                    |                                        | Running -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                             |
| NOTES: Paci                                    |                                        | Running -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                             |
| NOTES: Paci                                    |                                        | Running -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                             |
| NOTES: Paci                                    |                                        | Running -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                             |
| NOTES: Paci                                    |                                        | Running -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                             |
| NOTES: Paci                                    |                                        | Running -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                             |
| NOTES: Page                                    |                                        | Running -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                             |
| NOTES: Page                                    |                                        | Running -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                             |
| NOTES: Page                                    |                                        | Running -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                             |
| NOTES: Page                                    |                                        | Running -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                             |
| NOTES: Page                                    |                                        | Running -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                             |

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| PROJECT: PAT                        | 14 Jaropike 3              | 08-312                 |                |                          | 306           | reen V             | alle     |
|-------------------------------------|----------------------------|------------------------|----------------|--------------------------|---------------|--------------------|----------|
| JOB # 365                           |                            |                        |                |                          |               |                    | 902 - M. |
| SITE ID                             | C - and the contraction of | 2.721 2.1              | Ganı<br>Fləmin |                          | Meter Sta     | orage #            | 206      |
| 2010/30/30/87 - 10 <del></del> 74   | -0.6 - 22.                 |                        |                | □ <b>1</b> 23            |               |                    |          |
| TYPE 🗹 Rea                          | sidential 📋                | Commerci               | al 📋 Keligion  |                          | onal 🗌 Other  |                    | 38       |
| Measuremen                          | nt Data                    |                        |                | Pho                      | tograph #'s _ | GPS PT 4           | 1.3/4    |
| SLM NO.                             | SLA                        | ( Calibration          | B before       | after                    |               | GPS PT             | 14       |
| Weather:                            |                            | ature                  | wind spec      | ad                       | cloud cover   | <u> </u>           |          |
| Time: 1st                           |                            | 10:04                  |                | ·                        | 30            |                    |          |
| 2n<br>Data: 1st                     |                            | 60.6                   | Lamer 68       | total                    | 78.5 BEL      | 91.4               |          |
| Data: 1st<br>2n                     | 1. 100 Ball - 1            |                        | Lmex           | Lanin                    |               |                    |          |
| Traffic Dat                         |                            |                        |                |                          |               |                    |          |
|                                     |                            |                        | PATP           | D 1                      | <u> </u>      | Roadway#4          |          |
|                                     | EB_                        | Roadway#2<br>Direction | WB             | Direction                |               | Direction _        |          |
| et.                                 | t 2nd                      |                        | 1st 2nd        | n 2002 - 3<br><u>3</u> 1 | 1st 2nd       |                    | 1st      |
| auto<br>med. trk                    | 22.7 XXX                   | suto<br>med. trk.      | 349            | med. trk.                |               | auto _<br>med. trk |          |
| hvy trk.                            | Ý 📃                        | hvy trk.               | 98             | hvy trk.                 |               | hvy trk.           | 6        |
|                                     | - C                        | bas                    | 3              | bua                      |               | bus _              |          |
| bus 🚽                               | 7                          |                        |                |                          |               |                    |          |
| bus<br>motoreyals<br><u>NOTES:</u>  |                            | motoroyole             |                | motorcycle               |               | motoroyele _       |          |
| motoroyala 🔜                        |                            | motorsycle             |                |                          |               |                    |          |
| motoroyals<br>NOTES:<br>SITE SKETCH | • [                        | motorsycle             | - A<br>        |                          |               | motoroyele_        |          |
| motoroyals                          | • [                        | motorcycle             |                |                          |               |                    |          |
| motoroyals<br>NOTES:<br>SITE SKETCH | • [                        | motorsyste             |                |                          |               |                    |          |
| motoroyals<br>NOTES:<br>SITE SKETCH | • [                        | motorcycle             |                |                          |               |                    | 2        |
| motoroyals<br>NOTES:<br>SITE SKETCH | • [                        | motorcycle             |                |                          |               |                    |          |
| motoroyals<br>NOTES:<br>SITE SKETCH | • [                        | motorsyste             |                |                          |               |                    | 2        |
| motoroyals<br>NOTES:<br>SITE SKETCH | • [                        | motorcycle             |                |                          |               |                    |          |
| motoroyals<br>NOTES:<br>SITE SKETCH | • [                        | motorsyste             |                |                          |               |                    |          |
| motoroyals<br>NOTES:<br>SITE SKETCH | • [                        |                        |                |                          |               |                    | 2        |
| motoroyals<br>NOTES:<br>SITE SKETCH | • [                        |                        |                |                          |               |                    |          |
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| motoroyals<br>NOTES:<br>SITE SKETCH | • [                        |                        |                | p)                       |               |                    |          |
| motoroyals<br>NOTES:<br>SITE SKETCH | • [                        | motorcycle             | Turn           | p)                       |               |                    |          |
| motoroyals<br>NOTES:<br>SITE SKETCH | • [                        | motorsyste             | Turn           | p)                       |               |                    |          |

| Hig                                                     | hway Noise M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | onitoring S                           | Sheet                                           |                                                                                                                 |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| DATE: 6-16-14                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4                                     | ADDRESS:                                        |                                                                                                                 |
| ROJECT: PA -TURAL PIKE 308                              | 312                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | N                                     | 435/44:                                         | 5 Milford RD                                                                                                    |
|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                       |                                                 | 100 <u>100 100 100 100 100 100 100 100 100</u>                                                                  |
| OB # 56583. 1151                                        | Fleming                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                       | Veter Stora                                     | ge # * <u>&gt;181</u>                                                                                           |
| TTE ID <u>"MI-I-I-")-Z.</u>                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                       |                                                 | 44.394                                                                                                          |
| YPE 🗌 Residential 🗌 Con                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                       |                                                 |                                                                                                                 |
| leasurement Data y 4.0                                  | 13.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Photogra                              | aph #'s                                         | PS PT 44. 004                                                                                                   |
| i M Calibration before <u>29</u>                        | ·O after                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       |                                                 | 43-008                                                                                                          |
| Teather: temperature                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | d 4                                   |                                                 |                                                                                                                 |
| "ime: 1st # 3 start 1113                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | total <u>20</u><br>total              |                                                 |                                                                                                                 |
| 2ndy g start 1214                                       | 0 stop <u>12:20</u><br>0 Imax <u>61.6</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       | 5 SEL                                           | 85.4                                                                                                            |
| Data: 1st p. 3 Log <u>54.</u><br>2nd d d Log <u>Sta</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 20 Au                                 |                                                 | 81.5                                                                                                            |
|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <del>n 1</del> 998 we so <b>1</b> 998 |                                                 |                                                                                                                 |
| Fraffic Data                                            | <b>•</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       |                                                 |                                                                                                                 |
|                                                         | awayos PATP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Boadway 8                             |                                                 | Roadway#4                                                                                                       |
| irection <u>6-3</u> Dire                                | setion <u>w6</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Direction                             | 10 N. N.                                        | Direction<br>1et 2nd                                                                                            |
| 1st 2nd<br>3.3.8 . aut                                  | o <u>.3.360</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1st<br>auto                           |                                                 | auto oto                                                                                                        |
|                                                         | a. trz. <u>13</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | med trk.                              |                                                 | med. trk                                                                                                        |
|                                                         | trk. 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | hwy trk.                              |                                                 | hvy trk.                                                                                                        |
| uz buz                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | . bus                                 |                                                 | bas eard                                                                                                        |
| notorcyclo mo                                           | toreyels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | motoreycle                            | <u> 10 10 10 10 10 10 10 10 10 10 10 10 10 </u> | meteroyole                                                                                                      |
| TTE SKETCH                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                       |                                                 | · · · · · · · · · · · ·                                                                                         |
| میں وہ میں می <u>رے</u> را ان میں اور ا                 | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       | ulsed in free                                   | ······                                                                                                          |
|                                                         | 44)<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                       | . index laws                                    |                                                                                                                 |
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|                                                         | Field                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                       |                                                 |                                                                                                                 |
|                                                         | \$-16. <sup>1</sup> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                       | - E <b>,</b> E E E                              |                                                                                                                 |
|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $\{\cdots, \cdots, \cdots, \cdots\}$  | 140                                             |                                                                                                                 |
|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | i                                     | - <u> </u>                                      | <u>haana ku </u>                                                            |
|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                       |                                                 | d                                                                                                               |
|                                                         | કે ક                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | E E <b>I</b> S I                      |                                                 | 14X                                                                                                             |
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| ······································                  | MARK IN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | X 1                                   |                                                 |                                                                                                                 |
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| •                                                       | 🖺 to 💫 🗟 or de la composición de la composi<br>Composición de la composición de la comp | l. L. S. S P                          |                                                 | ·····                                                                                                           |
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|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                       | ; : :                                           | 5 E E E E E                                                                                                     |
|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                       |                                                 |                                                                                                                 |
|                                                         | en e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1                                     | 13                                              |                                                                                                                 |
|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | W. maraner                            |                                                 |                                                                                                                 |
|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                       | ینی :<br>محمد میرور کس                          | بالمشارية والمستحد والمستح     |
|                                                         | E E E 🕈 E 🖆                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       |                                                 |                                                                                                                 |
|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 1 1                                 |                                                 |                                                                                                                 |
|                                                         | ( 2.3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 11                                    |                                                 |                                                                                                                 |
|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                       |                                                 |                                                                                                                 |

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| 96. 6 QAGE 21/27 27                | (a-17.14             |                   |                  | 5          | ADDITAD          | 3: <u>13x11 Qre</u> |                      |
|------------------------------------|----------------------|-------------------|------------------|------------|------------------|---------------------|----------------------|
|                                    | PATP 308.            |                   |                  |            |                  | - 60                |                      |
| iob <u># _</u>                     | 56583.115            | <u> </u>          | Gann<br>Fleming  |            |                  | rage # 44-3         | 395 H                |
|                                    | M8-1-16              | <del>- 7</del> -8 |                  |            |                  |                     |                      |
| IYPE 🔲                             | Residential [        | ] Commerci        | al 🗌 Religion    | 🔲 Educati  | ional 🔽 Other    | BlaithaD            |                      |
|                                    | ment Data            |                   |                  |            | tograph #'s      |                     |                      |
|                                    |                      | THE CLASS         | 510 <b>-</b>     |            |                  | GPS PT 117          | - 118                |
| SLM Calib                          |                      | <u>⊎4.94.0</u> _  |                  |            | cloud cover_     |                     |                      |
| Weather:<br>Time:                  | temp<br>1st 누니 start | erature           |                  |            | 20               |                     |                      |
| 1006:                              | 2nd +3 stort         | 7:42              | stop <u>8:02</u> | total      | 20               |                     |                      |
| Data:                              | 1st Jul Log          | 60.9              | Imax 68.7        |            | <u>\$3,1</u> SEL | 90.8                | -8                   |
|                                    | 2nd 13 Loq           | 6.00              | Imax -74.(       | Lmin       | <u>_9 5</u> 880. | <u> </u>            | <b>.</b>             |
| Traffic                            | Data                 | 18                |                  |            |                  |                     |                      |
| RoadwayFi                          | PATP                 | Roadway#2         | PATP             | Boadway#3  | PARK AUC         | Roadway#4           |                      |
| Direction                          | EB                   | Direction         | WB               | Direction  | <u> </u>         | Direction           | lat 2                |
| auto                               | 1st 2nd<br>(09.3)    | euto              | 1st 2nd<br>29B   | auto       | 1st 2ad<br>138   | auto                | 1st 2                |
| med. trk.                          | 23                   | med. trk.         |                  | med. trk.  | - 2              | med. trk            | -                    |
| hvy trk.                           | 67                   | hwy trk.          | <u>-41</u>       | hvy trk.   |                  | hvy trk             |                      |
| bus                                | 1                    | bus               |                  | , bus      | _2               | երաց –              | - 22 - 3 - 3         |
| motoroyalə<br><u>NOTES:</u>        |                      | motorcycle        |                  | motoroyele | •                | motoreyale          | - 10<br>- 10<br>- 10 |
| <u>NOTES:</u>                      |                      | metorcycle        |                  | motoroyele | •                |                     |                      |
| 899993357-157-19<br>499999-2010-19 |                      | metorcycle        |                  |            | •                |                     |                      |
| <u>NOTES:</u>                      |                      |                   |                  | TP E 4     |                  |                     |                      |
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| <u>NOTES:</u>                      |                      | metorcycle        |                  | TP & 4     |                  |                     |                      |

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| E: 6/            | 18/14                    | <u> 19-19</u>                        |                | 1                                     | 2              |          | heet<br>ADDRES | S:                    | in ni i |     |
|------------------|--------------------------|--------------------------------------|----------------|---------------------------------------|----------------|----------|----------------|-----------------------|---------|-----|
| SECT: PAT        | irnsks                   | 308-3                                | 12             |                                       |                |          | 1850           | Resent                | urger   | Lud |
|                  | 83. 115                  | <u>د</u>                             |                | Gann                                  | ett            |          | -              |                       |         |     |
| E ID             | 9-1                      |                                      |                | Fleming                               | , Inc.         | ļ        | Meter St       | orage # _             | 207     |     |
| E FResi          | idential [               | ] Commerc                            | dal 🗌          | Religion                              | Educa          | tional [ | 0ther          | ·                     | 82      |     |
|                  |                          |                                      |                |                                       |                | otograj  |                |                       |         |     |
|                  | <del></del>              |                                      | -              |                                       |                |          |                | GPS PT_               | 41      |     |
| [ Calibration    |                          |                                      | BLUEL          | wind spec                             |                | clc      | ud cover_      |                       |         |     |
| ie: ist          |                          | 8:35 M                               | 17 stop        |                                       | 4/7 total :    | 20 m     | 110            |                       |         |     |
| a: 1st           |                          | 64.2                                 | _ stop<br>Lmax | 72,5                                  | total<br>Lanin | 56.1     |                | 95.                   | 0       |     |
| a: 1st<br>2nd    | 3273                     |                                      |                |                                       |                | 19       |                |                       |         |     |
| affic Data       | 1                        |                                      |                |                                       |                |          |                |                       |         |     |
| twoy 1 Pl        | ATP                      | Roadway#2                            |                | TP_                                   | Rondway        | is       |                | Roadway#4             | •       |     |
| ction            | EB_                      | Direction                            | 3072 34        | IB                                    | Direction      | <br>1st  | 2n4            | Direction             |         | and |
|                  | 2 End                    | ento                                 | 1st<br>319     | 200                                   | auto           |          |                | auto                  |         |     |
| l. trk <u>2/</u> | 10 M C 11 11 11 11 11 11 | med. trk.                            | - 25           | -                                     | med. trk       | -        | -              | med. trk.<br>hvy trk. | 0       |     |
| ык <u>85</u>     | ×                        | hvy trk.<br>bus                      | -47            | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | bus            |          | -              | bus                   |         |     |
|                  |                          | DUB                                  | _ 0            |                                       |                |          | - CON          |                       | - 82    |     |
| orcycle/         |                          | motorcycle                           | <u> </u>       |                                       | motoroya       | ую       |                | motorcycl             | •       |     |
| <u>res:</u>      |                          | motorcyole                           |                |                                       |                |          |                | motoreyti             | •       |     |
| <u>res:</u>      |                          | motorcycle                           |                | N-terny                               |                |          |                |                       | •       | -   |
| <u>res:</u>      |                          |                                      |                | D-kirny                               |                |          |                |                       | •       |     |
| <u>res:</u>      |                          | pp0]                                 |                | N-burny                               |                |          |                |                       | •       |     |
| <u>res:</u>      |                          | ppo)                                 |                | N-terny                               |                |          |                |                       | •       |     |
| <u>res:</u>      |                          | ppo)                                 |                | N-kirny                               |                |          |                |                       | •       |     |
| <u>res:</u>      |                          | ppo)                                 |                | R-kirny                               |                |          |                |                       | •       |     |
| <u>TES:</u>      |                          | retorcycle                           |                | R-biony                               |                |          |                |                       | •       |     |
| <u>res:</u>      |                          | notorcycle                           |                | N-kirny                               |                |          |                |                       | •       |     |
| <u>res:</u>      |                          | ppo)                                 |                | R-kirny                               |                |          |                |                       |         |     |
| <u>res:</u>      |                          | motorcycle<br>(***)<br>1850          |                | N-bion <sub>j</sub>                   |                |          |                |                       | •       |     |
| <u>res:</u>      |                          | notorcycle<br>(PDO)<br>deisk<br>1850 |                | N-kirny                               |                |          |                |                       | •       |     |
| <u>res:</u>      |                          | motorcycle<br>(pp0)                  |                | N-kirny                               |                |          |                |                       |         |     |
| <u>res:</u>      |                          | notorcycle                           |                | N-kirny                               |                | Sle      |                |                       |         |     |
| <u>res:</u>      |                          | notorcycle                           |                | N-kirny                               |                |          |                |                       |         |     |
| .C. (S.          |                          | ppo)                                 |                | N-kirny                               |                |          |                |                       |         |     |

| YPE 🗌                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Residentia    | al 🗹 🛛       | Commerci               |            | engron []   | Education                 |           |            |                        | 35  |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|------------------------|------------|-------------|---------------------------|-----------|------------|------------------------|-----|---------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |               |              |                        |            |             |                           | graph #'s |            | -                      |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ment Da       | X (          | Calibratio             | D before   | 940         | after                     | <u>.</u>  | GP         |                        |     |         |
| feather:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               |              | 1223                   |            | been bei    |                           | eloud cov | er         | <u>.</u>               |     |         |
| ïme:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |              | A SAP                  |            |             | 7 total <u>2</u><br>total |           |            |                        |     |         |
| )ata:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               | start<br>Leq | 63.5                   | imex _     | 73.5        | Lmin 5                    |           |            | 74,3                   |     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 199402000     | Leq          |                        | Lanex _    | 10 - 15 - 1 | _ Lmin                    |           | SEL        | <u>\</u>               |     |         |
| raffic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |              |                        | 24         | -1          | 1995 IZ 12                |           | <u>_</u>   |                        |     |         |
| icedway#1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | EB            | 68650        | Roedway#2<br>Direction | WE WE      |             | Readway#S<br>Direction    | <u></u>   |            | adway#4 .<br>rection . |     |         |
| uto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 - 0242 - 23 | hnd          | mito                   | 1st<br>353 | Bud         | anto                      | 1st 210   |            | to                     | 1st | Znd     |
| ned. trk.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | _16           | 22 23        | med. trk.              | 13         |             | med. trk                  | 10        |            | ed. trk.               |     | <u></u> |
| rvy trk.<br>nis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -72 -         | <u> </u>     | hvy trk.<br>bus        | <u></u>    |             | hvy trk                   |           | - hv<br>bu | y trk.                 |     | 10      |
| 1120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |              |                        |            |             |                           |           |            |                        |     |         |
| n de la section de<br>section de la section de |               |              | motorcycle             |            |             | motoroyele                | I         |            | otorcycle              |     |         |
| notoroyals<br>NOTES:<br>SITE SKE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <u> </u>      |              |                        |            |             | 100 St                    |           |            |                        |     |         |
| NOTES:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u> </u>      |              |                        |            | Turing      | mətoroyalə                |           |            |                        |     |         |
| NOTES:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u> </u>      |              |                        |            |             |                           |           |            |                        |     |         |
| NOTES:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u> </u>      |              |                        |            |             | mətoroyalə                |           |            |                        |     |         |
| NOTES:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u> </u>      |              |                        |            |             |                           |           |            |                        |     |         |
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| NOTES:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u> </u>      |              |                        |            |             |                           |           |            |                        |     |         |
| NOTES:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u> </u>      |              |                        |            |             |                           |           |            |                        |     |         |
| NOTES:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u> </u>      | Q            |                        |            |             |                           |           |            |                        |     |         |
| NOTES:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u> </u>      | Quel.        |                        |            |             |                           |           |            |                        |     |         |
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| OJECT: PA TH                                                                 | npike                              | 308 -31                           | 2                       |                               |                                                     | LUND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Evelop                                | CLAN.    | <u>ب</u>       | -0           |
| 0 #                                                                          | 83.115                             | i                                 |                         | Gamett                        |                                                     | 3 <u>1</u> 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <u></u>                               |          |                | -            |
| TE D                                                                         | -1                                 |                                   | 1                       | Fieming, Inc.                 |                                                     | Meter S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | torage #                              | _5_      | <u>89 / 3</u>  | 10           |
| YPE 🔲 Reside                                                                 | ential 📋                           | Commerci                          | al 🗌 Re                 | ligion 🗌                      | Educations                                          | al 📑 Othe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | r                                     | <u>.</u> | /              | -            |
| easurement                                                                   | Data                               |                                   |                         |                               | Photog                                              | тарр #'я                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       |          |                | <u>1</u> 22  |
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| eather:                                                                      |                                    | ture                              |                         | d speed _                     |                                                     | cloud cover<br><u> P H1 in</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                       |          |                |              |
| ime: 1st<br>2nd                                                              | start                              | TH AN<br>BOS AN                   | 7 stop (7.<br>7 stop (8 | 23 AM                         |                                                     | D Berth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                       |          |                |              |
| ata: 1st                                                                     | Leg .                              | 60.2                              | Lmex                    | 7.0.6                         | Lmin 53                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 91                                    | .7       |                |              |
| 2nd                                                                          | læg .                              | <u> 59.9</u>                      | Lenax                   | 65.9                          | Lmin                                                | <u>*-0</u> se                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 90                                    | .1_      |                |              |
| raffic Data                                                                  |                                    |                                   |                         |                               |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       |          |                |              |
|                                                                              | -0                                 | Rendway-2                         | PAR                     | ρ.                            | londway#3 Li                                        | L Carl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Read                                  | ay#4 (   | L. CON         |              |
| irection <u>FG</u>                                                           | 1997 - 1998 -                      | Direction                         | we                      | 525                           | irection                                            | EB -7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       |          | WIB 4          |              |
| 1.54                                                                         | 2nd                                |                                   | Lat                     | 2nd .                         |                                                     | st 2nd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1                                     | 1        | * 2nd          |              |
| uto <u>709</u>                                                               | 599                                | auto                              | 2 12 11                 |                               |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | auto                                  | <br>tark | 846 1          |              |
| 2004. trik <u>21</u>                                                         | 27                                 | med. trk.                         | <u></u>                 | 1.                            | ned. trk                                            | - 80 y - 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | hwy t                                 |          | 2              |              |
| wy trk. <u>70</u>                                                            | 84                                 | hvy trk.                          | 35                      |                               | wy trk                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | bus                                   |          | <u> </u>       | 1.2          |
| ····· <u>0</u>                                                               | 1                                  | bus                               |                         |                               |                                                     | - 242 - 642 - 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Pus                                   |          | 10             |              |
| OTES: 4.14                                                                   | A Con                              | motorayale<br><u>Alega</u><br>n t | 1<br>(147) ~            | 0 0                           | notorcycle<br>w mr un un un<br>1 mr un un u<br>THTM | AR LAS LES JAN<br>HE KILLES ZER J                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | motor                                 | 4 MI     |                |              |
| IOTES: 4/4/                                                                  | 42-71                              | Mega<br>nt                        | _/<br>₩₽←<br>(3         | 0 0                           |                                                     | AT LAS LET JAN<br>HET REI DES DER D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | • • • • • • • • • • • • • • • • • • • | 4 MI     | -11 <b>2</b> H |              |
| IOTES: 4/44/<br>IOTES: 4/44/<br>IC<br>IC<br>IC<br>IC<br>IC<br>IC<br>IC<br>IC | 4 C 011<br>0 min cou               | Mega<br>nt                        | 100 C                   | 0 □<br>                       |                                                     | ia ini uti in<br>ny ny ny ny ma                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | • • • • • • • • • • • • • • • • • • • | 4 MI     |                |              |
| 10TES: <u>L,++</u> 1<br>12<br>7                                              | 4 ( 011<br>) m12 (000<br>(42 - 7)) | Mega<br>nt                        | <u> </u>                | 0 □<br>                       | n m nt ut ut i<br>1 m nt ut ut i<br>TIHT M          | 19 141 417 44<br>19 141 41 41 44<br>19 141 41 41 44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | • • • • • • • • • • • • • • • • • • • | 4 MI     |                |              |
| 10TES: <u>L,++</u> 1<br>12<br>7                                              | 4 C 0H<br>MIA COU<br>42 - 71       | Mega<br>nt                        | <u> </u>                | 0 □<br>                       | n m nt ut ut i<br>1 m nt ut ut i<br>TIHT M          | 19 (41) (41) (41)<br>(47) (41) (41) (42)<br>(47) (41) (42) (43) (43) (43) (43) (43) (43) (43) (43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | • • • • • • • • • • • • • • • • • • • | 4 MI     |                |              |
| 10TES: <u>L,++</u> 1<br>12<br>7                                              | 4 ( 011<br>) m12 (000<br>(42 - 7)) | Mega<br>nt                        | <u> </u>                | 0 □<br>                       | n m nt ut ut i<br>1 m nt ut ut i<br>Tilty ut        | 19 141 117 141<br>19 141 147 141<br>147 141 147 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | • • • • • • • • • • • • • • • • • • • | 4 MI     |                |              |
| 10TES: <u>L,++</u> 1<br>12<br>7                                              | 4 ( 011<br>) min COU<br>(42 - 7)   | Mega<br>nt                        | <u> </u>                | 0 □<br>                       | n m nt ut ut i<br>1 m nt ut ut i<br>Tilty ut        | 18 141 417 Jan<br>19 141 417 Jan<br>19 141 417 419 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | • • • • • • • • • • • • • • • • • • • | 4 MI     |                |              |
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| 10TES: <u>L,++</u> 1<br>12<br>7                                              | 4 ( 011<br>) min COU<br>(42 - 7)   | Mega<br>nt                        | <u> </u>                | 0 □<br>                       | n m nt ut ut i<br>1 m nt ut ut i<br>Tilty ut        | 19 141 117 14<br>19 141 147 147<br>147 147 148 149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | • • • • • • • • • • • • • • • • • • • | 4 MI     |                |              |
| 10TES: <u>L,++</u> 1<br>12<br>7                                              | 4 ( 019<br>) min (000<br>(42 - 7)) | Mega<br>nt                        | <u> </u>                | 0 □<br>                       | n m nt ut ut i<br>1 m nt ut ut i<br>Tilty ut        | 19 441 417 411<br>19 61 61 617 411<br>19 61 61 617 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | • • • • • • • • • • • • • • • • • • • | 4 MI     |                |              |
| 10TES: <u>L,++</u> 1<br>12<br>7                                              | 4 ( 011<br>) min cou<br>(42 - 7)   | Mega<br>nt                        | <u> </u>                | 0 □<br>                       | n m nt ut ut i<br>1 m nt ut ut i<br>Tilty ut        | 19 141 117 14<br>19 141 147 147<br>147 141 147 147 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | • • • • • • • • • • • • • • • • • • • | 4 MI     |                |              |
| 10TES: <u>L,++</u> 1<br>12<br>7                                              | 4 ( 019<br>) min cou<br>(42 - 7)   | Mega<br>nt                        | <u> </u>                | 0 □<br>                       | n m nt ut ut i<br>1 m nt ut ut i<br>Tilty ut        | 19 141 117 Jah<br>19 141 147 Jah<br>19 141 147 248 Ja                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | • • • • • • • • • • • • • • • • • • • | 4 MI     |                |              |
| 10TES: <u>L,++</u> 1<br>12<br>7                                              | 4 ( 01)<br>2 min 600<br>4 2 - 71   | Mega<br>nt                        | <u> </u>                | 0 □<br>                       | n m nt ut ut i<br>1 m nt ut ut i<br>Tilty ut        | 19 141 117 141<br>19 141 147 147<br>19 141 147 147 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | • • • • • • • • • • • • • • • • • • • | 4 MI     |                |              |
| 10TES: <u>L,++</u> 1<br>12<br>7                                              | 4 ( 019<br>) min COU<br>(42 - 7)   | Meg a                             | <u> </u>                | 0 □<br>                       | n m nt ut ut i<br>1 m nt ut ut i<br>Tilty ut        | 19 141 117 14<br>19 141 147 147<br>14 14 147 148<br>14 14 148<br>14 <br>148<br>148<br>148<br>148<br>148<br>148<br>148<br>148 | • • • • • • • • • • • • • • • • • • • | 4 MI     |                |              |
| 10TES: <u>L,++</u> 1<br>12<br>7                                              | 4 ( 019<br>) min cou<br>(42 - 7)   | Meg a                             | <u> </u>                | 0 □<br>                       | n m nt ut ut i<br>1 m nt ut ut i<br>Tilty ut        | 19 141 117 14<br>47 141 147 147<br>47 141 141 147 148<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | • • • • • • • • • • • • • • • • • • • | 4 MI     |                |              |
| 10TES: <u>L,++</u> 1<br>12<br>7                                              | 4 ( 019<br>2 min 600<br>4 2 - 71   | Meg a                             | <u> </u>                | 0 □<br>                       | n m nt ut ut i<br>1 m nt ut ut i<br>TIHT M          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | • • • • • • • • • • • • • • • • • • • | 4 MI     |                |              |
| 10TES: <u>L,++</u> 1<br>12<br>7                                              | 4 ( 019<br>) min COU<br>(42 - 7)   | Meg a                             | <u> </u>                | 0 □<br>                       | n m nt ut ut i<br>1 m nt ut ut i<br>TIHT M          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | • • • • • • • • • • • • • • • • • • • | 4 MI     |                |              |
| 10TES: <u>L,++</u> 1<br>12<br>7                                              | 4 ( 019<br>) min cou<br>(42 - 7);  | Meg a                             | <u> </u>                | 0 □<br>                       | n m nt ut ut i<br>1 m nt ut ut i<br>TIHT M          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | • • • • • • • • • • • • • • • • • • • | 4 MI     |                |              |
| 10TES: <u>L,++</u> 1<br>12<br>7                                              | 4 ( 01)<br>2 min 600<br>4 2 - 7)   | Meg a                             | <u> </u>                | 0 □<br>                       | n m nt ut ut i<br>1 m nt ut ut i<br>TIHT M          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | • • • • • • • • • • • • • • • • • • • | 4 MI     |                |              |
| 10TES: <u>L,++</u> 1<br>12<br>7                                              | 4 ( 019<br>min COU<br>42 - 7)      | Meg a                             | <u> </u>                | 0 □<br>                       | n m nt ut ut i<br>1 m nt ut ut i<br>TIHT M          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | • • • • • • • • • • • • • • • • • • • | 4 MI     |                |              |
| 10TES: <u>L,++</u> 1<br>12<br>7                                              | 4 ( 019<br>2 min 604<br>4 2 - 71   | Meg a                             | <u> </u>                | 0 □<br>                       | n m nt ut ut i<br>1 m nt ut ut i<br>TIHT M          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | • • • • • • • • • • • • • • • • • • • | 4 MI     |                |              |
| 10TES: <u>L,++</u> 1<br>12<br>7                                              | 4 ( 019<br>2 min 600<br>4 2 - 7);  | Meg a                             | <u> </u>                | 0 □<br>                       | n m nt ut ut i<br>1 m nt ut ut i<br>TIHT M          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | • • • • • • • • • • • • • • • • • • • | 4 MI     |                |              |

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|                                              |                         |                       |                | g Sheet                                                                                                         |                |                                                  |
|----------------------------------------------|-------------------------|-----------------------|----------------|-----------------------------------------------------------------------------------------------------------------|----------------|--------------------------------------------------|
| ATE: <u>4-18-14</u>                          | 57<br>57                |                       | 1              | ADDRES                                                                                                          | s:             |                                                  |
|                                              | 338. 312                |                       | N              |                                                                                                                 | have LAN       |                                                  |
| 0B # 5458                                    | 13.1151                 | Gap                   |                | 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - | <u>(61 4 3</u> | 19 2 - 19 20 20 20 20 20 20 20 20 20 20 20 20 20 |
| твю <u>(*1)</u>                              | -2                      | Fleming               |                |                                                                                                                 | orage # 🛄      |                                                  |
| PE 🕑 Resid                                   | ential 🗌 Comm           | ercial 🔲 Religion     | 🔲 Educatio     | onal 🗌 Other                                                                                                    | •              | <u> 412 - 514</u>                                |
| easurement                                   |                         |                       |                | tograph #'s _                                                                                                   |                |                                                  |
|                                              |                         | after                 |                |                                                                                                                 | GPS PT         | 043 _                                            |
| LM Calibration                               | temperature             |                       | <u> </u>       | cloud pover                                                                                                     | 1070           |                                                  |
| Veather:<br>Nime: 1st                        | start <u>803</u>        |                       |                | 20                                                                                                              |                |                                                  |
| 2nd                                          | start                   | etop<br>lmex          | total<br>1.min |                                                                                                                 | 91.5           |                                                  |
| Data: 1st<br>2nd                             | Leg <u>(20,7</u><br>Leg | Lmer5.9               | 1.min          | SEL                                                                                                             | Cr 3003 70-1   |                                                  |
| Fraffic Data                                 |                         | - <del>11 - 1</del> 1 |                |                                                                                                                 |                |                                                  |
|                                              | r P Roadwa              | TR PATP               | Readway#3      | LIL LON                                                                                                         | Roadway#4      | Lik Co                                           |
| Roadway#1 <u>/*//</u><br>Direction <u>(*</u> |                         | 2                     | Direction      | <u>EB</u>                                                                                                       | Direction      | <u> </u>                                         |
| 1st                                          | 2nd                     | 1st 2nd<br>368        | seto           | 1st 2nd<br>(너ઠ) 중5금                                                                                             | auto           | 1st                                              |
| suto _ <b>579</b><br>med. trk <b>2</b> 7     | ned, t                  |                       | med. trk.      | 2 12                                                                                                            | med. trk.      |                                                  |
| hey trk                                      | hvy tr                  | × <u>41</u>           | bvy trk        | _2 12                                                                                                           | hvy trk.       | <u>10 00</u><br>8                                |
| bus/                                         | bus                     | 6                     | bus            |                                                                                                                 | bua            | 0.0                                              |
| notorcycle/                                  | 2000r                   | cycle                 |                |                                                                                                                 | motorcycle     | ·                                                |
| na n     |                         | cycle                 |                |                                                                                                                 | motorcycle     | ·                                                |
| NOTES:                                       |                         |                       |                | éa :                                                                                                            |                | ·                                                |
| NOTES:                                       |                         |                       |                |                                                                                                                 | motorcycle     | ·                                                |
| NOTES:                                       |                         |                       |                | éa :                                                                                                            |                | •                                                |
| NOTES:                                       | 220tor                  | Freder                |                | éa :                                                                                                            |                | •                                                |
| NOTES:                                       | 220tor                  |                       |                | éa :                                                                                                            |                |                                                  |
| NOTES:                                       |                         |                       |                | éa :                                                                                                            |                |                                                  |
| NOTES:                                       |                         | Freid                 |                | £Α<br>ωα                                                                                                        |                |                                                  |
| NOTES:                                       |                         | Freid                 |                | £Α<br>ωα                                                                                                        |                |                                                  |
| NOTES:                                       |                         | Freid                 | Can est        | £Α<br>ωα                                                                                                        |                |                                                  |
| NOTES:                                       |                         | Freid                 | <br>           | EA<br>WA                                                                                                        |                |                                                  |
| NOTES:                                       |                         | Freid                 | Can est        | £Α<br>ωα                                                                                                        |                |                                                  |
| NOTES:                                       |                         | Freid                 | <br>           | EA<br>WA                                                                                                        |                |                                                  |
| NOTES:                                       |                         | Freid                 | <br>           | EA<br>WA                                                                                                        |                |                                                  |
| NOTES:                                       |                         | Freid                 | <br>           | EA<br>WA                                                                                                        |                |                                                  |
| NOTES:                                       |                         | Freid                 | <br>           | EA<br>WA                                                                                                        |                |                                                  |
| NOTES:                                       |                         | Frel-ol<br>SL         | <br>           | EA<br>WA                                                                                                        |                |                                                  |

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| OJECT:                     | PIA               | 308.             | 312                                        |       |              | i i                              |                           | _6            | Newlin          | ML       | si -                                  |
|----------------------------|-------------------|------------------|--------------------------------------------|-------|--------------|----------------------------------|---------------------------|---------------|-----------------|----------|---------------------------------------|
|                            | 0.000000000000000 |                  |                                            |       | Ganneti      | -                                |                           |               |                 |          |                                       |
| 1999-1998 - 19976.         | r-^ []            |                  |                                            |       | Fleming, I   |                                  | M                         | eter Sto      | rage #          | 196      |                                       |
| 이번에 영향하는 것은                | - C.S. 2200       | 200 - 30         |                                            |       | 102          | _                                |                           |               |                 |          |                                       |
| TPE 🗋                      | Resider           | ntial 🗌          | ] Commerci                                 | al 🗌  | Religion [   | ] Educati                        | ional [                   | Other         | 1.              | 8        | - N                                   |
| easure                     | ment l            | Data             |                                            |       |              | Pho                              | otograpl                  | h <b>#</b> 's | <u>.</u>        |          |                                       |
| M Calib                    | ration            | before           | <u>_94.0</u> _                             | after |              | -                                |                           |               | GPS PT _        | 026      |                                       |
| ather:                     |                   | tempe            | rature                                     |       | wind speed   | <u>0 77 0</u>                    | clot                      | d oover       | <u> </u>        |          |                                       |
| me                         | 1st               | start            | 11:22                                      | stop  | <u>it 42</u> | _ total _4                       | <u>zo _</u>               | <u> </u>      |                 |          |                                       |
|                            | 2nd               | start            | 2 <u>2 - 12 - 1</u> 20 - 1                 |       | <u> </u>     | total                            |                           |               | 94.8            |          |                                       |
| ata:                       | 1st               | Leg              | 64.0                                       |       | <u> 16.4</u> |                                  | 54.9                      |               | -141.0          | ana i    |                                       |
|                            | 2nd               | ieq              | 1. 10 - 10 - 10                            | Lmax  | <u></u>      |                                  |                           | SEL           | 2 <u>8</u>      | - 100 A  |                                       |
| raffic                     | Data              |                  |                                            |       |              |                                  |                           |               |                 |          |                                       |
|                            | PATT              | 9                | Rondway#2                                  | PA-   | TP           | Roadway#8                        |                           |               | Rondway#4       |          |                                       |
|                            | EB                | <del>10-0</del>  | Direction                                  | - W   |              | Direction                        |                           |               | Direction       | <u> </u> |                                       |
| rection                    | Lat .             | 2nd              | Difference                                 |       | 200          |                                  | 1st                       | 2nd           |                 | 1st      | 200                                   |
| uto                        | 304               |                  | outo                                       | 386   | <u> </u>     | auto                             | · <del></del>             | <b>.</b>      | auto            |          | 2<br>2 - 20 -                         |
|                            | 13                |                  | med. trk.                                  | -10   |              | med. trk.                        | <u> </u>                  |               | med. trk.       |          |                                       |
| vy trk.                    | 17                |                  | hvy trk.                                   | - 80  |              | hvy trk.                         |                           | <u> </u>      | hvy trk.<br>bus |          | 1                                     |
|                            |                   |                  |                                            |       |              | buz                              | -                         |               | DUA             | 3        |                                       |
| us<br>intorcycle           |                   |                  | চায়<br>motorcycle<br>947 <u>76 (2.3</u> % |       | in bla       | matarcyclu<br>292.12.            | 200 <del>000 - 2</del> 12 | nince         | motorcyck       | 8        | A.B                                   |
| us<br>aotorcycle           | 0                 | - <u>@a\</u> . W | motorcycle                                 |       | in bla       | 57757678967957 <del>7</del> 6768 | 200 <del>000 - 2</del> 12 |               |                 | 8        |                                       |
| us<br>aotorcycle           | lene +            | - <u>col</u> u   | motorcycle                                 |       | in bla       | 57757678967957 <del>7</del> 6768 | 200 <del>000 - 2</del> 12 |               |                 | 8        | 3 <b></b> .                           |
| us<br>aotorcycls<br>IOTES: | lene +            | -201 L           | motorcycle                                 |       | in bka<br>   | 57757678967957 <del>7</del> 6768 | <u> </u>                  |               |                 | 8        |                                       |
| us<br>aotorcycls<br>IOTES: | lene +            |                  | motorcycle                                 |       |              |                                  | Nosr<br>ATP               |               | <u>сан Бр</u>   | 8        | · · · · · · · · · · · · · · · · · · · |
| us<br>aotorcycls<br>IOTES: | lene +            | - <b>201</b> IN  | motorcycle                                 |       |              |                                  | Nosr<br>ATP               |               | <u>сан Бр</u>   | 8        |                                       |
| iotorcycle                 | lene +            | - <b>Gol</b> In  | motorcycle                                 |       |              |                                  | Nosr<br>ATP               |               | <u>сан Бр</u>   | 8        | 3 <b>43-</b>                          |
| us<br>autorcycls<br>IOTES: | lene +            |                  | motorcycle                                 |       |              |                                  | Nosr<br>ATP               |               | <u>сан юр</u>   | 8        |                                       |
| iotorcycle                 | lene +            | - <b>201</b> IN  | motorcycle                                 |       |              |                                  | Nosr<br>ATP               |               | <u>сан юр</u>   | 8        |                                       |
| us<br>autorcycls<br>IOTES: | lene +            | - <b>201</b> IN  | motorcycle                                 |       |              |                                  | Nosr<br>ATP               |               | <u>сан юр</u>   | 8        |                                       |
| us<br>autorcycls<br>IOTES: | lene +            | - <u>Col</u> Iu  | motorcycle                                 |       |              |                                  | Nosr<br>ATP               |               | <u>сан юр</u>   | 8        |                                       |
| us<br>autorcycls<br>IOTES: | lene +            | - <b>201</b> In  | motorcycle                                 |       |              |                                  | Nosr<br>ATP               |               | <u>сан юр</u>   | 8        |                                       |
| us<br>autorcycls<br>IOTES: | lene +            | - <b>Gal</b> In  | motorcycle                                 |       |              |                                  | Nosr<br>ATP               |               | <u>сан юр</u>   | 8        |                                       |
| us<br>autorcycls<br>IOTES: | lene +            | - <u></u>        | motorcycle                                 |       |              |                                  | Nosr<br>ATP               |               | <u>сан юр</u>   | 8        |                                       |
| us<br>autorcycls<br>IOTES: | lene +            | - <b>201</b> In  | motorcycle                                 |       |              |                                  | Nosr<br>ATP               |               | <u>сан юр</u>   | 8        |                                       |
| us<br>aotorcycls<br>IOTES: | lene +            | - <b>Gal</b> In  | motorcycle                                 |       |              |                                  | Nosr<br>ATP               |               | <u>сан юр</u>   | 8        |                                       |
| us<br>aotorcycls<br>IOTES: | lene +            | - <b>201</b> In  | motorcycle                                 |       |              |                                  | Nosr<br>ATP               |               | <u>сан юр</u>   | 8        |                                       |
| us<br>aotorcycls<br>IOTES: | lene +            | - <b>201</b> IN  | motorcycle                                 |       |              |                                  | Nosr<br>ATP               |               | <u>сан юр</u>   | 8        |                                       |
| us<br>aotorcycls<br>IOTES: | lene +            | - <b>Gal</b> In  | motorcycle                                 |       |              |                                  | Nosr<br>ATP               |               | <u>сан юр</u>   | 8        |                                       |
| us<br>aotorcycls<br>IOTES: | lene +            |                  | motorcycle                                 |       |              |                                  | Nosr<br>ATP               |               | <u>сан юр</u>   | 8        |                                       |
| us<br>aotorcycls<br>IOTES: | lene +            | - <b>201</b> IN  | motorcycle                                 |       |              |                                  | Nosr<br>ATP               |               | <u>сан юр</u>   | 8        |                                       |

Highway Noise Monitoring Sheet

See.

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|                        |                  |                        | Highway           | y Noi:       | se Mo        | nitorin           | ig St          | neet      |                   |              |                  |
|------------------------|------------------|------------------------|-------------------|--------------|--------------|-------------------|----------------|-----------|-------------------|--------------|------------------|
| DATE: 6                | 10/14            | 2                      |                   |              | N            | <b>4</b>          |                | ADDRESS   | k                 | - 3          | , —              |
| PROJECT:               | PA Ture          | she 3                  | 08-312            |              |              |                   |                | 2         | Nauten            | <u>r</u> (   |                  |
| 108 #                  | 56583            | . 115                  | 1                 |              | Gannet       |                   |                | NON 1995  | /                 |              |                  |
| CONTRACTOR OF          | 1-12             | NO                     | an an th-sai      |              | Fleming.     |                   | 3              | (eter Sto | rage #            | 210          |                  |
|                        |                  | Sec. 52                |                   | . — .        |              | - Februart        |                |           |                   |              |                  |
| ТҮРЕ 🔽                 | Resider          | itiai L                | ] Commercia       | ม 🗌 ห        | engion [     |                   |                |           | · .:              | -0. 8        | - <del>5</del> 8 |
| Measure                | ement I          | Data                   |                   |              |              | Pho               | otograp        | h #'s     |                   | L D2         |                  |
| SLM NO.                |                  | SL                     | d Calibration     | i before     | 9.4.0        | after             | . <del>.</del> | 32        | GPS PT (          | <u> </u>     |                  |
| Weather:               |                  | temper                 | reture            |              | ind speed    |                   |                |           | <u> 191 - 1</u> 7 |              |                  |
| Time:                  | 1st              | start                  | 12:50%            |              |              |                   | 2.0 m          | WK        |                   |              |                  |
| Deta:                  | 2nd<br>1st       | start<br>Leg           | 56.2              |              | 63.4         |                   | 50.            | Z REL     | 87.0              | <u></u>      |                  |
| Deta.                  | 2nd              | Leg                    |                   | Lmax _       |              |                   | _              | 0.655     | <u>18 - 81 </u>   | 0255         |                  |
| Traffic                | Data             | -1674 <del>-1</del> 62 |                   |              |              |                   |                |           |                   |              |                  |
|                        | 0                | -0                     | Rondway 2         | De           | 50           | Roadway           |                | 15        | Roadway#4         |              |                  |
| Roadwey#1<br>Direction | EB.              | - 30 - 30              | Direction         | we           |              | Direction         |                | 10        | Direction         | 51<br>       |                  |
| Di temo                | 1.54             | 2nd                    | 040.000.0400 - 07 | Lat<br>Arite | and          |                   | Int            | Rad       | auto              | 1st          | 2nd              |
| euto                   | .350             |                        | auto<br>med. trk. | 346          |              | auto<br>med. trk. | 555            |           | med. trk.         |              |                  |
| gned. trk.<br>hvy trk. | 53               |                        | hvy trk.          | 82           | -            | hwy trk.          |                |           | hwy trk.          |              | <u>e - </u> g    |
| bus                    | 1                |                        | bus .             | 3            |              | bus               | 8              |           | bus               |              |                  |
|                        | 10               |                        |                   |              |              | _                 |                |           |                   |              |                  |
| SITE SKI               | TCH              |                        |                   |              |              |                   | 1              |           |                   |              |                  |
|                        |                  |                        |                   |              |              | /                 | 7 Turn1        | jke.      |                   |              | aļm              |
|                        |                  |                        | ÷7                | 1            |              |                   | 10111          |           | ········          |              | · • • • • • •    |
|                        |                  |                        |                   | (            |              |                   | <u>.</u>       |           |                   |              |                  |
|                        |                  |                        |                   | (            |              |                   | , <u>.</u>     |           |                   |              |                  |
|                        |                  | 1                      | i Ling            |              |              |                   |                |           |                   |              |                  |
|                        |                  |                        |                   |              | 5i.          |                   |                |           |                   |              |                  |
|                        |                  |                        |                   |              | Ei           |                   |                |           |                   |              | :                |
|                        |                  | 1. 34 . 14             |                   |              | 옷 가장은 것      | N 81 81 1         | • • • •        | 60 CC 50  |                   | S - 50 - 509 |                  |
|                        | 3                | 199                    | Viame ul          |              |              |                   |                |           |                   |              |                  |
|                        |                  | ${\mathbb Z}^2$        | i an ul           |              | 24           |                   |                |           |                   |              |                  |
|                        | C                |                        | t are ship        | R            | 26           |                   |                |           |                   |              |                  |
|                        | ۵<br>;           |                        | 21 an 24          | 19<br>2 1 S  | 1 m Pl       |                   |                |           |                   |              |                  |
|                        | C<br>;<br>;<br>; | 22                     |                   |              | culus Pl     |                   |                |           |                   |              |                  |
|                        | с<br>;<br>,      | 22                     |                   |              | Newlin PL    |                   |                |           |                   |              |                  |
|                        | C<br>L           | 22                     |                   |              | Newlin PL    |                   |                |           |                   |              |                  |
|                        | с<br>;<br>;<br>; |                        |                   |              | New/in PL    |                   |                |           |                   |              |                  |
|                        | C<br>I<br>I      | 22<br>7<br>7<br>7      |                   |              | 1 New/ 12 PL |                   |                |           |                   |              |                  |
|                        | 2<br>;<br>;<br>; | 22                     |                   |              | T New/rin PL |                   |                |           |                   |              |                  |

| YPE 🗋                  | Residet | atial 🗌                                      | Commerci                        | el 🗌 Rei | ligion [         | ] Educati             | ional 📋     | Other         |                              | 3 <u>5</u>              | 8             |
|------------------------|---------|----------------------------------------------|---------------------------------|----------|------------------|-----------------------|-------------|---------------|------------------------------|-------------------------|---------------|
| 6.50                   | ment l  |                                              |                                 |          |                  |                       |             |               | 2. 22                        |                         |               |
| LM Calib               |         |                                              | 94                              | after    | _                | 20                    |             |               | GPS PT                       |                         | -             |
| eather:                |         |                                              | arature <u>54</u>               |          | d speed          | 0-5                   | oloud       | eover         | 0                            |                         |               |
| ime:                   | 1st     | 2015-02-02-02-02-02-02-02-02-02-02-02-02-02- | 10:45                           | stop     | 1:05             | total                 | 2.0         | <u></u>       |                              |                         |               |
|                        | 2nd     | stort                                        | 2 <u> </u>                      | stop     |                  | total _               |             |               |                              |                         |               |
| ata:                   | 1st     | Log                                          | 62.8                            |          | 9.9_             |                       | 54.6        |               | 93.6                         | <u> </u>                |               |
|                        | 2nd     | Leq                                          | 3 <del></del>                   | 1mex     | 10 - T           | _ 1.min _             | <u> 22</u>  | SEL           |                              |                         |               |
| raffic                 | Data    |                                              |                                 |          |                  |                       |             |               |                              |                         |               |
|                        | PATI    | D                                            | Roadway#2                       | PATP     |                  | Roadway#S             |             |               | Rondway                      | 4                       |               |
| ioadway#1<br>Firection | EB      | <u> </u>                                     | Direction                       | WB       | <u>.</u>         | Direction             |             |               | Direction                    | ana ana<br>M <u>ara</u> |               |
| L COUCH                | 1st     | 2nd                                          |                                 | ist      | 2nd              | 1000                  | 1st.        | 2nd           | 1000                         | 1st                     | 1 21          |
| nto                    | 298     |                                              | auto                            | 323      | <u>1997 - 19</u> | auto                  |             |               | auto<br>med. trk.            |                         |               |
| nød. tric.             | 75      |                                              | med. trk.                       | 20<br>BY | - 2012           | med. trk.<br>hvy trk. |             |               | hvy trk.                     | 8 <del></del>           | -<br>27 - 128 |
| wy irk.                | - 12    | <u> </u>                                     | hvy trk.                        | 0        |                  | bus                   |             |               | bus                          | 14                      |               |
| us<br>notorcycle       | -2      |                                              | bus<br>motorcycle               |          | - 55             | motoroycle            | × 10        | <u> 55</u> 28 | motoroyc                     | le                      | 1.0           |
| NOTES:                 |         |                                              |                                 |          | 5                |                       |             | 281           | 30                           | 0                       |               |
| NOTES:                 |         | <u></u>                                      | <u>en 10</u><br>1 <u>0 - 11</u> |          | (c)<br>(c)       |                       | an<br>ai ai |               | 31                           | -                       | - 55          |
| <u>. (7</u>            |         |                                              |                                 |          |                  |                       |             |               |                              |                         | -<br>         |
| NOTES:                 | TCH     |                                              |                                 |          |                  |                       |             |               |                              |                         |               |
| <u>. (7</u>            | TCH     |                                              |                                 |          | 4                |                       |             |               | IN De                        | 44.20                   |               |
| <u>. (7</u>            | TCH     |                                              |                                 |          | 4                | • W                   |             |               | IN De                        | 4 20                    | <b>-</b>      |
| <u>. (7</u>            | TCH     |                                              |                                 |          | •                |                       |             |               | and the second second second | ¢4.2.0                  | <b>TT</b>     |
| <u>. (7</u>            | TCH     |                                              |                                 |          |                  |                       |             |               | and the second second second | 4 20                    | <b>r-</b>     |
| <u>. (7</u>            | TCH     |                                              |                                 |          |                  |                       |             |               | and the second second second | ¢ # . E . o             | 7-            |
| <u>. (7</u>            | TCH     |                                              |                                 |          |                  |                       |             |               | and the second second second | 4 2 0                   | <b></b>       |
| <u>. (7</u>            | FTCH    |                                              |                                 |          | )                |                       |             |               | and the second second second | ¢ 4 . ¢ 0               | -             |
| <u>. (7</u>            | TCH     |                                              |                                 |          | - <b>-</b>       |                       |             |               | and the second second second | ¢ # . £ . 0             |               |
| <u>. (7</u>            | TCH     |                                              |                                 |          |                  |                       |             |               | and the second second second | 420                     |               |
| <u>. (7</u>            | TCH     |                                              |                                 |          | )                |                       |             |               | and the second second second | ¢ 4 . ¢ . o             | -             |
| <u>. (7</u>            | TCH     |                                              |                                 |          |                  |                       |             |               | and the second second second | ¢ # . £ . 0             |               |
| <u>. (7</u>            | TCH     |                                              |                                 |          |                  |                       | *           |               | and the second second second | 4.20                    |               |
| <u>. (7</u>            | TCH     |                                              |                                 |          |                  |                       |             |               | and the second second second | ¢ ¢ , ¢ , o             | <b>7</b>      |
| <u>. (7</u>            | TCH     |                                              |                                 |          |                  |                       | *           |               | and the second second second | ¢ # . č . o             |               |
| <u>. (7</u>            | TCH     |                                              |                                 |          |                  |                       | *           |               | and the second second second | ¢ # . č                 |               |
| <u>. (7</u>            | TCH     |                                              |                                 |          |                  |                       |             |               | and the second second second | ¢ ¢ , ¢ , o             |               |
| <u>. (7</u>            | TCH     |                                              |                                 |          |                  |                       |             |               | and the second second second | ¢ A . E . O             |               |
| <u>. (7</u>            | TCH     |                                              |                                 |          |                  |                       |             |               | and the second second second | ¢ # . č                 |               |
| <u>. (7</u>            | TICH    |                                              |                                 |          |                  |                       | *           |               | and the second second second |                         |               |

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|                                                |            |          |                       |                   |                | N                | 1_             |                  | ADDRES       | S:           |                |       |              |
|------------------------------------------------|------------|----------|-----------------------|-------------------|----------------|------------------|----------------|------------------|--------------|--------------|----------------|-------|--------------|
| )ATE: <u>(</u> -                               |            | <u></u>  | a neme la             | 10                |                |                  | 1              |                  | 107          |              | 110            | L. I  | ι            |
| ROJECT: j                                      |            |          | 312                   | -0                |                |                  |                |                  |              | 12411        | N ETC.         | 540 C | <u> </u>     |
| ob <u># _ </u>                                 | 56583      | 1151     | 7 - 28                | -                 |                | Ganne<br>Fleming |                |                  |              |              |                | ail   | 8            |
| NTE ID 🗧                                       | m12.4      | <u> </u> | 10                    | -0                |                | F Section 1      |                | j                | leter Sto    | orage #      |                |       | d - 16       |
| MPE 🗹                                          | Reside     | ntial [  | ] Com                 | mercie            | ม 🗌            | Religion         | Educe          |                  |              |              |                |       |              |
| leasure                                        | ment       | Data     |                       |                   |                |                  | P              | hotograp         | h #'s        |              |                |       |              |
| SLM Calib                                      | ration     | before   | 94,                   | ,6                | after          |                  |                |                  |              | GPS F        | יזי            | 124   | 10           |
| Weather:                                       |            |          | rature _              | 0.4               | 1              | wind speed       | 0-5            | elo              | ud cover_    | 0            |                |       |              |
| lime:                                          | 1st        |          | 10116                 |                   |                | 10:36            |                |                  | <u> </u>     |              |                |       |              |
|                                                | 2nd        | start    | 1 <u></u>             | -                 | stop           | -                | total          |                  |              | ~            | 72             |       |              |
| D <b>at</b> a:                                 | 1st        | Leg      | 42.5                  |                   |                | - <u>70 N</u>    | Lmin           | 50.3             | 5 SEL<br>SEL |              | 3.3            | - 26  |              |
|                                                | 2nd        | Leq      |                       | - <u>6</u> 2      | Lmex           | -                | Imin           | 3 <u>2 - 34</u>  |              |              |                | -     |              |
| Traffic                                        | Data       |          |                       |                   |                |                  |                |                  |              |              |                |       |              |
| Roadway#1                                      | PAT        | ρ        | Roady                 | way 😵 _           | PAT            | P                | Roadway        | 18 <u>~~~</u> 81 | 16.CM        | Roadw        | m <b>7#4</b> _ |       |              |
| Direction                                      | EB         |          | Direc                 |                   | we             | 3                | Direction      | - <u> </u>       |              | Direct       | ion _          | -     |              |
|                                                | 375        | 2nd      |                       |                   | 1st<br>342     | 2nd              | auto           | 10t<br>194       | 2ad          | suto         | _              | 1st   | 2nd          |
| auto<br>med. trk.                              | 15         |          | auto<br>med.          | trk.              | 9              |                  | med. trk       | 2010/09/00/2014  |              | med.         | trk.           |       |              |
|                                                | 73         |          | hvy t                 | 115               | 113            | -0 53            | hvy trk.       | 22               | 0 0 0        | hwy ta       | rk. "          |       |              |
| hvy trk.                                       | 12         | S        | <b>H</b> 1 <b>J</b> 1 | C.R               | 110            |                  |                |                  |              | _            |                |       | 2            |
| hvy trk.<br>bus                                | 1          |          | bus                   | ств<br>_          | 5              | 1                | рив            |                  |              | bus          | ÷              | 2     |              |
| hvy trk.<br>bus<br>motorcycle<br><u>NOTES:</u> |            |          | ban                   | rcycle _          | 5              |                  | рив<br>motorcy | cio              |              | bus<br>motor | -<br>royale _  | 6<br> | 2<br>24<br>4 |
| bus<br>motorcycls<br><u>NOTES:</u>             | <u>-</u> 4 |          | ban                   | -10<br>-10<br>-10 | 5              |                  |                | clo              |              |              | reyale _       |       |              |
| bus<br>motorcycle                              | <u>-</u> 4 | -        | ban                   | -10<br>-10<br>-10 | <u>5</u><br>1_ |                  |                | : w              |              |              |                |       |              |
| bus<br>motorcycls<br><u>NOTES:</u>             | <u>-</u> 4 |          | ban                   | -10<br>-10<br>-10 |                |                  |                | : W              |              |              | coyole _       |       |              |
| bus<br>motorcycls<br><u>NOTES:</u>             | <u>-</u> 4 |          | ban                   | -10<br>-10<br>-10 |                |                  |                | : w              | Þ            |              | coyole _       |       |              |
| bus<br>motorcycls<br><u>NOTES:</u>             | <u>-</u> 4 |          | ban                   | -10<br>-10<br>-10 | 5              |                  |                | : W              | >            |              | royale _       |       |              |
| bus<br>motorcycls<br><u>NOTES:</u>             | <u>-</u> 4 |          | ban                   | -10<br>-10<br>-10 |                |                  | motorcy        | : W              | Þ            |              | coyole _       |       |              |
| bus<br>motorcycls<br><u>NOTES:</u>             | <u>-</u> 4 |          | ban                   | -10<br>-10<br>-10 | 5              |                  | motorcy<br>    | بر<br>غ          | >            |              | coyole _       |       |              |
| bus<br>motorcycls<br><u>NOTES:</u>             | <u>-</u> 4 | -        | ban                   | -10<br>-10<br>-10 |                |                  | motorcy        | بر<br>غ          | Þ            |              | coyole _       |       |              |
| bus<br>motorcycls<br><u>NOTES:</u>             | <u>-</u> 4 |          | ban                   | -10<br>-10<br>-10 | 5              |                  | motorcy<br>    | بر<br>غ          |              |              |                |       |              |
| bus<br>motorcycls<br><u>NOTES:</u>             | <u>-</u> 4 |          | ban                   | -10<br>-10<br>-10 |                |                  | motorcy<br>    | بر<br>غ          | Þ.           |              |                |       |              |
| bus<br>motorcycls<br><u>NOTES:</u>             | <u>-</u> 4 |          | ban                   | -10<br>-10<br>-10 | 5              |                  | motorcy<br>    | بر<br>غ          |              |              | coyole _       |       |              |
| bus<br>motorcycls<br><u>NOTES:</u>             | <u>-</u> 4 |          | ban                   | -10<br>-10<br>-10 | 5              |                  | notorcy        | بې<br>ئې         |              |              |                |       |              |
| bus<br>motorcycls<br><u>NOTES:</u>             | <u>-</u> 4 |          | ban                   | -10<br>-10<br>-10 |                |                  | notorcy        | بې<br>غ<br>۲     |              |              |                |       |              |
| bus<br>motorcycls<br><u>NOTES:</u>             | <u>-</u> 4 |          | ban                   | -10<br>-10<br>-10 | 5              |                  | notorcy        | بې<br>ئې         |              |              |                |       |              |
| bus<br>motorcycls<br><u>NOTES:</u>             | <u>-</u> 4 |          | ban                   | -10<br>-10<br>-10 | 5              |                  | notorcy        | بې<br>ئې         |              |              |                |       |              |
| bus<br>motorcycls<br><u>NOTES:</u>             | <u>-</u> 4 |          | ban                   | -10<br>-10<br>-10 | 5              |                  | notorcy        | بې<br>ئې         |              |              |                |       |              |
| bus<br>motorcycls<br><u>NOTES:</u>             | <u>-</u> 4 |          | ban                   | -10<br>-10<br>-10 | 5              |                  | notorcy        | بې<br>ئې         |              |              |                |       |              |
| bus<br>motorcycls<br><u>NOTES:</u>             | <u>-</u> 4 |          | ban                   | -10<br>-10<br>-10 | 5              |                  | notorcy        | بې<br>ئې         |              |              |                |       |              |
| bus<br>motorcycls<br><u>NOTES:</u>             | <u>-</u> 4 |          | ban                   | -10<br>-10<br>-10 |                |                  | notorcy        | بې<br>ئې         |              |              |                |       |              |
| bus<br>motorcycls<br><u>NOTES:</u>             | <u>-</u> 4 |          | ban                   | -10<br>-10<br>-10 | 5              |                  | notorcy        | بې<br>ئې         |              |              |                |       |              |

Highway Noise Monitoring Sheet

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| YPE 🗹             | Reside           | ntial 🗌            | ] Commerc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ział 🔲  | Religion [         |                 |                                               |                 |                        |              |                                          |     |
|-------------------|------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------|-----------------|-----------------------------------------------|-----------------|------------------------|--------------|------------------------------------------|-----|
| leasure           | ment ]           | Data               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |                    | Pho             | otograph                                      | .#´s            |                        |              |                                          |     |
| SLM Calib         | ration           | before             | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | after   |                    | -               |                                               |                 | GPS P                  | т <u>о</u> 2 |                                          | 0   |
| Weather:          |                  | tempe              | rature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         | wind speed         |                 | clou                                          | d cover_        |                        |              |                                          |     |
| ime:              | 1st              |                    | 9:47                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | _ stop  | 10.07              | total           | 20                                            | <u> </u>        |                        |              |                                          |     |
|                   | 2nd              | start              | 4644                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | _ stop  | 900 al             | total           | 50.5                                          | set.            | 97.                    | 2            |                                          |     |
| )ata:             | 1st<br>2nd       | Leg<br>Leg         | <u></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         | _ <u>(x.</u>       |                 | <u>, , , , , , , , , , , , , , , , , , , </u> |                 |                        |              |                                          |     |
|                   |                  | Test               | 3 <del>5 - 65 - 1</del> 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10      | 19                 |                 |                                               |                 |                        |              |                                          |     |
| Fraffic           |                  |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 43 -    |                    |                 |                                               |                 |                        |              |                                          |     |
| Roadway#1         |                  |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         | P                  | Roadway#3       |                                               |                 | Roadwi<br>Directi      | oy#4         | 52                                       | _   |
| <b>Krection</b>   | <u>EC</u><br>1at | 2nd                | Direction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         | 220d               | Direction       | 200 L 100                                     | 2nd             | Dit off                |              | unt ,                                    | 2   |
| uto               | 393              |                    | auto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | _3//    |                    | auto            |                                               |                 | ento                   |              | -                                        | 355 |
| med. trk.         |                  | <u> </u>           | med. trk.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -       | 201                | med. trk.       | <u>20</u> 20                                  | <u>a ca a</u> t | med. (<br>hvy tr       | 1999 - N     |                                          | 2   |
| hvy trk.          | 63               |                    | hwy trk.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 85      |                    | hvy tek.<br>bus | 0 0                                           |                 | buz                    | • -          |                                          |     |
| bus<br>motorcycle | <u> </u>         | <u>e 10</u> - 10   | bus<br>motorcych                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |                    | motorcycl       |                                               | 8 - CX - GR     |                        | oyele        | 1                                        |     |
|                   | <u></u>          |                    | 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19 |         |                    |                 | 15                                            | -               | <u>0</u><br>1 <u>0</u> | -80;<br>24   | <u>72 - 8</u><br>7 <u>9 6</u><br>76 - 67 |     |
| NOTES:            | тсн              |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u></u> |                    |                 |                                               |                 |                        | 0);<br>24    |                                          |     |
| NOTES:            | тсн              |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |                    |                 | TR                                            |                 |                        | -            |                                          |     |
| NOTES:            | тсн              |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         | 4                  |                 | TP<br>E                                       |                 |                        | -            |                                          |     |
| NOTES:            | <u>TCH</u>       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |                    |                 |                                               | w.              |                        |              |                                          |     |
| NOTES:            | тсн              |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         | 4                  |                 |                                               | w <b>a</b>      |                        |              |                                          |     |
| NOTES:            | <u>TCH</u>       |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |                    |                 |                                               | <b></b>         |                        |              |                                          |     |
| NOTES:            | тсн              |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |                    |                 |                                               | ~               |                        |              |                                          |     |
| NOTES:            | TCH              |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |                    |                 |                                               | <b>~</b>        |                        |              |                                          |     |
| NOTES:            | тсн              |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         | <b>4</b><br>•<br>• |                 |                                               | ~               |                        |              |                                          |     |
| NOTES:            | TCH              |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |                    |                 |                                               | <b>~</b>        |                        |              |                                          |     |
| NOTES:            | TCH              |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         | <b>4</b>           |                 |                                               | w <b>a</b>      |                        |              |                                          |     |
| NOTES:            | TCH              | Sa 26              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |                    |                 |                                               | <b>~</b>        |                        |              |                                          |     |
| NOTES:            | TCH              | Sare               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |                    |                 |                                               | ₩               |                        |              |                                          |     |
| NOTES:            | тсн              | 24.6               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |                    |                 |                                               | <b>W</b>        |                        |              |                                          |     |
| NOTES:            | TCH              | 28 %               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |                    |                 |                                               | ¥.              |                        |              |                                          |     |
| NOTES:            | тсн              |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |                    |                 |                                               | <b>~</b>        |                        |              |                                          |     |
| NOTES:            | TCH              | <b>Sa</b> <i>e</i> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |                    |                 |                                               | Y               |                        |              |                                          |     |
| NOTES:            | TCH              | Sa S               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |                    |                 |                                               | w.              |                        |              |                                          |     |
| NOTES:            | тсн              |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |                    |                 |                                               | <b>~</b>        |                        |              |                                          |     |

### Highway Noise Monitoring Sheet

8 8

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| YPE 🖸                 | Reside           | ntial [ | ] Commerc         | ial 📋 🛛      | Religion [ | 🗋 Educati      | onel 🗌     | Other                                 |           | 21 <u>-</u>                 | _                                             |
|-----------------------|------------------|---------|-------------------|--------------|------------|----------------|------------|---------------------------------------|-----------|-----------------------------|-----------------------------------------------|
| [easure               | ment             | Data    |                   |              |            | Pho            | tograph    | #'s                                   |           |                             |                                               |
| LM Calib              | ration           | before  | 94.0              | after        |            | <u> </u>       |            |                                       | GPS PT_   | 021                         |                                               |
| feather:              |                  | tempe   | nature <u>8</u>   |              |            | 0-5            |            |                                       | 0         |                             |                                               |
| ime:                  | 1st              |         | 4:07              |              | 9:27       | _ total _      | 20         | <u> </u>                              |           |                             |                                               |
|                       | 2nd              | start   | <u> </u>          | _ atop .     |            |                | 61 A       | -                                     | 454       |                             |                                               |
| )ata:                 | 1st              |         | 40.9              | _ Imax       | 68.1       | Louin<br>Louin | 25.12      |                                       | <u> </u>  |                             |                                               |
|                       | 2nd              | Leq     |                   | Linex        |            |                |            |                                       |           |                             |                                               |
| <b>fraffic</b>        | Data             |         |                   |              |            |                |            |                                       |           |                             |                                               |
| toadway#1             | PAT              | P       | Roadway#2         | _PI          | A TP       | Roadway#S      |            |                                       | Rondway   | 4                           | 18                                            |
| lirection             |                  |         | Direction         | - 4          | 18         | Direction      | 53,000 S V |                                       | Direction | 889 - <u>1965 -</u> 68      |                                               |
|                       | 1st              | and     |                   | 1et<br>11.30 | 2nd        | auto           | 1#t        | End                                   | auto      | 1st                         |                                               |
| auto                  | <u>381</u><br>23 |         | auto<br>med. trk. |              |            | med. tric.     |            |                                       | med. trk  |                             |                                               |
| med. trk.<br>hvy trk. | 2000 12 0 year   |         | hvy trk.          | 172          | <u> </u>   | hey trk.       |            |                                       | hvy trk.  |                             |                                               |
| bue                   | <del></del> ,    |         | bus               | 0            |            | bus            | ×.         |                                       | bus       | 8                           | 1                                             |
| motorcycle            | -                |         | matorcycle        | . 1          |            | motoreycle     |            | · · · · · · · · · · · · · · · · · · · | motoreyo  | le                          |                                               |
| NOTES:                |                  |         |                   |              |            |                |            |                                       | <u>.</u>  | <u>.</u>                    |                                               |
|                       |                  |         |                   |              |            |                |            | _                                     | 0<br>0    |                             |                                               |
|                       |                  |         |                   |              |            |                |            |                                       |           |                             | <u>,                                     </u> |
| NOTES:                |                  |         |                   |              |            | <u> </u>       |            | -0-                                   |           |                             |                                               |
| NOTES:                |                  |         |                   |              |            |                |            | -9                                    |           |                             |                                               |
| NOTES:                |                  |         |                   |              |            | 5              | •          | <b>-Ş</b> 2                           |           |                             |                                               |
| NOTES:                | TCH              |         |                   |              |            | 5              | •          | - <b>6</b> -                          |           | weekand <sub>seet</sub> , s | -                                             |
| NOTES:                | TCH              |         |                   |              |            | 5              |            | - <b>\$</b> -                         |           |                             |                                               |
| NOTES:                | TCH              |         |                   |              |            | 5              | *          | <b>-\$</b>                            |           |                             |                                               |
| NOTES:                | TCH              |         |                   |              |            | 5              | •          | -62                                   |           |                             |                                               |
| NOTES:                | TCH              |         |                   |              |            | 5              |            | - <b>P</b>                            |           |                             |                                               |
| NOTES:                | TCH              |         |                   |              |            | 5              |            | <b></b>                               |           |                             |                                               |
| NOTES:                | TCH              |         |                   |              |            | 5              |            | - <b>\$</b> 2                         |           |                             |                                               |
| NOTES:                | TCH              |         |                   |              |            | 5              |            | - <b>\$</b>                           |           |                             |                                               |
| NOTES:                | TCH              |         | Ber V             |              |            | 5              |            | <b>- 52</b>                           |           |                             |                                               |
| NOTES:                | TCH              |         |                   |              |            | 5              |            | - <b>5</b> 2                          |           |                             |                                               |
| NOTES:                | TCH              |         | Br X              |              |            |                |            | - <b>6</b> 2                          |           |                             |                                               |
| NOTES:                | TCH              |         | Ber V             |              |            |                |            | <b></b>                               |           |                             |                                               |
| NOTES:                | TCH              |         | A. A.             |              |            |                |            | <b>-52</b>                            |           |                             |                                               |
| NOTES:                | TCH              |         | BRX T             |              |            |                |            | - <b>5</b> 2                          |           |                             |                                               |
| NOTES:                | TCH              |         | Ber X             |              |            |                |            | - <b>6</b> -                          |           |                             |                                               |
| NOTES:                | TCH              |         | Br.K              |              |            |                |            |                                       |           |                             |                                               |
| NOTES:                | TCH              |         | Ber X             |              |            |                |            | - <b>6</b> 2                          |           |                             |                                               |
| NOTES:                | TCH              |         | Ber Y             |              |            |                |            | <b></b>                               |           |                             |                                               |

Highway Noise Monitoring Sheet

2.2

| ATE: 6-17-14                              |                                  |                     |                          |             | DDRESS:                                                                      | >                    |          |
|-------------------------------------------|----------------------------------|---------------------|--------------------------|-------------|------------------------------------------------------------------------------|----------------------|----------|
| ROJECT: HATP                              |                                  | 11                  |                          | -           | 301 PARK                                                                     | <u> </u>             |          |
| 0B <u># 56583</u>                         | 20.000 LD 20 XV2 002             |                     | Gannett<br>Fisming, Inc. | #3 Ha       |                                                                              | 10.0                 |          |
| яте ю <u>13-1</u>                         | SF 10. 10 4/20                   |                     |                          | MC          | ter Storage #                                                                | 1.1 2604 - 10.       |          |
| TYPE 🗌 Resider                            | ntial 🗌 Comm                     | nercial 🗌 R         | eligion 🗌 Edu            | acational 🗌 | Other                                                                        |                      | 16       |
| [easurement ]                             | Data                             |                     |                          | Photograph  | #'s                                                                          |                      |          |
| SIM Calibration                           | before 94.0                      | after               | <u></u> 8                |             | GPS P                                                                        | 120                  |          |
| Teather:                                  | temperatura                      |                     | tad speed <u>Or</u>      |             | 007407 <u>0</u>                                                              | -0                   |          |
| Time: 1st                                 | start <u>8:28</u>                |                     | <u>8:48</u> tota<br>tota |             |                                                                              |                      |          |
| 2nd<br>Data: 1st                          | start                            | stop<br>Lonax       |                          | m <u> </u>  |                                                                              | 1                    |          |
| 2nd                                       | Leg                              | 2.2                 | Lan                      | In          |                                                                              |                      |          |
| Traffic Data                              |                                  |                     |                          | A           |                                                                              |                      |          |
| Roadway#1 PAT                             | P Roadw                          | oyte PAT            |                          | ARK PARK    |                                                                              | 8788 <i>88</i> - 114 |          |
| DirectionEC                               | 000 <u>1000</u> 7000 - 000 00.00 | on <u>WE</u><br>1st | Direc<br>2nd             | tion        | Directio                                                                     | n<br>1st             | 2nd      |
| auto 198                                  | End auto                         | _334                | euto                     | 45          | auto                                                                         |                      |          |
| med. trk. <u>27</u><br>hvv trk. <u>73</u> | med. •<br>hwy ta                 | 100                 | med.                     | 0112        | med. t                                                                       |                      |          |
| hvy trk. <u>73</u><br>bus <u>7</u>        | bus                              | 3                   | bus                      | 8           | pan                                                                          | <u>8 8</u>           | <u> </u> |
| motorcycle                                | motor                            | cycle _/            | moto                     | rcycle      | motors                                                                       | yole                 |          |
|                                           |                                  |                     |                          |             |                                                                              |                      | <u></u>  |
| NOTES:                                    |                                  |                     |                          |             |                                                                              |                      |          |
|                                           |                                  |                     |                          |             |                                                                              |                      |          |
|                                           |                                  |                     |                          |             | - 12<br>- 25                                                                 |                      |          |
|                                           |                                  |                     |                          |             | ج- ن 9<br>جو 58                                                              |                      |          |
|                                           |                                  |                     |                          |             | < ب ₽<br>                                                                    |                      |          |
|                                           |                                  |                     | P::P                     |             | - we<br>- 4 56                                                               |                      | 7        |
|                                           |                                  |                     | <b>7:</b> P              |             | - w B<br>- 4 5 6                                                             |                      |          |
|                                           |                                  |                     | P                        |             | - w B<br>- 4 5 6                                                             |                      |          |
|                                           |                                  |                     |                          |             | B<br>                                                                        |                      |          |
|                                           |                                  |                     | P                        |             | - we<br>- 6                                                                  |                      |          |
|                                           |                                  |                     | <b>7</b> P               |             | - w B<br>- 4 5 6                                                             |                      |          |
|                                           |                                  |                     | <b>7</b> P               |             | - we<br>- 56                                                                 |                      |          |
|                                           |                                  |                     | <b>-1P</b>               |             | - wB<br>- 56<br>- 10<br>- 10<br>- 10<br>- 10<br>- 10<br>- 10<br>- 10<br>- 10 |                      |          |
|                                           |                                  |                     | P                        |             | - w B<br>- E6<br>- M                                                         |                      |          |
|                                           |                                  |                     | P                        |             | - w B<br>- 4 E 6<br>- 4 E 6                                                  |                      |          |
|                                           |                                  |                     | η.                       |             | - w B<br>- 4 E 6                                                             |                      |          |

...

## **APPENDIX B**

## **Noise Meters Certification of Calibration**



IIIAN GIIAS

ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1 ACCREDITED by NVLAP (an ILAC MRA signatory)



NVLAP Lab Code: 200625-0

## Calibration Certificate No.30302

| Instrument:    | Noise Dosimeter / SLM       |
|----------------|-----------------------------|
| Model:         | Spark 706                   |
| Manufacturer:  | Larson Davis                |
| Serial number: | 01595                       |
| Tested with:   | Microphone MPR002 s/n B0565 |
| Type (class):  | 2                           |
| Customer:      | Environmental Acoustics     |
| Tel/Fax:       | 717-730-4680 x19 / -4685    |

 Date Calibrated:1/7/2014
 Cal Due:

 Status:
 Received
 Sent

 In tolerance:
 X
 X

 Out of tolerance:
 See comments:
 See comments:

 Cantains non-accredited tests:
 Yes X
 No

 Calibration service:
 Basic X
 Standard

 Address:
 1400 Hummel Avenue
 Lemoyne, PA 17403

Tested in accordance with the following procedures and standards: Calibration of Sound Level Meters, Scantek Inc., Rev. 6/22/2012 SLM & Dosimeters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

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

| www.com.com.com.com.com     | 100000000000000000000000000000000000000 | e /N       | Col Date              | Traceability evidence    | Cal, Due     |  |
|-----------------------------|-----------------------------------------|------------|-----------------------|--------------------------|--------------|--|
| Instrument - Manufacturer   | Description                             | S/N        | Cal. Date             | Cal. Lab / Accreditation | cuil PPP     |  |
| 483B-Norsonic               | SME Cal Unit                            | 25747      | Jul 2, 2013           | Scantek, Inc./ NVLAP     | Jul 2, 2014  |  |
| DS-350-SR5                  | Function Generator                      | 61646      | Nov 20, 2012          | ACR Env./ A2LA           | Nov 20, 2014 |  |
| 34401A-Agilent Technologies | Digital Voltmeter                       | MY41022043 | Nov 22, 2013          | ACR Env. / AZLA          | Nov 22, 2014 |  |
| DPI 141-Druck               | Pressure Indicator                      | 790/00-04  | Nov 21, 2012          | ACR Env./ A2LA           | Nov 21, 2014 |  |
| HMP233-Vaisala Oyj          | Humidity & Temp.<br>Transmitter         | V3820001   | Sep 6, 2012           | ACR Env./ A2LA           | Mar 6, 2014  |  |
| PC Program 1019 Norsonic    | Calibration software                    | v.5.2      | Validated<br>Mar 2011 | Scantek, Inc.            |              |  |
| 1251-Norsonic               | Calibrator                              | 30878      | Nov 8, 2013           | Scantek, Inc./ NVLAP     | Nov 8, 2014  |  |
| 4226-Brüel&Kjær             | Multifunction calibrator                | 2305103    | Jul 26, 2013          | Scantek, Inc./ NVLAP     | Jul 26, 2014 |  |

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

#### Environmental conditions:

| Temperature (°C)            | Barometric pro   | essure (kPa)                      | Relative Humidity (%) |
|-----------------------------|------------------|-----------------------------------|-----------------------|
| 24.7 °C                     | 101.263          | 3 kPa                             | 39.6 %RH              |
|                             |                  |                                   |                       |
| Calibrated by:              | Valentin Buzduga | Authorized signatory              | Mariana Buzduga       |
| Calibrated by:<br>Signature | Valentin Buzduga | Authorized signatory<br>Signature | Mariana Buzduga       |

Calibration Certificates or Test Reports shall not be reproduced, except in full, without written approval of the laboratory. This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.

Document stored Z:\Calibration Lab\SLM 2014\LDSP706\_01595\_M1.doc





NVLAP Lab Code: 200625-0

### Calibration Certificate No.31082

| Instrument:    | Sound Level Meter           |
|----------------|-----------------------------|
| Model:         | NA28                        |
| Monufacturer:  | Rion                        |
| Serial number: | 00870496                    |
| Tested with:   | Microphone UC-59 s/n 04607  |
|                | Preamplifier NH23 s/n 70511 |
| Type (closs):  | 1                           |
| ID number:     | 80430.000                   |
| Customer:      | Environmental Acoustics     |
| Tel/Fax:       | 717-730-4680 x19 / -4685    |

| Status:     | •            | Received   | Sent              |
|-------------|--------------|------------|-------------------|
| In tolerand | ce:          | X          | X                 |
| Out of tole | erance:      |            | 08                |
| See comm    | ents:        | A22.       | 8<br>May 29 Marca |
| Contains r  | ion-accredit | ted tests: | Yes X No          |
| Calibration | n service:   | Basic X    | Standard          |
|             |              |            |                   |
| Address:    | 1400 Hun     | nmel Avenu | e                 |

1400 Hummel Avenue Lemoyne, PA 17403-1749

Tested in accordance with the following procedures and standards: Calibration of Sound Level Meters, Scantek Inc., Rev. 6/22/2012 SLM & Dosimeters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

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

|                             | the second sectors.             | e (b)      |                       | Traceability evidence    | Cal. Que     |
|-----------------------------|---------------------------------|------------|-----------------------|--------------------------|--------------|
| Instrument - Manufacturer   | Description                     | S/N        | Cal. Date             | Cal. Lab / Accreditation |              |
| 483B Norsonic               | SME Cal Unit                    | 25747      | Jul 2, 2013           | Scantek, Inc./ NVLAP     | Jul 2, 2014  |
| D5-360-SRS                  | Function Generator              | 61646      | Nov 20, 2012          | ACR Env./ AZLA           | Nov 20, 2014 |
| 34401A-Agilent Technologies | Digital Voltmeter               | MY41022043 | Nov 22, 2013          | ACR Env. / A2LA          | Nov 22, 2014 |
| DPI 141-Druck               | Pressure Indicator              | 790/00-04  | Nov 21, 2012          | ACR Env./ A2LA           | Nov 21, 2014 |
| HMP233 Vəlsalə Oyj          | Humidity & Temp.<br>Transmitter | V3820001   | Mar 17, 2014          | ACR Env./ A2LA           | Sep 17, 2015 |
| PC Program 1019 Norsonic    | Calibration software            | v.5.2      | Validated Mar<br>2011 | Scantek, Inc.            | 0            |
| 1251-Norsonic               | Calibrator                      | 30878      | Nov 8, 2013           | Scantek, Inc./ NVLAP     | Nov 8, 2014  |

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

#### **Environmental conditions:**

| Temperature (°C) | Barometric pressure (kPa) | Relative Humidity (%) |
|------------------|---------------------------|-----------------------|
| 22.9 °C          | 100.09 kPa                | 50 %RH                |

| Calibrated by: | Valentin, Buzanga | Authorized signatory: | Mariana Buzduga |
|----------------|-------------------|-----------------------|-----------------|
| Signature      |                   | Signature             | - link-         |
| Date           | 5106/2014         | Date                  | 51812014        |

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o Martha tana





NVLAP Lab Code: 200625-0

## Calibration Certificate No.31083

CARLES MARK

| Instrument:    | Microphone               | Date Calibrated: 5/6/2014 Col Due:      |
|----------------|--------------------------|-----------------------------------------|
| Model:         | UC-59                    | Status: Received Sent                   |
| Manufacturer:  | Rion                     | In tolerance: X X                       |
| Serial number: | 04607                    | Out of tolerance;                       |
| Composed of:   |                          | See comments:                           |
|                |                          | Contains non-accredited tests: Yes X No |
| Customer:      | Environmental Acoustics  | Address: 1400 Hummel Avenue             |
| Tel/Fax:       | 717-730-4680 ×19 / -4685 | Lemoyne, PA 17403-1749                  |

#### Tested in accordance with the following procedures and standards:

Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010

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

|                             | Decembration                    | e /21                | Cal. Date                | Traceability evidence | Cal. Due      |
|-----------------------------|---------------------------------|----------------------|--------------------------|-----------------------|---------------|
| Instrument - Manufacturer   | Description                     | iption S/N Cal. Date | Cal. Lab / Accreditation |                       |               |
| 483B-Norsonic               | SME Cal Unit                    | 25747                | Jul 2, 2013              | Scantek, Inc./ NVLAP  | Jul 2, 2014   |
| DS-360-SRS                  | Function Generator              | 61646                | Nov 20, 2012             | ACR Env./ AZLA        | Nov 20, 2014  |
| 34401A-Agilent Technologies | Digital Voltmeter               | MY41022043           | Nov 22, 2013             | ACR Env. / AZLA       | Nov 22, 2014  |
| DPI 141-Druck               | Pressure Indicator              | 790/00-04            | Nov 21, 2012             | ACR Env./ AZLA        | Nov 21, 2014  |
| HMP233-Vaisala Oyj          | Humidity & Temp.<br>Transmitter | V3820001             | Mar 17, 2014             | ACR Env./ AZLA        | Sep 17, 2015  |
| PC Program 1017 Norsonic    | Calibration software            | v.5.2                | Validated<br>Mar 2011    | Scanlek, loc.         | -             |
| 1253-Norsonic               | Calibrator                      | 28326                | Nov 8, 2013              | Scantek, Inc./ NVLAP  | Nov 8, 2014 . |
| 1203 Norsonic               | Preamplifier                    | 14059                | Jan 2, 2014              | Scantek, Inc./ NVLAP  | Jan 2, 2015   |
| 4180-Brüel&kjær             | Microphone                      | 2246115              | Oct 15, 2013             | NPL-UK / UKAS         | Ocl 15, 2015  |

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

| Calibrated by: | Valentin Buzeluga | Authorized signatory: | Mariana Buzduga |
|----------------|-------------------|-----------------------|-----------------|
| Signature      | 1                 | Signature             | Much            |
| Date           | 5/06/2014         | Date                  | 51812014        |

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NVLAP Lab Code: 200625-0

### Calibration Certificate No.31084

COLOR STREES STREES STREES

Sound Level Meter Instrument: NA28 Model: Monufacturer: Rion Serial number: 01170630 Tested with: Microphone UC-59 s/n 04608 Preamplifier NH23 s/n 70648 Type (closs): ŧ ID number: 80427.000 Customer: **Environmental Acoustics** Tel/Fax: 717-730-4680 x19 / -4685

| Status:    |             | Received   | Sent           |
|------------|-------------|------------|----------------|
| in toleran | ce:         | x          | x              |
| Out of tol | erance:     |            |                |
| See comm   | ients:      |            |                |
| Contains i | non-accredi | ted tests: | es <u>X</u> No |
| Calibratia | n service:  | Basic X S  | tandard        |

1400 Hummel Avenue
 Lemoyne, PA 17403-1749

Tested in accordance with the following procedures and standards: Calibration of Sound Level Meters, Scantek Inc., Rev. 6/22/2012 SLM & Dosimeters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

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

| Instrument - Manufacturer   | Description                     | 5/N        | Cal. Date             | Traceability evidence<br>Cal. Lab / Accreditation | Cal. Due     |
|-----------------------------|---------------------------------|------------|-----------------------|---------------------------------------------------|--------------|
| 483B Norsonic               | SME Cal Unit                    | 25747      | Jul 2, 2013           | Scantek, Inc./ NVLAP                              | Jul 2, 2014  |
| D\$-360-SRS                 | Function Generator              | 61646      | Nov 20, 2012          | ACR Env./ A2LA                                    | Nov 20, 2014 |
| 34401A-Agilent Technologies | Olgital Voltmeter               | MY41022043 | Nov 22, 2013          | ACR Env. / A2LA                                   | Nov 22, 2014 |
| DPI 141-Druck               | Pressure Indicator              | 790/00-04  | Nov 21, 2012          | ACR Env./ A2LA                                    | Nov 21, 2014 |
| HMP233-Vaisala Qyj          | Humidity & Temp.<br>Transmitter | V3820001   | Mar 17, 2D14          | ACR Env./ A2LA                                    | Sep 17, 2015 |
| PC Program 1019 Norsonic    | Calibration software            | v.5.2      | Validated<br>Mar 2011 | Scantek, Inc.                                     | 13           |
| 1251-Norsonic               | Calibrator                      | 30878      | Nov 8, 2013           | Scantek, Inc./ NVLAP                              | Nov 8, 2014  |

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

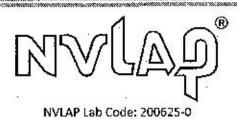
#### Environmental conditions:

| Temperature (°C)            | Barometric pr     | essure (kPa) 🔋 👘 🤋                 | elative Humidity (%) |  |
|-----------------------------|-------------------|------------------------------------|----------------------|--|
| 22.6 °C                     | 100.12            | 9 kPa                              | 49.1 %RH             |  |
|                             |                   |                                    |                      |  |
| Calibrated by:              | Valentin Buzduga  | Authorized signatory:              | Mariana Buzduga      |  |
| Calibrated by:<br>Signature | Valentin Brizduga | Authorized signatory:<br>Signature | Mariana Buzduga      |  |

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Calibration Certificate No.31085

| Instrument:    | Microphone               | Date Calibrated: 5/6/2014 Cal Due:      |
|----------------|--------------------------|-----------------------------------------|
| Model:         | UC-59                    | Status: Received Sent                   |
| Manufacturer:  | Rion                     | In tolerance: X X                       |
| Serial number: | 04608                    | Out of tolerance:                       |
| Composed of:   |                          | See comments:                           |
|                |                          | Contains non-accredited tests: Yes X No |
| Customer:      | Environmental Acoustics  | Address: 1400 Hummel Avenue             |
| Tel/Fax:       | 717-730-4680 x19 / -4685 | Lemoyne, PA 17403-1749                  |
|                |                          | 22                                      |

Tested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010

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

| Instrument - Manufacturer   | Description                     | S/N        | Cal. Date             | Traceability evidence    | Cal. Due     |
|-----------------------------|---------------------------------|------------|-----------------------|--------------------------|--------------|
| Instrument + Manufacturer   | Description                     | 27.14      | cal pate              | Cal. Lab / Accreditation |              |
| 483B-Norsonic               | SME Cal Unit                    | 25747      | Jul 2, 2013           | Scantek, Inc./ NVLAP     | Jul 2, 2014  |
| DS-360-SRS                  | Function Generator              | 61646      | Nov 20, 2012          | ACR Env./ A2LA           | Nov 20, 2014 |
| 34401A-Agilent Technologies | Digital Voltmeter               | MY41022043 | Nov 22, 2013          | ACR Env. / AZLA          | Nov 22, 2014 |
| DPI 141-Druck               | Pressure Indicator              | 790/00-04  | Nov 21, 2012          | ACR Env./ A2LA           | Nov 21, 2014 |
| HMP233 Vaisala Oyj          | Humidity & Temp.<br>Transmitter | V3820001   | Mar 17, 2014          | ACR Env./ A2LA           | Sep 17, 2015 |
| PC Program 1017 Norsonic    | Calibration software            | ¥.5.2      | Validated<br>Mar 2011 | Scantek, Inc.            |              |
| 1253-Norsonic               | Calibrator                      | 28326      | Nov 8, 2013           | Scantek, Inc./ NVLAP     | Nov 8, 2014  |
| 1203-Norsonic               | Preamplifier                    | 14059      | Jan 2, 2014           | Scantek, Inc./ NVLAP     | Jan 2, 2015  |
| 4180-Brüel&Kjær             | Microphone                      | 2246115    | Oct 15, 2013          | NPL-UK / UKAS            | Oct 15, 2015 |

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

| Calibrated by: | Valentin Bozduga | Authorized signatory: | Mariana Buzduga |
|----------------|------------------|-----------------------|-----------------|
| Signature      | 1.42             | Signature             | tul             |
| Date           | 5/06/2014        | Date                  | 5-1812014       |

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|----|------|
|    |      |

NVLAP Lab Code: 200625-0

## Calibration Certificate No.31087

Acoustical Calibrator NC-74 Manufacturer: Rion 01200033 Serial number: Class (IEC 60942): 1 Barometer type: Barometer s/n: 80289.000 **Environmental Acoustics** 717-730-4680 x19 / -4685

Instrument:

ID number:

Customer:

Tel/Fax:

Model:

| Status:            | Received        | Sent   |
|--------------------|-----------------|--------|
| In tolerance:      | X               | X      |
| Out of tolerance:  | 38              |        |
| See comments:      |                 |        |
| Contains non-accre | dited tests: Ye | s X No |

Address:

Marsh Marsh Marsh Marsh Marsh Marsh

1400 Hummel Avenue Lemoyne, PA 17403-1749

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

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

| Instrument - Manufacturer   | Description                     | · s/N      | Cal. Date               | Traceability evidence<br>Cal. Lab / Accreditation | Cal. Due     |
|-----------------------------|---------------------------------|------------|-------------------------|---------------------------------------------------|--------------|
| 483B Norsonic               | SME Cal Unit                    | 25747      | Jul 2, 2013             | Scantek, Inc./ NVLAP                              | Jul 2, 2014  |
| DS-360-SRS                  | Function Generator              | 61646      | Nov 20, 2012            | ACR Env./ AZLA                                    | Nov 20, 2014 |
| 34401A Agilent Technologies | Digital Voltmeter               | MY41022043 | Nov 22, 2013            | ACR Env. / AZLA                                   | Nov 22, 2014 |
| OPI 141-Druck               | Pressure Indicator              | 790/00-04  | Nov 21, 2012            | ACR Env./ A2LA                                    | Noy 21, 2014 |
| HMP233-Vaisala Oy)          | Humidity & Temp.<br>Transmitter | V3820001   | Mar 17, 2014            | Α <b>C</b> R Επν./ Α2LA                           | Sep 17, 2015 |
| 8903A-HP                    | Audio Analyzer                  | 2514A05691 | Dec 12, 2013            | ACR ENV./ A21A                                    | Dec 12, 2016 |
| PC Program 1018 Norsonic    | Calibrațion software            | v.5.2      | Validated<br>March 2011 | Scantek, Inc.                                     |              |
| 4134-Brüci&Kjær             | Microphone                      | 456005     | Nov 13, 2013            | Scantek, Inc. / NVLAP                             | Nov 13, 2014 |
| 1203 Norsonic               | Preamplifier                    | 14059      | Jan 2, 2014 -           | Scantek, Inc./ NVLAP                              | Jan 2, 2015  |

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

| Callbrated by: | Valentia Auzeuga | Authorized signatory: | Mariana Buzduga |
|----------------|------------------|-----------------------|-----------------|
| Signature      | All.             | Signature             | lub-            |
| Date           | 5705/2014        | Date                  | 51312014        |

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NVLAP Lab Code: 200625-0

### Calibration Certificate No.29566

| Instrument:    | Naise Dosimeter / SLM                       |  |  |
|----------------|---------------------------------------------|--|--|
| Model:         | Spark 706                                   |  |  |
| Manufacturer:  | Larson Davis                                |  |  |
| Serial number: | 01596                                       |  |  |
| Tested with:   | Microphone MPR002 s/n B0404<br>Preamplifier |  |  |
| Type (class):  | 2                                           |  |  |
| Customer:      | Environmental Acoustics                     |  |  |
| Tel/Fax:       | 717-730-4680 x19 / -4685                    |  |  |

| Status:     | F            | leceived  | Sent     |
|-------------|--------------|-----------|----------|
| In toleran  | :e:          | x         | X        |
| Out of tole | ronce:       |           |          |
| See comm    | ents:        |           |          |
| Contains r  | on-accredite | d tests:  | Yes X No |
| Calibratio  | n service:   | Basic X S | Standard |
| Address:    | 1400 Humi    | mel Avenu | e        |
|             |              |           |          |

Tested in accordance with the following procedures and standards: Calibration of Sound Level Meters, Scantek Inc., Rev. 6/22/2012 SLM & Dosimpters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

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

| Instrument - Manufacturer   | Description                     | s/N        | Cal. Date             | Traceability evidence<br>Cal. Lab / Accreditation | Cal. Due     |
|-----------------------------|---------------------------------|------------|-----------------------|---------------------------------------------------|--------------|
| 483B-Norsonic               | SME Cal Unit                    | 25747      | Jul 2, 2013           | Scantek, Inc./ NVLAP                              | Jul 2, 2014  |
| DS-360-SRS                  | Function Generator              | 61646      | Nov 20, 2012          | ACR Env./ A2LA                                    | Nov 20, 2014 |
| 34401A-Agilent Technologies | Digital Voltmeter               | MY41022043 | Nov 20, 2012          | ACR Env. / AZLA                                   | Nov 20, 2013 |
| DPI 141-Druck               | Pressure Indicator              | 790/00-04  | Nov 21, 2012          | ACR Env./ AZLA                                    | Nov 21, 2014 |
| HMP233-Vaisala Oyj          | Humidity & Temp.<br>Transmitter | V3820001   | Sep 6, 2012           | ACR Env./ A2LA                                    | Mar 6, 2014  |
| PC Program 1019 Norsonic    | Calibration software            | v.5.2      | Validated<br>Mar 2011 | Scantek, Inc.                                     | 370          |
| 1251-Norsonic               | Calibrator                      | 30878      | Dec 14, 2012          | Scantek, Inc./ NVLAP                              | Dec 14, 2013 |
| 4226-Brüel&Kjær             | Multifunction calibrator        | 2305103    | Jul 26, 2013          | Scantek, Inc./ NVLAP                              | Jul 26, 2014 |

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

#### Environmental conditions:

SHIII - ASA (11)

| Calibrated by: | ValentingBuzdwga | Authorized signatory: | William D. Gallagher |
|----------------|------------------|-----------------------|----------------------|
| Signature      | 10               | Signature             | Uxellon O. Maller    |
| Date           | 9/05/2013        | Date                  | 9/5/2013             |

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NVLAP Lab Code: 200625-0

Calibration Certificate No.29565

Instrument: Acoustical Calibrator Model: Cal150 Manufocturer: Larson Davis Serial number: 3047 Class (IEC 60942): 2 Borometer type: Borometer s/n:

THE COLOR HOUSE MADE

| Date Calibrated: 9/<br>Status: | Received       | Sent       |
|--------------------------------|----------------|------------|
| In tolerance:                  | X              | X          |
| Out of tolerance:              | 10548 C.       | 10 8       |
| See comments:                  |                | and design |
| Contains non-accret            | dited tests:Ye | s X No     |

Customer: Tel/Fax: Environmental Acoustics 717-730-4680 x19 / -4685

Address: 1400 Hummel Avenue Lemoyne, PA 17403

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

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

| instrument - Manufacturer   | Description                     | S/N        | Cal. Date               | Traceability evidence    | Cal. Due     |  |
|-----------------------------|---------------------------------|------------|-------------------------|--------------------------|--------------|--|
|                             |                                 | -4         | Cal. Date               | Cal. Lab / Accreditation | n cal. Due   |  |
| 483B-Norsonic               | SME Caf Unit                    | 25747      | Jul 2, 2013             | Scantek, Inc./ NVLAP     | Jul 2, 2014  |  |
| DS-360-\$R\$                | Function Generator              | 61646      | Nov 20, 2012            | ACR Env./ A2LA           | Nov 20, 2014 |  |
| 34401A-Agilent Technologies | Digital Voltmeter               | MY41022043 | Nov 20, 2012            | ACR Env. / A2LA          | Nov 20, 2013 |  |
| DPI 141-Druck               | Pressure Indicator              | 790/00-04  | Nov 21, 2012            | ACR Env./ A2LA           | Nov 21, 2014 |  |
| HMP233-Vaisala Oyj          | Humidity & Temp.<br>Transmitter | V3820001   | Sep 6, 2012             | ACR Env./ A2LA           | Mar 6, 2014  |  |
| 8903A HP                    | Audio Analyzer                  | 2514405691 | Dec 1, 2010             | ACR Env./ AZLA           | Dec 1, 2013  |  |
| PC Program 1018 Norsonic    | Calibration software            | v.5.2      | Validated<br>March 2011 | Scantek, Inc.            | 878          |  |
| 4134-8rüel&Kjær             | Microphone                      | 456005     | Mar 29, 2013            | Scantek, Inc. / NVLAP    | Mar 29, 2014 |  |
| 1203-Norsonic               | Preamplifier                    | 14059      | Jan 4, 2013             | Scantek, Inc./ NVLAP     | Jan 4, 2014  |  |

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

| Calibrated by: | Valentin Suzeluga | Authorized signatory: | William D <sub>3</sub> Gallagher |
|----------------|-------------------|-----------------------|----------------------------------|
| Signature      | 1                 | Signature             | Willen i Salled                  |
| Date           | 9/03/2013         | Date                  | 9/5/2013                         |

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# **APPENDIX C**

# **Traffic Data**

#### Traffic Data for MP 298 to MP 312 Between Morgantown I/C and Downingtown I/C

#### **Traffic Volumes**

|                          | 2013<br>Existing | 2046<br>Future No-Build/Build |
|--------------------------|------------------|-------------------------------|
| Eastbound ADT            | 21,880           | 35,762                        |
| Westbound ADT            | 31,052           | 50,754                        |
| Peak Hour (EB)<br>11.16% | 2,442            | 3,991                         |
| Peak Hour (WB)<br>8.71%  | 2,705            | 4,421                         |

Peak Month: EB=November, WB=October

Vehicle Composition(%) (Peak Hour):

|                                 | EB  | WB  |
|---------------------------------|-----|-----|
| PTC Class 1 (Auto)=             | 86% | 92% |
| PTC Classes 2-3 (Medium Truck)= | 5%  | 3%  |
| PTC Classes 4-9 (Heavy Truck)=  | 9%  | 5%  |

Growth Factors:

1.50%

1.50%