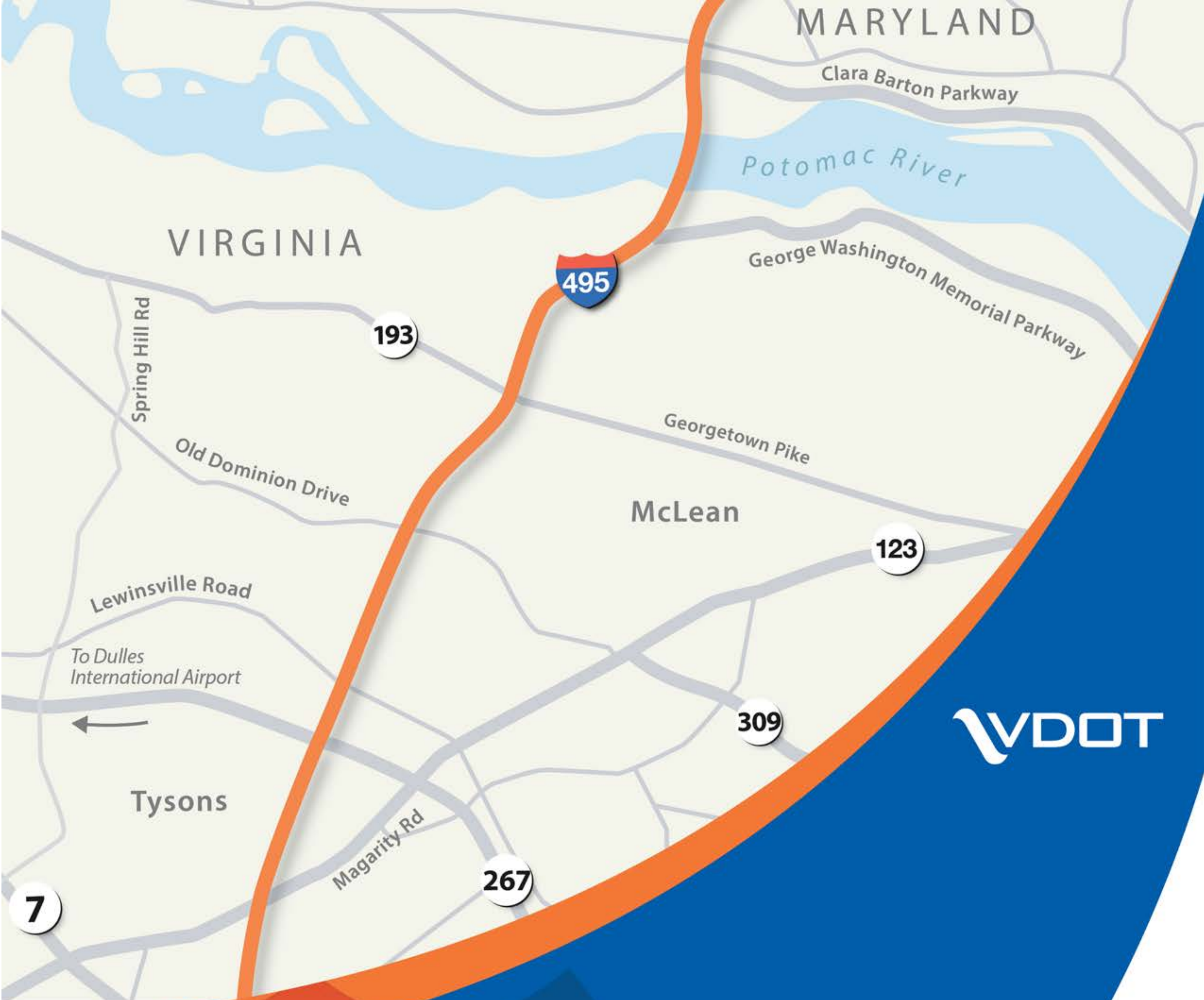


VDOT

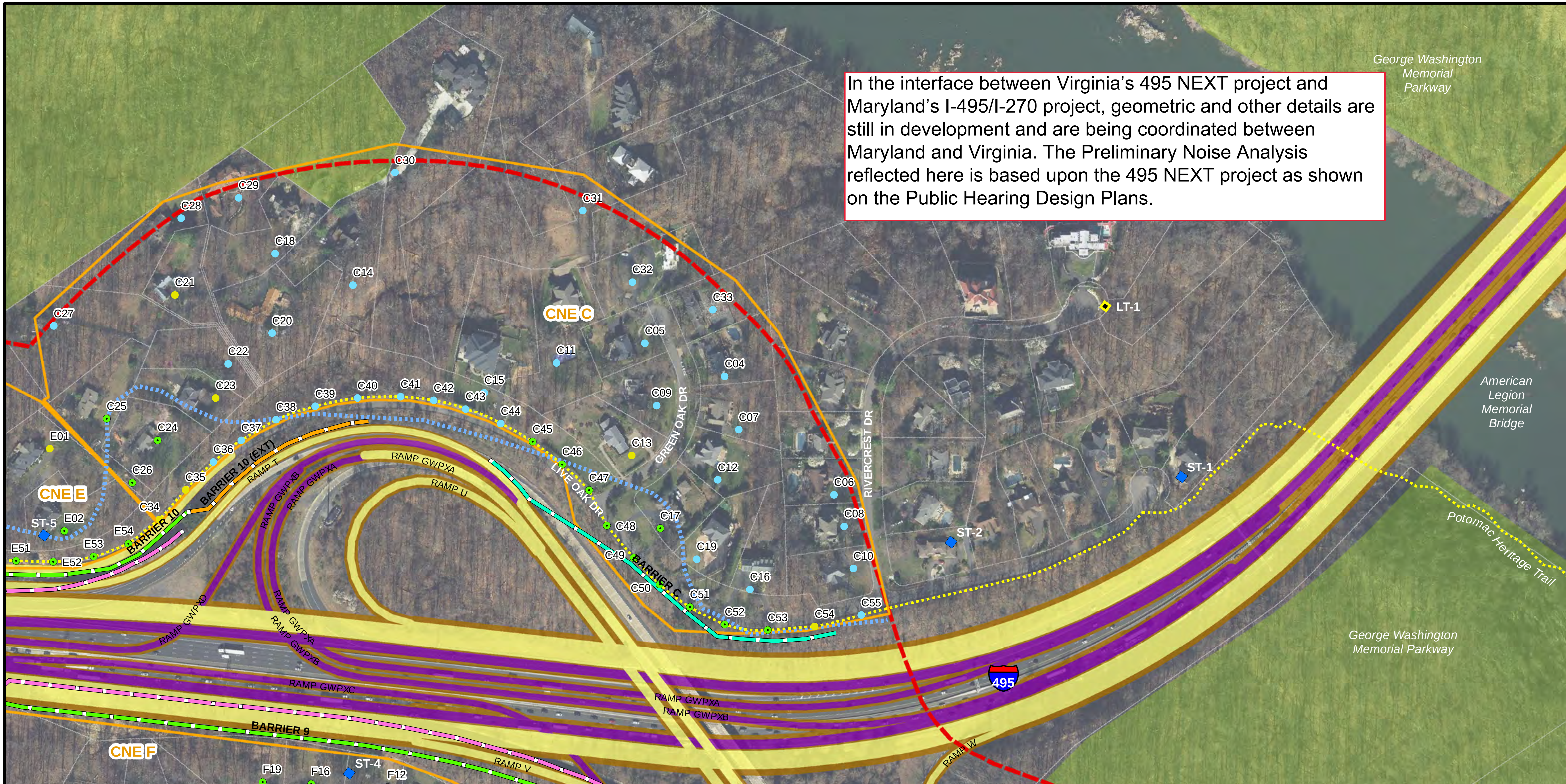
ENVIRONMENTAL ASSESSMENT

Noise Technical Report Appendices

February 2020

495 ExpressLanes
NORTHERN EXTENSION

Appendix A: Graphics (2045 Build Alternative)



Appendix A:
Predicted Noise Levels and Evaluated Noise Abatement 2045 Build Alternative

Page 1 of 14

0 250 500 Feet

VDOT

I-495 Express Lanes
NEXT Study
UPC 113414
Project #: 0495-029-419
Fairfax County

Short-Term Noise Monitoring Site
Long-Term Noise Monitoring Site

Modeled Receptors

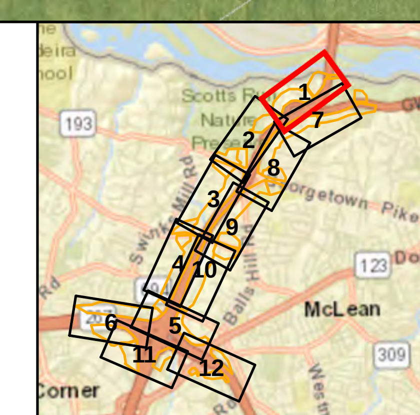
- Impacted and Benefited (7 dBA or greater)
- Impacted and Benefited (5-7 dBA)
- Impacted and Not Benefited
- Not Impacted and Benefited
- Not Impacted and Not Benefited
- Study Area

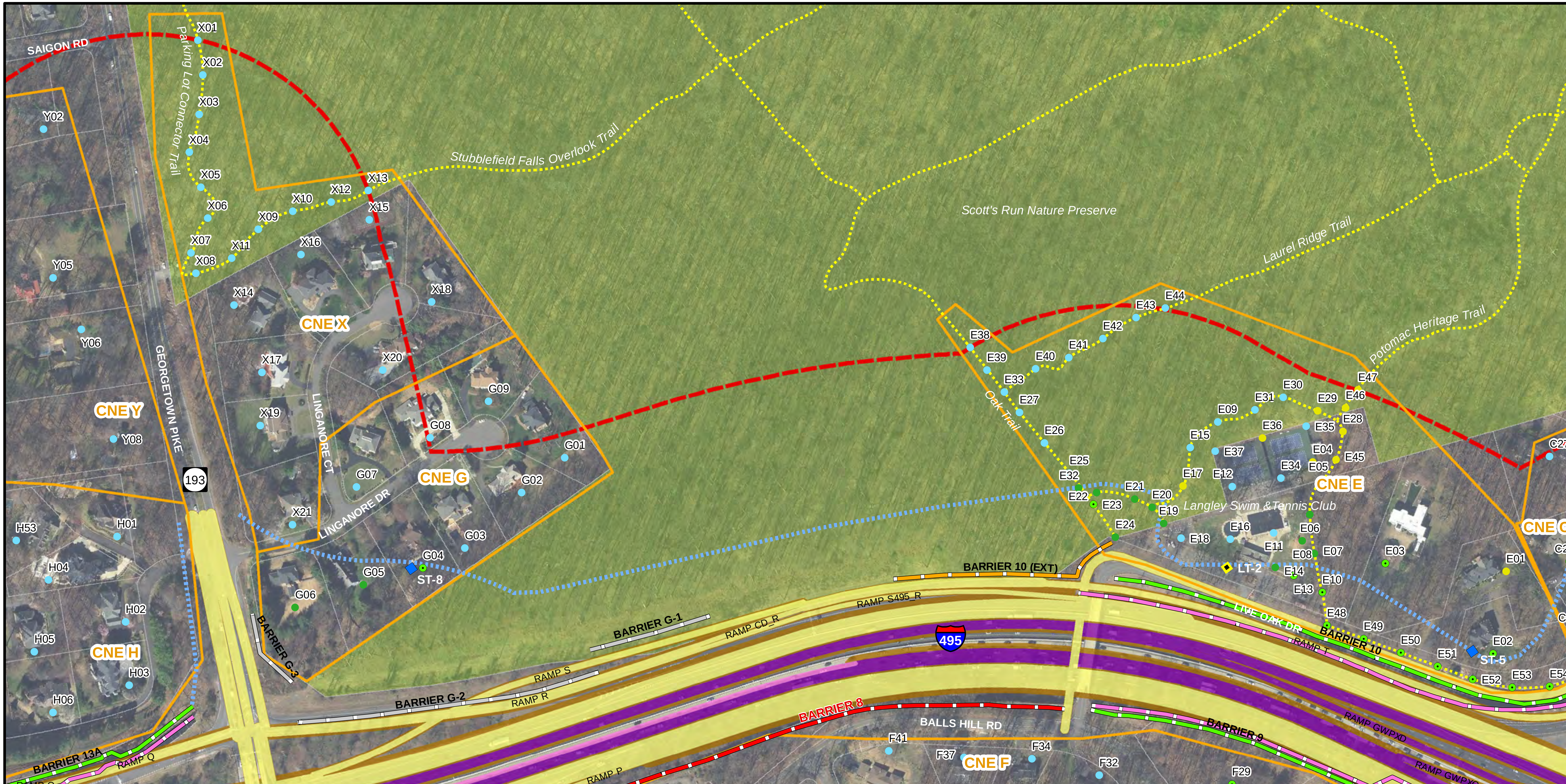
Existing Barriers

- Existing Noise Barrier
- Existing Noise Barrier (Physically Impacted)
- Adjusted Alignment for Physically Impacted Noise Barrier
- Potential In-Kind Barrier Replacement Extension (Not Reasonable)
- Potential In-Kind Barrier Replacement Extension (Reasonable)
- 66 dB(A) Sound Level Contour
- Common Noise Environment

Evaluated Barriers

- Not Feasible
- Feasible and Not Reasonable
- Feasible and Reasonable
- General Purpose Lanes
- Express Lanes
- Shoulder Use Lanes
- Paved Shoulders
- Rec. Trails (Noise Sensitive)





Appendix A:
Predicted Noise Levels and Evaluated Noise Abatement 2045 Build Alternative

Page 2 of 14

0 250 500 Feet

VDOT

I-495 Express Lanes
NEXT Study
UPC 113414
Project #: 0495-029-419
Fairfax County

Short-Term Noise Monitoring Site
Long-Term Noise Monitoring Site

Modeled Receptors

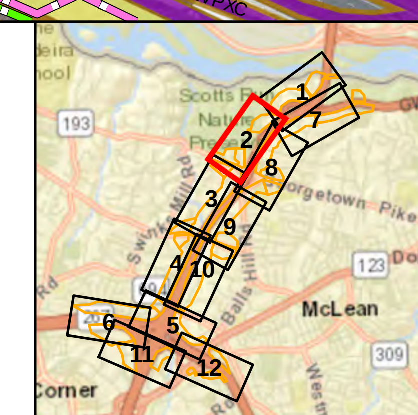
- Impacted and Benefited (7 dBA or greater)
- Impacted and Benefited (5-7 dBA)
- Impacted and Not Benefited
- Not Impacted and Benefited
- Not Impacted and Not Benefited
- Study Area

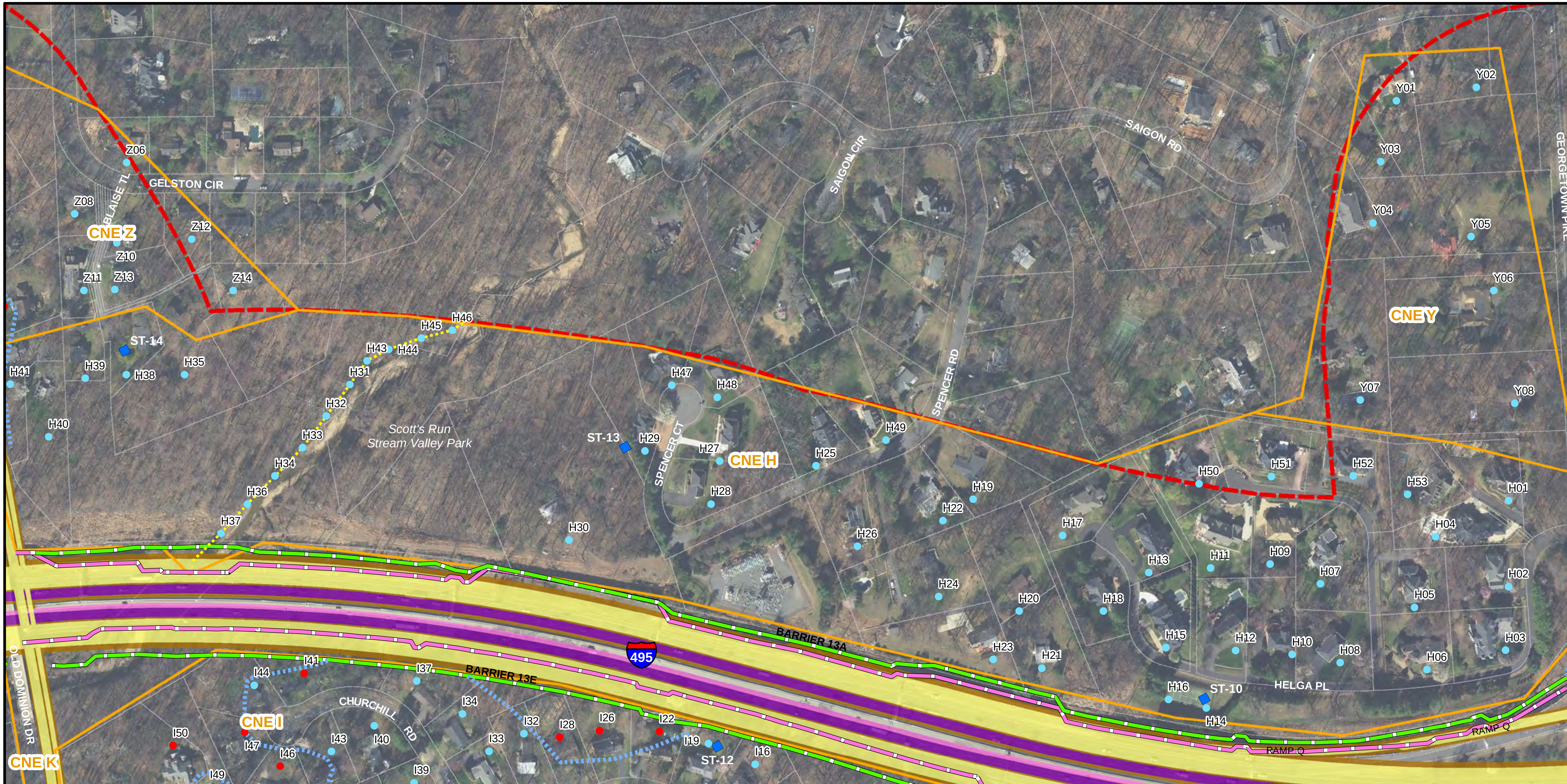
Existing Barriers

- Existing Noise Barrier
- Existing Noise Barrier (Physically Impacted)
- Adjusted Alignment for Physically Impacted Noise Barrier
- Potential In-Kind Barrier Replacement Extension (Not Reasonable)
- Potential In-Kind Barrier Replacement Extension (Reasonable)
- 66 dB(A) Sound Level Contour
- Common Noise Environment

Evaluated Barriers

- Not Feasible
- Feasible and Not Reasonable
- Feasible and Reasonable
- General Purpose Lanes
- Express Lanes
- Shoulder Use Lanes
- Paved Shoulders
- Rec. Trails (Noise Sensitive)





Appendix A: Predicted Noise Levels and Evaluated Noise Abatement 2045 Build Alternative

Page 3 of 14

0 250 500 Feet

VDOT

I-495 Express Lanes
NEXT Study
UPC 113414
Project #: 0495-029-419
Fairfax County

- Short-Term Noise Monitoring Site
- Long-Term Noise Monitoring Site

Modeled Receptors

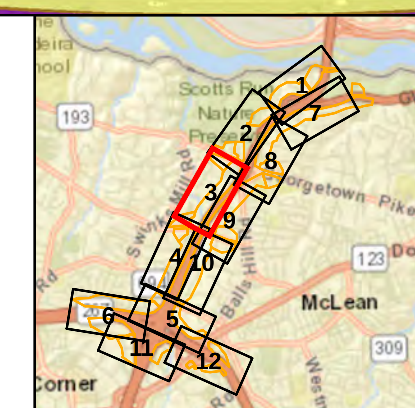
- Impacted and Benefited (7 dBA or greater)
- Impacted and Benefited (5-7 dBA)
- Impacted and Not Benefited
- Not Impacted and Benefited
- Not Impacted and Not Benefited
- Study Area

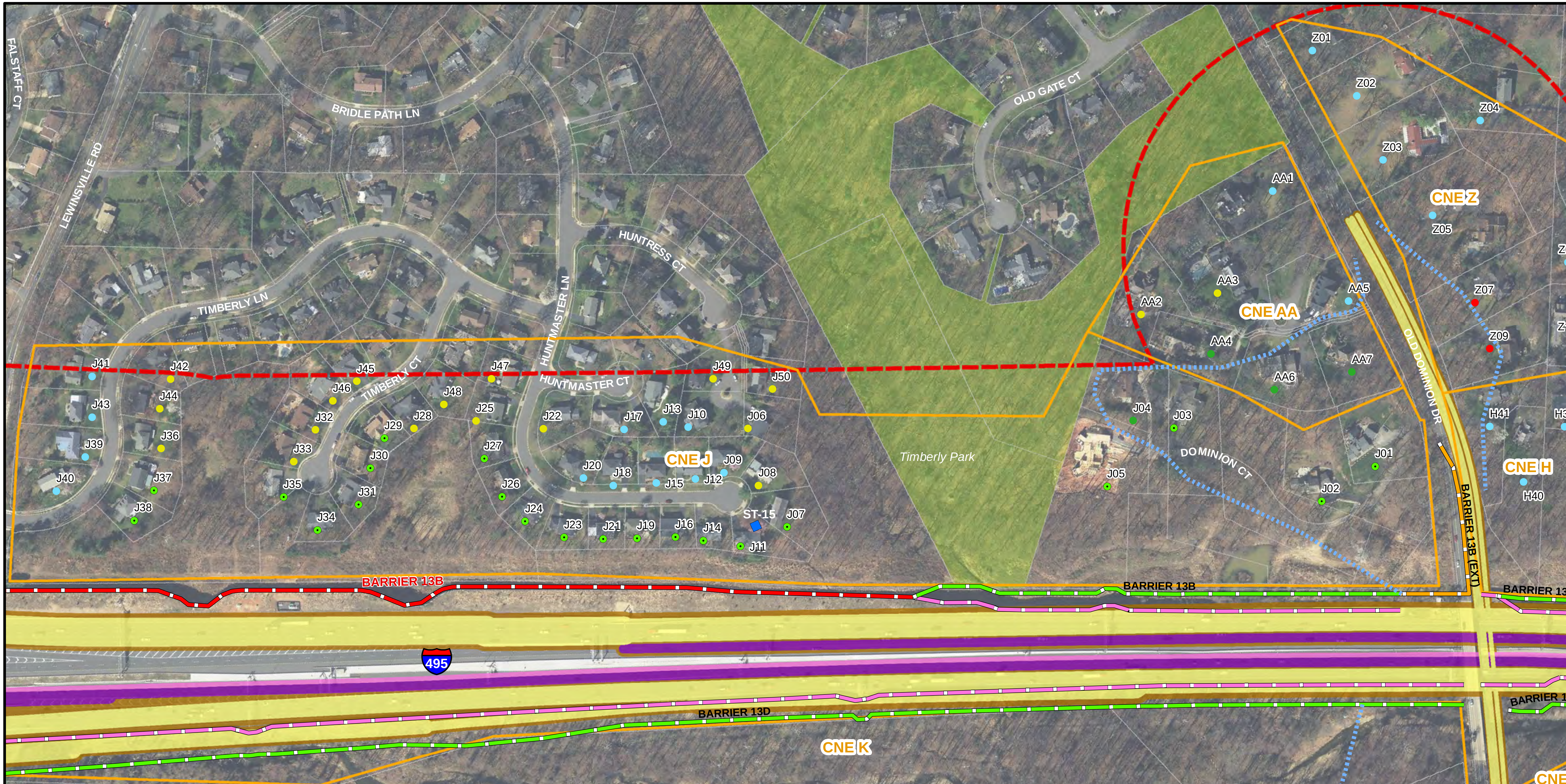
Existing Barriers

- Existing Noise Barrier
- Existing Noise Barrier (Physically Impacted)
- Adjusted Alignment for Physically Impacted Noise Barrier
- Potential In-Kind Barrier Replacement Extension (Not Reasonable)
- Potential In-Kind Barrier Replacement Extension (Reasonable)
- 66 dB(A) Sound Level Contour
- Common Noise Environment

Evaluated Barriers

- Not Feasible
- Feasible and Not Reasonable
- Feasible and Reasonable
- General Purpose Lanes
- Express Lanes
- Shoulder Use Lanes
- Paved Shoulders
- Rec. Trails (Noise Sensitive)





Appendix A:
Predicted Noise Levels and Evaluated Noise Abatement 2045 Build Alternative

Page 4 of 14

0 250 500 Feet

VDOT

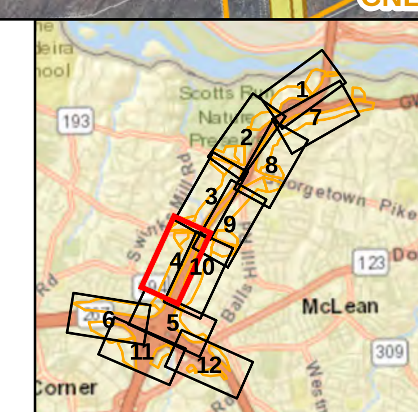
I-495 Express Lanes
NEXT Study
UPC 113414
Project #: 0495-029-419
Fairfax County

Short-Term Noise Monitoring Site
Long-Term Noise Monitoring Site

Modeled Receptors
- Impacted and Benefited (7 dBA or greater)
- Impacted and Benefited (5-7 dBA)
- Impacted and Not Benefited
- Not Impacted and Benefited
- Not Impacted and Not Benefited
- Study Area

Existing Barriers
- Existing Noise Barrier
- Existing Noise Barrier (Physically Impacted)
- Adjusted Alignment for Physically Impacted Noise Barrier
- Potential In-Kind Barrier Replacement Extension (Not Reasonable)
- Potential In-Kind Barrier Replacement Extension (Reasonable)
- 66 dB(A) Sound Level Contour
- Common Noise Environment

Evaluated Barriers
- Not Feasible
- Feasible and Not Reasonable
- Feasible and Reasonable
- General Purpose Lanes
- Express Lanes
- Shoulder Use Lanes
- Paved Shoulders
- Rec. Trails (Noise Sensitive)



Appendix A: Predicted Noise Levels and Evaluated Noise Abatement 2045 Build Alternative

Page 5 of 14

0 250 500 Feet

VDOT

I-495 Express Lanes NEXT Study
UPC 113414
Project #: 0495-029-419
Fairfax County

- Short-Term Noise Monitoring Site
- Long-Term Noise Monitoring Site

Modeled Receptors

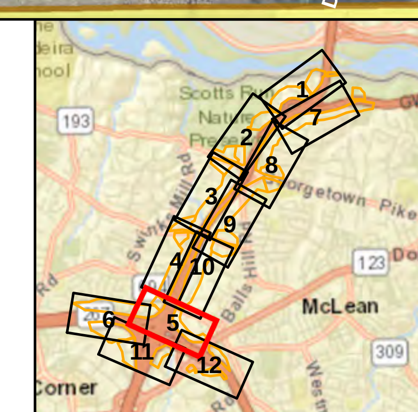
- Impacted and Benefited (7 dBA or greater)
- Impacted and Benefited (5-7 dBA)
- Impacted and Not Benefited
- Not Impacted and Benefited
- Not Impacted and Not Benefited
- Study Area

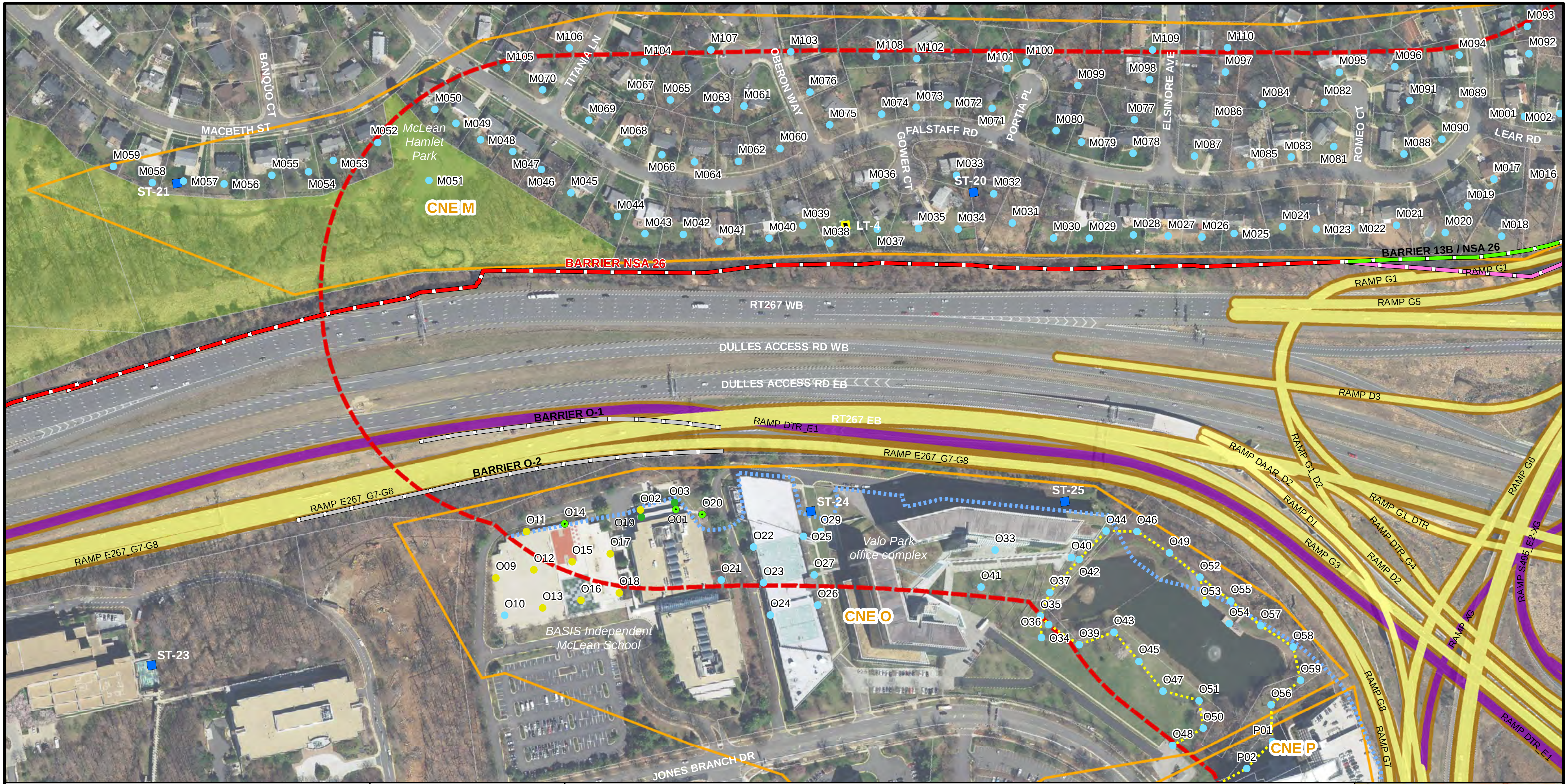
Existing Barriers

- Existing Noise Barrier
- Existing Noise Barrier (Physically Impacted)
- Adjusted Alignment for Physically Impacted Noise Barrier
- Potential In-Kind Barrier Replacement Extension (Not Reasonable)
- Potential In-Kind Barrier Replacement Extension (Reasonable)
- 66 dB(A) Sound Level Contour
- Common Noise Environment

Evaluated Barriers

- Not Feasible
- Feasible and Not Reasonable
- Feasible and Reasonable
- General Purpose Lanes
- Express Lanes
- Shoulder Use Lanes
- Paved Shoulders
- Rec. Trails (Noise Sensitive)





Appendix A: Predicted Noise Levels and Evaluated Noise Abatement 2045 Build Alternative

Page 6 of 14

0 250 500 Feet

VDOT

I-495 Express Lanes
NEXT Study
UPC 113414
Project #: 0495-029-419
Fairfax County

Short-Term Noise Monitoring Site
Long-Term Noise Monitoring Site

Modeled Receptors

- Impacted and Benefited (7 dBA or greater)
- Impacted and Benefited (5-7 dBA)
- Impacted and Not Benefited
- Not Impacted and Benefited
- Not Impacted and Not Benefited

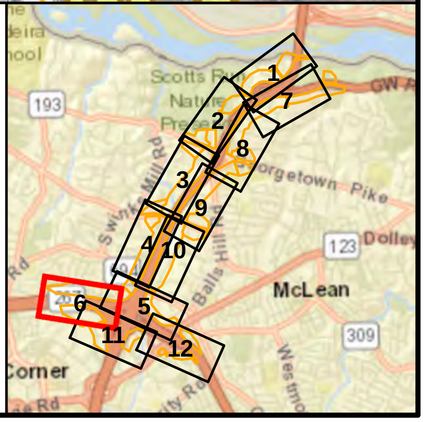
Study Area

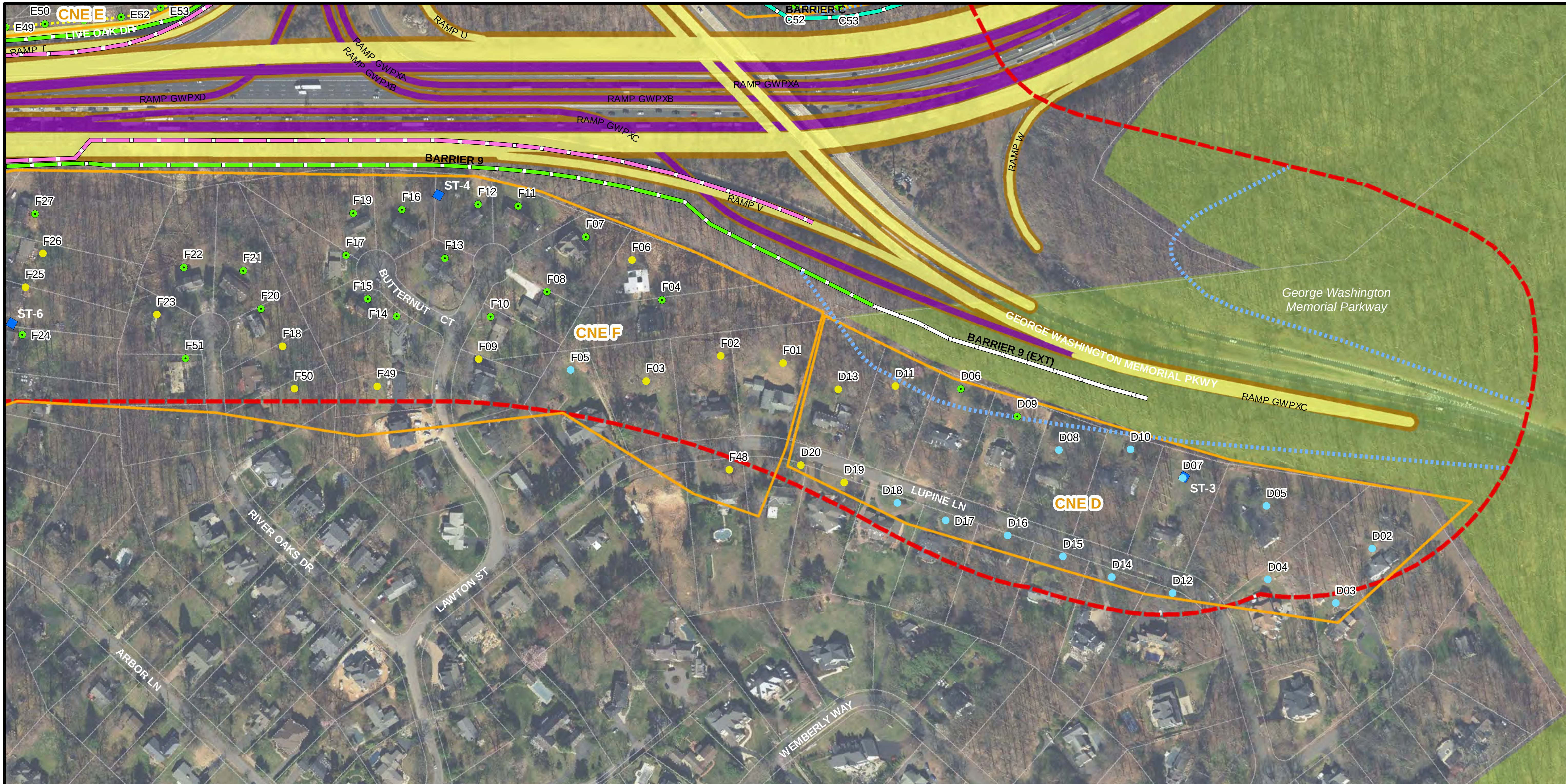
Existing Barriers

- Existing Noise Barrier
- Existing Noise Barrier (Physically Impacted)
- Adjusted Alignment for Physically Impacted Noise Barrier
- Potential In-Kind Barrier Replacement Extension (Not Reasonable)
- Potential In-Kind Barrier Replacement Extension (Reasonable)
- 66 dB(A) Sound Level Contour
- Common Noise Environment

Evaluated Barriers

- Not Feasible
- Feasible and Not Reasonable
- Feasible and Reasonable
- General Purpose Lanes
- Express Lanes
- Shoulder Use Lanes
- Paved Shoulders
- Rec. Trails (Noise Sensitive)





Appendix A: Predicted Noise Levels and Evaluated Noise Abatement 2045 Build Alternative

Page 7 of 14

0 250 500 Feet

VDOT

I-495 Express Lanes
NEXT Study
UPC 113414
Project #: 0495-029-419
Fairfax County

- Short-Term Noise Monitoring Site
- Long-Term Noise Monitoring Site

Modeled Receptors

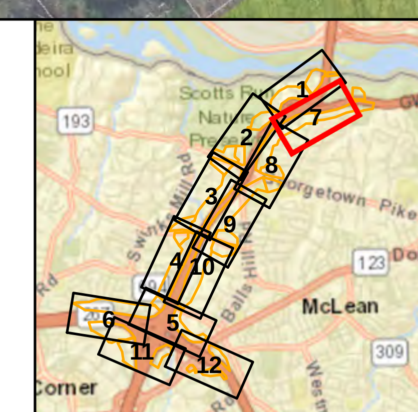
- Impacted and Benefited (7 dBA or greater)
- Impacted and Benefited (5-7 dBA)
- Impacted and Not Benefited
- Not Impacted and Benefited
- Not Impacted and Not Benefited
- Study Area

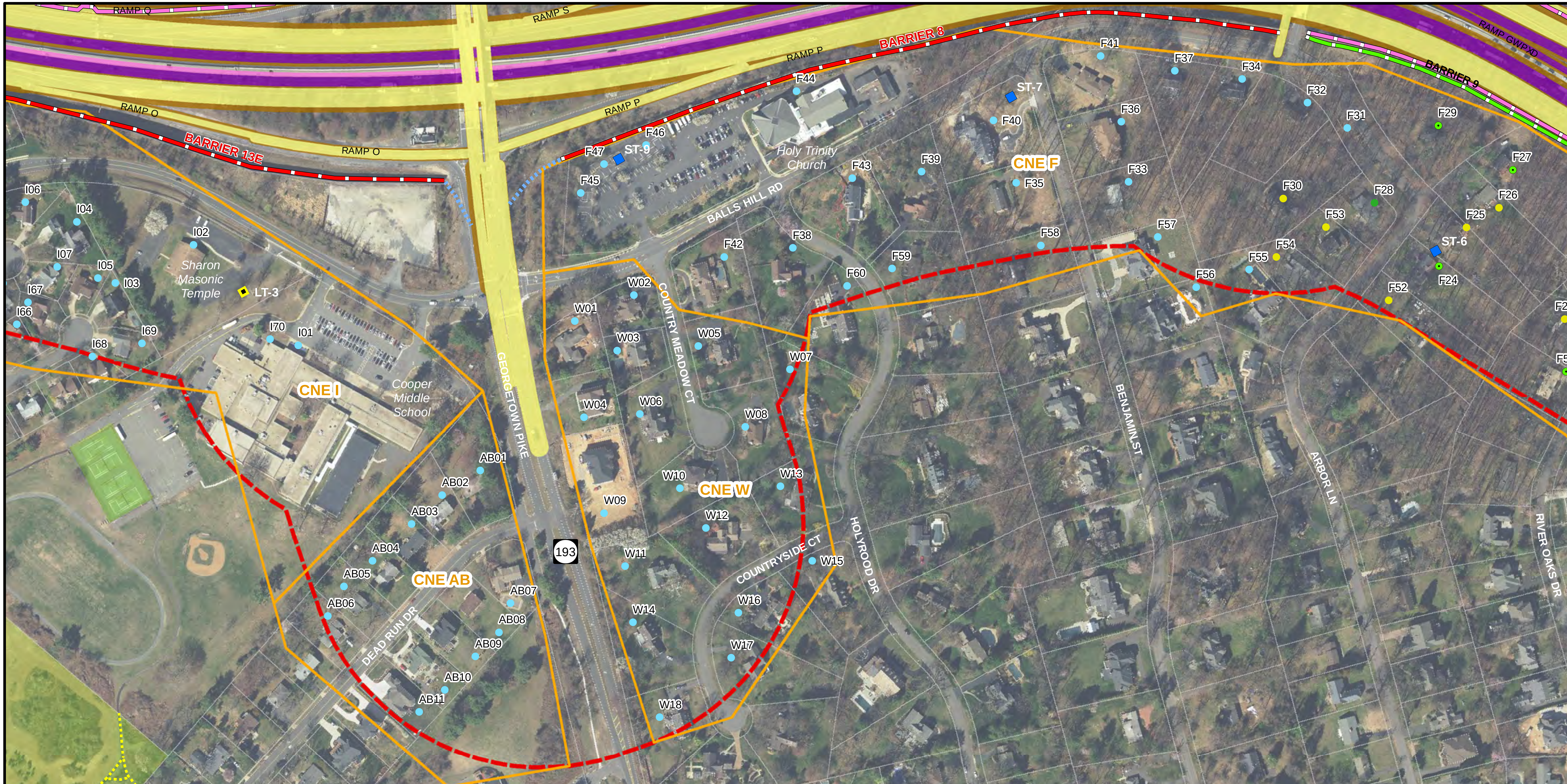
Existing Barriers

- Existing Noise Barrier
- Existing Noise Barrier (Physically Impacted)
- Adjusted Alignment for Physically Impacted Noise Barrier
- Potential In-Kind Barrier Replacement Extension (Not Reasonable)
- Potential In-Kind Barrier Replacement Extension (Reasonable)
- 66 dB(A) Sound Level Contour
- Common Noise Environment

Evaluated Barriers

- Not Feasible
- Feasible and Not Reasonable
- Feasible and Reasonable
- General Purpose Lanes
- Express Lanes
- Shoulder Use Lanes
- Paved Shoulders
- Rec. Trails (Noise Sensitive)





Appendix A: Predicted Noise Levels and Evaluated Noise Abatement 2045 Build Alternative

Page 8 of 14

0 250 500 Feet

VDOT

I-495 Express Lanes
NEXT Study
UPC 113414
Project #: 0495-029-419
Fairfax County

- Short-Term Noise Monitoring Site
- Long-Term Noise Monitoring Site

Modeled Receptors

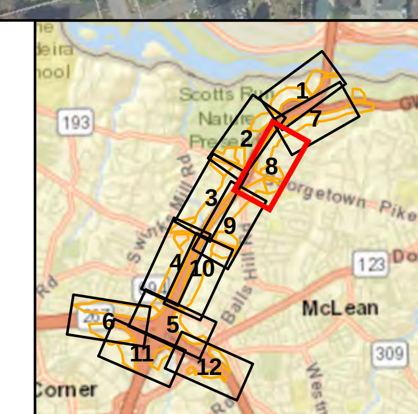
- Impacted and Benefited (7 dBA or greater)
- Impacted and Benefited (5-7 dBA)
- Impacted and Not Benefited
- Not Impacted and Benefited
- Not Impacted and Not Benefited
- Study Area

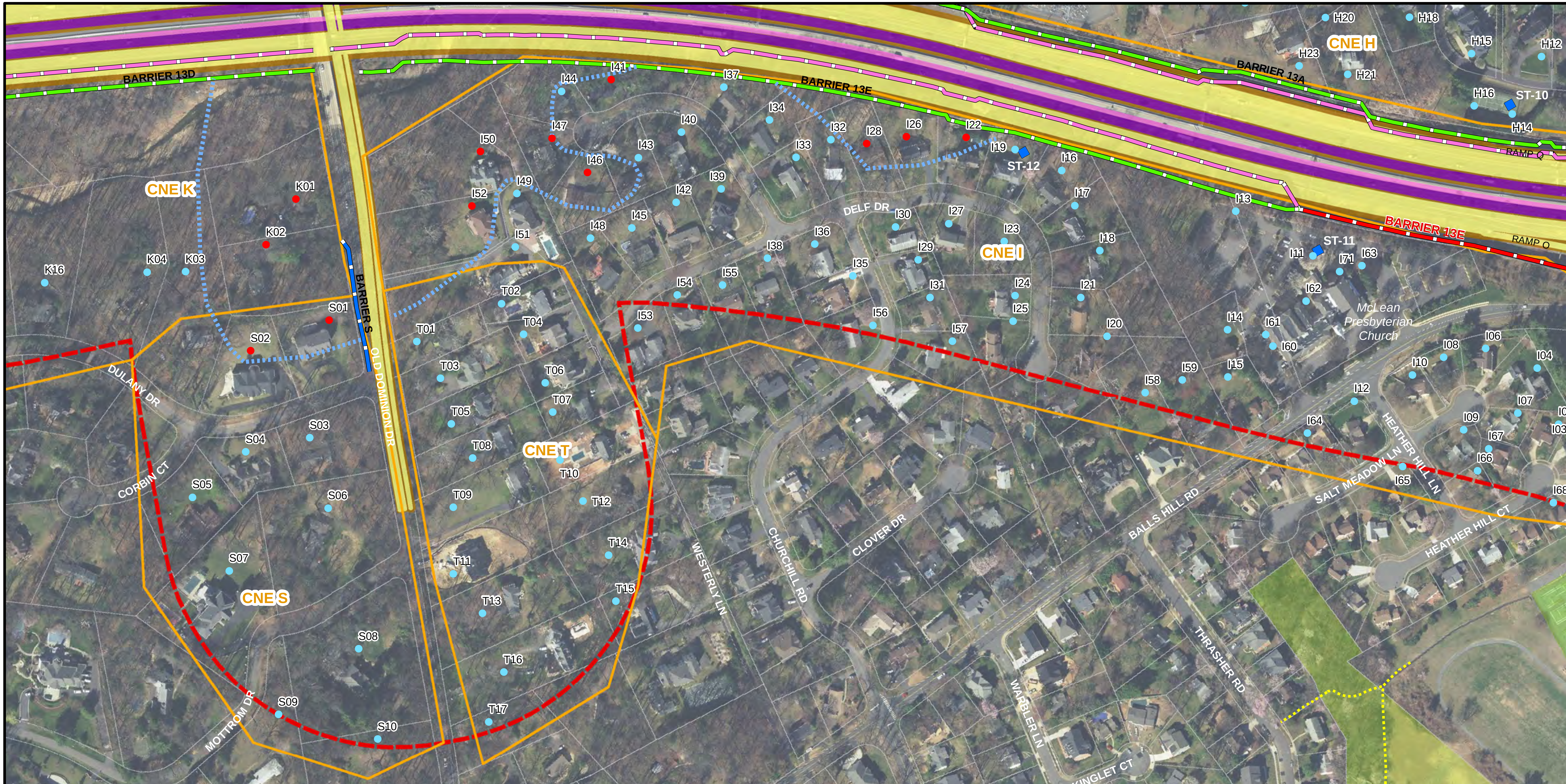
Existing Barriers

- Existing Noise Barrier
- Existing Noise Barrier (Physically Impacted)
- Adjusted Alignment for Physically Impacted Noise Barrier
- Potential In-Kind Barrier Replacement Extension (Not Reasonable)
- Potential In-Kind Barrier Replacement Extension (Reasonable)
- 66 dB(A) Sound Level Contour
- Common Noise Environment

Evaluated Barriers

- Not Feasible
- Feasible and Not Reasonable
- Feasible and Reasonable
- General Purpose Lanes
- Express Lanes
- Shoulder Use Lanes
- Paved Shoulders
- Rec. Trails (Noise Sensitive)





Appendix A: Predicted Noise Levels and Evaluated Noise Abatement 2045 Build Alternative

Page 9 of 14

0 250 500 Feet

VDOT

I-495 Express Lanes
NEXT Study
UPC 113414
Project #: 0495-029-419
Fairfax County

- Short-Term Noise Monitoring Site
- Long-Term Noise Monitoring Site

Modeled Receptors

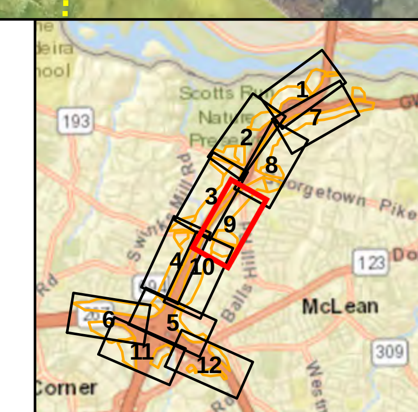
- Impacted and Benefited (7 dBA or greater)
- Impacted and Benefited (5-7 dBA)
- Impacted and Not Benefited
- Not Impacted and Benefited
- Not Impacted and Not Benefited
- Study Area

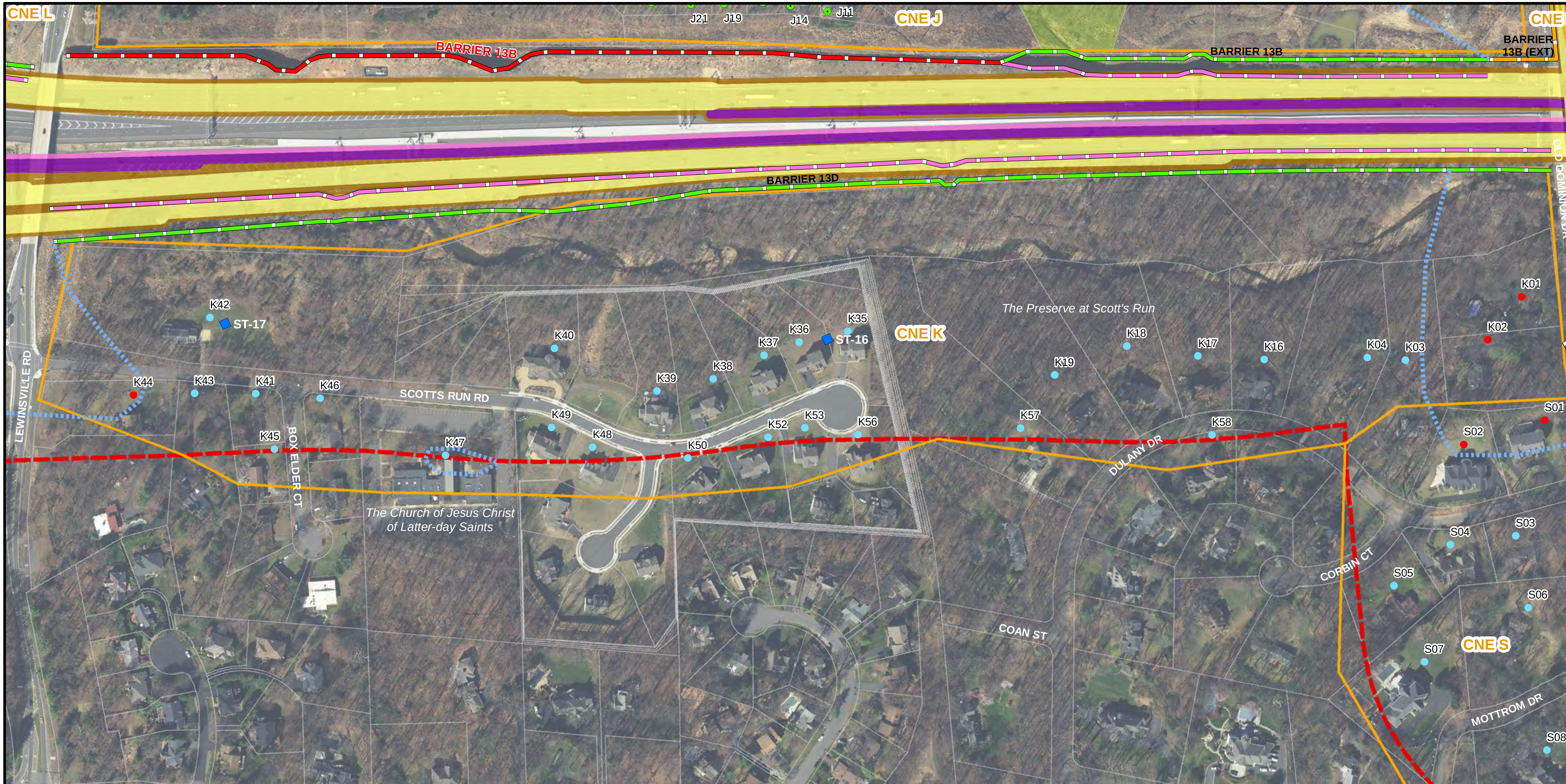
Existing Barriers

- Existing Noise Barrier
- Existing Noise Barrier (Physically Impacted)
- Adjusted Alignment for Physically Impacted Noise Barrier
- Potential In-Kind Barrier Replacement Extension (Not Reasonable)
- Potential In-Kind Barrier Replacement Extension (Reasonable)
- 66 dB(A) Sound Level Contour
- Common Noise Environment

Evaluated Barriers

- Not Feasible
- Feasible and Not Reasonable
- Feasible and Reasonable
- General Purpose Lanes
- Express Lanes
- Shoulder Use Lanes
- Paved Shoulders
- Rec. Trails (Noise Sensitive)





Appendix A: Predicted Noise Levels and Evaluated Noise Abatement 2045 Build Alternative

Page 10 of 14

0 250 500 Feet

VDOT

I-495 Express Lanes NEXT Study
UPC 113414
Project #: 0495-029-419
Fairfax County

- Short-Term Noise Monitoring Site
- Long-Term Noise Monitoring Site

Modeled Receptors

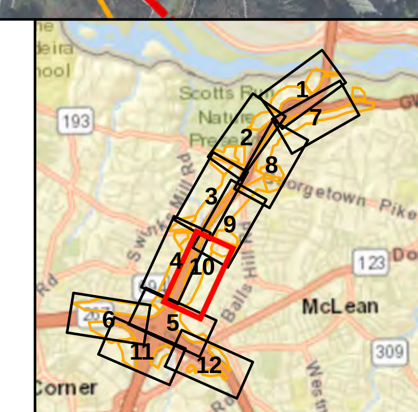
- Impacted and Benefited (7 dBA or greater)
- Impacted and Benefited (5-7 dBA)
- Impacted and Not Benefited
- Not Impacted and Benefited
- Not Impacted and Not Benefited
- Study Area

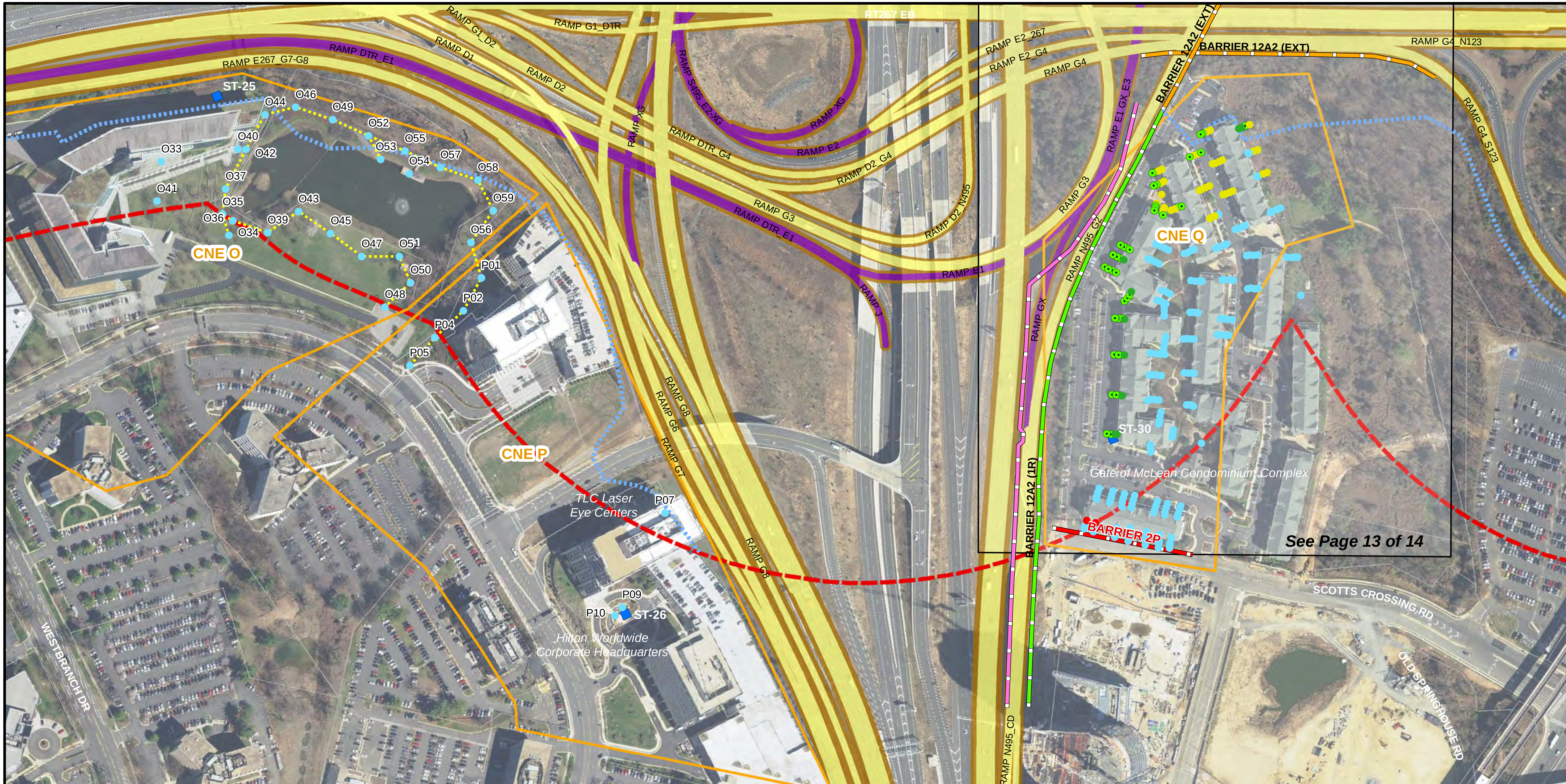
Existing Barriers

- Existing Noise Barrier
- Existing Noise Barrier (Physically Impacted)
- Adjusted Alignment for Physically Impacted Noise Barrier
- Potential In-Kind Barrier Replacement Extension (Not Reasonable)
- Potential In-Kind Barrier Replacement Extension (Reasonable)
- 66 dB(A) Sound Level Contour
- Common Noise Environment

Evaluated Barriers

- Not Feasible
- Feasible and Not Reasonable
- Feasible and Reasonable
- General Purpose Lanes
- Express Lanes
- Shoulder Use Lanes
- Paved Shoulders
- Rec. Trails (Noise Sensitive)





Appendix A:
Predicted Noise Levels and Evaluated Noise Abatement 2045 Build Alternative

Page 11 of 14

0 250 500 Feet

VDOT

I-495 Express Lanes
NEXT Study
UPC 113414
Project #: 0495-029-419
Fairfax County

- Short-Term Noise Monitoring Site
- Long-Term Noise Monitoring Site

Modeled Receptors

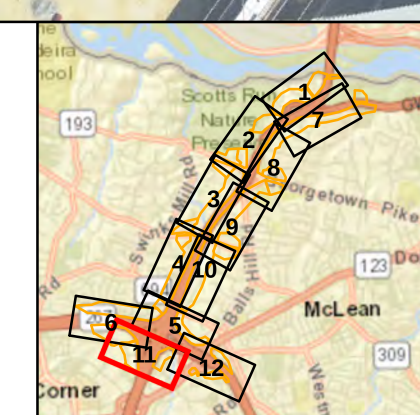
- Impacted and Benefited (7 dBA or greater)
- Impacted and Benefited (5-7 dBA)
- Impacted and Not Benefited
- Not Impacted and Benefited
- Not Impacted and Not Benefited
- Study Area

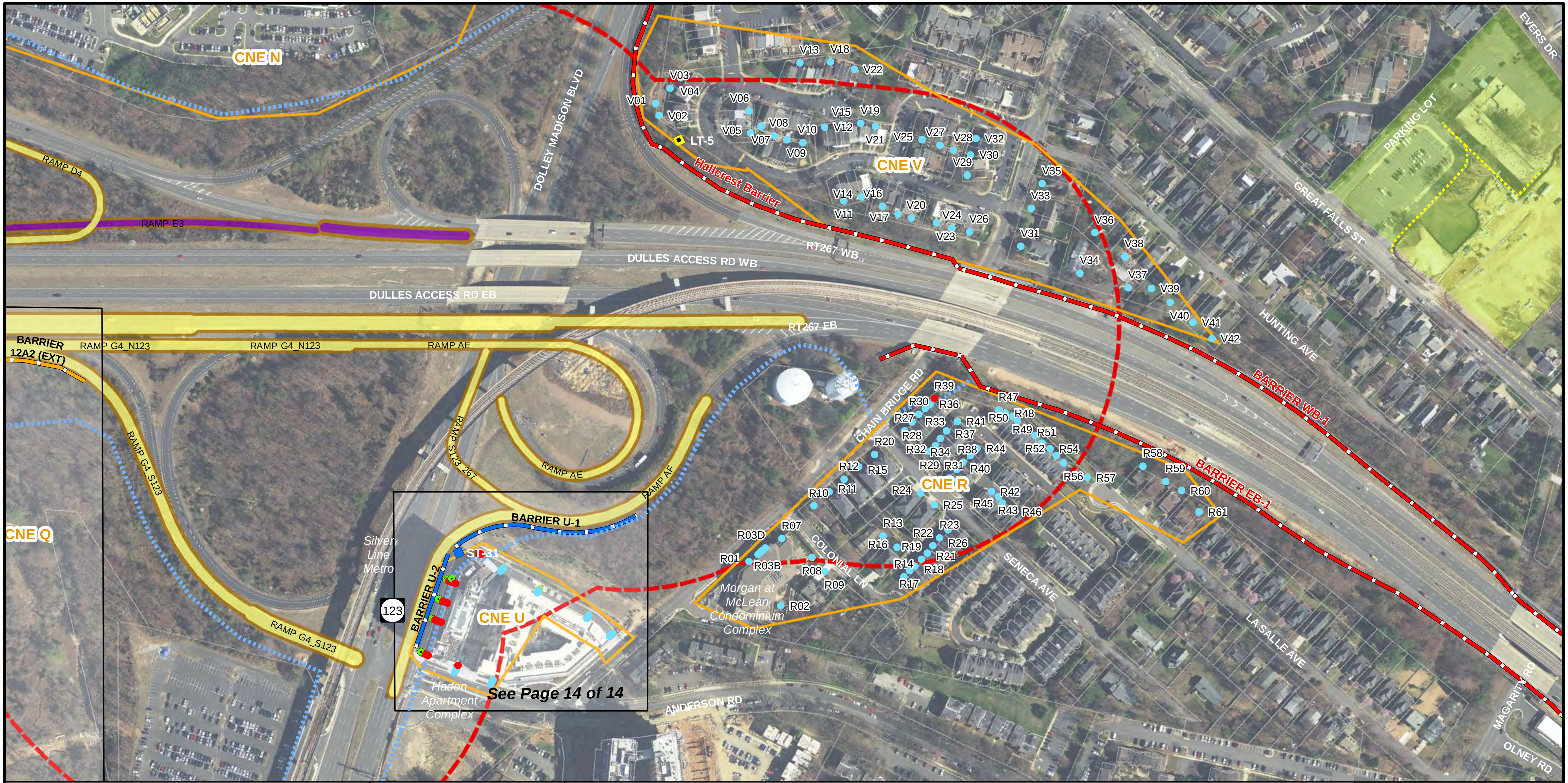
Existing Barriers

- Existing Noise Barrier
- Existing Noise Barrier (Physically Impacted)
- Adjusted Alignment for Physically Impacted Noise Barrier
- Potential In-Kind Barrier Replacement Extension (Not Reasonable)
- Potential In-Kind Barrier Replacement Extension (Reasonable)
- 66 dB(A) Sound Level Contour
- Common Noise Environment

Evaluated Barriers

- Not Feasible
- Feasible and Not Reasonable
- Feasible and Reasonable
- General Purpose Lanes
- Express Lanes
- Shoulder Use Lanes
- Paved Shoulders
- Rec. Trails (Noise Sensitive)





Appendix A:
Predicted Noise Levels and Evaluated Noise Abatement 2045 Build Alternative

Page 12 of 14

0 250 500 Feet

VDOT

I-495 Express Lanes
NEXT Study
UPC 113414
Project #: 0495-029-419
Fairfax County

- Short-Term Noise Monitoring Site
- Long-Term Noise Monitoring Site

Modeled Receptors

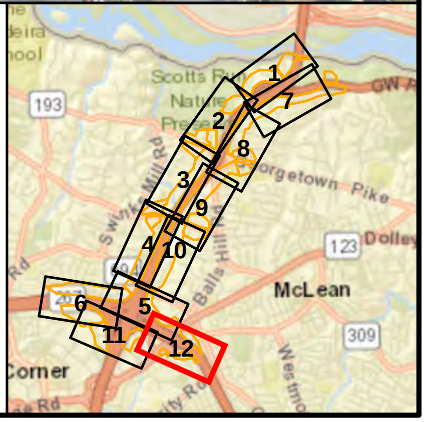
- Impacted and Benefited (7 dBA or greater)
- Impacted and Benefited (5-7 dBA)
- Impacted and Not Benefited
- Not Impacted and Benefited
- Not Impacted and Not Benefited
- Study Area

Existing Barriers

- Existing Noise Barrier
- Existing Noise Barrier (Physically Impacted)
- Adjusted Alignment for Physically Impacted Noise Barrier
- Potential In-Kind Barrier Replacement Extension (Not Reasonable)
- Potential In-Kind Barrier Replacement Extension (Reasonable)
- 66 dB(A) Sound Level Contour
- Common Noise Environment

Evaluated Barriers

- Not Feasible
- Feasible and Not Reasonable
- Feasible and Reasonable
- General Purpose Lanes
- Express Lanes
- Shoulder Use Lanes
- Paved Shoulders
- Rec. Trails (Noise Sensitive)



Appendix A:
Predicted Noise Levels and Evaluated Noise Abatement 2045 Build Alternative

Page 13 of 14

0 100 200 Feet

VDOT

I-495 Express Lanes NEXT Study
UPC 113414
Project #: 0495-029-419
Fairfax County

- Short-Term Noise Monitoring Site
- Long-Term Noise Monitoring Site

Modeled Receptors

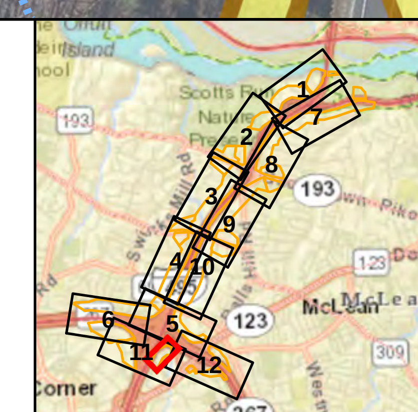
- Impacted and Benefited (7 dBA or greater)
- Impacted and Benefited (5-7 dBA)
- Impacted and Not Benefited
- Not Impacted and Benefited
- Not Impacted and Not Benefited
- Study Area

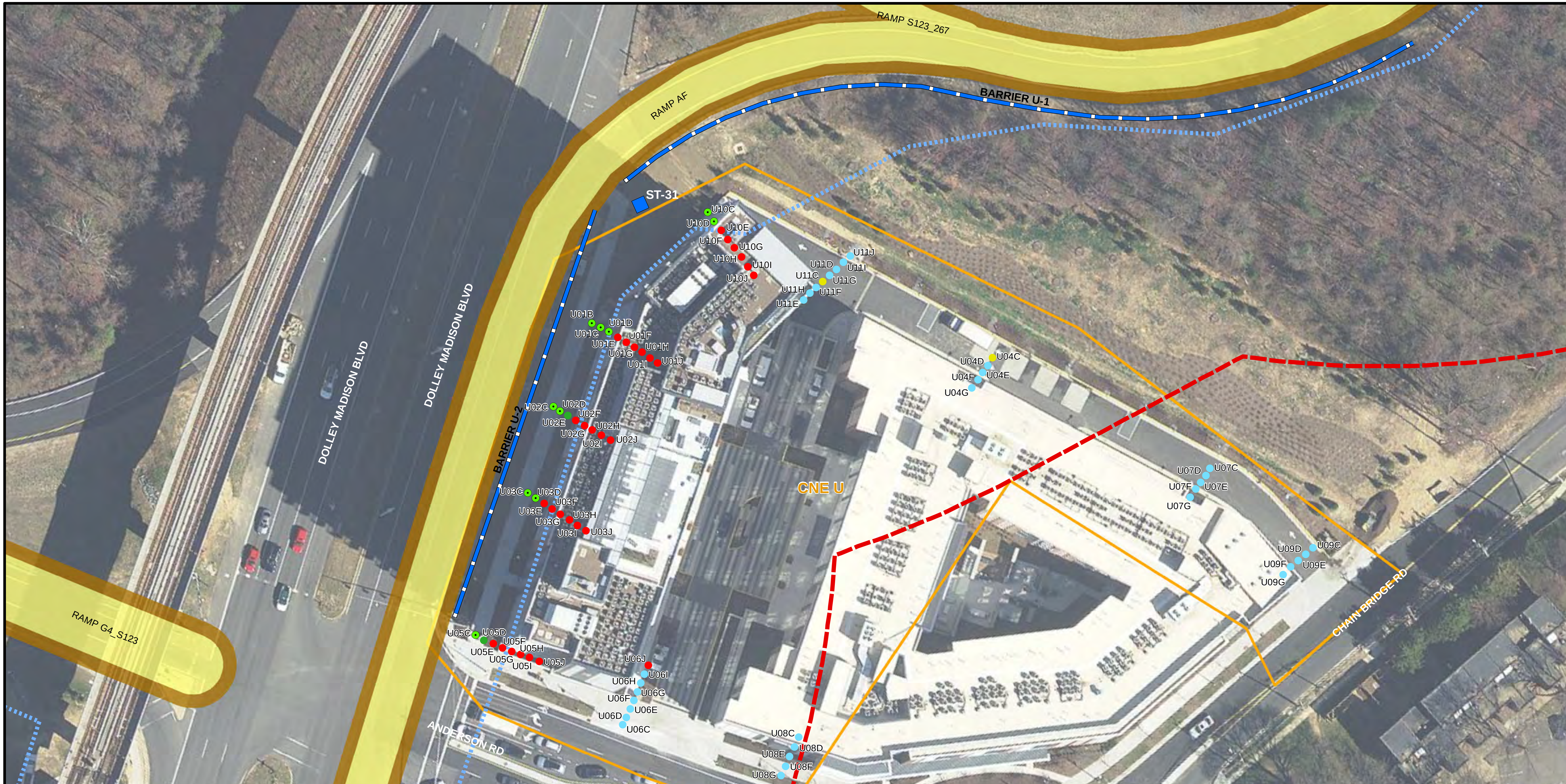
Existing Barriers

- Existing Noise Barrier
- Existing Noise Barrier (Physically Impacted)
- Adjusted Alignment for Physically Impacted Noise Barrier
- Potential In-Kind Barrier Replacement Extension (Not Reasonable)
- Potential In-Kind Barrier Replacement Extension (Reasonable)
- 66 dB(A) Sound Level Contour
- Common Noise Environment

Evaluated Barriers

- Not Feasible
- Feasible and Not Reasonable
- Feasible and Reasonable
- General Purpose Lanes
- Express Lanes
- Shoulder Use Lanes
- Paved Shoulders
- Rec. Trails (Noise Sensitive)





Appendix A:
Predicted Noise Levels and Evaluated Noise Abatement 2045 Build Alternative

Page 14 of 14

Feet
0 50 100

VDOT

I-495 Express Lanes
NEXT Study
UPC 113414
Project #: 0495-029-419
Fairfax County

Short-Term Noise Monitoring Site
Long-Term Noise Monitoring Site

Modeled Receptors

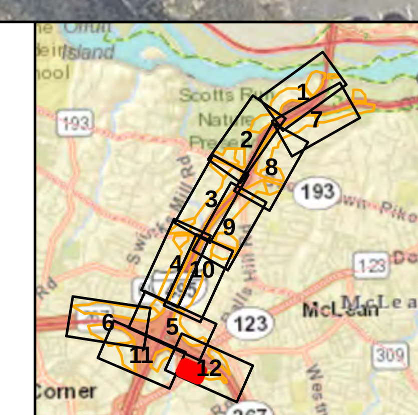
- Impacted and Benefited (7 dBA or greater)
- Impacted and Benefited (5-7 dBA)
- Impacted and Not Benefited
- Not Impacted and Benefited
- Not Impacted and Not Benefited
- Study Area

Existing Barriers

- Existing Noise Barrier
- Existing Noise Barrier (Physically Impacted)
- Adjusted Alignment for Physically Impacted Noise Barrier
- Potential In-Kind Barrier Replacement Extension (Not Reasonable)
- Potential In-Kind Barrier Replacement Extension (Reasonable)
- 66 dB(A) Sound Level Contour
- Common Noise Environment

Evaluated Barriers

- Not Feasible
- Feasible and Not Reasonable
- Feasible and Reasonable
- General Purpose Lanes
- Express Lanes
- Shoulder Use Lanes
- Paved Shoulders
- Rec. Trails (Noise Sensitive)



Appendix B: Summary of Predicted Sound Levels (Table)

Appendix B: Summary of Predicted Sound Levels

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels L_{eq} (dB(A))		Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
CNE C							
C04	B	Residential	1	49	47	59	No
C05	B	Residential	1	55	56	65	No
C06	B	Residential	1	47	48	57	No
C07	B	Residential	1	47	46	57	No
C08	B	Residential	1	51	52	61	No
C09	B	Residential	1	52	52	62	No
C10	B	Residential	1	56	57	66	No
C11	B	Residential	1	57	56	66	No
C12	B	Residential	1	46	46	56	No
C13	B	Residential	1	61	62	66	No
C14	B	Residential	1	55	54	65	No
C15	B	Residential	1	61	59	66	No
C16	B	Residential	1	57	59	66	No
C17	B	Residential	1	67	67	66	Yes
C18	B	Residential	1	54	53	64	No
C19	B	Residential	1	56	59	66	No
C20	B	Residential	1	55	53	65	No
C21	B	Residential	1	61	62	66	No
C22	B	Residential	1	56	54	66	No
C23	B	Residential	1	60	58	66	No
C24	B	Residential	1	64	68	66	Yes
C25	B	Residential	1	59	66	66	Yes
C26	B	Residential	1	64	71	66	Yes
C27	B	Residential	1	51	52	61	No
C28	B	Residential	1	59	59	66	No
C29	B	Residential	1	58	55	66	No
C30	B	Residential	1	55	53	65	No
C31	B	Residential	1	56	55	66	No
C32	B	Residential	1	57	57	66	No
C33	B	Residential	1	54	53	64	No
C34	C	Recreational	1	59	60	66	No

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels Leq (dB(A))		Noise Abatement Criteria** Leq (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
C35	C	Recreational	1	61	59	66	No
C36	C	Recreational	1	60	59	66	No
C37	C	Recreational	1	60	58	66	No
C38	C	Recreational	1	59	56	66	No
C39	C	Recreational	1	58	55	66	No
C40	C	Recreational	1	58	54	66	No
C41	C	Recreational	1	59	55	66	No
C42	C	Recreational	1	60	57	66	No
C43	C	Recreational	1	63	60	66	No
C44	C	Recreational	1	65	64	66	No
C45	C	Recreational	1	66	68	66	Yes
C46	C	Recreational	1	68	69	66	Yes
C47	C	Recreational	1	69	70	66	Yes
C48	C	Recreational	1	71	73	66	Yes
C49	C	Recreational	1	72	74	66	Yes
C50	C	Recreational	1	72	73	66	Yes
C51	C	Recreational	1	69	72	66	Yes
C52	C	Recreational	1	68	72	66	Yes
C53	C	Recreational	1	65	68	66	Yes
C54	C	Recreational	1	63	65	66	No
C55	C	Recreational	1	62	64	66	No
CNE D							
D02	B	Residential	1	57	61	66	No
D03	B	Residential	1	52	55	62	No
D04	B	Residential	1	48	51	58	No
D05	B	Residential	1	58	63	66	No
D06	B	Residential	1	64	67	66	Yes
D07	B	Residential	1	57	62	66	No
D08	B	Residential	1	59	64	66	No
D09	B	Residential	1	63	67	66	Yes
D10	B	Residential	1	58	65	66	No
D11	B	Residential	1	60	63	66	No
D12	B	Residential	1	48	51	58	No
D13	B	Residential	1	56	61	66	No

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels L_{eq} (dB(A)) Existing Conditions (2018)	Predicted Noise Levels L_{eq} (dB(A)) Build Alternative (2045)	Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
D14	B	Residential	1	53	57	63	No
D15	B	Residential	1	54	57	64	No
D16	B	Residential	1	51	55	61	No
D17	B	Residential	1	46	49	56	No
D18	B	Residential	1	50	54	60	No
D19	B	Residential	1	52	57	62	No
D20	B	Residential	1	53	58	63	No
CNE E							
E01	B	Residential	1	57	59	66	No
E02	B	Residential	1	63	65	66	No
E03	B	Residential	1	60	62	66	No
E04	C	Recreational	1	60	61	66	No
E05	C	Recreational	1	59	60	66	No
E06	C	Recreational	1	61	62	66	No
E07	C	Recreational	1	64	65	66	No
E08	C	Recreational	1	63	64	66	No
E09	C	Recreational	1	55	56	65	No
E10	C	Recreational	1	66	68	66	Yes
E11	C	Recreational	1	61	62	66	No
E12	C	Recreational	1	57	58	66	No
E13	C	Recreational	1	65	67	66	Yes
E14	C	Recreational	1	64	66	66	Yes
E15	C	Recreational	1	59	60	66	No
E16	C	Recreational	1	58	59	66	No
E17	C	Recreational	1	63	64	66	No
E18	C	Recreational	1	64	60	66	No
E19	C	Recreational	1	64	65	66	No
E20	C	Recreational	1	65	67	66	Yes
E21	C	Recreational	1	66	67	66	Yes
E22	C	Recreational	1	66	68	66	Yes
E23	C	Recreational	1	67	69	66	Yes
E24	C	Recreational	1	67	68	66	Yes
E25	C	Recreational	1	59	60	66	No
E26	C	Recreational	1	57	58	66	No

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels L_{eq} (dB(A))		Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
E27	C	Recreational	1	55	56	65	No
E28	C	Recreational	1	60	61	66	No
E29	C	Recreational	1	59	60	66	No
E30	C	Recreational	1	54	55	64	No
E31	C	Recreational	1	53	55	63	No
E32	C	Recreational	1	63	66	66	Yes
E33	C	Recreational	1	54	55	64	No
E34	C	Recreational	1	56	57	66	No
E35	C	Recreational	1	56	57	66	No
E36	C	Recreational	1	57	58	66	No
E37	C	Recreational	1	56	58	66	No
E38	C	Recreational	1	54	55	64	No
E39	C	Recreational	1	54	55	64	No
E40	C	Recreational	1	54	55	64	No
E41	C	Recreational	1	53	54	63	No
E42	C	Recreational	1	52	53	62	No
E43	C	Recreational	1	51	52	61	No
E44	C	Recreational	1	50	51	60	No
E45	C	Recreational	1	60	61	66	No
E46	C	Recreational	1	60	61	66	No
E47	C	Recreational	1	59	60	66	No
E48	C	Recreational	1	65	68	66	Yes
E49	C	Recreational	1	65	67	66	Yes
E50	C	Recreational	1	64	65	66	No
E51	C	Recreational	1	63	64	66	No
E52	C	Recreational	1	62	63	66	No
E53	C	Recreational	1	60	62	66	No
E54	C	Recreational	1	60	61	66	No
CNE F							
F01	B	Residential	1	57	62	66	No
F02	B	Residential	1	56	60	66	No
F03	B	Residential	1	54	59	64	No
F04	B	Residential	1	56	58	66	No
F05	B	Residential	1	51	54	61	No

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels L_{eq} (dB(A))		Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
F06	B	Residential	1	58	59	66	No
F07	B	Residential	1	59	61	66	No
F08	B	Residential	1	58	62	66	No
F09	B	Residential	1	54	58	64	No
F10	B	Residential	1	57	61	66	No
F11	B	Residential	1	62	63	66	No
F12	B	Residential	1	61	63	66	No
F13	B	Residential	1	59	61	66	No
F14	B	Residential	1	56	59	66	No
F15	B	Residential	1	55	57	65	No
F16	B	Residential	1	61	62	66	No
F17	B	Residential	1	56	59	66	No
F18	B	Residential	1	52	54	62	No
F19	B	Residential	1	61	63	66	No
F20	B	Residential	1	55	57	65	No
F21	B	Residential	1	57	58	66	No
F22	B	Residential	1	57	58	66	No
F23	B	Residential	1	53	55	63	No
F24	B	Residential	1	54	56	64	No
F25	B	Residential	1	55	56	65	No
F26	B	Residential	1	56	57	66	No
F27	B	Residential	1	59	60	66	No
F28	B	Residential	1	56	60	66	No
F29	B	Residential	1	61	62	66	No
F30	B	Residential	1	55	57	65	No
F31	B	Residential	1	53	60	63	No
F32	B	Residential	1	58	62	66	No
F33	B	Residential	1	54	55	64	No
F34	B	Residential	1	60	63	66	No
F35	B	Residential	1	53	55	63	No
F36	B	Residential	1	55	56	65	No
F37	B	Residential	1	59	62	66	No
F38	B	Residential	1	55	58	65	No
F39	B	Residential	1	56	59	66	No

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels L_{eq} (dB(A))		Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
F40	B	Residential	1	58	61	66	No
F41	B	Residential	1	58	62	66	No
F42	B	Residential	1	55	60	65	No
F43	B	Residential	1	54	62	64	No
F44	D	Interior	1	62 (37)	63 (38)	72 (47)	No
F45	C	Recreational	1	60	61	66	No
F46	C	Recreational	1	60	62	66	No
F47	C	Recreational	1	60	61	66	No
F48	B	Residential	1	51	55	61	No
F49	B	Residential	1	51	53	61	No
F50	B	Residential	1	51	53	61	No
F51	B	Residential	1	52	54	62	No
F52	B	Residential	1	51	52	61	No
F53	B	Residential	1	54	57	64	No
F54	B	Residential	1	53	55	63	No
F55	B	Residential	1	53	55	63	No
F56	B	Residential	1	52	54	62	No
F57	B	Residential	1	53	54	63	No
F58	B	Residential	1	52	53	62	No
F59	B	Residential	1	55	56	65	No
F60	B	Residential	1	54	55	64	No
CNE G							
G01	B	Residential	1	56	57	66	No
G02	B	Residential	1	58	58	66	No
G03	B	Residential	1	61	62	66	No
G04	B	Residential	1	63	66	66	Yes
G05	B	Residential	1	65	67	66	Yes
G06	B	Residential	1	64	66	66	Yes
G07	B	Residential	1	56	57	66	No
G08	B	Residential	1	58	60	66	No
G09	B	Residential	1	59	60	66	No
CNE H							
H01	B	Residential	1	57	57	66	No
H02	B	Residential	1	57	57	66	No

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels Leq (dB(A))		Noise Abatement Criteria** Leq (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
H03	B	Residential	1	58	58	66	No
H04	B	Residential	1	52	52	62	No
H05	B	Residential	1	51	52	61	No
H06	B	Residential	1	56	57	66	No
H07	B	Residential	1	50	51	60	No
H08	B	Residential	1	56	57	66	No
H09	B	Residential	1	51	52	61	No
H10	B	Residential	1	57	58	66	No
H11	B	Residential	1	50	51	60	No
H12	B	Residential	1	55	56	65	No
H13	B	Residential	1	51	52	61	No
H14	C	Recreational	1	57	58	66	No
H15	B	Residential	1	55	56	65	No
H16	C	Recreational	1	56	58	66	No
H17	B	Residential	1	51	53	61	No
H18	B	Residential	1	54	55	64	No
H19	B	Residential	1	51	52	61	No
H20	B	Residential	1	55	56	65	No
H21	B	Residential	1	58	59	66	No
H22	B	Residential	1	52	53	62	No
H23	B	Residential	1	58	61	66	No
H24	B	Residential	1	55	56	65	No
H25	B	Residential	1	53	54	63	No
H26	B	Residential	1	55	56	65	No
H27	B	Residential	1	53	55	63	No
H28	B	Residential	1	54	55	64	No
H29	B	Residential	1	58	58	66	No
H30	B	Residential	1	62	62	66	No
H31	C	Recreational	1	59	56	66	No
H32	C	Recreational	1	60	57	66	No
H33	C	Recreational	1	62	58	66	No
H34	C	Recreational	1	64	59	66	No
H35	B	Residential	1	60	57	66	No
H36	C	Recreational	1	64	59	66	No

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels L_{eq} (dB(A))		Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
H37	C	Recreational	1	67	59	66	No
H38	B	Residential	1	63	58	66	No
H39	B	Residential	1	64	60	66	No
H40	B	Residential	1	65	60	66	No
H41	B	Residential	1	65	65	66	No
H42	C	Recreational	1	70	57	66	No
H43	C	Recreational	1	58	55	66	No
H44	C	Recreational	1	57	55	66	No
H45	C	Recreational	1	57	54	66	No
H46	C	Recreational	1	56	54	66	No
H47	B	Residential	1	56	56	66	No
H48	B	Residential	1	51	52	61	No
H49	B	Residential	1	54	54	64	No
H50	B	Residential	1	49	50	59	No
H51	B	Residential	1	49	50	59	No
H52	B	Residential	1	52	52	62	No
H53	B	Residential	1	53	54	63	No
CNE I							
I01	C	Recreational	1	55	56	65	No
I02	D	Interior	1	60 (35)	61 (36)	70 (45)	No
I03	B	Residential	1	56	57	66	No
I04	B	Residential	1	62	63	66	No
I05	B	Residential	1	56	57	66	No
I06	B	Residential	1	63	65	66	No
I07	B	Residential	1	57	58	66	No
I08	B	Residential	1	62	64	66	No
I09	B	Residential	1	53	54	63	No
I10	B	Residential	1	61	63	66	No
I11	C	Recreational	1	61	62	66	No
I12	B	Residential	1	61	63	66	No
I13	C	Recreational	1	61	63	66	No
I14	C	Recreational	1	56	58	66	No
I15	B	Residential	1	52	55	62	No
I16	B	Residential	1	61	63	66	No

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels L_{eq} (dB(A)) Existing Conditions (2018)	Predicted Noise Levels L_{eq} (dB(A)) Build Alternative (2045)	Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
I17	B	Residential	1	59	62	66	No
I18	B	Residential	1	58	61	66	No
I19	B	Residential	1	62	64	66	No
I20	B	Residential	1	54	56	64	No
I21	B	Residential	1	54	57	64	No
I22	B	Residential	1	63	66	66	Yes
I23	B	Residential	1	58	61	66	No
I24	B	Residential	1	56	59	66	No
I25	B	Residential	1	55	58	65	No
I26	B	Residential	1	64	68	66	Yes
I27	B	Residential	1	58	61	66	No
I28	B	Residential	1	63	67	66	Yes
I29	B	Residential	1	54	57	64	No
I30	B	Residential	1	57	61	66	No
I31	B	Residential	1	53	56	63	No
I32	B	Residential	1	62	65	66	No
I33	B	Residential	1	58	60	66	No
I34	B	Residential	1	60	62	66	No
I35	B	Residential	1	53	56	63	No
I36	B	Residential	1	54	56	64	No
I37	B	Residential	1	62	62	66	No
I38	B	Residential	1	53	56	63	No
I39	B	Residential	1	55	57	65	No
I40	B	Residential	1	58	61	66	No
I41	B	Residential	1	65	66	66	Yes
I42	B	Residential	1	54	57	64	No
I43	B	Residential	1	64	65	66	No
I44	B	Residential	1	66	65	66	No
I45	B	Residential	1	57	61	66	No
I46	B	Residential	1	64	67	66	Yes
I47	B	Residential	1	64	66	66	Yes
I48	B	Residential	1	61	64	66	No
I49	B	Residential	1	64	65	66	No
I50	B	Residential	1	68	69	66	Yes

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels L_{eq} (dB(A))		Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
I51	B	Residential	1	60	64	66	No
I52	B	Residential	1	66	68	66	Yes
I53	B	Residential	1	53	55	63	No
I54	B	Residential	1	52	55	62	No
I55	B	Residential	1	52	55	62	No
I56	B	Residential	1	51	54	61	No
I57	B	Residential	1	53	56	63	No
I58	B	Residential	1	54	56	64	No
I59	B	Residential	1	54	57	64	No
I60	C	Recreational	1	54	57	64	No
I61	C	Recreational	1	54	57	64	No
I62	C	Recreational	1	57	60	66	No
I63	C	Recreational	1	63	64	66	No
I64	B	Residential	1	61	63	66	No
I65	B	Residential	1	51	52	61	No
I66	B	Residential	1	45	46	55	No
I67	B	Residential	1	50	51	60	No
I68	B	Residential	1	49	50	59	No
I69	B	Residential	1	53	53	63	No
I70	D	Interior	1	55 (35)	56 (36)	65 (45)	No
I71	D	Interior	1	61 (36)	63 (38)	71 (46)	No
CNE J							
J01	B	Residential	1	66	68	66	Yes
J02	B	Residential	1	66	67	66	Yes
J03	B	Residential	1	63	67	66	Yes
J04	B	Residential	1	64	67	66	Yes
J05	B	Residential	1	63	65	66	No
J06	B	Residential	1	53	55	63	No
J07	B	Residential	1	61	64	66	No
J08	B	Residential	1	57	60	66	No
J09	B	Residential	1	57	59	66	No
J10	B	Residential	1	57	60	66	No
J11	B	Residential	1	63	65	66	No
J12	B	Residential	1	58	60	66	No

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels L_{eq} (dB(A))		Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
J13	B	Residential	1	57	60	66	No
J14	B	Residential	1	62	64	66	No
J15	B	Residential	1	58	60	66	No
J16	B	Residential	1	62	63	66	No
J17	B	Residential	1	56	58	66	No
J18	B	Residential	1	58	59	66	No
J19	B	Residential	1	62	63	66	No
J20	B	Residential	1	57	59	66	No
J21	B	Residential	1	62	63	66	No
J22	B	Residential	1	54	55	64	No
J23	B	Residential	1	62	63	66	No
J24	B	Residential	1	61	62	66	No
J25	B	Residential	1	52	53	62	No
J26	B	Residential	1	59	59	66	No
J27	B	Residential	1	55	56	65	No
J28	B	Residential	1	53	54	63	No
J29	B	Residential	1	54	55	64	No
J30	B	Residential	1	57	57	66	No
J31	B	Residential	1	59	60	66	No
J32	B	Residential	1	55	56	65	No
J33	B	Residential	1	56	56	66	No
J34	B	Residential	1	62	63	66	No
J35	B	Residential	1	58	59	66	No
J36	B	Residential	1	55	55	65	No
J37	B	Residential	1	56	57	66	No
J38	B	Residential	1	56	59	66	No
J39	B	Residential	1	59	60	66	No
J40	B	Residential	1	62	65	66	No
J41	B	Residential	1	56	58	66	No
J42	B	Residential	1	52	53	62	No
J43	B	Residential	1	56	59	66	No
J44	B	Residential	1	53	54	63	No
J45	B	Residential	1	53	53	63	No
J46	B	Residential	1	54	54	64	No

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels L_{eq} (dB(A))		Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
J47	B	Residential	1	52	53	62	No
J48	B	Residential	1	52	53	62	No
J49	B	Residential	1	53	55	63	No
J50	B	Residential	1	57	59	66	No
CNE K							
K01	B	Residential	1	65	70	66	Yes
K02	B	Residential	1	63	69	66	Yes
K03	B	Residential	1	62	65	66	No
K04	B	Residential	1	61	63	66	No
K16	B	Residential	1	60	63	66	No
K17	B	Residential	1	60	62	66	No
K18	B	Residential	1	59	61	66	No
K19	B	Residential	1	62	64	66	No
K35	B	Residential	1	61	62	66	No
K36	B	Residential	1	62	62	66	No
K37	B	Residential	1	61	61	66	No
K38	B	Residential	1	61	60	66	No
K39	B	Residential	1	61	60	66	No
K40	B	Residential	1	63	61	66	No
K41	B	Residential	1	61	60	66	No
K42	B	Residential	1	65	63	66	No
K43	B	Residential	1	63	63	66	No
K44	B	Residential	1	65	67	66	Yes
K45	B	Residential	1	61	60	66	No
K46	B	Residential	1	61	60	66	No
K47	D	Interior	1	65 (40)	66 (41)	75 (50)	No
K48	B	Residential	1	59	59	66	No
K49	B	Residential	1	60	60	66	No
K50	B	Residential	1	60	60	66	No
K52	B	Residential	1	61	62	66	No
K53	B	Residential	1	61	63	66	No
K56	B	Residential	1	61	62	66	No
K57	B	Residential	1	63	65	66	No
K58	B	Residential	1	61	65	66	No

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels L_{eq} (dB(A))		Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
CNE L							
L01	B	Residential	1	61	62	66	No
L02	B	Residential	1	58	59	66	No
L03	B	Residential	1	59	58	66	No
L04	B	Residential	1	57	58	66	No
L06	B	Residential	1	60	60	66	No
L07	B	Residential	1	57	57	66	No
L09	B	Residential	1	60	60	66	No
L10	B	Residential	1	58	59	66	No
L13	B	Residential	1	54	58	64	No
L16	B	Residential	1	53	53	63	No
L17	B	Residential	1	61	61	66	No
L18	B	Residential	1	65	64	66	No
CNE M							
M001	B	Residential	1	56	56	66	No
M002	B	Residential	1	55	55	65	No
M003	B	Residential	1	54	54	64	No
M004	B	Residential	1	53	53	63	No
M005	B	Residential	1	57	57	66	No
M006	B	Residential	1	54	55	64	No
M007	B	Residential	1	55	57	65	No
M010	B	Residential	1	57	57	66	No
M011	B	Residential	1	57	58	66	No
M012	B	Residential	1	57	58	66	No
M013	B	Residential	1	58	58	66	No
M014	B	Residential	1	58	59	66	No
M015	B	Residential	1	57	57	66	No
M016	B	Residential	1	57	57	66	No
M017	B	Residential	1	57	57	66	No
M018	B	Residential	1	56	55	66	No
M019	B	Residential	1	56	56	66	No
M020	B	Residential	1	57	56	66	No
M021	B	Residential	1	58	57	66	No
M022	B	Residential	1	58	57	66	No

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels L_{eq} (dB(A))		Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
M023	B	Residential	1	58	58	66	No
M024	B	Residential	1	58	58	66	No
M025	B	Residential	1	57	57	66	No
M026	B	Residential	1	56	56	66	No
M027	B	Residential	1	56	55	66	No
M028	B	Residential	1	56	56	66	No
M029	B	Residential	1	54	54	64	No
M030	B	Residential	1	56	55	66	No
M031	B	Residential	1	57	57	66	No
M032	B	Residential	1	56	56	66	No
M033	B	Residential	1	56	56	66	No
M034	B	Residential	1	57	57	66	No
M035	B	Residential	1	58	58	66	No
M036	B	Residential	1	56	56	66	No
M037	B	Residential	1	58	57	66	No
M038	B	Residential	1	58	58	66	No
M039	B	Residential	1	59	59	66	No
M040	B	Residential	1	58	59	66	No
M041	B	Residential	1	58	58	66	No
M042	B	Residential	1	56	56	66	No
M043	B	Residential	1	57	57	66	No
M044	B	Residential	1	57	57	66	No
M045	B	Residential	1	57	57	66	No
M046	B	Residential	1	57	56	66	No
M047	B	Residential	1	57	56	66	No
M048	B	Residential	1	56	56	66	No
M049	B	Residential	1	55	55	65	No
M050	B	Residential	1	55	55	65	No
M051	C	Recreational	1	56	56	66	No
M052	B	Residential	1	56	55	66	No
M053	B	Residential	1	56	56	66	No
M054	B	Residential	1	57	57	66	No
M055	B	Residential	1	57	57	66	No
M056	B	Residential	1	57	57	66	No

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels L_{eq} (dB(A))		Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
M057	B	Residential	1	57	57	66	No
M058	B	Residential	1	56	56	66	No
M059	B	Residential	1	56	56	66	No
M060	B	Residential	1	59	58	66	No
M061	B	Residential	1	57	56	66	No
M062	B	Residential	1	57	57	66	No
M063	B	Residential	1	57	56	66	No
M064	B	Residential	1	58	57	66	No
M065	B	Residential	1	56	56	66	No
M066	B	Residential	1	56	56	66	No
M067	B	Residential	1	55	55	65	No
M068	B	Residential	1	57	56	66	No
M069	B	Residential	1	55	54	65	No
M070	B	Residential	1	53	53	63	No
M071	B	Residential	1	54	53	64	No
M072	B	Residential	1	54	53	64	No
M073	B	Residential	1	55	55	65	No
M074	B	Residential	1	57	57	66	No
M075	B	Residential	1	59	58	66	No
M076	B	Residential	1	55	54	65	No
M077	B	Residential	1	50	49	60	No
M078	B	Residential	1	53	52	63	No
M079	B	Residential	1	52	51	62	No
M080	B	Residential	1	51	50	61	No
M081	B	Residential	1	57	58	66	No
M082	B	Residential	1	54	54	64	No
M083	B	Residential	1	56	56	66	No
M084	B	Residential	1	53	53	63	No
M085	B	Residential	1	54	54	64	No
M086	B	Residential	1	53	52	63	No
M087	B	Residential	1	53	53	63	No
M088	B	Residential	1	57	58	66	No
M089	B	Residential	1	56	56	66	No
M090	B	Residential	1	58	59	66	No

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels Leq (dB(A))		Noise Abatement Criteria** Leq (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
M091	B	Residential	1	57	58	66	No
M092	B	Residential	1	54	55	64	No
M093	B	Residential	1	53	54	63	No
M094	B	Residential	1	54	54	64	No
M095	B	Residential	1	54	55	64	No
M096	B	Residential	1	57	58	66	No
M097	B	Residential	1	52	52	62	No
M098	B	Residential	1	52	52	62	No
M099	B	Residential	1	50	49	60	No
M100	B	Residential	1	49	48	59	No
M101	B	Residential	1	51	50	61	No
M102	B	Residential	1	50	49	60	No
M103	B	Residential	1	55	54	65	No
M104	B	Residential	1	56	55	66	No
M105	B	Residential	1	53	53	63	No
M106	B	Residential	1	55	55	65	No
M107	B	Residential	1	55	54	65	No
M108	B	Residential	1	51	51	61	No
M109	B	Residential	1	53	52	63	No
M110	B	Residential	1	52	52	62	No
CNE N							
N1	D	Interior	1	71 (46)	72 (47)	76 (51)	No
N3	E	Commercial	1	60	61	70	No
CNE O							
O01	C	Recreational	1	70	69	66	Yes
O02	C	Recreational	1	65	64	66	No
O03	C	Recreational	1	72	71	66	Yes
O09	C	Recreational	1	59	59	66	No
O10	C	Recreational	1	55	54	65	No
O11	C	Recreational	1	64	65	66	No
O12	C	Recreational	1	61	60	66	No
O13	C	Recreational	1	57	57	66	No
O14	C	Recreational	1	70	70	66	Yes
O15	C	Recreational	1	61	63	66	No

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels L_{eq} (dB(A))		Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
O16	C	Recreational	1	58	59	66	No
O17	C	Recreational	1	64	63	66	No
O18	C	Recreational	1	57	57	66	No
O19	C	Recreational	1	72	71	66	Yes
O20	C	Recreational	1	71	70	66	Yes
O21	C	Recreational	1	61	61	66	No
O22	E	Commercial	1	66	66	71	No
O23	E	Commercial	1	63	63	71	No
O24	E	Commercial	1	61	60	71	No
O25	E	Commercial	1	67	66	71	No
O26	E	Commercial	1	61	61	71	No
O27	E	Commercial	1	64	64	71	No
O29	E	Commercial	1	60	59	70	No
O33	E	Commercial	1	64	64	71	No
O34	E	Commercial	1	61	59	71	No
O35	E	Commercial	1	60	58	70	No
O36	E	Commercial	1	61	58	71	No
O37	E	Commercial	1	61	58	71	No
O39	E	Commercial	1	62	59	71	No
O40	E	Commercial	1	62	59	71	No
O41	E	Commercial	1	72	67	71	Yes
O42	E	Commercial	1	63	61	71	No
O43	E	Commercial	1	63	61	71	No
O44	E	Commercial	1	68	65	71	No
O45	E	Commercial	1	63	60	71	No
O46	E	Commercial	1	71	68	71	Yes
O47	E	Commercial	1	62	59	71	No
O48	E	Commercial	1	61	58	71	No
O49	E	Commercial	1	71	67	71	Yes
O50	E	Commercial	1	61	59	71	No
O51	E	Commercial	1	62	60	71	No
O52	E	Commercial	1	69	67	71	No
O53	E	Commercial	1	66	62	71	No
O54	E	Commercial	1	65	62	71	No

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels L_{eq} (dB(A))		Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
O55	E	Commercial	1	69	66	71	No
O56	E	Commercial	1	63	61	71	No
O57	E	Commercial	1	68	66	71	No
O58	E	Commercial	1	66	63	71	No
O59	E	Commercial	1	65	62	71	No
CNE P							
P01	E	Commercial	1	62	61	71	No
P02	E	Commercial	1	61	59	71	No
P04	E	Commercial	1	59	57	69	No
P05	E	Commercial	1	59	57	69	No
P07	D	Interior	1	70 (45)	71 (46)	76 (51)	No
P09	E	Commercial	1	62	62	71	No
P10	E	Commercial	1	61	61	71	No
CNE Q							
Q01A	B	Residential	2	64	66	66	No
Q01B	B	Residential	2	66	67	66	Yes
Q01C	B	Residential	2	67	67	66	Yes
Q01D	B	Residential	2	68	68	66	Yes
Q02A	B	Residential	2	64	63	66	No
Q02B	B	Residential	2	65	65	66	No
Q02C	B	Residential	2	65	65	66	No
Q02D	B	Residential	2	66	66	66	Yes
Q03A	B	Residential	2	63	62	66	No
Q03B	B	Residential	2	64	63	66	No
Q03C	B	Residential	2	64	64	66	No
Q03D	B	Residential	2	65	64	66	No
Q04A	B	Residential	2	60	60	66	No
Q04B	B	Residential	2	62	61	66	No
Q04C	B	Residential	2	63	62	66	No
Q04D	B	Residential	2	63	63	66	No
Q05A	B	Residential	2	58	63	66	No
Q05B	B	Residential	2	62	65	66	No
Q05C	B	Residential	2	67	67	66	Yes
Q05D	B	Residential	2	69	69	66	Yes

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels L_{eq} (dB(A))		Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
Q06A	B	Residential	2	54	58	64	No
Q06B	B	Residential	2	57	60	66	No
Q06C	B	Residential	2	62	62	66	No
Q06D	B	Residential	2	65	65	66	No
Q07A	B	Residential	2	53	56	63	No
Q07B	B	Residential	2	55	57	65	No
Q07C	B	Residential	2	59	59	66	No
Q07D	B	Residential	2	62	61	66	No
Q08A	B	Residential	2	51	54	61	No
Q08B	B	Residential	2	53	54	63	No
Q08C	B	Residential	2	55	56	65	No
Q08D	B	Residential	2	60	59	66	No
Q09A	B	Residential	2	58	58	66	No
Q09B	B	Residential	2	60	59	66	No
Q09C	B	Residential	2	61	60	66	No
Q09D	B	Residential	2	62	61	66	No
Q10A	B	Residential	2	58	58	66	No
Q10B	B	Residential	2	60	59	66	No
Q10C	B	Residential	2	60	60	66	No
Q10D	B	Residential	2	61	61	66	No
Q11A	B	Residential	2	57	60	66	No
Q11B	B	Residential	2	61	62	66	No
Q11C	B	Residential	2	65	65	66	No
Q11D	B	Residential	2	67	68	66	Yes
Q12A	B	Residential	2	53	56	63	No
Q12B	B	Residential	2	55	59	65	No
Q12C	B	Residential	2	60	61	66	No
Q12D	B	Residential	2	62	63	66	No
Q13A	B	Residential	2	51	54	61	No
Q13B	B	Residential	2	53	57	63	No
Q13C	B	Residential	2	57	59	66	No
Q13D	B	Residential	2	60	61	66	No
Q14A	B	Residential	2	54	55	64	No
Q14B	B	Residential	2	55	57	65	No

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels L_{eq} (dB(A))		Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
Q14C	B	Residential	2	57	59	66	No
Q14D	B	Residential	2	59	60	66	No
Q15A	B	Residential	2	56	55	66	No
Q15B	B	Residential	2	57	58	66	No
Q15C	B	Residential	2	59	59	66	No
Q15D	B	Residential	2	60	60	66	No
Q16A	B	Residential	2	55	55	65	No
Q16B	B	Residential	2	57	56	66	No
Q16C	B	Residential	2	58	58	66	No
Q16D	B	Residential	2	59	58	66	No
Q17A	B	Residential	2	55	54	65	No
Q17B	B	Residential	2	57	56	66	No
Q17C	B	Residential	2	58	57	66	No
Q17D	B	Residential	2	58	58	66	No
Q18A	B	Residential	1	55	57	65	No
Q18B	B	Residential	1	57	59	66	No
Q18C	B	Residential	1	60	63	66	No
Q18D	B	Residential	1	69	70	66	Yes
Q19A	B	Residential	1	56	56	66	No
Q19B	B	Residential	1	57	58	66	No
Q19C	B	Residential	1	61	62	66	No
Q19D	B	Residential	1	69	69	66	Yes
Q20	C	Recreational	1	55	55	65	No
Q21A	B	Residential	1	55	56	65	No
Q21B	B	Residential	1	58	58	66	No
Q21C	B	Residential	1	65	66	66	Yes
Q21D	B	Residential	1	69	69	66	Yes
Q22A	B	Residential	1	54	55	64	No
Q22B	B	Residential	1	57	57	66	No
Q22C	B	Residential	1	64	65	66	No
Q22D	B	Residential	1	68	68	66	Yes
Q23A	B	Residential	4	53	53	63	No
Q23B	B	Residential	4	56	56	66	No
Q23C	B	Residential	4	60	61	66	No

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels L_{eq} (dB(A))		Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
Q23D	B	Residential	4	66	66	66	No
Q24A	B	Residential	2	48	49	58	No
Q24B	B	Residential	2	48	49	58	No
Q24C	B	Residential	2	51	51	61	No
Q24D	B	Residential	2	54	54	64	No
Q25A	B	Residential	2	49	50	59	No
Q25B	B	Residential	2	50	50	60	No
Q25C	B	Residential	2	52	51	62	No
Q25D	B	Residential	2	55	54	65	No
Q26A	B	Residential	4	48	48	58	No
Q26B	B	Residential	4	47	48	57	No
Q26C	B	Residential	4	48	49	58	No
Q26D	B	Residential	4	50	51	60	No
Q27A	B	Residential	4	46	47	56	No
Q27B	B	Residential	4	45	46	55	No
Q27C	B	Residential	4	46	47	56	No
Q27D	B	Residential	4	48	49	58	No
Q28A	B	Residential	2	45	46	55	No
Q28B	B	Residential	2	43	45	53	No
Q28C	B	Residential	2	45	46	55	No
Q28D	B	Residential	2	47	49	57	No
Q29A	B	Residential	2	45	46	55	No
Q29B	B	Residential	2	43	44	53	No
Q29C	B	Residential	2	44	45	54	No
Q29D	B	Residential	2	47	48	57	No
Q30	C	Recreational	1	48	48	58	No
Q31A	B	Residential	2	48	49	58	No
Q31B	B	Residential	2	47	48	57	No
Q31C	B	Residential	2	50	50	60	No
Q31D	B	Residential	2	50	51	60	No
Q32A	B	Residential	4	48	49	58	No
Q32B	B	Residential	4	48	48	58	No
Q32C	B	Residential	4	50	51	60	No
Q32D	B	Residential	2	51	52	61	No

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels L_{eq} (dB(A))		Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
Q33A	B	Residential	2	50	50	60	No
Q33B	B	Residential	2	50	50	60	No
Q33C	B	Residential	2	52	51	62	No
Q33D	B	Residential	2	53	53	63	No
Q34A	B	Residential	2	48	49	58	No
Q34B	B	Residential	2	48	48	58	No
Q34C	B	Residential	2	50	50	60	No
Q34D	B	Residential	2	52	52	62	No
Q35A	B	Residential	2	47	48	57	No
Q35B	B	Residential	2	47	47	57	No
Q35C	B	Residential	2	48	49	58	No
Q35D	B	Residential	2	51	51	61	No
Q36A	B	Residential	2	46	47	56	No
Q36B	B	Residential	2	45	46	55	No
Q36C	B	Residential	2	48	49	58	No
Q36D	B	Residential	2	49	50	59	No
Q37A	B	Residential	2	46	47	56	No
Q37B	B	Residential	2	44	46	54	No
Q37C	B	Residential	2	47	48	57	No
Q37D	B	Residential	2	49	50	59	No
Q38A	B	Residential	4	47	48	57	No
Q38B	B	Residential	4	46	46	56	No
Q38C	B	Residential	4	48	49	58	No
Q38D	B	Residential	4	50	51	60	No
Q39A	B	Residential	2	47	48	57	No
Q39B	B	Residential	2	46	47	56	No
Q39C	B	Residential	2	48	49	58	No
Q39D	B	Residential	2	51	51	61	No
Q40A	B	Residential	2	46	47	56	No
Q40B	B	Residential	2	45	45	55	No
Q40C	B	Residential	2	48	49	58	No
Q40D	B	Residential	2	51	50	61	No
Q41A	B	Residential	2	57	57	66	No
Q41B	B	Residential	2	58	58	66	No

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels L_{eq} (dB(A)) Existing Conditions (2018)	Predicted Noise Levels L_{eq} (dB(A)) Build Alternative (2045)	Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
Q41C	B	Residential	2	62	63	66	No
Q41D	B	Residential	2	69	70	66	Yes
Q42A	B	Residential	2	58	58	66	No
Q42B	B	Residential	2	58	59	66	No
Q42C	B	Residential	2	62	63	66	No
Q42D	B	Residential	2	69	70	66	Yes
Q43A	B	Residential	2	58	57	66	No
Q43B	B	Residential	2	58	59	66	No
Q43C	B	Residential	2	62	63	66	No
Q43D	B	Residential	2	69	70	66	Yes
Q44A	B	Residential	2	55	56	65	No
Q44B	B	Residential	2	57	57	66	No
Q44C	B	Residential	2	58	58	66	No
Q44D	B	Residential	2	62	63	66	No
Q45A	B	Residential	2	56	57	66	No
Q45B	B	Residential	2	58	57	66	No
Q45C	B	Residential	2	60	59	66	No
Q45D	B	Residential	2	64	64	66	No
Q46A	B	Residential	4	56	57	66	No
Q46B	B	Residential	4	58	58	66	No
Q46C	B	Residential	4	60	59	66	No
Q46D	B	Residential	4	63	63	66	No
Q47A	B	Residential	4	56	57	66	No
Q47B	B	Residential	4	58	58	66	No
Q47C	B	Residential	4	62	59	66	No
Q47D	B	Residential	4	62	61	66	No
Q48A	B	Residential	3	56	55	66	No
Q48B	B	Residential	3	58	57	66	No
Q48C	B	Residential	3	60	58	66	No
Q48D	B	Residential	3	61	61	66	No
Q49A	B	Residential	2	49	50	59	No
Q49B	B	Residential	2	51	51	61	No
Q49C	B	Residential	2	52	52	62	No
Q49D	B	Residential	2	53	54	63	No

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels L_{eq} (dB(A))		Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
Q50A	B	Residential	2	49	48	59	No
Q50B	B	Residential	2	50	50	60	No
Q50C	B	Residential	2	51	51	61	No
Q50D	B	Residential	2	52	53	62	No
Q51A	B	Residential	1	55	55	65	No
Q51B	B	Residential	1	56	56	66	No
Q51C	B	Residential	1	57	58	66	No
Q51D	B	Residential	1	60	62	66	No
Q52A	B	Residential	1	54	53	64	No
Q52B	B	Residential	1	55	54	65	No
Q52C	B	Residential	1	56	56	66	No
Q52D	B	Residential	1	58	59	66	No
Q53A	B	Residential	1	52	52	62	No
Q53B	B	Residential	1	53	53	63	No
Q53C	B	Residential	1	55	55	65	No
Q53D	B	Residential	1	57	58	66	No
Q54A	B	Residential	1	52	52	62	No
Q54B	B	Residential	1	53	53	63	No
Q54C	B	Residential	1	55	54	65	No
Q54D	B	Residential	1	56	57	66	No
Q55A	B	Residential	1	51	51	61	No
Q55B	B	Residential	1	52	52	62	No
Q55C	B	Residential	1	53	54	63	No
Q55D	B	Residential	1	56	57	66	No
Q56A	B	Residential	1	51	51	61	No
Q56B	B	Residential	1	52	52	62	No
Q56C	B	Residential	1	54	55	64	No
Q56D	B	Residential	1	56	58	66	No
Q57A	B	Residential	1	52	53	62	No
Q57B	B	Residential	1	54	54	64	No
Q57C	B	Residential	1	54	55	64	No
Q57D	B	Residential	1	57	58	66	No
Q58A	B	Residential	1	59	60	66	No
Q58B	B	Residential	1	61	61	66	No

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels L_{eq} (dB(A))		Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
Q58C	B	Residential	1	63	64	66	No
Q58D	B	Residential	1	65	67	66	Yes
Q59A	B	Residential	1	57	57	66	No
Q59B	B	Residential	1	60	60	66	No
Q59C	B	Residential	1	62	62	66	No
Q59D	B	Residential	1	64	66	66	Yes
Q60A	B	Residential	1	52	53	62	No
Q60B	B	Residential	1	55	57	65	No
Q60C	B	Residential	1	58	60	66	No
Q60D	B	Residential	1	59	63	66	No
Q61A	B	Residential	1	52	53	62	No
Q61B	B	Residential	1	55	58	65	No
Q61C	B	Residential	1	57	60	66	No
Q61D	B	Residential	1	59	62	66	No
Q62A	B	Residential	1	52	53	62	No
Q62B	B	Residential	1	56	59	66	No
Q62C	B	Residential	1	57	60	66	No
Q62D	B	Residential	1	58	61	66	No
Q63A	B	Residential	1	52	54	62	No
Q63B	B	Residential	1	56	59	66	No
Q63C	B	Residential	1	57	60	66	No
Q63D	B	Residential	1	58	61	66	No
Q64A	B	Residential	1	54	56	64	No
Q64B	B	Residential	1	56	59	66	No
Q64C	B	Residential	1	57	60	66	No
Q64D	B	Residential	1	58	60	66	No
Q65A	B	Residential	4	59	58	66	No
Q65B	B	Residential	4	61	60	66	No
Q65C	B	Residential	4	62	61	66	No
Q65D	B	Residential	4	62	62	66	No
Q66	C	Recreational	1	59	58	66	No
CNE R							
R01	B	Residential	1	61	63	66	No
R02	C	Recreational	1	45	46	55	No

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels L_{eq} (dB(A))		Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
R03A	B	Residential	1	61	63	66	No
R03B	B	Residential	2	62	63	66	No
R03C	B	Residential	2	63	64	66	No
R03D	B	Residential	2	63	64	66	No
R07	B	Residential	1	60	62	66	No
R08	B	Residential	1	51	53	61	No
R09	B	Residential	1	52	53	62	No
R10	B	Residential	1	61	63	66	No
R11	B	Residential	1	62	63	66	No
R12	B	Residential	1	62	63	66	No
R13	B	Residential	1	49	50	59	No
R14	B	Residential	1	46	47	56	No
R15	B	Residential	1	61	63	66	No
R16	B	Residential	1	46	46	56	No
R17	B	Residential	1	47	48	57	No
R18	B	Residential	1	47	48	57	No
R19	B	Residential	1	48	49	58	No
R20	B	Residential	1	61	62	66	No
R21	B	Residential	1	49	49	59	No
R22	B	Residential	1	49	50	59	No
R23	B	Residential	1	50	50	60	No
R24	B	Residential	1	50	50	60	No
R25	B	Residential	1	48	49	58	No
R26	B	Residential	1	49	49	59	No
R27	B	Residential	1	63	63	66	No
R28	B	Residential	1	63	64	66	No
R29	B	Residential	1	53	54	63	No
R30	B	Residential	1	64	64	66	No
R31	B	Residential	1	51	51	61	No
R32	B	Residential	1	50	52	60	No
R33	B	Residential	1	65	65	66	No
R34	B	Residential	1	48	49	58	No
R35	B	Residential	1	44	46	54	No
R36	B	Residential	1	65	65	66	No

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels L_{eq} (dB(A))		Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
R37	B	Residential	1	48	49	58	No
R38	B	Residential	1	43	44	53	No
R39	B	Residential	1	66	66	66	Yes
R40	B	Residential	1	43	44	53	No
R41	B	Residential	1	54	54	64	No
R42	B	Residential	2	43	43	53	No
R43	B	Residential	2	42	43	52	No
R44	B	Residential	1	46	46	56	No
R45	B	Residential	2	45	45	55	No
R46	B	Residential	2	48	48	58	No
R47	B	Residential	1	58	58	66	No
R48	B	Residential	1	56	56	66	No
R49	B	Residential	1	56	55	66	No
R50	B	Residential	1	56	55	66	No
R51	B	Residential	1	55	55	65	No
R52	B	Residential	1	55	55	65	No
R53	B	Residential	1	55	55	65	No
R54	B	Residential	1	55	55	65	No
R55	B	Residential	1	55	55	65	No
R56	B	Residential	1	55	54	65	No
R57	B	Residential	1	54	54	64	No
R58	B	Residential	1	54	54	64	No
R59	B	Residential	1	54	54	64	No
R60	B	Residential	1	54	54	64	No
R61	B	Residential	1	54	54	64	No
CNE S							
S01	B	Residential	1	62	67	66	Yes
S02	B	Residential	1	61	67	66	Yes
S03	B	Residential	1	55	62	65	No
S04	B	Residential	1	57	62	66	No
S05	B	Residential	1	51	56	61	No
S06	B	Residential	1	53	59	63	No
S07	B	Residential	1	54	60	64	No
S08	B	Residential	1	53	57	63	No

Receiver Number	NAC	Land Use	No. of Representative Receptors*	Predicted Noise Levels L_{eq} (dB(A))		Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
S09	B	Residential	1	49	55	59	No
S10	B	Residential	1	54	58	64	No
CNE T							
T01	B	Residential	1	59	61	66	No
T02	B	Residential	1	60	64	66	No
T03	B	Residential	1	59	61	66	No
T04	B	Residential	1	58	63	66	No
T05	B	Residential	1	58	59	66	No
T06	B	Residential	1	57	62	66	No
T07	B	Residential	1	56	61	66	No
T08	B	Residential	1	57	59	66	No
T09	B	Residential	1	58	60	66	No
T10	B	Residential	1	55	60	65	No
T11	B	Residential	1	58	60	66	No
T12	B	Residential	1	54	59	64	No
T13	B	Residential	1	57	59	66	No
T14	B	Residential	1	52	56	62	No
T15	B	Residential	1	51	56	61	No
T16	B	Residential	1	55	57	65	No
T17	B	Residential	1	58	60	66	No
CNE U							
U01B	B	Residential	1	68	70	66	Yes
U01C	B	Residential	1	68	70	66	Yes
U01D	B	Residential	1	68	70	66	Yes
U01E	B	Residential	1	68	70	66	Yes
U01F	B	Residential	1	68	70	66	Yes
U01G	B	Residential	1	68	70	66	Yes
U01H	B	Residential	1	68	70	66	Yes
U01I	B	Residential	1	68	70	66	Yes
U01J	B	Residential	1	68	70	66	Yes
U02C	B	Residential	2	68	70	66	Yes
U02D	B	Residential	2	68	70	66	Yes
U02E	B	Residential	2	68	70	66	Yes
U02F	B	Residential	2	68	70	66	Yes

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels L_{eq} (dB(A))		Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
U02G	B	Residential	2	68	70	66	Yes
U02H	B	Residential	2	68	70	66	Yes
U02I	B	Residential	2	68	70	66	Yes
U02J	B	Residential	2	68	70	66	Yes
U03C	B	Residential	2	68	70	66	Yes
U03D	B	Residential	2	68	70	66	Yes
U03E	B	Residential	2	68	70	66	Yes
U03F	B	Residential	2	68	70	66	Yes
U03G	B	Residential	2	68	70	66	Yes
U03H	B	Residential	2	68	70	66	Yes
U03I	B	Residential	2	68	70	66	Yes
U03J	B	Residential	2	68	70	66	Yes
U04C	B	Residential	2	62	62	66	No
U04D	B	Residential	2	62	63	66	No
U04E	B	Residential	2	63	63	66	No
U04F	B	Residential	2	63	63	66	No
U04G	B	Residential	2	63	64	66	No
U05C	B	Residential	1	68	70	66	Yes
U05D	B	Residential	1	68	71	66	Yes
U05E	B	Residential	1	68	70	66	Yes
U05F	B	Residential	1	68	70	66	Yes
U05G	B	Residential	1	68	70	66	Yes
U05H	B	Residential	1	68	70	66	Yes
U05I	B	Residential	1	68	70	66	Yes
U05J	B	Residential	1	68	70	66	Yes
U06C	B	Residential	1	63	65	66	No
U06D	B	Residential	1	63	65	66	No
U06E	B	Residential	1	63	65	66	No
U06F	B	Residential	1	63	65	66	No
U06G	B	Residential	1	63	65	66	No
U06H	B	Residential	1	63	65	66	No
U06I	B	Residential	1	63	65	66	No
U06J	B	Residential	1	64	66	66	Yes
U07C	B	Residential	2	61	61	66	No

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels Leq (dB(A))		Noise Abatement Criteria** Leq (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
U07D	B	Residential	2	62	62	66	No
U07E	B	Residential	2	62	62	66	No
U07F	B	Residential	2	62	62	66	No
U07G	B	Residential	2	63	63	66	No
U08C	B	Residential	2	60	62	66	No
U08D	B	Residential	2	60	62	66	No
U08E	B	Residential	2	60	63	66	No
U08F	B	Residential	2	60	63	66	No
U08G	B	Residential	2	61	63	66	No
U09C	B	Residential	1	62	63	66	No
U09D	B	Residential	1	62	63	66	No
U09E	B	Residential	1	62	63	66	No
U09F	B	Residential	1	62	63	66	No
U09G	B	Residential	1	63	64	66	No
U10C	B	Residential	1	67	68	66	Yes
U10D	B	Residential	1	67	68	66	Yes
U10E	B	Residential	1	67	69	66	Yes
U10F	B	Residential	1	67	69	66	Yes
U10G	B	Residential	1	67	69	66	Yes
U10H	B	Residential	1	67	69	66	Yes
U10I	B	Residential	1	67	69	66	Yes
U10J	B	Residential	1	67	69	66	Yes
U11C	B	Residential	2	63	63	66	No
U11D	B	Residential	2	63	64	66	No
U11E	B	Residential	2	64	64	66	No
U11F	B	Residential	2	64	65	66	No
U11G	B	Residential	2	64	65	66	No
U11H	B	Residential	2	64	65	66	No
U11I	B	Residential	2	64	65	66	No
U11J	B	Residential	2	65	65	66	No
CNE V							
V01	B	Residential	1	53	54	63	No
V02	B	Residential	1	52	54	62	No
V03	B	Residential	1	53	55	63	No

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels L_{eq} (dB(A))		Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
V04	B	Residential	2	53	54	63	No
V05	B	Residential	2	51	52	61	No
V06	B	Residential	2	51	53	61	No
V07	B	Residential	1	52	53	62	No
V08	B	Residential	4	50	50	60	No
V09	B	Residential	2	48	48	58	No
V10	B	Residential	2	48	48	58	No
V11	B	Residential	2	57	57	66	No
V12	B	Residential	2	50	51	60	No
V13	B	Residential	3	50	52	60	No
V14	B	Residential	2	57	57	66	No
V15	B	Residential	2	49	50	59	No
V16	B	Residential	2	58	58	66	No
V17	B	Residential	2	58	58	66	No
V18	B	Residential	3	49	51	59	No
V19	B	Residential	1	49	50	59	No
V20	B	Residential	1	59	59	66	No
V21	B	Residential	2	49	50	59	No
V22	B	Residential	3	49	51	59	No
V23	B	Residential	2	61	61	66	No
V24	B	Residential	2	62	62	66	No
V25	B	Residential	4	48	49	58	No
V26	B	Residential	2	64	64	66	No
V27	B	Residential	4	45	46	55	No
V28	B	Residential	2	50	51	60	No
V29	B	Residential	1	55	55	65	No
V30	B	Residential	2	52	53	62	No
V31	B	Residential	1	64	65	66	No
V32	B	Residential	2	50	51	60	No
V33	B	Residential	1	63	64	66	No
V34	B	Residential	1	61	60	66	No
V35	B	Residential	1	61	63	66	No
V36	B	Residential	1	53	53	63	No
V37	B	Residential	1	58	58	66	No

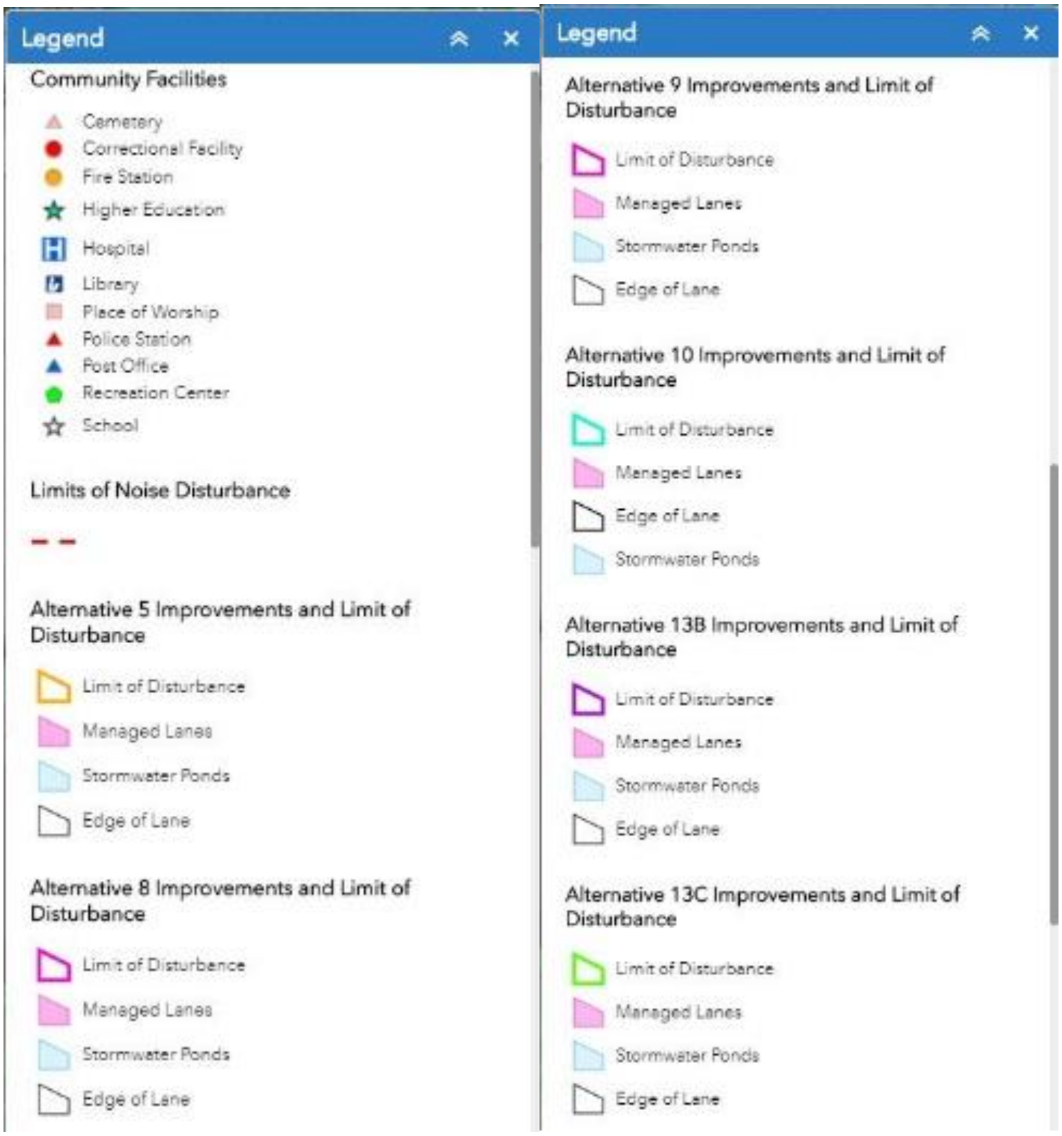
Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels L_{eq} (dB(A)) Existing Conditions (2018)	Predicted Noise Levels L_{eq} (dB(A)) Build Alternative (2045)	Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
V38	B	Residential	1	53	53	63	No
V39	B	Residential	1	57	57	66	No
V40	B	Residential	1	57	57	66	No
V41	B	Residential	1	57	57	66	No
V42	B	Residential	1	56	56	66	No
CNE W							
W01	B	Residential	1	58	61	66	No
W02	B	Residential	1	55	60	65	No
W03	B	Residential	1	52	53	62	No
W04	B	Residential	1	57	60	66	No
W05	B	Residential	1	52	53	62	No
W06	B	Residential	1	50	50	60	No
W07	B	Residential	1	50	51	60	No
W08	B	Residential	1	49	50	59	No
W09	B	Residential	1	56	59	66	No
W10	B	Residential	1	48	48	58	No
W11	B	Residential	1	56	58	66	No
W12	B	Residential	1	48	49	58	No
W13	B	Residential	1	49	51	59	No
W14	B	Residential	1	58	60	66	No
W15	B	Residential	1	48	51	58	No
W16	B	Residential	1	49	50	59	No
W17	B	Residential	1	50	52	60	No
W18	B	Residential	1	56	61	66	No
CNE X							
X01	C	Recreational	1	51	53	61	No
X02	C	Recreational	1	52	54	62	No
X03	C	Recreational	1	53	55	63	No
X04	C	Recreational	1	54	56	64	No
X05	C	Recreational	1	55	56	65	No
X06	C	Recreational	1	55	56	65	No
X07	C	Recreational	1	57	58	66	No
X08	C	Recreational	1	57	58	66	No
X09	C	Recreational	1	52	54	62	No

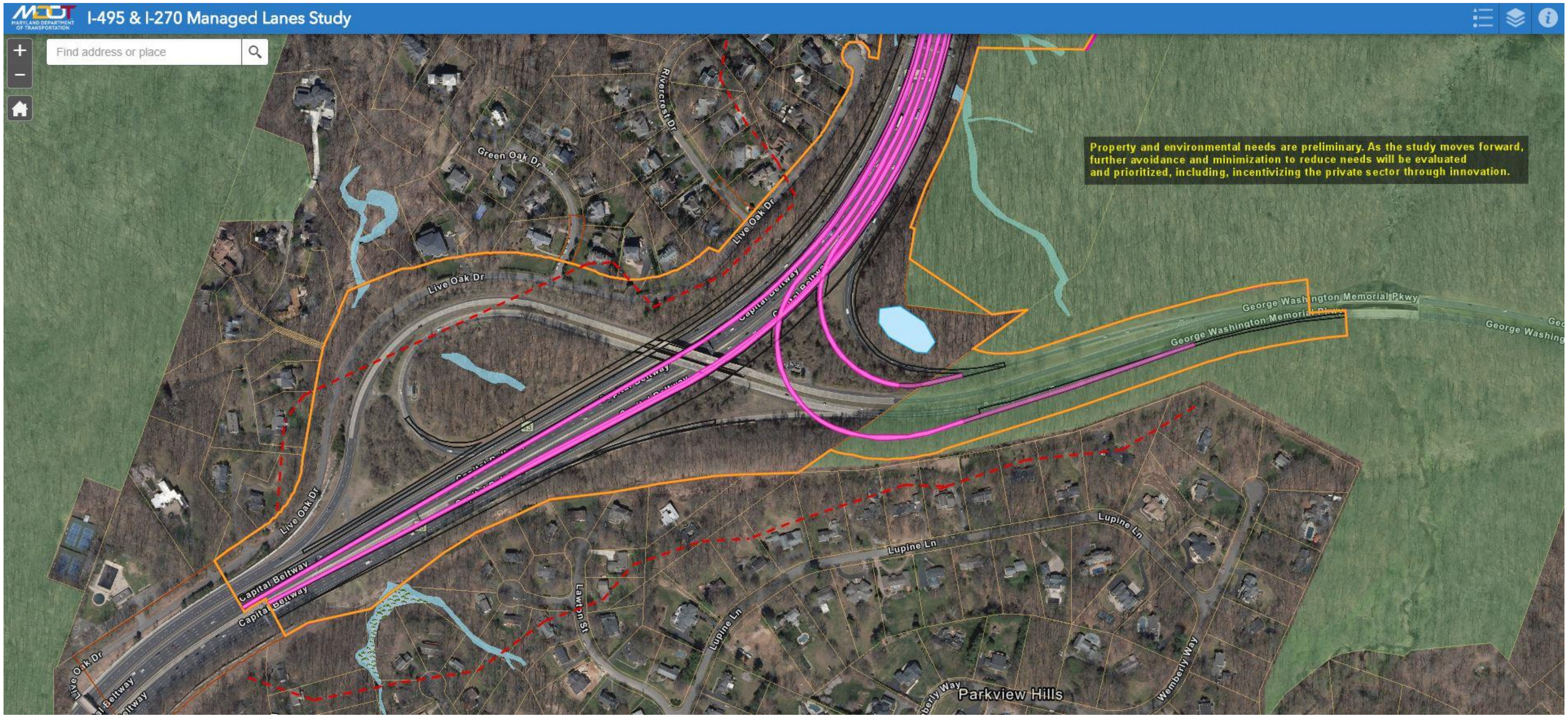
Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels L_{eq} (dB(A))		Noise Abatement Criteria** L_{eq} (dB(A))	Barrier (or Berm) Considered
				Existing Conditions (2018)	Build Alternative (2045)		
X10	C	Recreational	1	49	52	59	No
X11	C	Recreational	1	54	55	64	No
X12	C	Recreational	1	48	51	58	No
X13	C	Recreational	1	49	51	59	No
X14	B	Residential	1	56	56	66	No
X15	B	Residential	1	48	51	58	No
X16	B	Residential	1	50	53	60	No
X17	B	Residential	1	54	54	64	No
X18	B	Residential	1	56	57	66	No
X19	B	Residential	1	54	54	64	No
X20	B	Residential	1	58	60	66	No
X21	B	Residential	1	57	58	66	No
CNE Y							
Y01	B	Residential	1	51	50	61	No
Y02	B	Residential	1	54	53	64	No
Y03	B	Residential	1	47	47	57	No
Y04	B	Residential	1	45	45	55	No
Y05	B	Residential	1	53	52	63	No
Y06	B	Residential	1	54	54	64	No
Y07	B	Residential	1	50	51	60	No
Y08	B	Residential	1	56	56	66	No
CNE Z							
Z01	B	Residential	1	57	59	66	No
Z02	B	Residential	1	56	58	66	No
Z03	B	Residential	1	59	60	66	No
Z04	B	Residential	1	56	60	66	No
Z05	B	Residential	1	58	61	66	No
Z06	B	Residential	1	56	60	66	No
Z07	B	Residential	1	62	66	66	Yes
Z08	B	Residential	1	61	62	66	No
Z09	B	Residential	1	62	66	66	Yes
Z10	B	Residential	1	58	57	66	No
Z11	B	Residential	1	60	58	66	No
Z12	B	Residential	1	60	58	66	No

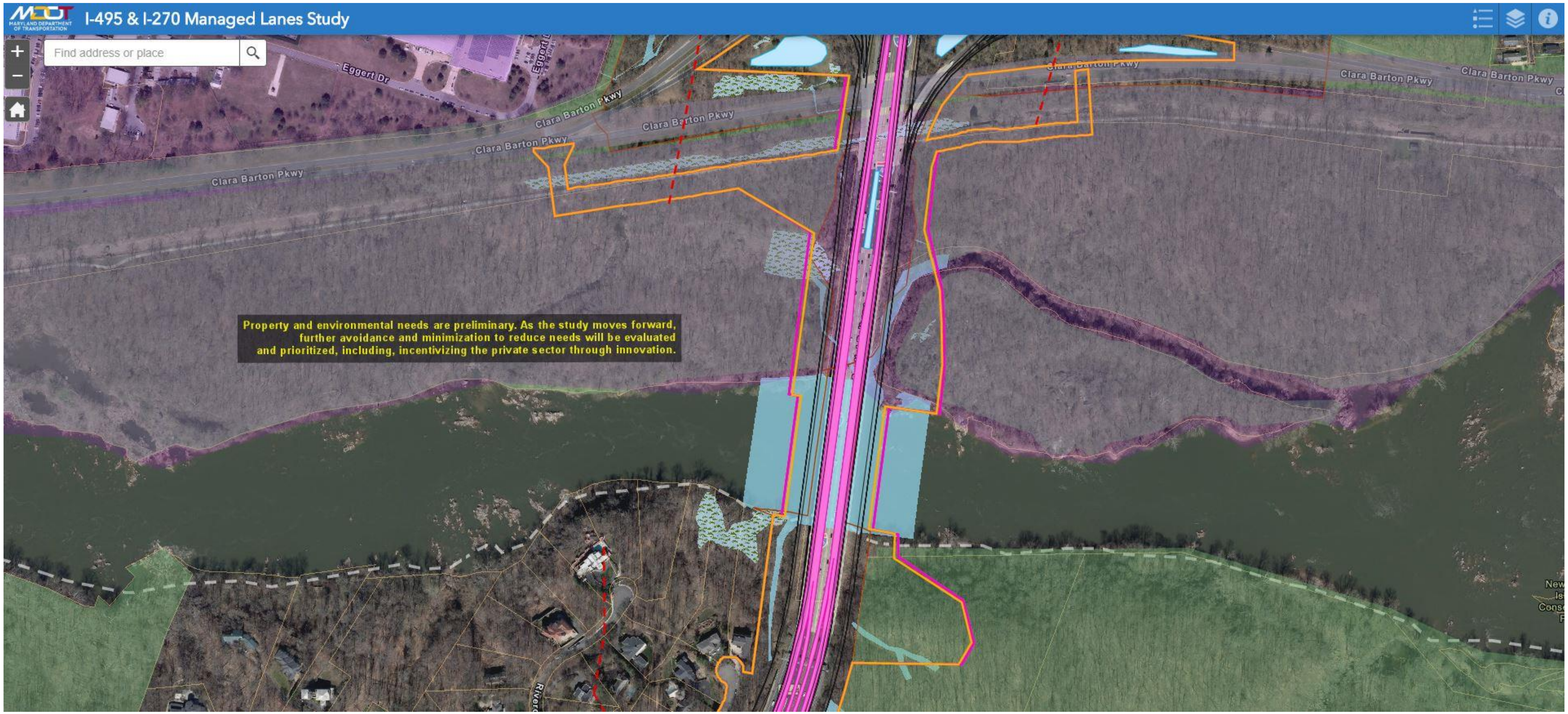
Receiver Number	NAC	Land Use	No. of Represent-ative Receptors*	Predicted Noise Levels Leq (dB(A)) Existing Conditions (2018)	Predicted Noise Levels Leq (dB(A)) Build Alternative (2045)	Noise Abatement Criteria** Leq (dB(A))	Barrier (or Berm) Considered
Z13	B	Residential	1	61	60	66	No
Z14	B	Residential	1	61	57	66	No
CNE AA							
AA1	B	Residential	1	57	62	66	No
AA2	B	Residential	1	57	61	66	No
AA3	B	Residential	1	57	62	66	No
AA4	B	Residential	1	61	65	66	No
AA5	B	Residential	1	62	66	66	Yes
AA6	B	Residential	1	64	68	66	Yes
AA7	B	Residential	1	64	69	66	Yes
CNE AB							
AB01	B	Residential	1	57	59	66	No
AB02	B	Residential	1	51	53	61	No
AB03	B	Residential	1	49	51	59	No
AB04	B	Residential	1	48	49	58	No
AB05	B	Residential	1	45	46	55	No
AB06	B	Residential	1	43	45	53	No
AB07	B	Residential	1	53	56	63	No
AB08	B	Residential	1	51	53	61	No
AB09	B	Residential	1	48	50	58	No
AB10	B	Residential	1	46	47	56	No
AB11	B	Residential	1	45	46	55	No
Number of Impacted Receivers (Representative Receptors*)							
				Existing	**Build**		
				85 (115)	**118 (148)**		
Range of Predicted Sound Levels (dB(A))							
				Existing	**Build**		
			Min ->	**42**	**43**		
			Max ->	**72**	**74**		

(yellow)	Indicates noise impact (NAC Only)
(XX)	Indicates Interior Noise Levels
*	Dwelling Units may refer to residential and/or recreational sites
**	Criteria based on NAC or substantial increase, whichever is lower

Appendix C: No-Build Alternative (2045 Design Year)


Legend
Community Facilities
Cemetery
Correctional Facility
Fire Station
Higher Education
Hospital
Library
Place of Worship
Police Station
Post Office
Recreation Center
School
Limits of Noise Disturbance
Alternative 5 Improvements and Limit of Disturbance
Limit of Disturbance
Managed Lanes
Stormwater Ponds
Edge of Lane
Alternative 8 Improvements and Limit of Disturbance
Limit of Disturbance
Managed Lanes
Stormwater Ponds
Edge of Lane
Legend
Alternative 9 Improvements and Limit of Disturbance
Limit of Disturbance
Managed Lanes
Stormwater Ponds
Edge of Lane
Alternative 10 Improvements and Limit of Disturbance
Limit of Disturbance
Managed Lanes
Edge of Lane
Stormwater Ponds
Alternative 13B Improvements and Limit of Disturbance
Limit of Disturbance
Managed Lanes
Stormwater Ponds
Edge of Lane
Alternative 13C Improvements and Limit of Disturbance
Limit of Disturbance
Managed Lanes
Stormwater Ponds
Edge of Lane


I-495 & I-270 Managed Lanes Study
Find address or place
Property and environmental needs are preliminary. As the study moves forward,
further avoidance and minimization to reduce needs will be evaluated
and prioritized, including, incentivizing the private sector through innovation.
Green Oak Dr
Live Oak Dr
Capital Beltway
George Washington Memorial Pkwy
Lupine Ln
Lawton St
Wemberly Way
Parkview Hills


I-495 & I-270 Managed Lanes Study
Find address or place
Eggert Dr
Clara Barton Pkwy
Clara Barton Pkwy
Clara Barton Pkwy
Clara Barton Pkwy
Clara Barton Pkwy
Clara Barton Pkwy
Property and environmental needs are preliminary. As the study moves forward, further avoidance and minimization to reduce needs will be evaluated and prioritized, including, incentivizing the private sector through innovation.

Appendix D: Build Alternative (2025 Interim Year)

I-495/Dulles Toll Road Area - Interim Year (2025)

I-495 Express Lanes Northern Extension Study - PIM - May 20, 2019

Virginia Department of Transportation

Project Location

McLean, VA
Fairfax County

North Arrow & Scale

SCALE
0 200' 400' 600'

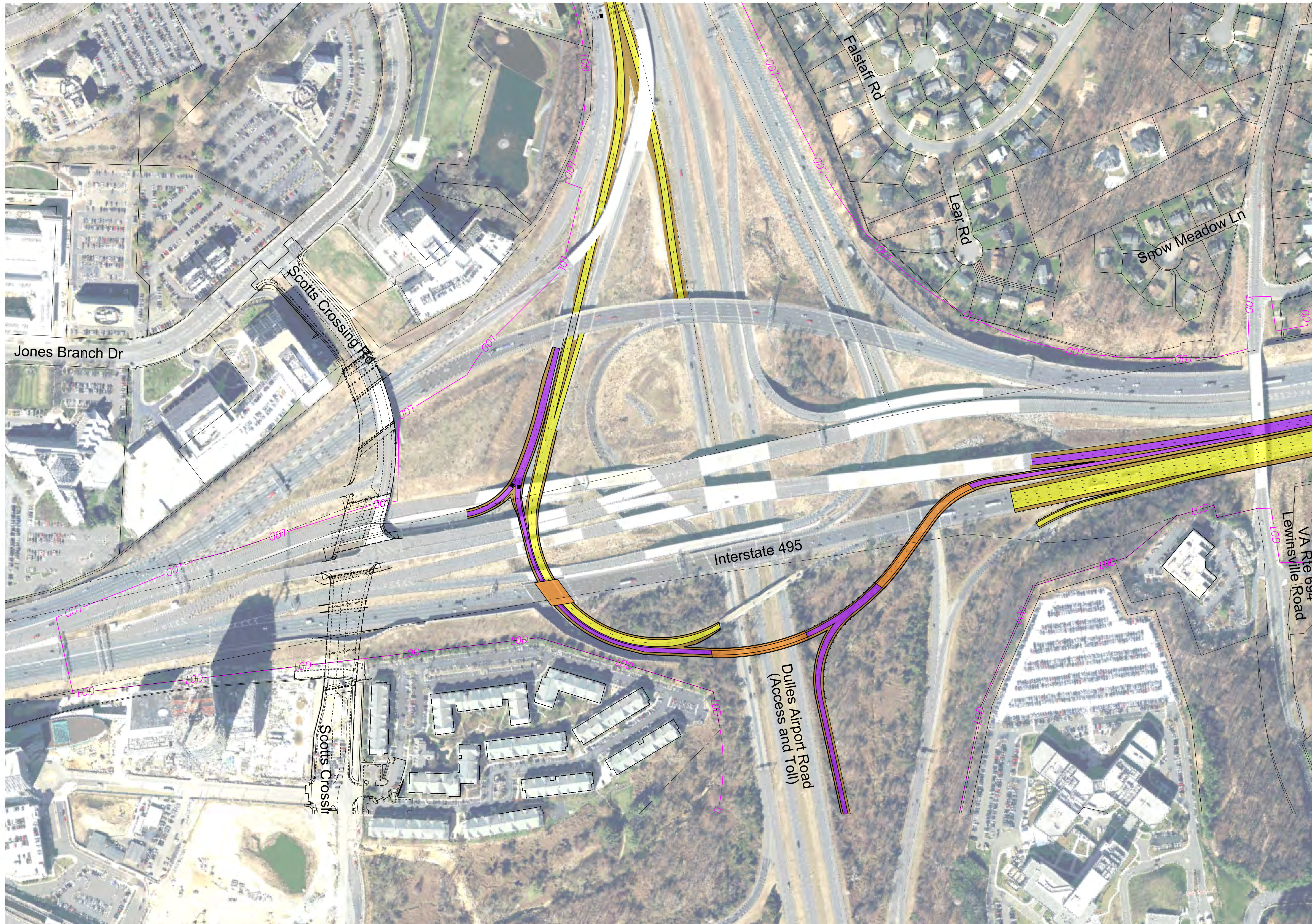
Legend

- Proposed Express Lanes and Ramps
- Proposed General Purpose Lanes Improvements
- Proposed Paved Shoulder/ Raised Median
- Proposed Bridge
- Proposed Shared Use Path
- Signal
- Existing Right of Way
- LOD — Proposed Limits of Disturbance

Contact Information

Abi Lerner
Project Manager
Virginia Department of Transportation
4975 Alliance Drive
Fairfax, Va 22030

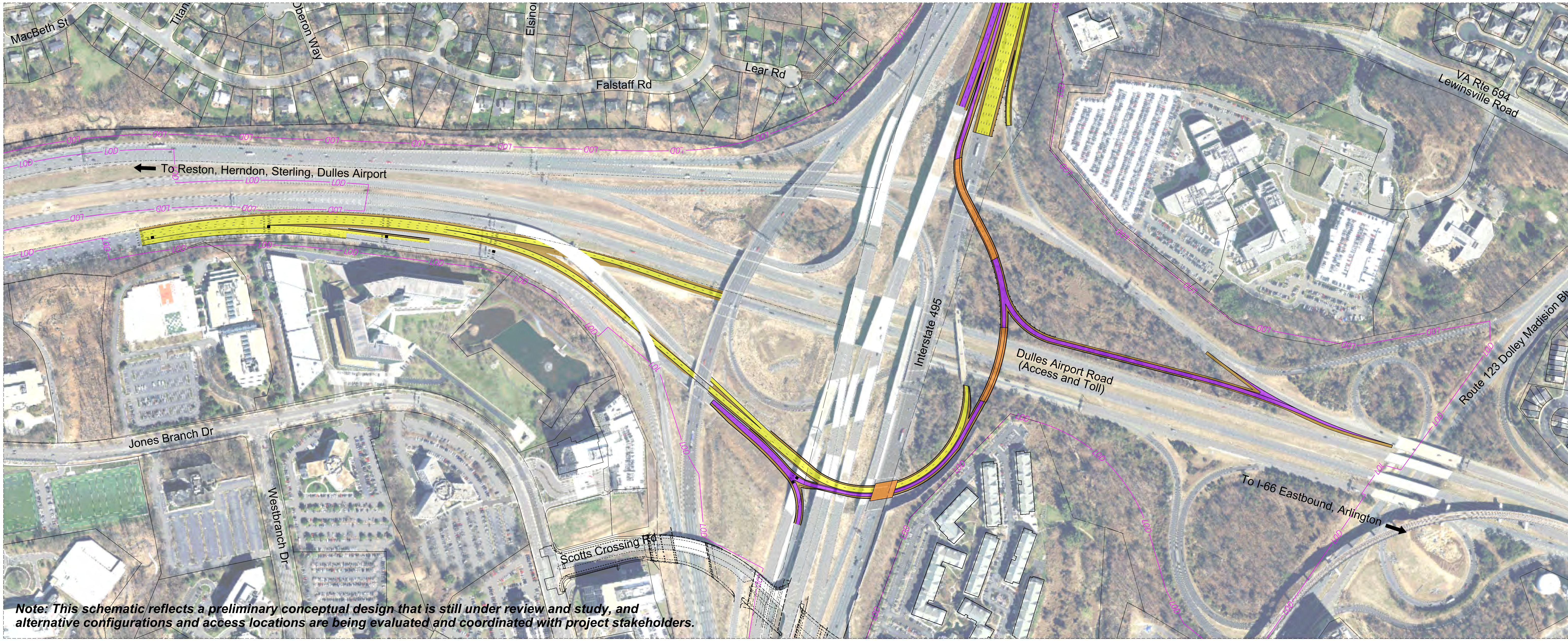
Comments may also be sent to:
495NorthernExtension@VDOT.Virginia.gov



Dulles Toll Road Area - Interim Year (2025)

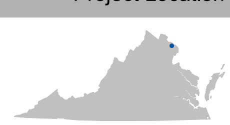
I-495 Express Lanes Northern Extension Study - PIM - May 20, 2019

Virginia Department of Transportation



Note: This schematic reflects a preliminary conceptual design that is still under review and study, and alternative configurations and access locations are being evaluated and coordinated with project stakeholders.

Project Location



North Arrow & Scale

SCALE 0 200' 400' 600'

N

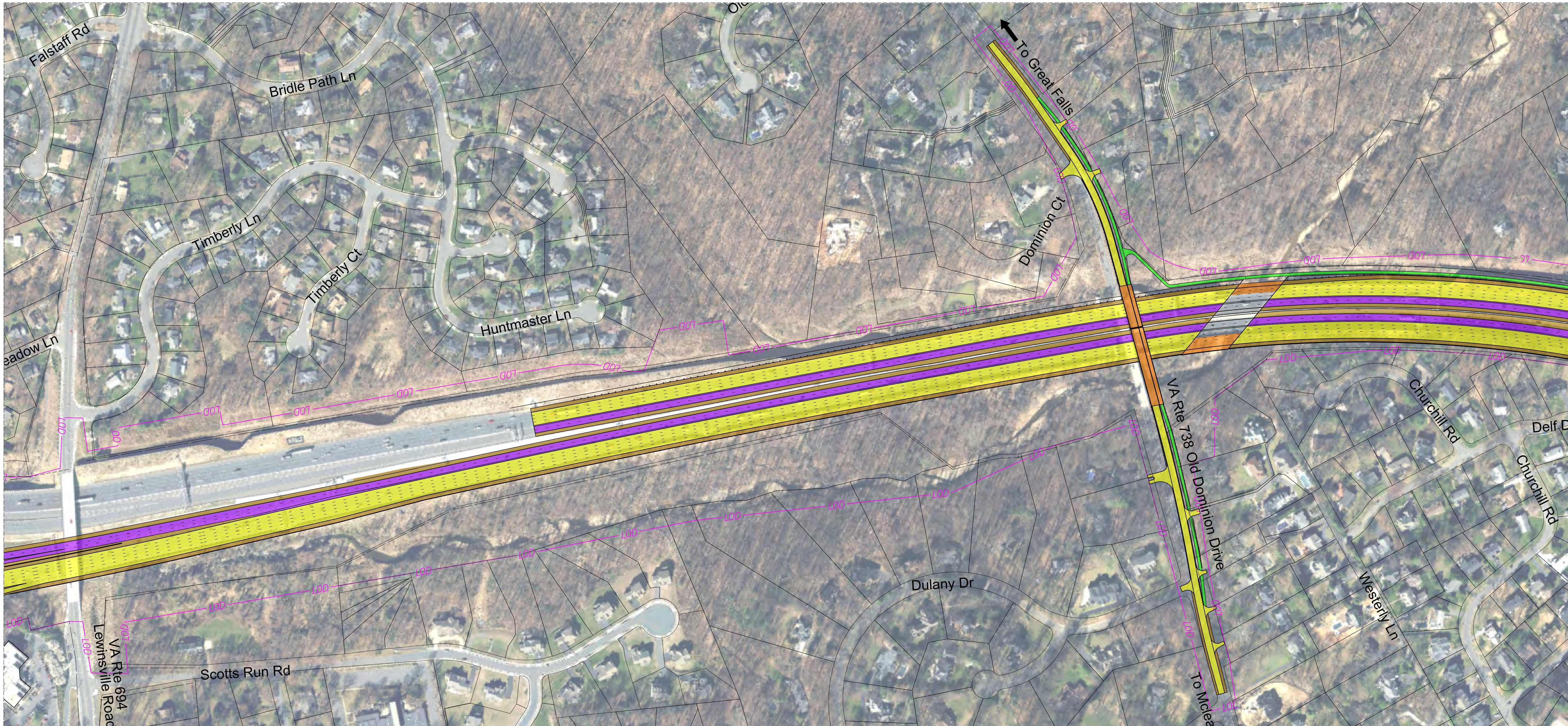
Legend

- Proposed Express Lanes and Ramps
- Proposed General Purpose Lanes Improvements
- Proposed Paved Shoulder/ Raised Median
- Proposed Bridge
- Proposed Shared Use Path
- Signal
- Existing Right of Way
- LOD Proposed Limits of Disturbance

I-495/Old Dominion Dr Area - Interim Year (2025)

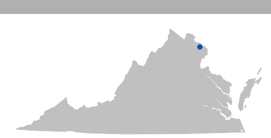
I-495 Express Lanes Northern Extension Study - PIM - May 20, 2019

Virginia Department of Transportation

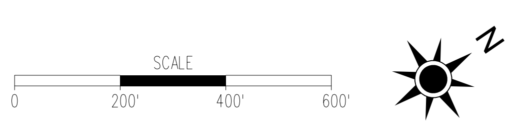


Note: This schematic reflects a preliminary conceptual design that is still under review and study, and alternative configurations and access locations are being evaluated and coordinated with project stakeholders.

Project Location



North Arrow & Scale



Legend

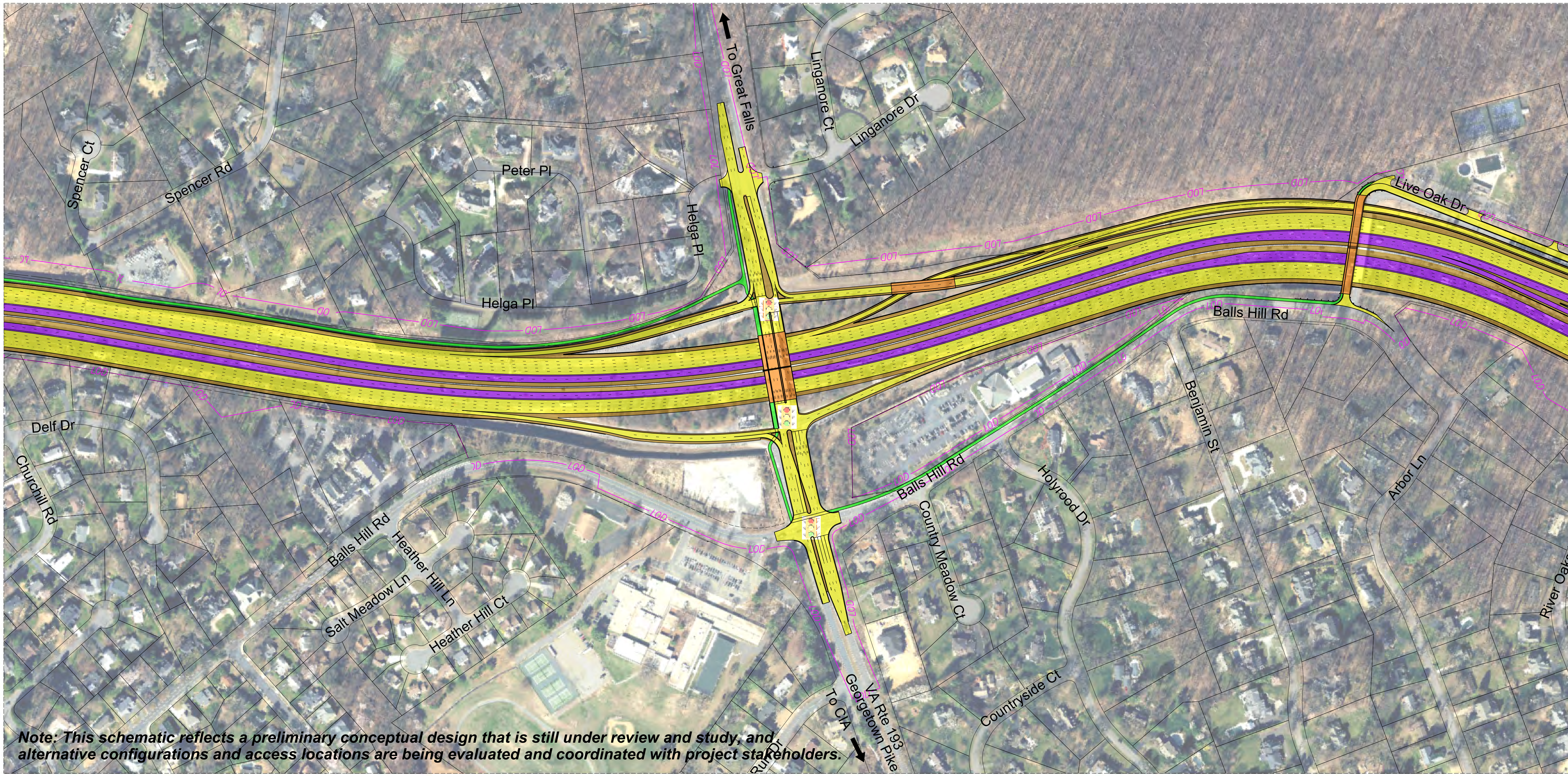
- Proposed Express Lanes and Ramps
- Proposed General Purpose Lanes Improvements
- Proposed Paved Shoulder/ Raised Median
- Proposed Bridge
- Proposed Shared Use Path
- Signal
- Existing Right of Way
- LOD — Proposed Limits of Disturbance

These plans are unfinished and unapproved and are not to be used for any type of construction or the acquisition of right of way. Additional easements for utility relocations may be required beyond the proposed right-of-way shown on these plans.

Virginia Department of Transportation

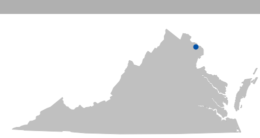
I-495/Georgetown Pike Area - Interim Year (2025)

I-495 Express Lanes Northern Extension Study - PIM - May 20, 2019

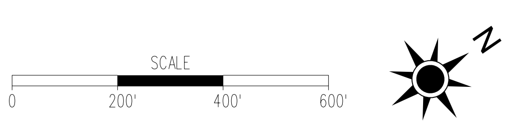


Note: This schematic reflects a preliminary conceptual design that is still under review and study, and alternative configurations and access locations are being evaluated and coordinated with project stakeholders.

Project Location



North Arrow & Scale



Legend

Proposed Express Lanes and Ramps	Proposed Paved Shoulder/ Raised Median	Proposed Shared Use Path
Proposed General Purpose Lanes Improvements	Proposed Bridge	Signal
Existing Right of Way	LOD Proposed Limits of Disturbance	

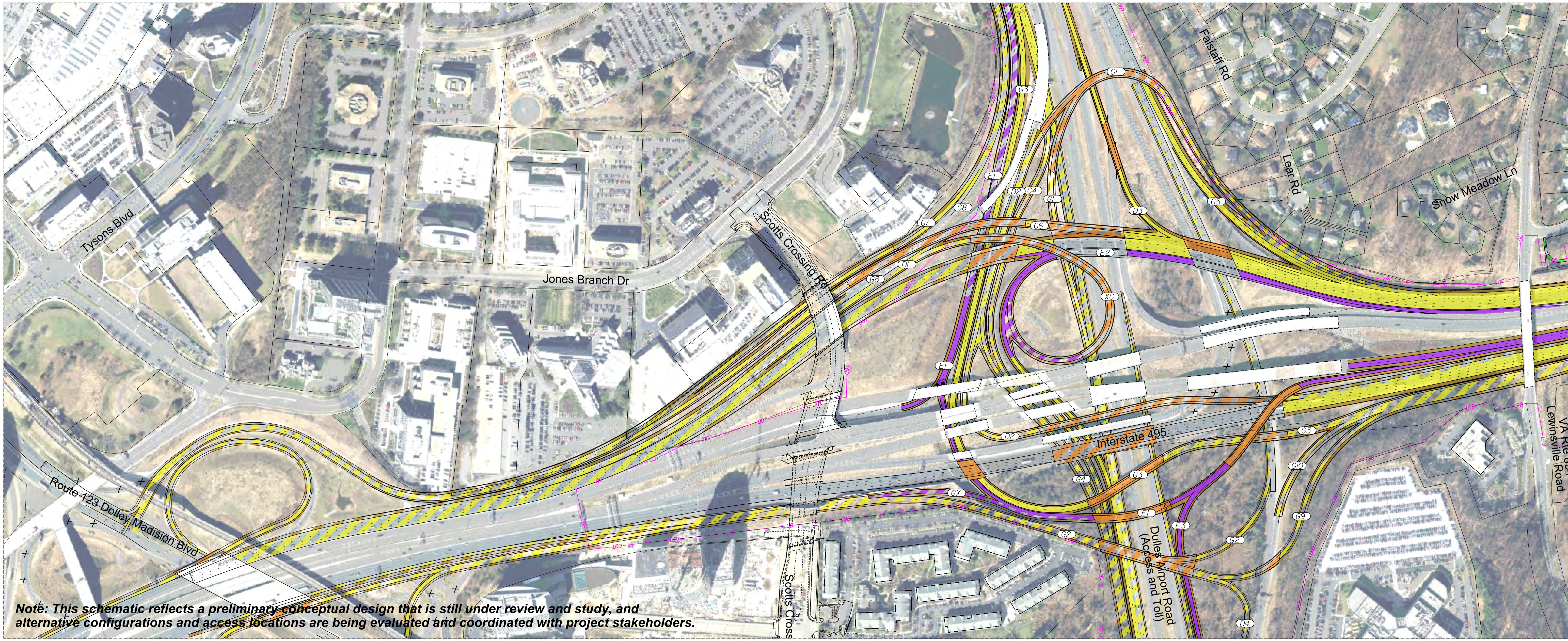
These plans are unfinished and unapproved and are not to be used for any type of construction or the acquisition of right of way. Additional easements for utility relocations may be required beyond the proposed right-of-way shown on these plans.

Appendix E: Build Alternative (2045 Design Year)

VDOT Virginia Department of Transportation

I-495/Dulles Toll Road Area - Design Year (2045)

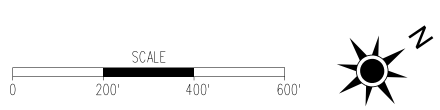
I-495 Express Lanes Northern Extension Study - Revised - July 20, 2019



Note: This schematic reflects a preliminary conceptual design that is still under review and study, and alternative configurations and access locations are being evaluated and coordinated with project stakeholders.

Project Location

North Arrow & Scale



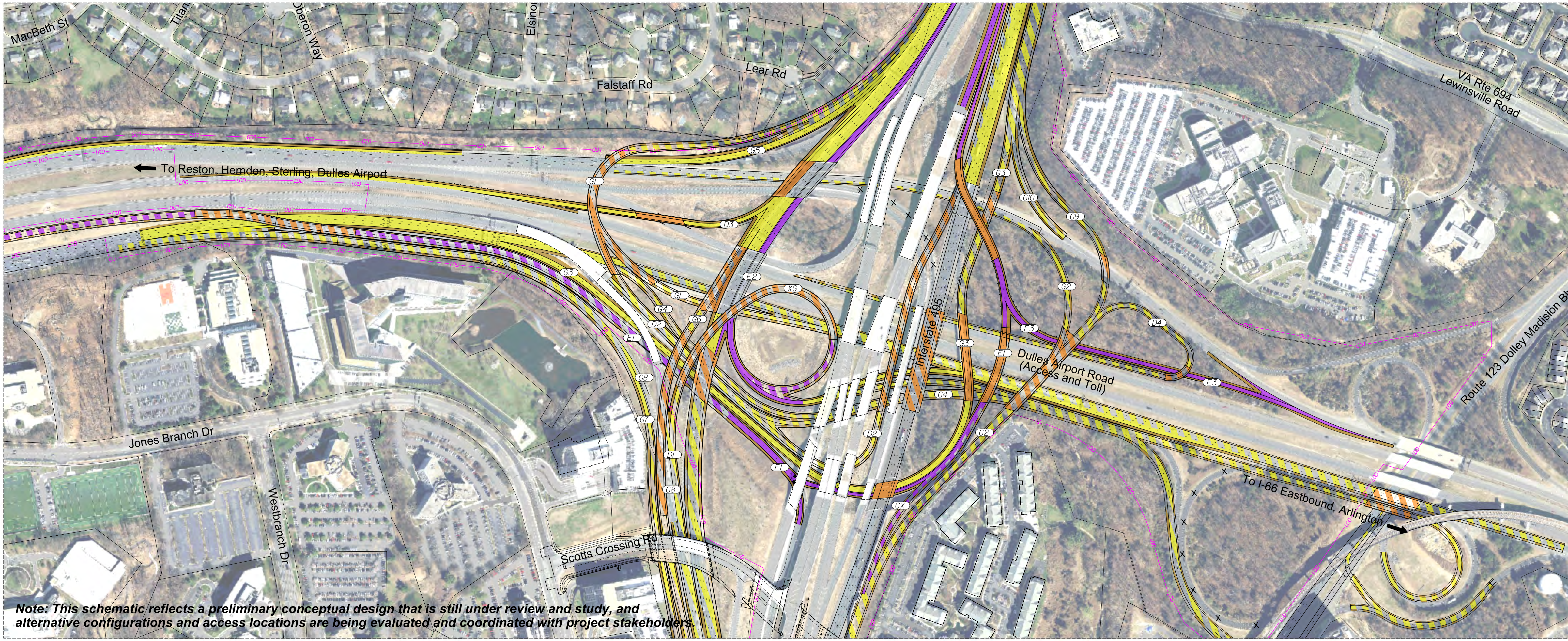
Legend

- Proposed Express Lanes and Ramps
- Potential Future Express Lanes and Ramps By Others
- Proposed Paved Shoulder/ Raised Median
- Potential Future Paved Shoulder/Raised Median By Others
- Proposed Shared Use Path
- Potential Future Shared Use Path By Others
- Existing Right of Way
- Proposed General Purpose Lanes Improvements
- Potential Future General Purpose Lanes Improvements By Others
- Proposed Bridge
- Potential Future Bridge By Others
- Signal
- LOD Proposed Limits of Disturbance

Dulles Toll Road Area - Design Year (2045)

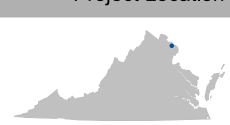
I-495 Express Lanes Northern Extension Study - Revised - July 20, 2019

VDOT Virginia Department of Transportation

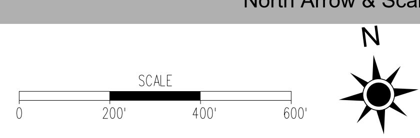


Note: This schematic reflects a preliminary conceptual design that is still under review and study, and alternative configurations and access locations are being evaluated and coordinated with project stakeholders.

Project Location



North Arrow & Scale



Legend

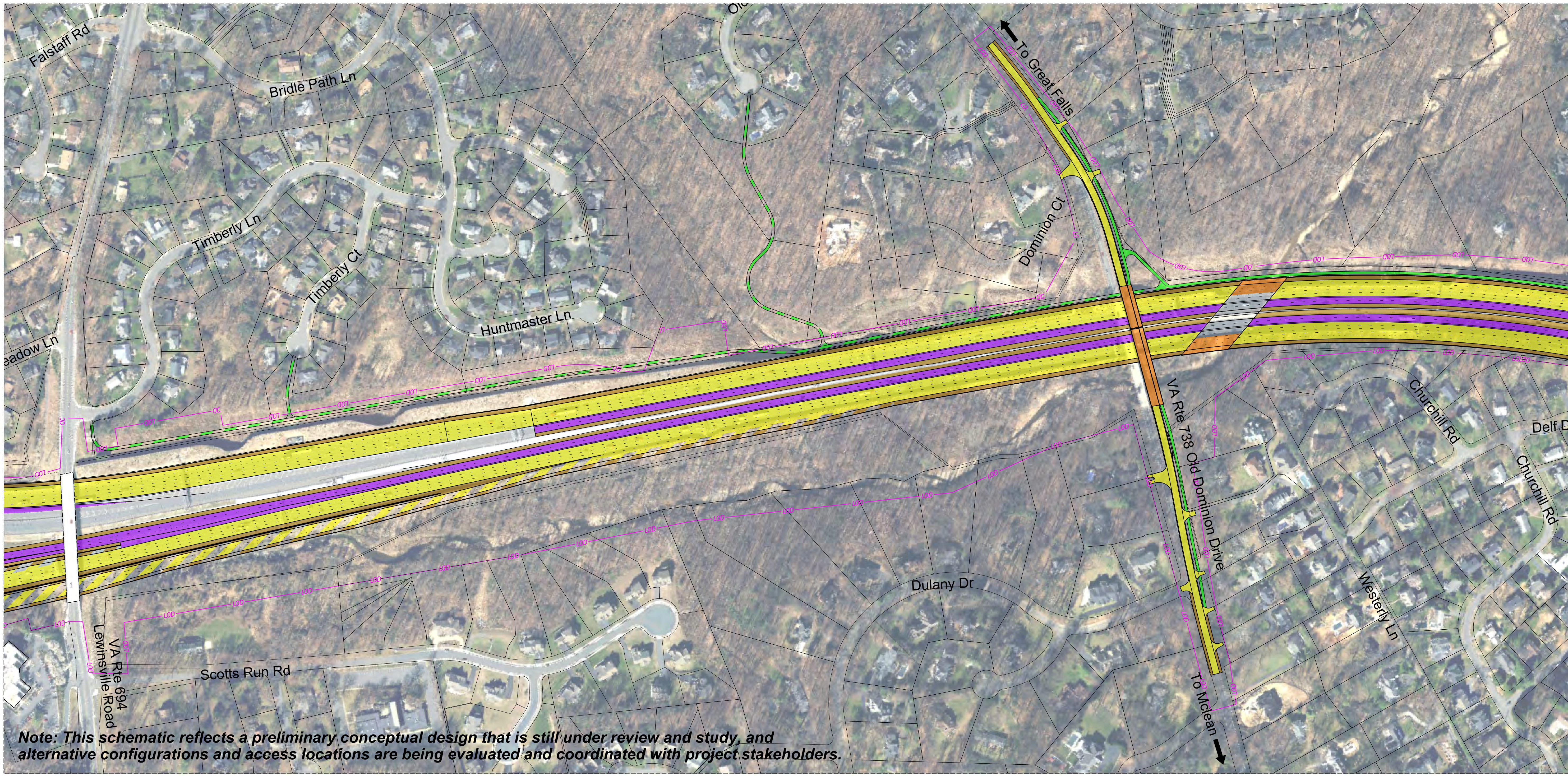
- Proposed Express Lanes and Ramps
- Potential Future Express Lanes and Ramps By Others
- Proposed Paved Shoulder/ Raised Median
- Potential Future Paved Shoulder/Raised Median By Others
- Proposed Shared Use Path
- Potential Future Shared Use Path By Others
- Existing Right of Way
- Proposed General Purpose Lanes Improvements
- Potential Future General Purpose Lanes Improvements By Others
- Proposed Bridge
- Potential Future Bridge By Others
- Signal
- LOD Proposed Limits of Disturbance

These plans are unfinished and unapproved and are not to be used for any type of construction or the acquisition of right of way. Additional easements for utility relocations may be required beyond the proposed right-of-way shown on these plans.

I-495/Old Dominion Dr Area - Design Year (2045)

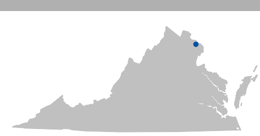
I-495 Express Lanes Northern Extension Study - Revised - July 20, 2019

Virginia Department of Transportation

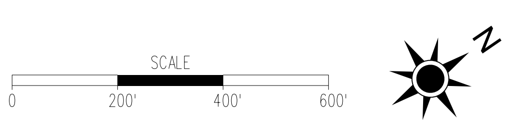


Project Location

McLean, VA
Fairfax County



North Arrow & Scale



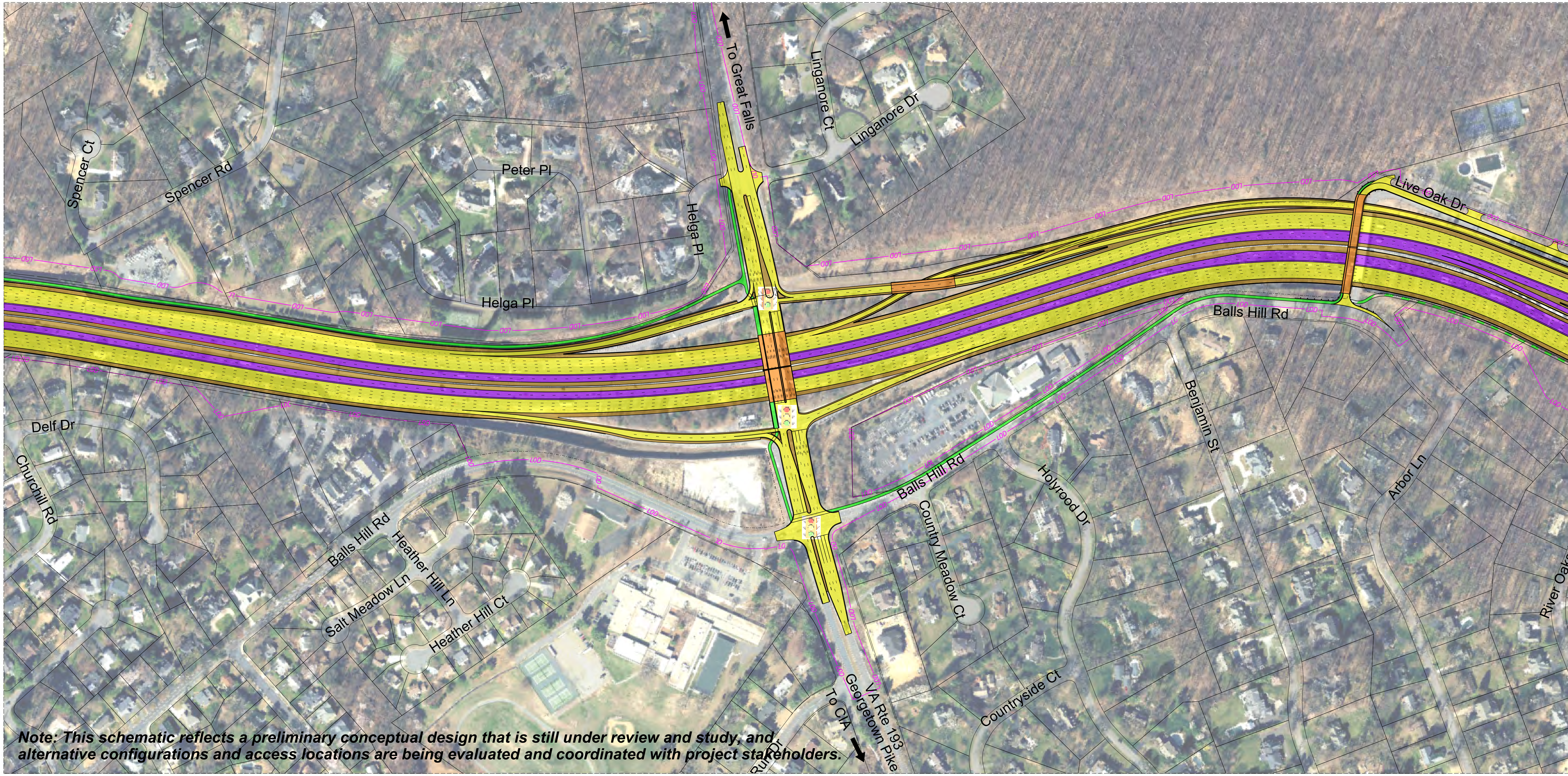
Legend

- Proposed Express Lanes and Ramps
- Potential Future Express Lanes and Ramps By Others
- Proposed Paved Shoulder/ Raised Median
- Potential Future Paved Shoulder/Raised Median By Others
- Proposed Shared Use Path
- Potential Future Shared Use Path By Others
- Existing Right of Way
- Proposed General Purpose Lanes Improvements
- Potential Future General Purpose Lanes Improvements By Others
- Proposed Bridge
- Potential Future Bridge By Others
- Signal
- LOD — Proposed Limits of Disturbance

I-495/Georgetown Pike Area - Design Year (2045)

I-495 Express Lanes Northern Extension Study - Revised - July 20, 2019

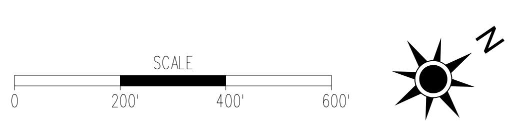
VDOT Virginia Department of Transportation



Note: This schematic reflects a preliminary conceptual design that is still under review and study, and alternative configurations and access locations are being evaluated and coordinated with project stakeholders.

Project Location

North Arrow & Scale



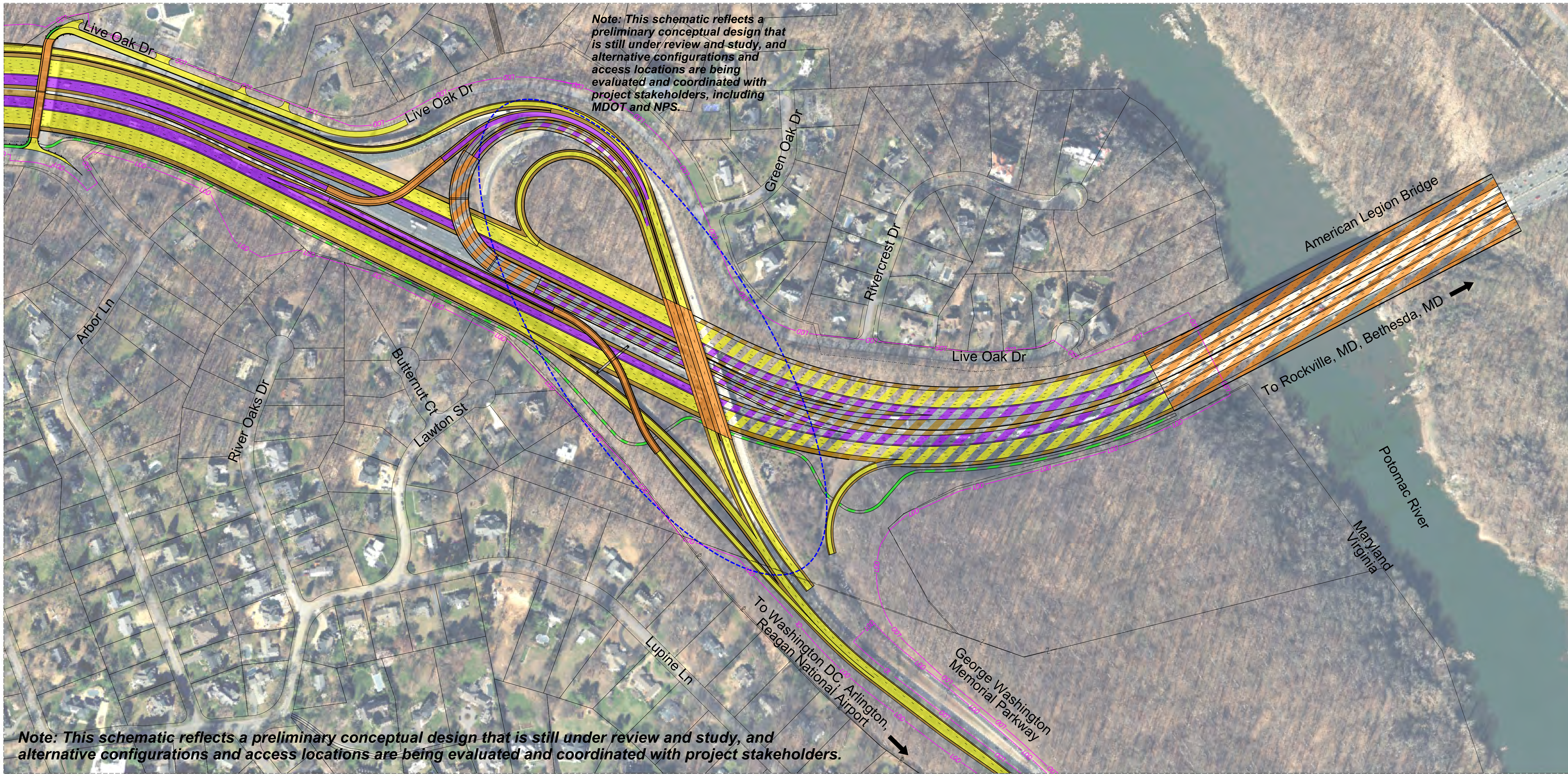
Legend

- Proposed Express Lanes and Ramps
- Potential Future Express Lanes and Ramps By Others
- Proposed Paved Shoulder/ Raised Median
- Potential Future Paved Shoulder/Raised Median By Others
- Proposed Shared Use Path
- Potential Future Shared Use Path By Others
- Existing Right of Way
- Proposed General Purpose Lanes Improvements
- Potential Future General Purpose Lanes Improvements By Others
- Proposed Bridge
- Potential Future Bridge By Others
- Signal
- LOD — Proposed Limits of Disturbance

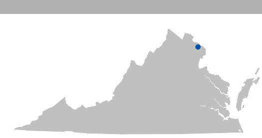
I-495/GW Parkway Area - Design Year (2045)

I-495 Express Lanes Northern Extension Study - Revised - July 20, 2019

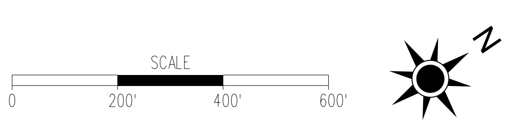
Virginia Department of Transportation



Project Location



North Arrow & Scale



Legend

- Proposed Express Lanes and Ramps
- Potential Future Express Lanes and Ramps By Others
- Proposed Paved Shoulder/ Raised Median
- Potential Future Paved Shoulder/Raised Median By Others
- Proposed Shared Use Path
- Potential Future Shared Use Path By Others
- Existing Right of Way
- Proposed General Purpose Lanes Improvements
- Potential Future General Purpose Lanes Improvements By Others
- Proposed Bridge
- Potential Future Bridge By Others
- Signal
- LOD — Proposed Limits of Disturbance

I-495 Express Lanes Northern Extension Study - Fairfax County, Virginia - State Project 0495-029-419, P101, R201, C501 - UPC 113414 - Federal Project NHPP-495-5(095)
These plans are unfinished and unapproved and are not to be used for any type of construction or the acquisition of right of way. Additional easements for utility relocations may be required beyond the proposed right-of-way shown on these plans.

Appendix F: Undeveloped Lands Correspondance

Kozlowski, Joshua

From:	Comer, Megan
Sent:	Friday, January 4, 2019 3:10 PM
To:	Glinkin, Kimberly; Kozlowski, Joshua
Subject:	RE: Search for Permitted Projects in the I-495 Study Corridor

I double checked and agree that it looks like they are completed and included in the model.

Thanks,
Megan

From: Glinkin, Kimberly
Sent: Friday, January 4, 2019 2:31 PM
To: Kozlowski, Joshua <jkozlowski@wrallp.com>; Comer, Megan <mcomer@wrallp.com>
Subject: FW: Search for Permitted Projects in the I-495 Study Corridor

I think these were just old unclosed permits. I would suggest that we are done looking for permitted projects. Agree???

From: Martin, Brett <Brett.Martin@fairfaxcounty.gov>
Sent: Friday, January 4, 2019 2:24 PM
To: Glinkin, Kimberly <kglinkin@wrallp.com>; White, Daniel E <Daniel.White@fairfaxcounty.gov>; Johnson, Clara <Clara.Johnson@fairfaxcounty.gov>
Cc: Rivera, Alex <Alex.Rivera@fairfaxcounty.gov>
Subject: RE: Search for Permitted Projects in the I-495 Study Corridor

Hi Kim,

The query that we had our IT folks run was for all open permits for new SFD and Commercial within the buffer area. Looks like the permits you were interested are still open in our system.

Honeywell: 051030741
Park Place III: 70920193

https://www.fairfaxcounty.gov/fido/permits/plan_search.aspx?pgmcat=plan&pgmtype=permit number

Thanks,

Brett

From: Glinkin, Kimberly [mailto:kglinkin@wrallp.com]
Sent: Friday, January 4, 2019 11:24 AM
To: Martin, Brett <Brett.Martin@fairfaxcounty.gov>; White, Daniel E <Daniel.White@fairfaxcounty.gov>; Johnson, Clara <Clara.Johnson@fairfaxcounty.gov>
Cc: Rivera, Alex <Alex.Rivera@fairfaxcounty.gov>
Subject: RE: Search for Permitted Projects in the I-495 Study Corridor

Brett, thank you very much for the site plan. I'm having trouble identifying the proposed developments. It appears to me that everything is built out already.

If you could point me to a page, or give me a call to discuss, I would really appreciate it.

Thank you very much,
Kim Glinkin | *Associate*

Whitman, Requardt & Associates, LLP
9030 Stony Point Parkway
Suite 220
Richmond, VA 23235
(Direct) 973.781.1037
(Mobile) 973.568.6796

kglinkin@wrallp.com
www.wrallp.com

From: Martin, Brett <Brett.Martin@fairfaxcounty.gov>
Sent: Friday, January 4, 2019 9:19 AM
To: White, Daniel E <Daniel.White@fairfaxcounty.gov>; Glinkin, Kimberly <kglinkin@wrallp.com>; Johnson, Clara <Clara.Johnson@fairfaxcounty.gov>
Cc: Rivera, Alex <Alex.Rivera@fairfaxcounty.gov>
Subject: RE: Search for Permitted Projects in the I-495 Study Corridor

Good morning,

The site plan for Park Place III and Honeywell Building are both in the same plan below for Park Place II. Please let us know if you need anything else.

https://fairfaxcounty-ent.sharefile.com/d-s9725fa6a9b246d9b

Thanks,

Brett Martin, GISP
GIS Coordinator
Fairfax County, Land Development Services
12055 Government Center Pkwy – Suite 444
Fairfax County, Virginia 22035-5500
703.324.7549
Brett.Martin@fairfaxcounty.gov

From: White, Daniel E
Sent: Friday, December 21, 2018 6:38 AM
To: Glinkin, Kimberly <kglinkin@wrallp.com>; Johnson, Clara <Clara.Johnson@fairfaxcounty.gov>
Cc: Rivera, Alex <Alex.Rivera@fairfaxcounty.gov>; Martin, Brett <Brett.Martin@fairfaxcounty.gov>
Subject: Re: Search for Permitted Projects in the I-495 Study Corridor

I don’t have access to those but I have asked someone whom could. I’ll let you know as soon as I get information.

Get Outlook for iOS

From: Glinkin, Kimberly <kglinkin@wrallp.com>
Sent: Thursday, December 20, 2018 3:33 PM

To: White, Daniel E; Johnson, Clara
Cc: Rivera, Alex; Martin, Brett
Subject: RE: Search for Permitted Projects in the I-495 Study Corridor

Thank you very much Daniel,

Would you happen to have site plans for the development identified as Park Place Phase III or the Honeywell Build (both at the Hilton).

Thank you very much,

Kim Glinkin | *Associate*

Whitman, Requardt & Associates, LLP
9030 Stony Point Parkway
Suite 220
Richmond, VA 23235
(Direct) 973.781.1037
(Mobile) 973.568.6796

kglinkin@wrallp.com
www.wrallp.com

From: White, Daniel E <Daniel.White@fairfaxcounty.gov>
Sent: Thursday, December 20, 2018 12:18 PM
To: Johnson, Clara <Clara.Johnson@fairfaxcounty.gov>; Glinkin, Kimberly <kglinkin@wrallp.com>
Cc: Rivera, Alex <Alex.Rivera@fairfaxcounty.gov>; Martin, Brett <Brett.Martin@fairfaxcounty.gov>
Subject: RE: Search for Permitted Projects in the I-495 Study Corridor

Here's a link to the map with open permits as requested!
Open Permit Map

Daniel White

From: Johnson, Clara
Sent: Thursday, December 20, 2018 8:11 AM
To: White, Daniel E <Daniel.White@fairfaxcounty.gov>
Cc: Rivera, Alex <Alex.Rivera@fairfaxcounty.gov>
Subject: Fwd: Search for Permitted Projects in the I-495 Study Corridor

Good Morning Alex and Daniel. I wanted to check in on this information request. Were you or someone from LDS able to get back in touch with this person?

Get Outlook for Android

From: Glinkin, Kimberly <kglinkin@wrallp.com>
Sent: Wednesday, December 19, 2018 4:19:48 PM
To: Johnson, Clara
Subject: RE: Search for Permitted Projects in the I-495 Study Corridor

Hi Clara,

We spoke about a couple of weeks ago about pulling a list together of permitted developments in our I-495 study corridor. Have you made any progress on that list? Do you have any additional questions for me? We're starting to run our noise models and the permitted developments are the last piece that we need to make sure we have all of the noise sensitive receptors modeled.

Thanks so much for your help.

Kim Glinkin | *Associate*

Whitman, Requardt & Associates, LLP
9030 Stony Point Parkway
Suite 220
Richmond, VA 23235
(Direct) 973.781.1037
(Mobile) 973.568.6796

kglinkin@wrallp.com
www.wrallp.com

From: Mcmahan, Kevin <Kevin.McMahan@fairfaxcounty.gov>
Sent: Monday, November 5, 2018 3:57 PM
To: Glinkin, Kimberly <kglinkin@wrallp.com>
Subject: RE: Search for Permitted Projects in the I-495 Study Corridor

o.k.

I forwarded your email to a co-worker, named Clara Johnson. She will forward it to the correct Department / Staff member.

Thanks,

Kevin

From: Glinkin, Kimberly [mailto:kglinkin@wrallp.com]
Sent: Monday, November 5, 2018 3:52 PM
To: Mcmahan, Kevin <Kevin.McMahan@fairfaxcounty.gov>
Subject: RE: Search for Permitted Projects in the I-495 Study Corridor

Thank you very much!

From: Mcmahan, Kevin <Kevin.McMahan@fairfaxcounty.gov>
Sent: Monday, November 5, 2018 3:51 PM
To: Glinkin, Kimberly <kglinkin@wrallp.com>
Subject: RE: Search for Permitted Projects in the I-495 Study Corridor

o.k. Kim.

I am checking with my co-worker, in order to determine which Department with the County would be best to answer your question.

Once I have an answer, I will let you know.

Thanks,

Kevin

From: Glinkin, Kimberly [mailto:kglinkin@wrallp.com]
Sent: Monday, November 5, 2018 3:40 PM
To: Mcmahan, Kevin <Kevin.McMahan@fairfaxcounty.gov>
Subject: Search for Permitted Projects in the I-495 Study Corridor

Kevin,

Thank you for taking my call and offering your assistance in gathering this information. As I briefly mentioned on the phone, I work for WRA, and we are performing a noise study for the Virginia Department of Transportation as part of an environmental NEPA study for a highway project. Specifically, we are working on the I-495 Express Lanes Northern Extension Study, which is conducting an environmental study about plans to extend the I-495 Express Lanes by approximately three miles from the I-495 and Dulles Toll Road interchange to the vicinity of the American Legion Bridge and Maryland line. Attached is a map showing the study limits of the noise study for the aforementioned project with the solid blue line.

FHWA requires that a search be conducted to find permitted developments that would potentially be considered for noise mitigation (barriers).

VDOT uses the following boilerplate text in their noise reports commonly:

"UNDEVELOPED LANDS AND PERMITTED DEVELOPMENTS

Highway traffic noise analyses will be performed for developed lands as well as undeveloped lands if they are considered "permitted." Undeveloped lands are deemed to be permitted when there is a definite commitment to develop land with an approved specific design of land use activities as evidenced by the issuance of at least one building permit.

In accordance with the VDOT Traffic Noise Policy, an undeveloped lot is considered to be planned, designed, and programmed if a building permit has been issued by the local authorities prior to the Date of Public Knowledge for the relevant project. VDOT considers the "Date of Public Knowledge" as the date that the final NEPA approval is made. VDOT has no obligation to provide noise mitigation for any undeveloped land that is permitted or constructed after the date of public knowledge."

Based on the above text, we need to identify all undeveloped lands (within the solid blue line). All of the undeveloped lands and permitted developments must be documented in our report, but only the ones with an active building permit would be potentially considered for noise abatement, if warranted.

Please contact me if you have any questions.

Thank you very much,

Kim Glinkin | *Associate*

Whitman, Requardt & Associates, LLP
9030 Stony Point Parkway
Suite 220
Richmond, VA 23235

Appendix G: Calibration Certificates

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

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.39479

Instrument:	**Acoustical Calibrator**	*Date Calibrated:* **10/18/2017** *Cal Due:* **10/18/2019**		
Model:	**NC-74**	*Status:*	**Received**	**Sent**
Manufacturer:	**Rion**	*In tolerance:*	**X**	**X**
Serial number:	**34825736**	*Out of tolerance:*		
Class (IEC 60942):	**1**	*See comments:*		
Barometer type:		*Contains non-accredited tests:* __**Yes** _**X**_ **No**		
Barometer s/n:				
Customer:	**Whitman, Requardt & Associates, LLP**	*Address:* **801 South Caroline Street, Baltimore, MD 21231**		
Tel/Fax:	**443-224-1591 / 410-243-5716**			

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

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

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31052	Oct 26, 2016	Scantek, Inc./ NVLAP	Oct 26, 2017
DS-360-SRS	Function Generator	33584	Oct 20, 2015	ACR Env./ A2LA	Oct 20, 2017
34401A-Agilent Technologies	Digital Voltmeter	MY41022043	Sep 9, 2017	ACR Env. / A2LA	Sep 9, 2018
HM30-Thommen	Meteo Station	1040170/39633	Nov 1, 2016	ACR Env./ A2LA	Nov 1, 2017
140-Norsonic	Real Time Analyzer	1406423	Oct 29, 2016	Scantek / NVLAP	Oct 29, 2017
PC Program 1018 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
4134-Brüel&Kjær	Microphone	173368	Nov 10, 2016	Scantek, Inc. / NVLAP	Nov 10, 2017
1203-Norsonic	Preamplifier	14059	Feb 13, 2017	Scantek, Inc./ NVLAP	Feb 13, 2018

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

Calibrated by:	Lydon Dawkins	**Authorized signatory:**	Steven E. Marshall
Signature	Lydon Dawkins	Signature	Steven E Marshall
Date	10/18/2017	Date	10/18/2017

Document stored as: Z:\Calibration Lab\Cal 2017\RIONNC74-0.5in_34825736_M1.doc

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

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.39478

Instrument:	**Sound Level Meter**	*Date Calibrated:* **10/18/2017**	*Cal Due:* **10/18/2019**
Model:	**NL42**	*Status:*	**Received** / **Sent**
Manufacturer:	**Rion**	*In tolerance:*	**X** / **X**
Serial number:	**01022322**	*Out of tolerance:*	
Tested with:	**Microphone UC52 s/n 142231** **Preamplifier NH24 s/n 22370**	*See comments:*	
		Contains non-accredited tests:	__**Yes** _X_ **No**
Type (class):	**2**	*Calibration service:*	__ **Basic** _X_ **Standard**
Customer:	**Whitman, Requardt & Associates, LLP**	*Address:*	**801 South Caroline Street, Baltimore, MD 21231**
Tel/Fax:	**443-224-1591 / 410-243-5716**		

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

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

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31052	Oct 26, 2016	Scantek, Inc./ NVLAP	Oct 26, 2017
DS-360-SRS	Function Generator	33584	Oct 20, 2015	ACR Env./ A2LA	Oct 20, 2017
34401A-Agilent Technologies	Digital Voltmeter	MY41022043	Sep 9, 2017	ACR Env. / A2LA	Sep 9, 2018
HM30-Thommen	Meteo Station	1040170/39633	Nov 1, 2016	ACR Env./ A2LA	Nov 1, 2017
PC Program 1019 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1251-Norsonic	Calibrator	30878	Nov 10, 2016	Scantek, Inc./ NVLAP	Nov 10, 2017
4226-Brüel&Kjær	Multifunction calibrator	2305103	Sep 5, 2017	B&K / A2LA	Sep 5, 2018

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	101.12	46.8

Calibrated by:	Lydon Dawkins	**Authorized signatory:**	Steven E. Marshall
Signature	Lydon Dawkins	Signature	Steven E Marshall
Date	10/18/2017	Date	10/18/2017

Document stored Z:\Calibration Lab\SLM 2017\RIONL42_01022322_M1.doc

RION CO., LTD.

3-20-41 Higashimotomachi Kokubunji Tokyo 185-8533
Phone:042(359)7888, Facsimile:042(359)7442

Certificate of Calibration

Name	:	**Sound Level Meter, Class 2**
Model	:	**NL-42** **S/No. : 00873027**
Date of Calibration	:	**August, 21, 2017**

We hereby certify that the above product was tested and calibrated according to the prescribed Rion procedures, and that it fulfills specification requirements.
The measuring equipment and reference devices used for testing and calibrating this unit are managed under the Rion traceability system and are traceable according to official Japanese standards and official standards of countries belonging to the International Committee of Weights and Measures.

RION CO., LTD.

K. Takagi

Manager, Quality Control Department

RION CO., LTD.

3-20-41 Higashimotomachi Kokubunji Tokyo 185-8533
Phone:042(359)7888, Facsimile:042(359)7442

Certificate of Calibration

Name	:	**Sound Level Meter, Class 2**
Model	:	**NL-42 S/No. : 00873028**
Date of Calibration	:	**August, 21, 2017**

We hereby certify that the above product was tested and calibrated according to the prescribed Rion procedures, and that it fulfills specification requirements.
The measuring equipment and reference devices used for testing and calibrating this unit are managed under the Rion traceability system and are traceable according to official Japanese standards and official standards of countries belonging to the International Committee of Weights and Measures.

RION CO., LTD.
K. Takagi
Manager, Quality Control Department

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

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.40461

Instrument:	**Acoustical Calibrator**	*Date Calibrated:* **4/5/2018**	*Cal Due:* **4/5/2019**		
Model:	**NC-74**	*Status:*		**Received**	**Sent**
Manufacturer:	**Rion**	*In tolerance:*		X	X
Serial number:	**35078716**	*Out of tolerance:*			
Class (IEC 60942):	**1**	*See comments:*			
Barometer type:		*Contains non-accredited tests:* __Yes _X_ No			
Barometer s/n:					
Customer:	**Scantek, Inc.**	*Address:*	**6430 Dobbin Road, Suite C, Columbia, MD 21045**		
Tel/Fax:	**410-290-7726 / 410-290-9167**				

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

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

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31052	Oct 30, 2017	Scantek, Inc./ NVLAP	Oct 30, 2018
DS-360-SRS	Function Generator	33584	Oct 24, 2017	ACR Env./ A2LA	Oct 24, 2019
34401A-Agilent Technologies	Digital Voltmeter	US36120731	Oct 25, 2017	ACR Env. / A2LA	Oct 25, 2018
HM30-Thommen	Meteo Station	1040170/39633	Oct 25, 2017	ACR Env./ A2LA	Oct 25, 2018
140-Norsonic	Real Time Analyzer	1406423	Oct 31, 2017	Scantek / NVLAP	Oct 31, 2018
PC Program 1018 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
4134-Brüel&Kjær	Microphone	173368	Nov 10, 2017	Scantek, Inc. / NVLAP	Nov 10, 2018
1203-Norsonic	Preamplifier	14059	Feb 12, 2018	Scantek, Inc./ NVLAP	Feb 12, 2019

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

Calibrated by:	Lydon Dawkins	**Authorized signatory:**	Steven E. Marshall
Signature	Lydon Dawkins	Signature	Steven E Marshall
Date	4/5/2018	Date	4/11/2018

Document stored as: Z:\Calibration Lab\Cal 2018\RIONNC74-0.5in_35078716_M1.doc

Results summary: Device was tested and complies with following clauses of mentioned specifications:

CLAUSES[1] FROM STANDARDS REFERENCED IN PROCEDURES:	MET[2]	NOT MET	COMMENTS
Manufacturer specifications			
Manufacturer specifications: Sound pressure level	X		
Manufacturer specifications: Frequency	X		
Manufacturer specifications: Total harmonic distortion	X		
Current standards			
ANSI S1.40:2006 B.3 / IEC 60942: 2003 B.2 - Preliminary inspection	X		
ANSI S1.40:2006 B.4.4 / IEC 60942: 2003 B.3.4 - Sound pressure level	X		
ANSI S1.40:2006 A.5.4 / IEC 60942: 2003 A.4.4 - Sound pressure level stability	-	-	
ANSI S1.40:2006 B.4.5 / IEC 60942: 2003 B.3.5 - Frequency	X		
ANSI S1.40:2006 B.4.6 / IEC 60942: 2003 B.3.6 - Total harmonic distortion	X		

1 The results of this calibration apply only to the instrument type with serial number identified in this report.

2 The tests marked with (*) are not covered by the current NVLAP accreditation.

Main measured parameters [3]:

Measured[4]/Acceptable[5] Tone frequency (Hz):	Measured[4]/Acceptable[5] Total Harmonic Distortion (%):	Measured [4]/Acceptable Level[5] (dB):
1001.82 ± 1.0/1000.0 ± 10.0	1.40 ± 0.10/ < 3	94.21 ± 0.12/94.0 ± 0.4

3 The stated level is valid at measurement conditions.

4 The above expanded uncertainties for frequency and distortion are calculated with a coverage factor k=2; for level k=2.00

5 Acceptable parameters values are from the current standards

Environmental conditions:

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
22.2 ± 1.1	100.57 ± 0.000	34.3 ± 2.5

Tests made with following attachments to instrument:

Calibrator ½" Adaptor Type: NC-74-002
Other:

Adjustments: Unit was not adjusted.
Comments: The instrument was tested and met all specifications found in the referenced procedures.

Note: The instrument was tested for the parameters listed in the table above, using the test methods described in the listed standards. All tests were performed around the reference conditions. The test results were compared with the manufacturer's or with the standard's specifications, whichever are larger.
Compliance with any standard cannot be claimed based solely on the periodic tests.

Measured Data: in Acoustical Calibrator Test Report # 40461 of one page.

Place of Calibration: Scantek, Inc.
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA

Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

Scantek, Inc.
CALIBRATION LABORATORY

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

CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.40024

Instrument:	**Sound Level Meter**	*Date Calibrated:* **1/26/2018**	*Cal Due:* **1/26/2019**
Model:	**NL21**	*Status:*	**Received** / **Sent**
Manufacturer:	**Rion**	*In tolerance:*	X / X
Serial number:	**00798570**	*Out of tolerance:*	
Tested with:	**Microphone UC52 s/n 155008** **Preamplifier NH21 s/n 30731**	*See comments:*	
		Contains non-accredited tests:	___Yes **X** No
Type (class):	**2**	*Calibration service:*	___ Basic **X** Standard
Customer:	**Scantek, Inc.**	*Address:*	**6430 Dobbin Road, Suite C** **Columbia, MD 21045**
Tel/Fax:	**410-290-7726 / 410-290-9167**		

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

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

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31061	Jul 28, 2017	Scantek, Inc./ NVLAP	Jul 28, 2018
DS-360-SRS	Function Generator	88077	Sep 15, 2016	ACR Env./ A2LA	Sep 15, 2018
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Sep 20, 2017	ACR Env./ A2LA	Sep 20, 2018
HM30-Thommen	Meteo Station	1040170/39633	Oct 25, 2017	ACR Env./ A2LA	Oct 25, 2018
PC Program 1019 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1251-Norsonic	Calibrator	30878	Nov 10, 2017	Scantek, Inc./ NVLAP	Nov 10, 2018
4226-Brüel&Kjær	Multifunction calibrator	2305103	Sep 5, 2017	Brüel&Kjær/ A2LA	Sep 5, 2018

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 (%)
24.3	101.99	38.8

Calibrated by:	Jeremy Gotwalt	**Authorized signatory:**	Steven E. Marshall
Signature	Jeremy Gotwalt	Signature	Steven E. Marshall
Date	1/26/18	Date	1/29/2018

Document stored Z:\Calibration Lab\SLM 2018\RIONL21_00798570_M1.doc

Results summary: Device complies with following clauses of mentioned specifications:

CLAUSES [1] FROM IEC/ANSI STANDARDS REFERENCED IN PROCEDURES:	RESULT[2,3]	EXPANDED UNCERTAINTY (coverage factor 2) [dB]
INDICATION AT THE CALIBRATION CHECK FREQUENCY - IEC61672-3 ED.2 CLAUSE 10	Passed	0.15
SELF-GENERATED NOISE - IEC 61672-3 ED.2 CLAUSE 11	Passed	0.3
ACOUSTICAL TEST OF A FREQUENCY WEIGHTING - IEC 61672-3 ED.2.0 CLAUSE 12	Passed	0.3
FREQUENCY WEIGHTINGS: A NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.2
FREQUENCY WEIGHTINGS: C NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.2
FREQUENCY WEIGHTINGS: Z NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.2
FREQUENCY AND TIME WEIGHTINGS AT 1 KHZ IEC 61672-3 ED.2.0 CLAUSE 14	Passed	0.2
LEVEL LINEARITY ON THE REFERENCE LEVEL RANGE - IEC 61672-3 ED.2 CLAUSE 16	Passed	0.25
LEVEL LINEARITY INCLUDING THE LEVEL RANGE CONTROL - IEC 61672-3 ED.2.0 CLAUSE 17	Passed	0.25
TONEBURST RESPONSE - IEC 61672-3 ED.2.0 CLAUSE 18	Passed	0.3
PEAK C SOUND LEVEL - IEC 61672-3 ED.2.0 CLAUSE 19	Passed	0.35
OVERLOAD INDICATION - IEC 61672-3 ED.2.0 CLAUSE 20	Passed	0.25
HIGH LEVEL STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 21	Passed	0.1
LONG TERM STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 15	Passed	0.1

1 The results of this calibration apply only to the instrument type with serial number identified in this report.

2 Parameters are certified at actual environmental conditions.

3 The tests marked with (*) are not covered by the current NVLAP accreditation.

Comments: The sound level meter submitted for testing has successfully completed the class 2 periodic tests of IEC 61672-3, for the environmental conditions under which the tests were performed. However, No general statement or conclusion can be made about conformance of the sound level meter to the full requirements of IEC 61672-1 because evidence was not publicly available, from an independent testing organization responsible for pattern approvals, to demonstrate that the model of sound level meter fully conforms to the requirements of IEC 61672-1:2002, and because the periodic tests of IEC 61672-3 cover only a limited subset of the specifications in IEC 61672-1.

Note: The instrument was tested for the parameters listed in the table above, using the test methods described in the listed standards. All tests were performed around the reference conditions. The test results were compared with the manufacturer's or with the standard's specifications, whichever are larger.
Compliance with any standard cannot be claimed based solely on the periodic tests.

Tests made with the following attachments to the instrument:

Microphone: Rion UC52 s/n 155008 for acoustical test
Preamplifier: Rion NH21 s/n 30731 for all tests
Other: line adaptor ADP005 (18pF) for electrical tests
Accompanying acoustical calibrator: none
Windscreen: none

Measured Data: in Test Report # 40024 of 8+1 pages.

Place of Calibration: Scantek, Inc.
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA

Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

Scantek, Inc.

CALIBRATION LABORATORY

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

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.40025

Instrument:	**Sound Level Meter**	*Date Calibrated:* **1/29/2018**	*Cal Due:* **1/29/2019**		
Model:	**NL21**	*Status:*	**Received**	**Sent**	
Manufacturer:	**Rion**	*In tolerance:*	X	X	
Serial number:	**00487670**	*Out of tolerance:*			
Tested with:	**Microphone UC52 s/n 155111**	*See comments:*			
	Preamplifier NH21 s/n 26796	*Contains non-accredited tests:* __ **Yes** _X_ **No**			
Type (class):	**2**	*Calibration service:* __ **Basic** _X_ **Standard**			
Customer:	**Scantek, Inc.**	*Address:*	**6430 Dobbin Road, Suite C**		
Tel/Fax:	**410-290-7726 / 410-290-9167**		**Columbia, MD 21045**		

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

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

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31061	Jul 28, 2017	Scantek, Inc./ NVLAP	Jul 28, 2018
DS-360-SRS	Function Generator	88077	Sep 15, 2016	ACR Env./ A2LA	Sep 15, 2018
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Sep 20, 2017	ACR Env./ A2LA	Sep 20, 2018
HM30-Thommen	Meteo Station	1040170/39633	Oct 25, 2017	ACR Env./ A2LA	Oct 25, 2018
PC Program 1019 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1251-Norsonic	Calibrator	30878	Nov 10, 2017	Scantek, Inc./ NVLAP	Nov 10, 2018
4226-Brüel&Kjær	Multifunction calibrator	2305103	Sep 5, 2017	Brüel&Kjær/ A2LA	Sep 5, 2018

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

Environmental conditions:

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
23.4	100.52	41.9

Calibrated by:	Jeremy Gotwalt	**Authorized signatory:**	Steven E. Marshall
Signature	[signature]	Signature	Steven E Marshall
Date	1/29/18	Date	1/29/2018

Document stored Z:\Calibration Lab\SLM 2018\RIONL21_00487670_M1.doc

Results summary: Device complies with following clauses of mentioned specifications:

CLAUSES [1] FROM IEC/ANSI STANDARDS REFERENCED IN PROCEDURES:	RESULT[2,3]	EXPANDED UNCERTAINTY (coverage factor 2) [dB]
INDICATION AT THE CALIBRATION CHECK FREQUENCY - IEC61672-3 ED.2 CLAUSE 10	Passed	0.15
SELF-GENERATED NOISE - IEC 61672-3 ED.2 CLAUSE 11	Passed	0.3
ACOUSTICAL TEST OF A FREQUENCY WEIGHTING - IEC 61672-3 ED.2.0 CLAUSE 12	Passed	0.3
FREQUENCY WEIGHTINGS: A NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.2
FREQUENCY WEIGHTINGS: C NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.2
FREQUENCY WEIGHTINGS: Z NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.2
FREQUENCY AND TIME WEIGHTINGS AT 1 KHZ IEC 61672-3 ED.2.0 CLAUSE 14	Passed	0.2
LEVEL LINEARITY ON THE REFERENCE LEVEL RANGE - IEC 61672-3 ED.2 CLAUSE 16	Passed	0.25
LEVEL LINEARITY INCLUDING THE LEVEL RANGE CONTROL - IEC 61672-3 ED.2.0 CLAUSE 17	Passed	0.25
TONEBURST RESPONSE - IEC 61672-3 ED.2.0 CLAUSE 18	Passed	0.3
PEAK C SOUND LEVEL - IEC 61672-3 ED.2.0 CLAUSE 19	Passed	0.35
OVERLOAD INDICATION - IEC 61672-3 ED.2.0 CLAUSE 20	Passed	0.25
HIGH LEVEL STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 21	Passed	0.1
LONG TERM STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 15	Passed	0.1

1 The results of this calibration apply only to the instrument type with serial number identified in this report.

2 Parameters are certified at actual environmental conditions.

3 The tests marked with (*) are not covered by the current NVLAP accreditation.

Comments: The sound level meter submitted for testing has successfully completed the class 2 periodic tests of IEC 61672-3, for the environmental conditions under which the tests were performed. However, No general statement or conclusion can be made about conformance of the sound level meter to the full requirements of IEC 61672-1 because evidence was not publicly available, from an independent testing organization responsible for pattern approvals, to demonstrate that the model of sound level meter fully conforms to the requirements of IEC 61672-1:2002, and because the periodic tests of IEC 61672-3 cover only a limited subset of the specifications in IEC 61672-1.

Note: The instrument was tested for the parameters listed in the table above, using the test methods described in the listed standards. All tests were performed around the reference conditions. The test results were compared with the manufacturer's or with the standard's specifications, whichever are larger.
Compliance with any standard cannot be claimed based solely on the periodic tests.

Tests made with the following attachments to the instrument:

Microphone: Rion UC52 s/n 155111 for acoustical test
Preamplifier: Rion NH21 s/n 26796 for all tests
Other: line adaptor ADP005 (18pF) for electrical tests
Accompanying acoustical calibrator: none
Windscreen: none

Measured Data: in Test Report # 40025 of 8+1 pages.

Place of Calibration: Scantek, Inc.
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA

Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

Scantek, Inc.
CALIBRATION LABORATORY

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

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.40026

Instrument: **Sound Level Meter**
Model: **NL21**
Manufacturer: **Rion**
Serial number: **00877050**
Tested with: **Microphone UC52 s/n 119594**
Preamplifier NH21 s/n 24449
Type (class): **2**
Customer: **Scantek, Inc.**
Tel/Fax: **410-290-7726 / 410-290-9167**

Date Calibrated: **1/29/2018** *Cal Due:* **1/29/2019**

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

Contains non-accredited tests: __Yes _X_ No
Calibration service: __ Basic _X_ Standard
Address: **6430 Dobbin Road, Suite C**
Columbia, MD 21045

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

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

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31061	Jul 28, 2017	Scantek, Inc./ NVLAP	Jul 28, 2018
DS-360-SRS	Function Generator	88077	Sep 15, 2016	ACR Env./ A2LA	Sep 15, 2018
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Sep 20, 2017	ACR Env./ A2LA	Sep 20, 2018
HM30-Thommen	Meteo Station	1040170/39633	Oct 25, 2017	ACR Env./ A2LA	Oct 25, 2018
PC Program 1019 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1251-Norsonic	Calibrator	30878	Nov 10, 2017	Scantek, Inc./ NVLAP	Nov 10, 2018
4226-Brüel&Kjær	Multifunction calibrator	2305103	Sep 5, 2017	Brüel&Kjær/ A2LA	Sep 5, 2018

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

Environmental conditions:

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
23.6	100.48	42.1

Calibrated by:	Jeremy Gotwalt	**Authorized signatory:**	Steven E. Marshall
Signature	[signature]	Signature	Steven E Marshall
Date	1/29/18	Date	1/29/2018

Document stored Z:\Calibration Lab\SLM 2018\RIONL21_00877050_M1.doc

Results summary: Device complies with following clauses of mentioned specifications:

CLAUSES [1] FROM IEC/ANSI STANDARDS REFERENCED IN PROCEDURES:	RESULT[2,3]	EXPANDED UNCERTAINTY (coverage factor 2) [dB]
INDICATION AT THE CALIBRATION CHECK FREQUENCY - IEC61672-3 ED.2 CLAUSE 10	Passed	0.15
SELF-GENERATED NOISE - IEC 61672-3 ED.2 CLAUSE 11	For Info	0.3
ACOUSTICAL TEST OF A FREQUENCY WEIGHTING - IEC 61672-3 ED.2.0 CLAUSE 12	Passed	0.3
FREQUENCY WEIGHTINGS: A NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.2
FREQUENCY WEIGHTINGS: C NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.2
FREQUENCY WEIGHTINGS: Z NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.2
FREQUENCY AND TIME WEIGHTINGS AT 1 KHZ IEC 61672-3 ED.2.0 CLAUSE 14	Passed	0.2
LEVEL LINEARITY ON THE REFERENCE LEVEL RANGE - IEC 61672-3 ED.2 CLAUSE 16	Passed	0.25
LEVEL LINEARITY INCLUDING THE LEVEL RANGE CONTROL - IEC 61672-3 ED.2.0 CLAUSE 17	Passed	0.25
TONEBURST RESPONSE - IEC 61672-3 ED.2.0 CLAUSE 18	Passed	0.3
PEAK C SOUND LEVEL - IEC 61672-3 ED.2.0 CLAUSE 19	Passed	0.35
OVERLOAD INDICATION - IEC 61672-3 ED.2.0 CLAUSE 20	Passed	0.25
HIGH LEVEL STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 21	Passed	0.1
LONG TERM STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 15	Passed	0.1

1 The results of this calibration apply only to the instrument type with serial number identified in this report.

2 Parameters are certified at actual environmental conditions.

3 The tests marked with (*) are not covered by the current NVLAP accreditation.

Comments: The sound level meter submitted for testing has successfully completed the class 2 periodic tests of IEC 61672-3, for the environmental conditions under which the tests were performed. However, No general statement or conclusion can be made about conformance of the sound level meter to the full requirements of IEC 61672-1 because evidence was not publicly available, from an independent testing organization responsible for pattern approvals, to demonstrate that the model of sound level meter fully conforms to the requirements of IEC 61672-1:2002, and because the periodic tests of IEC 61672-3 cover only a limited subset of the specifications in IEC 61672-1.

Note: The instrument was tested for the parameters listed in the table above, using the test methods described in the listed standards. All tests were performed around the reference conditions. The test results were compared with the manufacturer's or with the standard's specifications, whichever are larger.
Compliance with any standard cannot be claimed based solely on the periodic tests.

Tests made with the following attachments to the instrument:

Microphone:	Rion UC52 s/n 119594 for acoustical test
Preamplifier:	Rion NH21 s/n 24449 for all tests
Other: line adaptor ADP005 (18pF) for electrical tests	
Accompanying acoustical calibrator:	none
Windscreen:	none

Measured Data: in Test Report # 40026 of 8+1 pages.

Place of Calibration: Scantek, Inc.
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA
Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

Scantek, Inc.
CALIBRATION LABORATORY

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

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.40461

Instrument:	**Acoustical Calibrator**	*Date Calibrated:* **4/5/2018** *Cal Due:* **4/5/2019**		
Model:	**NC-74**	*Status:*	**Received**	**Sent**
Manufacturer:	**Rion**	*In tolerance:*	X	X
Serial number:	**35078716**	*Out of tolerance:*		
Class (IEC 60942):	**1**	*See comments:*		
Barometer type:		*Contains non-accredited tests:* __Yes _X_ No		
Barometer s/n:				
Customer:	**Scantek, Inc.**	*Address:* **6430 Dobbin Road, Suite C,**		
Tel/Fax:	**410-290-7726 / 410-290-9167**	**Columbia, MD 21045**		

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

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

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31052	Oct 30, 2017	Scantek, Inc./ NVLAP	Oct 30, 2018
DS-360-SRS	Function Generator	33584	Oct 24, 2017	ACR Env./ A2LA	Oct 24, 2019
34401A-Agilent Technologies	Digital Voltmeter	US36120731	Oct 25, 2017	ACR Env. / A2LA	Oct 25, 2018
HM30-Thommen	Meteo Station	1040170/39633	Oct 25, 2017	ACR Env./ A2LA	Oct 25, 2018
140-Norsonic	Real Time Analyzer	1406423	Oct 31, 2017	Scantek / NVLAP	Oct 31, 2018
PC Program 1018 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
4134-Brüel&Kjær	Microphone	173368	Nov 10, 2017	Scantek, Inc. / NVLAP	Nov 10, 2018
1203-Norsonic	Preamplifier	14059	Feb 12, 2018	Scantek, Inc./ NVLAP	Feb 12, 2019

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

Calibrated by:	Lydon Dawkins	**Authorized signatory:**	Steven E. Marshall
Signature	Lydon Dawkins	Signature	Steven E Marshall
Date	4/5/2018	Date	4/11/2018

Document stored as: Z:\Calibration Lab\Cal 2018\RIONNC74-0.5in_35078716_M1.doc

Results summary: Device was tested and complies with following clauses of mentioned specifications:

CLAUSES[1] FROM STANDARDS REFERENCED IN PROCEDURES:	MET[2]	NOT MET	COMMENTS
Manufacturer specifications			
Manufacturer specifications: Sound pressure level	X		
Manufacturer specifications: Frequency	X		
Manufacturer specifications: Total harmonic distortion	X		
Current standards			
ANSI S1.40:2006 B.3 / IEC 60942: 2003 B.2 - Preliminary inspection	X		
ANSI S1.40:2006 B.4.4 / IEC 60942: 2003 B.3.4 - Sound pressure level	X		
ANSI S1.40:2006 A.5.4 / IEC 60942: 2003 A.4.4 - Sound pressure level stability	-	-	
ANSI S1.40:2006 B.4.5 / IEC 60942: 2003 B.3.5 - Frequency	X		
ANSI S1.40:2006 B.4.6 / IEC 60942: 2003 B.3.6 - Total harmonic distortion	X		

1 The results of this calibration apply only to the instrument type with serial number identified in this report.

2 The tests marked with (*) are not covered by the current NVLAP accreditation.

Main measured parameters [3]:

Measured[4]/Acceptable[5] Tone frequency (Hz):	Measured[4]/Acceptable[5] Total Harmonic Distortion (%):	Measured [4]/Acceptable Level[5] (dB):
1001.82 ± 1.0/1000.0 ± 10.0	1.40 ± 0.10/ < 3	94.21 ± 0.12/94.0 ± 0.4

3 The stated level is valid at measurement conditions.

4 The above expanded uncertainties for frequency and distortion are calculated with a coverage factor k=2; for level k=2.00

5 Acceptable parameters values are from the current standards

Environmental conditions:

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
22.2 ± 1.1	100.57 ± 0.000	34.3 ± 2.5

Tests made with following attachments to instrument:

Calibrator ½" Adaptor Type: NC-74-002
Other:

Adjustments: Unit was not adjusted.
Comments: The instrument was tested and met all specifications found in the referenced procedures.

Note: The instrument was tested for the parameters listed in the table above, using the test methods described in the listed standards. All tests were performed around the reference conditions. The test results were compared with the manufacturer's or with the standard's specifications, whichever are larger.
Compliance with any standard cannot be claimed based solely on the periodic tests.

Measured Data: in Acoustical Calibrator Test Report # 40461 of one page.

Place of Calibration: Scantek, Inc.
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA

Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

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

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.40024

Instrument:	**Sound Level Meter**	*Date Calibrated:* **1/26/2018**	*Cal Due:* **1/26/2019**
Model:	**NL21**	*Status:*	**Received** / **Sent**
Manufacturer:	**Rion**	*In tolerance:*	X / X
Serial number:	**00798570**	*Out of tolerance:*	
Tested with:	**Microphone UC52 s/n 155008** **Preamplifier NH21 s/n 30731**	*See comments:*	
Type (class):	**2**	*Contains non-accredited tests:*	__Yes _X_ No
Customer:	**Scantek, Inc.**	*Calibration service:*	__ Basic _X_ Standard
Tel/Fax:	**410-290-7726 / 410-290-9167**	*Address:*	**6430 Dobbin Road, Suite C** **Columbia, MD 21045**

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

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

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31061	Jul 28, 2017	Scantek, Inc./ NVLAP	Jul 28, 2018
DS-360-SRS	Function Generator	88077	Sep 15, 2016	ACR Env./ A2LA	Sep 15, 2018
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Sep 20, 2017	ACR Env./ A2LA	Sep 20, 2018
HM30-Thommen	Meteo Station	1040170/39633	Oct 25, 2017	ACR Env./ A2LA	Oct 25, 2018
PC Program 1019 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1251-Norsonic	Calibrator	30878	Nov 10, 2017	Scantek, Inc./ NVLAP	Nov 10, 2018
4226-Brüel&Kjær	Multifunction calibrator	2305103	Sep 5, 2017	Brüel&Kjær/ A2LA	Sep 5, 2018

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 (%)
24.3	101.99	38.8

Calibrated by:	Jeremy Gotwalt	**Authorized signatory:**	Steven E. Marshall
Signature	Jeremy Gotwalt	Signature	Steven E. Marshall
Date	1/26/18	Date	1/29/2018

Document stored Z:\Calibration Lab\SLM 2018\RIONL21_00798570_M1.doc

Results summary: Device complies with following clauses of mentioned specifications:

CLAUSES [1] FROM IEC/ANSI STANDARDS REFERENCED IN PROCEDURES:	RESULT[2,3]	EXPANDED UNCERTAINTY (coverage factor 2) [dB]
INDICATION AT THE CALIBRATION CHECK FREQUENCY - IEC61672-3 ED.2 CLAUSE 10	Passed	0.15
SELF-GENERATED NOISE - IEC 61672-3 ED.2 CLAUSE 11	Passed	0.3
ACOUSTICAL TEST OF A FREQUENCY WEIGHTING - IEC 61672-3 ED.2.0 CLAUSE 12	Passed	0.3
FREQUENCY WEIGHTINGS: A NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.2
FREQUENCY WEIGHTINGS: C NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.2
FREQUENCY WEIGHTINGS: Z NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.2
FREQUENCY AND TIME WEIGHTINGS AT 1 KHZ IEC 61672-3 ED.2.0 CLAUSE 14	Passed	0.2
LEVEL LINEARITY ON THE REFERENCE LEVEL RANGE - IEC 61672-3 ED.2 CLAUSE 16	Passed	0.25
LEVEL LINEARITY INCLUDING THE LEVEL RANGE CONTROL - IEC 61672-3 ED.2.0 CLAUSE 17	Passed	0.25
TONEBURST RESPONSE - IEC 61672-3 ED.2.0 CLAUSE 18	Passed	0.3
PEAK C SOUND LEVEL - IEC 61672-3 ED.2.0 CLAUSE 19	Passed	0.35
OVERLOAD INDICATION - IEC 61672-3 ED.2.0 CLAUSE 20	Passed	0.25
HIGH LEVEL STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 21	Passed	0.1
LONG TERM STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 15	Passed	0.1

1 The results of this calibration apply only to the instrument type with serial number identified in this report.

2 Parameters are certified at actual environmental conditions.

3 The tests marked with (*) are not covered by the current NVLAP accreditation.

Comments: The sound level meter submitted for testing has successfully completed the class 2 periodic tests of IEC 61672-3, for the environmental conditions under which the tests were performed. However, No general statement or conclusion can be made about conformance of the sound level meter to the full requirements of IEC 61672-1 because evidence was not publicly available, from an independent testing organization responsible for pattern approvals, to demonstrate that the model of sound level meter fully conforms to the requirements of IEC 61672-1:2002, and because the periodic tests of IEC 61672-3 cover only a limited subset of the specifications in IEC 61672-1.

Note: The instrument was tested for the parameters listed in the table above, using the test methods described in the listed standards. All tests were performed around the reference conditions. The test results were compared with the manufacturer's or with the standard's specifications, whichever are larger.
Compliance with any standard cannot be claimed based solely on the periodic tests.

Tests made with the following attachments to the instrument:

Microphone:	Rion UC52 s/n 155008 for acoustical test
Preamplifier:	Rion NH21 s/n 30731 for all tests
Other: line adaptor ADP005 (18pF) for electrical tests	
Accompanying acoustical calibrator:	none
Windscreen:	none

Measured Data: in Test Report # 40024 of 8+1 pages.

Place of Calibration: Scantek, Inc.
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA
Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

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

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.40025

Instrument:	**Sound Level Meter**	*Date Calibrated:* **1/29/2018**	*Cal Due:* **1/29/2019**
Model:	**NL21**	*Status:*	**Received** / **Sent**
Manufacturer:	**Rion**	*In tolerance:*	X / X
Serial number:	**00487670**	*Out of tolerance:*	
Tested with:	**Microphone UC52 s/n 155111**	*See comments:*	
	Preamplifier NH21 s/n 26796	*Contains non-accredited tests:*	__Yes _X_ No
Type (class):	**2**	*Calibration service:*	__ Basic _X_ Standard
Customer:	**Scantek, Inc.**	*Address:*	**6430 Dobbin Road, Suite C**
Tel/Fax:	**410-290-7726 / 410-290-9167**		**Columbia, MD 21045**

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

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

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31061	Jul 28, 2017	Scantek, Inc./ NVLAP	Jul 28, 2018
DS-360-SRS	Function Generator	88077	Sep 15, 2016	ACR Env./ A2LA	Sep 15, 2018
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Sep 20, 2017	ACR Env./ A2LA	Sep 20, 2018
HM30-Thommen	Meteo Station	1040170/39633	Oct 25, 2017	ACR Env./ A2LA	Oct 25, 2018
PC Program 1019 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1251-Norsonic	Calibrator	30878	Nov 10, 2017	Scantek, Inc./ NVLAP	Nov 10, 2018
4226-Brüel&Kjær	Multifunction calibrator	2305103	Sep 5, 2017	Brüel&Kjær/ A2LA	Sep 5, 2018

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

Environmental conditions:

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
23.4	100.52	41.9

Calibrated by:	Jeremy Gotwalt	**Authorized signatory:**	Steven E. Marshall
Signature	[signature]	Signature	Steven E Marshall
Date	1/29/18	Date	1/29/2018

Document stored Z:\Calibration Lab\SLM 2018\RIONL21_00487670_M1.doc

Results summary: Device complies with following clauses of mentioned specifications:

CLAUSES [1] FROM IEC/ANSI STANDARDS REFERENCED IN PROCEDURES:	RESULT[2,3]	EXPANDED UNCERTAINTY (coverage factor 2) [dB]
INDICATION AT THE CALIBRATION CHECK FREQUENCY - IEC61672-3 ED.2 CLAUSE 10	Passed	0.15
SELF-GENERATED NOISE - IEC 61672-3 ED.2 CLAUSE 11	Passed	0.3
ACOUSTICAL TEST OF A FREQUENCY WEIGHTING - IEC 61672-3 ED.2.0 CLAUSE 12	Passed	0.3
FREQUENCY WEIGHTINGS: A NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.2
FREQUENCY WEIGHTINGS: C NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.2
FREQUENCY WEIGHTINGS: Z NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.2
FREQUENCY AND TIME WEIGHTINGS AT 1 KHZ IEC 61672-3 ED.2.0 CLAUSE 14	Passed	0.2
LEVEL LINEARITY ON THE REFERENCE LEVEL RANGE - IEC 61672-3 ED.2 CLAUSE 16	Passed	0.25
LEVEL LINEARITY INCLUDING THE LEVEL RANGE CONTROL - IEC 61672-3 ED.2.0 CLAUSE 17	Passed	0.25
TONEBURST RESPONSE - IEC 61672-3 ED.2.0 CLAUSE 18	Passed	0.3
PEAK C SOUND LEVEL - IEC 61672-3 ED.2.0 CLAUSE 19	Passed	0.35
OVERLOAD INDICATION - IEC 61672-3 ED.2.0 CLAUSE 20	Passed	0.25
HIGH LEVEL STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 21	Passed	0.1
LONG TERM STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 15	Passed	0.1

1 The results of this calibration apply only to the instrument type with serial number identified in this report.

2 Parameters are certified at actual environmental conditions.

3 The tests marked with (*) are not covered by the current NVLAP accreditation.

Comments: The sound level meter submitted for testing has successfully completed the class 2 periodic tests of IEC 61672-3, for the environmental conditions under which the tests were performed. However, No general statement or conclusion can be made about conformance of the sound level meter to the full requirements of IEC 61672-1 because evidence was not publicly available, from an independent testing organization responsible for pattern approvals, to demonstrate that the model of sound level meter fully conforms to the requirements of IEC 61672-1:2002, and because the periodic tests of IEC 61672-3 cover only a limited subset of the specifications in IEC 61672-1.

Note: The instrument was tested for the parameters listed in the table above, using the test methods described in the listed standards. All tests were performed around the reference conditions. The test results were compared with the manufacturer's or with the standard's specifications, whichever are larger.
Compliance with any standard cannot be claimed based solely on the periodic tests.

Tests made with the following attachments to the instrument:

Microphone: Rion UC52 s/n 155111 for acoustical test
Preamplifier: Rion NH21 s/n 26796 for all tests
Other: line adaptor ADP005 (18pF) for electrical tests
Accompanying acoustical calibrator: none
Windscreen: none

Measured Data: in Test Report # 40025 of 8+1 pages.

Place of Calibration: Scantek, Inc.
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA

Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

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

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

Calibration Certificate No.40026

Instrument:	**Sound Level Meter**	*Date Calibrated:* **1/29/2018**	*Cal Due:* **1/29/2019**		
Model:	**NL21**	*Status:*	**Received**	**Sent**	
Manufacturer:	**Rion**	*In tolerance:*	X	X	
Serial number:	**00877050**	*Out of tolerance:*			
Tested with:	**Microphone UC52 s/n 119594** **Preamplifier NH21 s/n 24449**	*See comments:*			
		Contains non-accredited tests: __Yes **X** No			
Type (class):	**2**	*Calibration service:* __ Basic **X** Standard			
Customer:	**Scantek, Inc.**	*Address:*	**6430 Dobbin Road, Suite C** **Columbia, MD 21045**		
Tel/Fax:	**410-290-7726 / 410-290-9167**				

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

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

Instrument - Manufacturer	Description	S/N	Cal. Date	Traceability evidence Cal. Lab / Accreditation	Cal. Due
483B-Norsonic	SME Cal Unit	31061	Jul 28, 2017	Scantek, Inc./ NVLAP	Jul 28, 2018
DS-360-SRS	Function Generator	88077	Sep 15, 2016	ACR Env./ A2LA	Sep 15, 2018
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Sep 20, 2017	ACR Env./ A2LA	Sep 20, 2018
HM30-Thommen	Meteo Station	1040170/39633	Oct 25, 2017	ACR Env./ A2LA	Oct 25, 2018
PC Program 1019 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Scantek, Inc.	-
1251-Norsonic	Calibrator	30878	Nov 10, 2017	Scantek, Inc./ NVLAP	Nov 10, 2018
4226-Brüel&Kjær	Multifunction calibrator	2305103	Sep 5, 2017	Brüel&Kjær/ A2LA	Sep 5, 2018

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

Environmental conditions:

Temperature (°C)	Barometric pressure (kPa)	Relative Humidity (%)
23.6	100.48	42.1

Calibrated by:	Jeremy Gotwalt	**Authorized signatory:**	Steven E. Marshall
Signature	Jeremy Gotwalt	Signature	Steven E Marshall
Date	1/29/18	Date	1/29/2018

Document stored Z:\Calibration Lab\SLM 2018\RIONL21_00877050_M1.doc

Results summary: Device complies with following clauses of mentioned specifications:

CLAUSES [1] FROM IEC/ANSI STANDARDS REFERENCED IN PROCEDURES:	RESULT[2,3]	EXPANDED UNCERTAINTY (coverage factor 2) [dB]
INDICATION AT THE CALIBRATION CHECK FREQUENCY - IEC61672-3 ED.2 CLAUSE 10	Passed	0.15
SELF-GENERATED NOISE - IEC 61672-3 ED.2 CLAUSE 11	For Info	0.3
ACOUSTICAL TEST OF A FREQUENCY WEIGHTING - IEC 61672-3 ED.2.0 CLAUSE 12	Passed	0.3
FREQUENCY WEIGHTINGS: A NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.2
FREQUENCY WEIGHTINGS: C NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.2
FREQUENCY WEIGHTINGS: Z NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13	Passed	0.2
FREQUENCY AND TIME WEIGHTINGS AT 1 KHZ IEC 61672-3 ED.2.0 CLAUSE 14	Passed	0.2
LEVEL LINEARITY ON THE REFERENCE LEVEL RANGE - IEC 61672-3 ED.2 CLAUSE 16	Passed	0.25
LEVEL LINEARITY INCLUDING THE LEVEL RANGE CONTROL - IEC 61672-3 ED.2.0 CLAUSE 17	Passed	0.25
TONEBURST RESPONSE - IEC 61672-3 ED.2.0 CLAUSE 18	Passed	0.3
PEAK C SOUND LEVEL - IEC 61672-3 ED.2.0 CLAUSE 19	Passed	0.35
OVERLOAD INDICATION - IEC 61672-3 ED.2.0 CLAUSE 20	Passed	0.25
HIGH LEVEL STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 21	Passed	0.1
LONG TERM STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 15	Passed	0.1

1 The results of this calibration apply only to the instrument type with serial number identified in this report.

2 Parameters are certified at actual environmental conditions.

3 The tests marked with (*) are not covered by the current NVLAP accreditation.

Comments: The sound level meter submitted for testing has successfully completed the class 2 periodic tests of IEC 61672-3, for the environmental conditions under which the tests were performed. However, No general statement or conclusion can be made about conformance of the sound level meter to the full requirements of IEC 61672-1 because evidence was not publicly available, from an independent testing organization responsible for pattern approvals, to demonstrate that the model of sound level meter fully conforms to the requirements of IEC 61672-1:2002, and because the periodic tests of IEC 61672-3 cover only a limited subset of the specifications in IEC 61672-1.

Note: The instrument was tested for the parameters listed in the table above, using the test methods described in the listed standards. All tests were performed around the reference conditions. The test results were compared with the manufacturer's or with the standard's specifications, whichever are larger.
Compliance with any standard cannot be claimed based solely on the periodic tests.

Tests made with the following attachments to the instrument:

Microphone:	Rion UC52 s/n 119594 for acoustical test
Preamplifier:	Rion NH21 s/n 24449 for all tests
Other: line adaptor ADP005 (18pF) for electrical tests	
Accompanying acoustical calibrator:	none
Windscreen:	none

Measured Data: in Test Report # 40026 of 8+1 pages.

Place of Calibration: Scantek, Inc.
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA

Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

Appendix H: Short-Term Monitoring Data

Measurement Site:	ST-1	Project Name:	I-495 Express Lanes Northern Extension Study	
Data Location:	611 Live Oak Dr	Project Number:	45617-001	
Technician:	J. Kozlowski	Site Description:		

					Calibration Data	
Date	Duration	Start Time	End Time	On/Off Peak	Begin dBA	End dBA
10/1/2018	20 min	10:46	11:06	Off	94	94
$L_{min(A)}$	$L_{95(A)}$	$L_{90(A)}$	$L_{50(A)}$	$L_{10(A)}$	$L_{5(A)}$	$L_{max(A)}$
70.4	73.4	73.5	74.4	75.6	75.8	79.8
$L_{eq(A)}$	$L_{pk(A)}$	$SEL_{(A)}$	Temp.(°F)	Humidity(%)	Wind Speed/Dir.	Weather Conditions
74.5	n/a	84.5	79	62	7 mph NE	sunny
Roadway	I-495		Ramp I-495 to GW Pkwy		Ramp GW Pkwy to I-495	
Direction	NB	SB	NB	SB	NB	SB
Cars	1720	2251	66	251	248	96
Medium Truck	90	77	1	9	1	0
Heavy Truck	84	95	0	0	0	0
Speed (mph)	60	50	45	35	45	35

Site Plan

Monitoring Notes

TIME	COMMENT
10:49	truck brake
10:50	truck brake (removed)
11:01	truck brake

Measurement Site:	ST-2	Project Name:	I-495 Express Lanes Northern Extension Study
Data Location:	632 Live Oak Dr	Project Number:	45617-001
Technician:	M. Comer	Site Description:	between 632 and 634 Live Oak

					Calibration Data	
Date	Duration	Start Time	End Time	On/Off Peak	Begin dBA	End dBA
10/1/2018	20 min	10:45	11:05	Off	94	94
$L_{min(A)}$	$L_{95(A)}$	$L_{90(A)}$	$L_{50(A)}$	$L_{10(A)}$	$L_{5(A)}$	$L_{max(A)}$
56.4	58.3	58.3	58.8	59.6	59.7	65.7
$L_{eq(A)}$	$L_{pk(A)}$	$SEL_{(A)}$	Temp.(°F)	Humidity(%)	Wind Speed/Dir.	Weather Conditions
58.9	n/a	68.9	79	62	7 mph NE	sunny

Roadway	I-495		Ramp I-495 to GW Pkwy		Ramp GW Pkwy to I-495	
Direction	NB	SB	NB	SB	NB	SB
Cars	1720	2251	66	251	248	96
Medium Truck	90	77	1	9	1	0
Heavy Truck	84	95	0	0	0	0
Speed (mph)	60	50	45	35	45	35

Site Plan

Monitoring Notes

TIME	COMMENT
10:49	loud truck/brake (removed)
10:54	loud truck/brake (removed)
10:55	dog barking
11:01	loud car
11:02	honking horn

Measurement Site:	ST-3	Project Name:	I-495 Express Lanes Northern Extension Study
Data Location:	6708 Lupine Lane	Project Number:	45617-001
Technician:	W. Minor	Site Description:	backyard facing GW Parkway

					Calibration Data	
Date	Duration	Start Time	End Time	On/Off Peak	Begin dBA	End dBA
10/1/2018	20 min	10:45	11:05	Off	94	94
Lmin(A)	L95(A)	L90(A)	L50(A)	L10(A)	L5(A)	Lmax(A)
54.8	54.9	55.0	55.8	57.0	57.2	57.4
Leq(A)	Lpk(A)	SEL(A)	Temp.(°F)	Humidity(%)	Wind Speed/Dir.	Weather Conditions
55.9	N/A	65.9	79	62	7 mph NE	sunny
Roadway	I-495		Ramp I-495 to GW Pkwy		Ramp GW Pkwy to I-495	
Direction	NB	SB	NB	SB	NB	SB
Cars	1720	2251	66	251	248	96
Medium Truck	90	77	1	9	1	0
Heavy Truck	84	95	0	0	0	0
Speed (mph)	60	50	45	35	45	35

Site Plan

Monitoring Notes

TIME	COMMENT
10:45	plane (removed)
10:47	plane (removed)
10:49	plane (removed)
10:51	plane (removed)
10:55	plane
10:58	plane
11:00	Siren/brakes
11:02	plane
11:04	plane

Measurement Site:	ST-4	Project Name:	I-495 Express Lanes Northern Extension Study
Data Location:	720 Lawton St.	Project Number:	45617-001
Technician:	W. Minor	Site Description:	back yard facing I-495

					Calibration Data	
Date	Duration	Start Time	End Time	On/Off Peak	Begin dBA	End dBA
10/1/2018	20 min	11:30	11:50	Off	94	94
Lmin(A)	L95(A)	L90(A)	L50(A)	L10(A)	L5(A)	Lmax(A)
62.2	65.5	65.6	66.2	67.0	67.1	73.2
Leq(A)	Lpk(A)	SEL(A)	Temp.(°F)	Humidity(%)	Wind Speed/Dir.	Weather Conditions
66.3	n/a	76.3	84	53	7 mph NE	sunny
Roadway	I-495		I-495 Local	Ramp I-495 to GW Pkwy		Ramp GW Pkwy to I-495
Direction	NB	SB	SB	NB	SB	SB
Cars	1740	1631	247	74	256	92
Medium Truck	90	75	10	1	2	0
Heavy Truck	98	86	1	0	0	0
Speed (mph)	60	60	55	45	35	35

Site Plan

Monitoring Notes

TIME	COMMENT
11:34	truck brakes (removed)
11:42	2 planes
11:46	truck brakes
11:48	plane

Measurement Site:	ST-5	Project Name:	I-495 Express Lanes Northern Extension Study
Data Location:	712 Live Oak Dr	Project Number:	45617-001
Technician:	J. Kozlowski	Site Description:	

					Calibration Data	
Date	Duration	Start Time	End Time	On/Off Peak	Begin dBA	End dBA
10/1/2018	20 min	11:30	11:50	Off	94	94
Lmin(A)	L95(A)	L90(A)	L50(A)	L10(A)	L5(A)	Lmax(A)
60.6	62.4	62.5	63.0	63.5	63.6	65.9
Leq(A)	Lpk(A)	SEL(A)	Temp.(°F)	Humidity(%)	Wind Speed/Dir.	Weather Conditions
63.0	n/a	73.0	84	53	7 mph NE	sunny
Roadway	I-495		I-495 Local	Ramp I-495 to GW Pkwy		Ramp GW Pkwy to I-495
Direction	NB	SB	SB	NB	SB	SB
Cars	1740	1631	247	74	256	92
Medium Truck	90	75	10	1	2	0
Heavy Truck	98	86	1	0	0	0
Speed (mph)	60	60	55	45	35	35

Site Plan

Monitoring Notes

TIME	COMMENT
11:30	truck brake (removed)
11:39	truck brake (removed)
11:40	plane (removed)
11:43	plane
11:44	truck brake
11:45	truck brake (removed)
11:49	truck brake
11:50	truck brake

Measurement Site:	ST-6	Project Name:	I-495 Express Lanes Northern Extension Study
Data Location:	7036 Arbor Ln	Project Number:	45617-001
Technician:	M. Comer	Site Description:	between 7036 and 7032 Arbor Ln

					Calibration Data	
Date	Duration	Start Time	End Time	On/Off Peak	Begin dBA	End dBA
10/1/2018	20 min	11:30	11:50	Off	94	94
Lmin(A)	L95(A)	L90(A)	L50(A)	L10(A)	L5(A)	Lmax(A)
55.2	57.1	57.2	57.6	58.0	58.1	63.7
Leq(A)	Lpk(A)	SEL(A)	Temp.(°F)	Humidity(%)	Wind Speed/Dir.	Weather Conditions
57.6	n/a	67.6	84	53	7 mph NE	sunny

Roadway	I-495		I-495 Local	Ramp I-495 to GW Pkwy		Ramp GW Pkwy to I-495
Direction	NB	SB	SB	NB	SB	SB
Cars	1740	1631	247	74	256	92
Medium Truck	90	75	10	1	2	0
Heavy Truck	98	86	1	0	0	0
Speed (mph)	60	60	55	45	35	35

Site Plan

Monitoring Notes

TIME	COMMENT
11:40	plane (removed)
11:48	car door shut and car drive away

Measurement Site:	ST-7	Project Name:	I-495 Express Lanes Northern Extension Study	
Data Location:	7109 Benjamin St	Project Number:	45617-001	
Technician:	W. Minor	Site Description:	front yard overlooking I-495	

					Calibration Data	
Date	Duration	Start Time	End Time	On/Off Peak	Begin dBA	End dBA
10/1/2018	20 min	12:15	12:35	Off	94	94
$L_{min(A)}$	$L_{95(A)}$	$L_{90(A)}$	$L_{50(A)}$	$L_{10(A)}$	$L_{5(A)}$	$L_{max(A)}$
60.5	62.3	62.4	63	63.7	63.9	67.0
$L_{eq(A)}$	$L_{pk(A)}$	$SEL_{(A)}$	Temp.(°F)	Humidity(%)	Wind Speed/Dir.	Weather Conditions
63.0	n/a	73.0	83	57	1 mph NE	sunny

Site Plan

Roadway	I-495		Ramp to I-495		Balls Hill Rd		VA-193	
Direction	NB	SB	NB	SB	NB	SB	EB	WB
Cars	1320	1613	190	186	16	19	144	61
Medium Truck	51	41	4	6	0	0	5	1
Heavy Truck	116	103	2	2	0	0	1	0
Speed (mph)	55	55	25	25	25	25	35	35

Monitoring Notes

TIME	COMMENT
12:15	local truck (removed)
12:16	mail truck (removed)
12:20	truck adjacent to site (removed)
12:21	van adjacent to site (removed)
12:31	car adjacent to site (removed)
12:32	car and truck adjacent to site (rem)
12:34	acceleration (removed)

Measurement Site:	ST-8	Project Name:	I-495 Express Lanes Northern Extension Study
Data Location:	895 Linganonre Dr	Project Number:	45617-001
Technician:	M. Comer	Site Description:	corner of pool, right of house, by soccer net

					Calibration Data	
Date	Duration	Start Time	End Time	On/Off Peak	Begin dBA	End dBA
10/1/2018	20 min	12:15	12:35	Off	94	94
Lmin(A)	L95(A)	L90(A)	L50(A)	L10(A)	L5(A)	Lmax(A)
58.1	60	60.1	60.7	61.3	61.4	67.7
Leq(A)	Lpk(A)	SEL(A)	Temp.(°F)	Humidity(%)	Wind Speed/Dir.	Weather Conditions
60.7	n/a	70.7	83	57	1 mph NE	sunny

Roadway	I-495		Ramp to I-495		Balls Hill Rd		VA-193	
Direction	NB	SB	NB	SB	NB	SB	EB	WB
Cars	1320	1613	190	186	16	19	144	61
Medium Truck	51	41	4	6	0	0	5	1
Heavy Truck	116	103	2	2	0	0	1	0
Speed (mph)	55	55	25	25	25	25	35	35

Site Plan

Monitoring Notes

TIME	COMMENT
12:16	plane (removed)
12:25	loud bird
12:30	truck brakes
12:31	loud car (removed)
12:32	loud bird
12:33	loud truck (rmoved)

Measurement Site:	ST-9	Project Name:	I-495 Express Lanes Northern Extension Study
Data Location:	850 Balls Hill Rd	Project Number:	45617-001
Technician:	J. Kozlowski	Site Description:	striped basketball court on parking lot

					Calibration Data	
Date	Duration	Start Time	End Time	On/Off Peak	Begin dBA	End dBA
10/1/2018	20 min	12:15	12:35	Off	94	94
$L_{min(A)}$	$L_{95(A)}$	$L_{90(A)}$	$L_{50(A)}$	$L_{10(A)}$	$L_{5(A)}$	$L_{max(A)}$
55.3	58.5	58.5	59.1	59.7	59.8	63.8
$L_{eq(A)}$	$L_{pk(A)}$	$SEL_{(A)}$	Temp.(°F)	Humidity(%)	Wind Speed/Dir.	Weather Conditions
59.1	n/a	69.1	83	57	1 mph NE	sunny

Site Plan

Roadway	I-495		Balls Hill Rd		Balls Hill Rd		VA-193	
Direction	NB	SB	NB	SB	NB	SB	EB	WB
Cars	1320	1613	16	19	16	19	144	61
Medium Truck	51	41	0	0	0	0	5	1
Heavy Truck	116	103	0	0	0	0	1	0
Speed (mph)	55	55	30	30	25	25	35	35

Monitoring Notes

TIME	COMMENT
12:15	plane (removed)
12:19	loud truck (removed)
12:31	plane (removed)

Measurement Site:	ST-10	Project Name:	I-495 Express Lanes Northern Extension Study
Data Location:	Across from 910 Helga	Project Number:	45617-001
Technician:	W. Minor	Site Description:	middle of tennis court facing I-495

					Calibration Data	
Date	Duration	Start Time	End Time	On/Off Peak	Begin dBA	End dBA
10/1/2018	20 min	1:05	1:25	Off	94	94
$L_{min(A)}$	$L_{95(A)}$	$L_{90(A)}$	$L_{50(A)}$	$L_{10(A)}$	$L_{5(A)}$	$L_{max(A)}$
54.5	56.6	56.7	57.3	58.0	58.1	62.5
$L_{eq(A)}$	$L_{pk(A)}$	$SEL_{(A)}$	Temp.(°F)	Humidity(%)	Wind Speed/Dir.	Weather Conditions
57.3	n/a	67.3	83	56	2 mph NW	sunny
Roadway	I-495		Ramp to/from 495			
Direction	NB	SB	NB	SB		
Cars	1625	1624	80	95		
Medium Truck	59	4	6	2		
Heavy Truck	99	111	0	0		
Speed (mph)	55	55	40	35		

Site Plan

Monitoring Notes

TIME	COMMENT
1:08	van behind meter (removed)
1:13	loud truck (removed)

Measurement Site:	ST-11	Project Name:	I-495 Express Lanes Northern Extension Study	
Data Location:	1020 Balls Hill Rd	Project Number:	45617-001	
Technician:	J. Kozlowski	Site Description:	playground at church	

					Calibration Data	
Date	Duration	Start Time	End Time	On/Off Peak	Begin dBA	End dBA
10/1/2018	20 min	1:05	1:25	Off	94	94
L_{min}(A)	L_{95}(A)	L_{90}(A)	L_{50}(A)	L_{10}(A)	L_{5}(A)	L_{max}(A)
59.8	61.7	61.7	62.2	62.7	62.8	66.5
L_{eq}(A)	L_{pk}(A)	SEL(A)	Temp.(°F)	Humidity(%)	Wind Speed/Dir.	Weather Conditions
62.2	n/a	72.2	83	56	2 mph NW	sunny
Roadway	I-495		Ramp to/from 495			
Direction	NB	SB	NB	SB		
Cars	1625	1624	80	95		
Medium Truck	59	4	6	2		
Heavy Truck	99	111	0	0		
Speed (mph)	55	55	40	35		

Site Plan

Monitoring Notes

TIME	COMMENT
1:18	car drove past (removed)

Measurement Site:	ST-12	Project Name:	I-495 Express Lanes Northern Extension Study
Data Location:	1032 Delf Drive	Project Number:	45617-001
Technician:	W. Minor	Site Description:	backyard

					Calibration Data	
Date	Duration	Start Time	End Time	On/Off Peak	Begin dBA	End dBA
10/2/2018	20 min	10:35	10:55	Off	94	94
$L_{min(A)}$	$L_{95(A)}$	$L_{90(A)}$	$L_{50(A)}$	$L_{10(A)}$	$L_{5(A)}$	$L_{max(A)}$
62.0	64.8	64.9	65.5	66.2	66.2	68.9
$L_{eq(A)}$	$L_{pk(A)}$	$SEL_{(A)}$	Temp.(°F)	Humidity(%)	Wind Speed/Dir.	Weather Conditions
65.5	n/a	75.5	77	69	1 mph NE	sunny
Roadway	I-495		VA-738			
Direction	NB	SB	EB	WB		
Cars	1587	1856	83	60		
Medium Truck	58	77	2	1		
Heavy Truck	130	130	1	1		
Speed (mph)	55	55	40	40		

Site Plan

Monitoring Notes

TIME	COMMENT
10:42	plane (removed)
10:45	helicopter (removed)
10:47	loud truck (removed)
10:52	helicopter (removed)

Measurement Site:	ST-13	Project Name:	I-495 Express Lanes Northern Extension Study	WRA
Data Location:	7409 Spencer Ct	Project Number:	45617-001	
Technician:	M. Comer	Site Description:	near garage and picnic table	

					Calibration Data	
Date	Duration	Start Time	End Time	On/Off Peak	Begin dBA	End dBA
10/1/2018	20 min	1:05	1:25	Off	94	94
Lmin(A)	L95(A)	L90(A)	L50(A)	L10(A)	L5(A)	Lmax(A)
52.5	54.2	54.2	54.6	55.0	55.1	58.4
Leq(A)	Lpk(A)	SEL(A)	Temp.(°F)	Humidity(%)	Wind Speed/Dir.	Weather Conditions
54.6	n/a	64.6	83	56	2 mph NW	sunny

Roadway	I-495		Ramp to/from 495			
Direction	NB	SB	NB	SB		
Cars	1625	1624	80	95		
Medium Truck	59	4	6	2		
Heavy Truck	99	111	0	0		
Speed (mph)	55	55	40	35		

Site Plan

Monitoring Notes

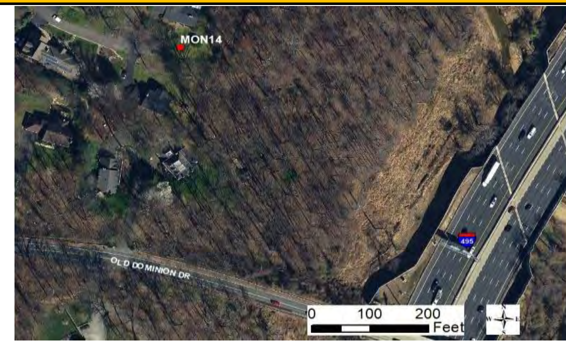
TIME	COMMENT
1:08	local car passby (removed)
1:11	car door slam (removed)
1:21	car start
1:22	car drove away

Measurement Site:	ST-14	Project Name:	I-495 Express Lanes Northern Extension Study
Data Location:	7504 Blaise Trl	Project Number:	45617-001
Technician:	M. Comer	Site Description:	between 7504 and 7505 parallel to swing set

					Calibration Data	
Date	Duration	Start Time	End Time	On/Off Peak	Begin dBA	End dBA
10/2/2018	20 min	10:35	10:55	Off	94	94
$L_{min(A)}$	$L_{95(A)}$	$L_{90(A)}$	$L_{50(A)}$	$L_{10(A)}$	$L_{5(A)}$	$L_{max(A)}$
56.0	58.0	58.1	58.7	59.5	59.6	69.4
$L_{eq(A)}$	$L_{pk(A)}$	$SEL_{(A)}$	Temp.(°F)	Humidity(%)	Wind Speed/Dir.	Weather Conditions
58.7	n/a	68.7	77	69	1 mph NE	sunny

Roadway	I-495		VA-738			
Direction	NB	SB	EB	WB		
Cars	1587	1856	83	60		
Medium Truck	58	77	2	1		
Heavy Truck	130	130	1	1		
Speed (mph)	55	55	40	40		

Site Plan



Monitoring Notes

TIME	COMMENT
10:42	plane (removed)
10:44	local car drove away
10:47	loud truck nearby
10:51	helicopter (removed)
10:54	local car drove into driveway

Measurement Site:	ST-15	Project Name:	I-495 Express Lanes Northern Extension Study
Data Location:	7619 Huntmaster Ln	Project Number:	45617-001
Technician:	M. Comer	Site Description:	between houses

					Calibration Data	
Date	Duration	Start Time	End Time	On/Off Peak	Begin dBA	End dBA
10/2/2018	20 min	11:25	11:45	Off	94	94
$L_{min(A)}$	$L_{95(A)}$	$L_{90(A)}$	$L_{50(A)}$	$L_{10(A)}$	$L_{5(A)}$	$L_{max(A)}$
59.5	62.2	62.2	62.7	63.1	63.2	66.6
$L_{eq(A)}$	$L_{pk(A)}$	$SEL_{(A)}$	Temp.(°F)	Humidity(%)	Wind Speed/Dir.	Weather Conditions
62.7	n/a	72.7	83	58	1 mph WE	sunny
Roadway	I-495 Outside Lanes		I-495 Inside Lanes		Lewinsville Rd	
Direction	NB	SB	NB	SB	EB	WB
Cars	1335	1587	134	92	118	126
Medium Truck	64	70	6	2	2	2
Heavy Truck	104	105	2	1	1	2
Speed (mph)	55	55	55	55	35	35

Site Plan

Monitoring Notes	
TIME	COMMENT
11:36	loud car

Measurement Site:	ST-16	Project Name:	I-495 Express Lanes Northern Extension Study
Data Location:	1396 Scotts Run Rd	Project Number:	45617-001
Technician:	K. Glinkin	Site Description:	backyard between houses

					Calibration Data	
Date	Duration	Start Time	End Time	On/Off Peak	Begin dBA	End dBA
10/2/2018	20 min	11:25	11:45	Off	94	94
$L_{min(A)}$	$L_{95(A)}$	$L_{90(A)}$	$L_{50(A)}$	$L_{10(A)}$	$L_{5(A)}$	$L_{max(A)}$
57.4	59.2	59.3	59.6	59.9	60	62.2
$L_{eq(A)}$	$L_{pk(A)}$	$SEL_{(A)}$	Temp.(°F)	Humidity(%)	Wind Speed/Dir.	Weather Conditions
59.6	n/a	69.6	83	58	1 mph WE	sunny

Roadway	I-495 Outside Lanes		I-495 Inside Lanes		Lewinsville Rd	
Direction	NB	SB	NB	SB	EB	WB
Cars	1335	1587	134	92	118	126
Medium Truck	64	70	6	2	2	2
Heavy Truck	104	105	2	1	1	2
Speed (mph)	55	55	55	55	35	35

Site Plan

Monitoring Notes

TIME	COMMENT
11:43	fedex truck

Measurement Site:	ST-17	Project Name:	I-495 Express Lanes Northern Extension Study
Data Location:	1310 Scotts Run Rd	Project Number:	45617-001
Technician:	W. Minor	Site Description:	adjacent to porch facing I-495

					Calibration Data	
Date	Duration	Start Time	End Time	On/Off Peak	Begin dBA	End dBA
10/2/2018	20 min	11:25	11:45	Off	94	94
L_{min}(A)	L_{95}(A)	L_{90}(A)	L_{50}(A)	L_{10}(A)	L_{5}(A)	L_{max}(A)
58.4	60.8	60.9	61.3	61.8	61.9	65.6
L_{eq}(A)	L_{pk}(A)	SEL(A)	Temp.(°F)	Humidity(%)	Wind Speed/Dir.	Weather Conditions
61.3	n/a	71.3	83	58	1 mph WE	sunny
Roadway	I-495 Outside Lanes		I-495 Inside Lanes		Lewinsville Rd	
Direction	NB	SB	NB	SB	EB	WB
Cars	1335	1587	134	92	118	126
Medium Truck	64	70	6	2	2	2
Heavy Truck	104	105	2	1	1	2
Speed (mph)	55	55	55	55	35	35

Site Plan

Monitoring Notes

TIME	COMMENT
11:28	brakes
11:30	truck
11:35	trucks

Measurement Site:	ST-18	Project Name:	I-495 Express Lanes Northern Extension Study
Data Location:	1358 Snow Meadow Ln	Project Number:	45617-001
Technician:	W. Minor	Site Description:	

					Calibration Data	
Date	Duration	Start Time	End Time	On/Off Peak	Begin dBA	End dBA
10/2/2018	20 min	1:40	2:00	Off	94	94
$L_{min(A)}$	$L_{95(A)}$	$L_{90(A)}$	$L_{50(A)}$	$L_{10(A)}$	$L_{5(A)}$	$L_{max(A)}$
56.2	58.8	58.9	59.3	60.1	60.2	65.3
$L_{eq(A)}$	$L_{pk(A)}$	$SEL_{(A)}$	Temp.(°F)	Humidity(%)	Wind Speed/Dir.	Weather Conditions
59.4	n/a	69.4	87	53	1 mph S	cloudy

Site Plan

Roadway	I-495 Outside Lanes		I-495 Inside Lanes		Dulles Toll Rd - Inside Lanes		Dulles Toll Rd - Outside Lanes	
Direction	NB	SB	NB	SB	EB	WB	EB	WB
Cars	1835	1735	153	154	174	91	1005	1209
Medium Truck	48	46	4	7	1	1	28	28
Heavy Truck	107	90	1	1	6	1	33	38
Speed (mph)	55	55	55	55	55	55	55	55

Monitoring Notes

TIME	COMMENT
1:47	Plane
1:55	Brakes (removed)
1:56	Brakes (removed)

Measurement Site:	ST-19	Project Name:	I-495 Express Lanes Northern Extension Study
Data Location:	7714 Lear Rd	Project Number:	45617-001
Technician:	W. Minor	Site Description:	backyard

					Calibration Data	
Date	Duration	Start Time	End Time	On/Off Peak	Begin dBA	End dBA
10/2/2018	20 min	1:05	1:25	Off	94	94
Lmin(A)	L95(A)	L90(A)	L50(A)	L10(A)	L5(A)	Lmax(A)
52.6	54.6	54.6	55.0	55.5	55.6	60.8
Leq(A)	Lpk(A)	SEL(A)	Temp.(°F)	Humidity(%)	Wind Speed/Dir.	Weather Conditions
55.0	n/a	65.0	86	55	1 mph N	mixed sun

Site Plan

Roadway	I-495 Outside Lanes		I-495 Inside Lanes		Dulles Toll Rd - Inside Lanes		Dulles Toll Rd - Outside Lanes	
Direction	NB	SB	NB	SB	EB	WB	EB	WB
Cars	1639	1541	144	155	162	87	1050	1029
Medium Truck	57	32	6	11	8	0	31	23
Heavy Truck	92	115	2	1	2	0	25	37
Speed (mph)	55	55	55	55	55	55	55	55

Monitoring Notes

TIME	COMMENT
1:05	birds
1:13	brakes
1:17	plane

Measurement Site:	ST-20	Project Name:	I-495 Express Lanes Northern Extension Study
Data Location:	7821 Falstaff Rd	Project Number:	45617-001
Technician:	M. Comer	Site Description:	backyard, parallel with side of house facing 495

					Calibration Data	
Date	Duration	Start Time	End Time	On/Off Peak	Begin dBA	End dBA
10/2/2018	20 min	1:40	2:00	Off	94	94
$L_{min(A)}$	$L_{95(A)}$	$L_{90(A)}$	$L_{50(A)}$	$L_{10(A)}$	$L_{5(A)}$	$L_{max(A)}$
55.9	57.7	57.8	58.3	58.9	59.0	61.7
$L_{eq(A)}$	$L_{pk(A)}$	$SEL_{(A)}$	Temp.(°F)	Humidity(%)	Wind Speed/Dir.	Weather Conditions
58.3	n/a	68.3	87	53	1 mph S	cloudy

Site Plan

Roadway	I-495 Outside Lanes		I-495 Inside Lanes		Dulles Toll Rd - Inside Lanes		Dulles Toll Rd - Outside Lanes	
Direction	NB	SB	NB	SB	EB	WB	EB	WB
Cars	1835	1735	153	154	174	91	1005	1209
Medium Truck	48	46	4	7	1	1	28	28
Heavy Truck	107	90	1	1	6	1	33	38
Speed (mph)	55	55	55	55	55	55	55	55

Monitoring Notes

TIME	COMMENT
1:42	acorns hitting fence
1:44	airplane
1:52	acorns falling/door shutting (rem)
1:56	airplane (removed)

Measurement Site:	ST-21	Project Name:	I-495 Express Lanes Northern Extension Study
Data Location:	1345 MacBeth St	Project Number:	45617-001
Technician:	M. Comer	Site Description:	backyard, corner middle of back driveway

					Calibration Data	
Date	Duration	Start Time	End Time	On/Off Peak	Begin dBA	End dBA
10/2/2018	20 min	1:05	1:25	Off	94	94
$L_{min(A)}$	$L_{95(A)}$	$L_{90(A)}$	$L_{50(A)}$	$L_{10(A)}$	$L_{5(A)}$	$L_{max(A)}$
51.9	54.7	54.8	55.2	56.0	56.1	62.5
$L_{eq(A)}$	$L_{pk(A)}$	$SEL_{(A)}$	Temp.(°F)	Humidity(%)	Wind Speed/Dir.	Weather Conditions
55.3	n/a	65.3	86	55	1 mph N	mixed sun

Site Plan

Roadway	I-495 Outside Lanes		I-495 Inside Lanes		Dulles Toll Rd - Inside Lanes		Dulles Toll Rd - Outside Lanes	
Direction	NB	SB	NB	SB	EB	WB	EB	WB
Cars	1639	1541	144	155	162	87	1050	1029
Medium Truck	57	32	6	11	8	0	31	23
Heavy Truck	92	115	2	1	2	0	25	37
Speed (mph)	55	55	55	55	55	55	55	55

Monitoring Notes

TIME	COMMENT
1:05	loud brakes (removed)
1:06	loud motorcycle (removed)
1:08	garbage truck (removed)
1:11	garbage truck (removed)
1:16	garbage truck (removed)
1:17	airplane (removed)

Measurement Site:	ST-23	Project Name:	I-495 Express Lanes Northern Extension Study
Data Location:	8200 Jones Branch Dr	Project Number:	45617-001
Technician:	K. Glinkin	Site Description:	edge of basketball court

					Calibration Data	
Date	Duration	Start Time	End Time	On/Off Peak	Begin dBA	End dBA
10/2/2018	20 min	1:40	2:00	Off	94	94
$L_{min(A)}$	$L_{95(A)}$	$L_{90(A)}$	$L_{50(A)}$	$L_{10(A)}$	$L_{5(A)}$	$L_{max(A)}$
56.0	58.6	58.7	59.5	60.2	60.3	63.7
$L_{eq(A)}$	$L_{pk(A)}$	$SEL_{(A)}$	Temp.(°F)	Humidity(%)	Wind Speed/Dir.	Weather Conditions
59.5	n/a	69.5	87	53	1 mph S	cloudy

Site Plan

Roadway	I-495 Outside Lanes		I-495 Inside Lanes		Dulles Toll Rd - Inside Lanes		Dulles Toll Rd - Outside Lanes	
Direction	NB	SB	NB	SB	EB	WB	EB	WB
Cars	1835	1735	153	154	174	91	1005	1209
Medium Truck	48	46	4	7	1	1	28	28
Heavy Truck	107	90	1	1	6	1	33	38
Speed (mph)	55	55	55	55	55	55	55	55

Monitoring Notes

TIME	COMMENT
1:43 to 1:46	garbage truck picked up bin with backup alarm (removed)

Measurement Site:	ST-24	Project Name:	I-495 Express Lanes Northern Extension Study
Data Location:	7950 Jones Branch Dr	Project Number:	45617-001
Technician:	K. Glinkin	Site Description:	outdoor seating area

					Calibration Data	
Date	Duration	Start Time	End Time	On/Off Peak	Begin dBA	End dBA
10/3/2018	20 min	10:30	10:50	Off	94	94
Lmin(A)	L95(A)	L90(A)	L50(A)	L10(A)	L5(A)	Lmax(A)
54.9	59.5	59.6	60.5	61.8	62.0	65.7
Leq(A)	Lpk(A)	SEL(A)	Temp.(°F)	Humidity(%)	Wind Speed/Dir.	Weather Conditions
60.7	n/a	70.7	81	61	2 mph NE	mix sun/cloud

Site Plan

Roadway	I-495 Outside Lanes		I-495 Inside Lanes		Dulles Toll Rd				VA-123		Dolley Madison Blvd Ramp to 495	Dolley Madison Blvd Ramp to Dulles Access Rd
Direction	NB	SB	NB	SB	EB Outside Ramp	EB Outside Lanes	EB Inside Lanes	WB	NB	SB	NB	EB
Cars	1382	1698	157	158	356	707	205	1151	429	471	110	61
Medium Truck	54	69	7	8	11	23	6	32	10	14	7	0
Heavy Truck	93	130	1	0	12	23	4	32	4	1	1	0
Speed (mph)	55	55	55	55	55	55	55	55	35	35	45	35

Monitoring Notes

TIME	COMMENT
10:33	loud truck (removed)
10:34	loud truck (removed)
10:37	helicopter (removed)
10:45	loud truck (removed)
10:48	loud truck (removed)

Measurement Site:	ST-25	Project Name:	I-495 Express Lanes Northern Extension Study
Data Location:	7950 Jones Branch Dr.	Project Number:	45617-001
Technician:	K. Glinkin	Site Description:	garden behind building

					Calibration Data	
Date	Duration	Start Time	End Time	On/Off Peak	Begin dBA	End dBA
10/3/2018	20 min	11:40	12:00	Off	94	94
Lmin(A)	L95(A)	L90(A)	L50(A)	L10(A)	L5(A)	Lmax(A)
61.7	66.7	66.9	68.5	70.2	70.5	76.0
Leq(A)	Lpk(A)	SEL(A)	Temp.(°F)	Humidity(%)	Wind Speed/Dir.	Weather Conditions
68.7	n/a	78.7	83	58	4 mph NW	mix sun/cloud

Site Plan

Roadway	I-495 Inside Lanes		I-495		Ramp from Dulles Toll Rd Inner Lanes to 495		Ramp from Jones Branch to 495 SB	Ramp from Dulles Toll Rd Outer Lanes to 495		Ramp from Dulles Toll Rd Outer Lane to 495 SB Express Lanes	Jones Branch Connector Ramp		Dulles Toll Rd	I-495 Mainline
Direction	NB	SB	NB Outside	SB HOT	NB	SB		NB	SB		To 495 NB	From 495 NB	EB	SB
Cars	157	55	1107	114	70	38	10	243	248	55	20	8	548	1332
Medium Truck	8	4	69	5	1	0	0	19	18	3	0	0	8	51
Heavy Truck	0	0	108	0	1	0	0	13	27	0	0	0	6	86
Speed (mph)	55	55	55	55	30	30	45	35	35	35	25	45	55	55

Monitoring Notes

TIME	COMMENT
11:41	loud truck (removed)
11:55	loud truck (removed)

Measurement Site:	ST-26	Project Name:	I-495 Express Lanes Northern Extension Study
Data Location:	7930 Jones Branch Dr	Project Number:	45617-001
Technician:	W. Minor	Site Description:	sitting area between buildings

					Calibration Data	
Date	Duration	Start Time	End Time	On/Off Peak	Begin dBA	End dBA
10/3/2018	20 min	11:40	12:00	Off	94	94
$L_{min(A)}$	$L_{95(A)}$	$L_{90(A)}$	$L_{50(A)}$	$L_{10(A)}$	$L_{5(A)}$	$L_{max(A)}$
55.0	57.1	57.2	57.9	59.5	60.0	68.9
$L_{eq(A)}$	$L_{pk(A)}$	$SEL_{(A)}$	Temp.(°F)	Humidity(%)	Wind Speed/Dir.	Weather Conditions
58.2	n/a	68.2	83	58	4 mph NW	mix sun/cloud

Site Plan

Roadway	I-495 Inside Lanes		I-495		Ramp from Dulles Toll Rd Inner Lanes to 495		Ramp from Jones Branch to 495 SB	Ramp from Dulles Toll Rd Outer Lanes to 495		Ramp from Dulles Toll Rd Outer Lane to 495 SB Express Lanes	Jones Branch Connector Ramp		Dulles Toll Rd	I-495 Mainline
Direction	NB	SB	NB Outside	SB HOT	NB	SB		NB	SB		To 495 NB	From 495 NB	EB	SB
Cars	157	55	1107	114	70	38	10	243	248	55	20	8	548	1332
Medium Truck	8	4	69	5	1	0	0	19	18	3	0	0	8	51
Heavy Truck	0	0	108	0	1	0	0	13	27	0	0	0	6	86
Speed (mph)	55	55	55	55	30	30	45	35	35	35	25	45	55	55

Monitoring Notes

TIME	COMMENT
11:44	talking people walked past (rem)
11:53	talking people walked past (rem)

Measurement Site:	ST-30	Project Name:	I-495 Express Lanes Northern Extension Study
Data Location:	1530 Spring Gate Dr	Project Number:	45617-001
Technician:	M. Comer	Site Description:	corner on curb by no left turn sign

					Calibration Data	
Date	Duration	Start Time	End Time	On/Off Peak	Begin dBA	End dBA
10/3/2018	20 min	11:40	12:00	Off	94	94
$L_{min(A)}$	$L_{95(A)}$	$L_{90(A)}$	$L_{50(A)}$	$L_{10(A)}$	$L_{5(A)}$	$L_{max(A)}$
56.2	58.7	58.8	59.3	59.9	60.0	66.3
$L_{eq(A)}$	$L_{pk(A)}$	$SEL_{(A)}$	Temp.(°F)	Humidity(%)	Wind Speed/Dir.	Weather Conditions
59.3	n/a	69.3	83	58	4 mph NW	mix sun/cloud

Site Plan

Roadway	I-495 Inside Lanes		I-495		Ramp from Dulles Toll Rd Inner Lanes to 495		Ramp from Jones Branch to 495 SB	Ramp from Dulles Toll Rd Outer Lanes to 495		Ramp from Dulles Toll Rd Outer Lane to 495 SB Express	Jones Branch Connector Ramp		Dulles Toll Rd	I-495 Mainline
Direction	NB	SB	NB Outside	SB HOT	NB	SB		NB	SB		To 495 NB	From 495 NB	EB	SB
Cars	157	55	1107	114	70	38	10	243	248	55	20	8	548	1332
Medium Truck	8	4	69	5	1	0	0	19	18	3	0	0	8	51
Heavy Truck	0	0	108	0	1	0	0	13	27	0	0	0	6	86
Speed (mph)	55	55	55	55	30	30	45	35	35	35	25	45	55	55

Monitoring Notes

TIME	COMMENT
11:44	construction noise
11:46	local car drove past/air conditioner
11:50	wind gust/leaves rustling
11:51	car passby (removed)
11:55	car passby
11:56	loud brake
11:59	car passby (removed)

Measurement Site:	ST-31	Project Name:	I-495 Express Lanes Northern Extension Study
Data Location:	1575 Anderson Rd	Project Number:	45617-001
Technician:	W. Minor	Site Description:	building walkway adjacent to ramp

					Calibration Data	
Date	Duration	Start Time	End Time	On/Off Peak	Begin dBA	End dBA
10/3/2018	20 min	10:30	10:50	Off	94	94
$L_{min(A)}$	$L_{95(A)}$	$L_{90(A)}$	$L_{50(A)}$	$L_{10(A)}$	$L_{5(A)}$	$L_{max(A)}$
55.6	66.3	66.5	68.1	70.6	71.1	80.9
$L_{eq(A)}$	$L_{pk(A)}$	$SEL_{(A)}$	Temp.(°F)	Humidity(%)	Wind Speed/Dir.	Weather Conditions
68.6	n/a	78.6	81	61	2 mph NE	mix sun/cloud

Site Plan

Roadway	I-495 Outside Lanes		I-495 Inside Lanes		Dulles Toll Rd				VA-123		Dolley Madison Blvd Ramp to 495	Dolley Madison Blvd Ramp to Dulles Access Rd
Direction	NB	SB	NB	SB	EB Outside Ramp	EB Outside Lanes	EB Inside Lanes	WB	NB	SB	NB	EB
Cars	1382	1698	157	158	356	707	205	1151	429	471	110	61
Medium Truck	54	69	7	8	11	23	6	32	10	14	7	0
Heavy Truck	93	130	1	0	12	23	4	32	4	1	1	0
Speed (mph)	55	55	55	55	55	55	55	55	35	35	45	35

Monitoring Notes

TIME	COMMENT
10:33	train (removed)
10:38	horn from train (removed)
10:39	train (removed)
10:42	train, horn, brakes (removed)
10:48	train (removed)

Measurement Site:	ST-32	Project Name:	I-495 Express Lanes Northern Extension Study
Data Location:	1501 Farm Credit Dr	Project Number:	45617-001
Technician:	M. Comer	Site Description:	near red post in clearing

					Calibration Data	
Date	Duration	Start Time	End Time	On/Off Peak	Begin dBA	End dBA
10/3/2018	20 min	10:30	10:50	Off	94	94
$L_{min(A)}$	$L_{95(A)}$	$L_{90(A)}$	$L_{50(A)}$	$L_{10(A)}$	$L_{5(A)}$	$L_{max(A)}$
54.4	57.5	57.6	58.5	59.6	59.8	66.1
$L_{eq(A)}$	$L_{pk(A)}$	$SEL_{(A)}$	Temp.(°F)	Humidity(%)	Wind Speed/Dir.	Weather Conditions
58.6	n/a	68.6	81	61	2 mph NE	mix sun/cloud

Site Plan

Roadway	I-495 Outside Lanes		I-495 Inside Lanes		Dulles Toll Rd				VA-123		Dolley Madison Blvd Ramp to 495	Dolley Madison Blvd Ramp to Dulles Access Rd
Direction	NB	SB	NB	SB	EB Outside Ramp	EB Outside Lanes	EB Inside Lanes	WB	NB	SB	NB	EB
Cars	1382	1698	157	158	356	707	205	1151	429	471	110	61
Medium Truck	54	69	7	8	11	23	6	32	10	14	7	0
Heavy Truck	93	130	1	0	12	23	4	32	4	1	1	0
Speed (mph)	55	55	55	55	55	55	55	55	35	35	45	35

Monitoring Notes

TIME	COMMENT
10:30	leaf blower
10:31	loud truck
10:32	helicopter (removed)
10:37	horn honking intermittently (rem)
10:43	loud brakes (removed)
10:48	train (removed)

I-495 Northern Extension - Traffic Collected During Noise Monitoring - October 1 to October 3, 2018

Session #1

Site	495 NB (1)				495 SB (2) (SB ramp traffic is included)				Ramp from 495 NB to GW Pkwy (3)				Ramp from 495 SB to GW Pkwy (4)				Ramp from GW Pkwy to 495 SB (5)				Ramp from GW Pkwy to 495 NB (6)			
1	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed
2	1720	90	84	60	2251	77	95	50	66	1	0	45	251	9	0	35	96	0	0	35	248	1	0	45
3																								

Session #2

Site	495 NB (1)				495 SB (2)				495 SB local (3)				Ramp from 495 NB to GW Pkwy (4)				Ramp from 495 SB to GW Pkwy (5)				Ramp from GW Pkwy to 495 SB (6)			
5	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed
6	1740	90	98	60	1631	75	86	60	247	10	1	55	74	1	0	45	256	2	0	35	92	0	0	35
4																								

Session #3

Site	495 NB (1)				495 SB (2)				Ramp to 495 NB (3)				Ramp from 495 SB (4)				193 EB (5)				193 WB (6)			
9	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed
8	1320	51	116	55	1613	41	103	55	190	4	2	25	186	6	2	25	144	5	1	35	61	1	0	35
7																								
	Balls Hill Road NB (7a)				Balls Hill Road SB (7b)																			
	Cars	MT	HT	Speed	Cars	MT	HT	Speed																
	16	0	0	25	19	0	0	25																

Session #4

Site	495 NB (1)				495 SB (2)				Ramp from 495 NB (3)				Ramp to 495 SB (4)			
11	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed
13	1625	59	99	55	1624	40	111	55	80	6	0	40	95	2	0	35
10																

Session #5

Site	495 NB (1)				495 SB (2)				738 EB (3)				738 WB (4)			
14	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed
12	1587	58	130	55	1856	77	130	55	83	2	1	40	60	1	1	40

Session #6

Site	495 NB - outside lanes - right of hatch (1)				495 NB - inside lanes - left of hatch (2)				495 SB - inside lanes - right of hatch (3)				495 SB - outside lanes - left of hatch (4)				Lewinsville EB (5)				Lewinsville WB (6)			
16	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed
15	1335	64	104	55	134	6	2	55	92	2	1	55	1587	70	105	55	118	2	1	35	126	2	2	35
17																								

Session #7

Site	495 NB - outside lanes (include ramp from dulles toll road) (1)				495 NB - inside lanes (2)				495 SB - inside lanes (3)				495 SB - outside lanes (4)				Dulles EB - outside lanes (5)				Dulles EB - inside lanes (6)			
22	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed
21	1639	57	92	55	144	6	2	55	155	11	1	55	1541	32	115	55	1050	31	25	55	162	8	2	55
19																								
	Dulles WB - inside lanes (7)				Dulles WB - outside lanes (8)																			
	Cars	MT	HT	Speed	Cars	MT	HT	Speed																
	87	0	0	55	1029	23	37	55																

Session #8

Site	495 NB - outside lanes (inlude ramp from dulles toll road) (1)				495 NB - inside lanes (2)				495 SB - inside lanes (3)				495 SB - outside lanes (4)				Dulles EB - outside lanes (5)				Dulles EB - inside lanes (6)			
23	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed
20	1835	48	107	55	153	4	1	55	154	7	1	55	1735	46	90	55	1005	28	33	55	174	1	6	55
18																								
	Dulles WB - inside lanes (7)				Dulles WB - outside lanes (8)																			
	Cars	MT	HT	Speed	Cars	MT	HT	Speed																
	91	1	1	55	1209	28	38	55																

Session #9

Site	Ramp from Dolley Madison/Dulles to 459NB (1)				495 NB - outside lanes (exclude ramp from dulles toll road) (2)				495 NB - inside lanes (3)				495 SB - inside lanes (4)				495 SB - outside lanes (5) - estimated*				Dulles EB - outside ramp (6)			
24	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed
32	110	7	1	45	1382	54	93	55	157	7	1	55	158	8	0	55	1698	69	130	55	356	11	12	55
31																	* Estimated based upon session #5 (similar time of day) 495 SB minus what was counted for 495 SB - inside lanes							
	Dulles EB - outside lanes (7)				Dulles EB - inside lanes (8)				Dulles WB - all lanes (9)				VA 123 NB (10)				VA 123 SB (11)				ramp closest to 9C (12)			
	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed
	707	23	23	55	205	6	4	55	1151	32	32	55	429	10	4	35	471	14	1	35	61	0	0	35

Session #10

Site	ramp from Jones Branch to 495 SB (1)				495 SB - middle lanes (HOT lanes) (2)				495 SB - inside lanes (3)				495 NB - inside lanes (4)				495 NB - outside lanes (5)				Ramp from Dulles (outer lane) to 495 SB (6)			
25	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed
30	10	0	0	45	114	5	0	55	55	4	0	55	157	8	0	55	1107	69	108	55	248	18	27	35
26																								

Ramp from Dulles (outer lane) to 495 NB (7a)				Ramp from Dulles outer lane to 495 SB Express lanes (7b)				Ramp from Dulles (inner lane) to 495 SB (8)				Ramp from Dulles (inner lane) to 495 NB (9)				495 SB mainline (10) (Included ramp from 495 SB to Dulles lanes (EB)				Dulles Toll Road EB (11)			
Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed
243	19	13	35	55	3	0	35	38	0	0	30	70	1	1	30	1332	51	86	55	548	8	6	55

Ramp from Jones Branch to 495N (12)				Ramp from 495N to Jones Branch (13)			
Cars	MT	HT	Speed	Cars	MT	HT	Speed
20	0	0	25	8	0	0	45

Session #11

Site	ramp from 495 SB to VA 123 (1)				495 SB - outside lanes (exclude ramp) (2)				495 SB - inside lanes (3)				495 NB - inside lanes (4)				495 NB - outside lanes (5)				VA 123 EB (6)			
28	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed
29	222	2	0	50	1164	50	93	55	176	19	0	55	220	8	0	60	1197	63	95	55	772	14	10	35
27																								

VA 123 WB (7)				Westpark (8a) SB				Westpark (8b) NB			
Cars	MT	HT	Speed	Cars	MT	HT	Speed	Cars	MT	HT	Speed
745	17	18	35	137	6	0	25	127	1	0	25

Appendix I: Long-Term Monitoring Data

Appendix I - Measurement LT-1

Address	Start Time	Leq (dBA)	SEL (dBA)	Lmax (dBA)	Lmin (dBA)	L5 (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	L95 (dBA)	Leq (Energy)	LE (SEL) (Energy)	Lmax (Energy)	Lmin (Energy)	L5 (Energy)	L10 (Energy)	L50 (Energy)	L90 (Energy)	L95 (Energy)
1	10/1/2018 15:04:18	61.9	86.7	70.4	57.9	64.6	63.9	61.1	59.4	59.1	1,548,817	467,735,141	10,964,782	616,595	2,884,032	2,454,709	1,288,250	870,964	812,831
2	10/1/2018 15:09:18	67.8	92.5	84.9	56.7	73.6	66.1	59.2	57.6	57.2	**1,230,414**	**371,579,006**	**6,435,121**	**462,812**	**2,198,796**	**1,933,623**	**1,079,607**	**648,772**	**583,822**
3	10/1/2018 15:14:18	59.6	84.4	62.8	54.9	61.8	61.5	59.4	56.3	55.5	912,011	275,422,870	1,905,461	309,030	1,513,561	1,412,538	870,964	426,580	354,813
4	10/1/2018 15:19:18	58	82.7	67.9	54.9	59.5	59	57.4	56	55.7	630,957	186,208,714	6,165,950	309,030	891,251	794,328	549,541	398,107	371,535
5	10/1/2018 15:24:18	58.7	83.5	62.5	55.8	60.1	59.7	58.7	57.1	56.8	741,310	223,872,114	1,778,279	380,189	1,023,293	933,254	741,310	512,861	478,630
6	10/1/2018 15:29:18	58.6	83.3	61.8	55	60.7	60	58.7	56	55.7	724,436	213,796,209	1,513,561	316,228	1,174,898	1,000,000	741,310	398,107	371,535
7	10/1/2018 15:34:18	60.3	85.1	70.1	55.9	63.9	61.9	58.7	57.2	56.7	1,071,519	323,593,657	10,232,930	389,045	2,454,709	1,548,817	741,310	524,807	467,735
8	10/1/2018 15:39:18	58.4	83.1	61.6	54.8	60.4	60.1	58.3	56.1	55.6	691,831	204,173,794	1,445,440	301,995	1,096,478	1,023,293	676,083	407,380	363,078
9	10/1/2018 15:44:18	58.3	83.1	61.8	56.2	60.8	60.1	57.8	56.9	56.7	676,083	204,173,794	1,513,561	416,869	1,202,264	1,023,293	602,560	489,779	467,735
10	10/1/2018 15:49:18	58.5	83.3	62	54.1	60.4	60.1	58.4	56.4	55.4	707,946	213,796,209	1,584,893	257,040	1,096,478	1,023,293	691,831	436,516	346,737
11	10/1/2018 15:54:18	57.7	82.5	60.4	54.4	59.6	58.9	57.5	56.6	56.3	588,844	177,827,941	1,096,478	275,423	912,011	776,247	562,341	457,088	426,580
12	10/1/2018 15:59:18	58.6	83.4	64	55.3	60.6	60.2	58.5	56.5	56.2	724,436	218,776,162	2,511,886	338,844	1,148,154	1,047,129	707,946	446,684	416,869
13	10/1/2018 16:04:18	58.2	82.9	61.6	54.6	60.2	59.7	58	56.2	55.5	660,693	194,984,460	1,445,440	288,403	1,047,129	933,254	630,957	416,869	354,813
14	10/1/2018 16:09:18	58.5	83.2	61.5	55.6	60.9	60.4	57.9	56.5	56.2	707,946	208,929,613	1,412,538	363,078	1,230,269	1,096,478	616,595	446,684	416,869
15	10/1/2018 16:14:18	58	82.8	61.6	54.5	60	59.7	57.6	55.7	55.3	630,957	190,546,072	1,445,440	281,838	1,000,000	933,254	575,440	371,535	338,844
16	10/1/2018 16:19:18	58.7	83.4	61.3	55.2	60.1	59.9	58.8	56.5	56	741,310	218,776,162	1,348,963	331,131	1,023,293	977,237	758,578	446,684	398,107
17	10/1/2018 16:24:18	58.6	83.4	63.5	54.6	61.1	60.6	58.4	56.1	55.7	724,436	218,776,162	2,238,721	288,403	1,288,250	1,148,154	691,831	407,380	371,535
18	10/1/2018 16:29:18	58.9	83.7	61.3	55.6	60.6	60.3	59	56.9	56.5	776,247	234,422,882	1,348,963	363,078	1,148,154	1,071,519	794,328	489,779	446,684
19	10/1/2018 16:34:18	58.3	83	60.8	55.5	59.9	59.6	58.1	56.9	56.3	676,083	199,526,231	1,202,264	354,813	977,237	912,011	645,654	489,779	426,580
20	10/1/2018 16:39:18	59	83.7	67.9	56.9	60.1	59.6	58.6	57.7	57.4	794,328	234,422,882	6,165,950	489,779	1,023,293	912,011	724,436	588,844	549,541
21	10/1/2018 16:44:18	59.3	84.1	63	57.3	61	60.5	59.1	58	57.9	851,138	257,039,578	1,995,262	537,032	1,258,925	1,122,018	812,831	630,957	616,595
22	10/1/2018 16:49:18	59.5	84.2	61.8	57.4	60.8	60.4	59.4	58.3	58.2	891,251	263,026,799	1,513,561	549,541	1,202,264	1,096,478	870,964	676,083	660,693
23	10/1/2018 16:54:18	58.8	83.6	61.6	57	60.4	59.8	58.7	57.8	57.5	758,578	229,086,765	1,445,440	501,187	1,096,478	954,993	741,310	602,560	562,341
24	10/1/2018 16:59:18	59.2	84	60.9	57.4	60.1	59.9	59.2	58.3	58	831,764	251,188,643	1,230,269	549,541	1,023,293	977,237	831,764	676,083	630,957
25	10/1/2018 17:04:18	59.8	84.6	61.6	58	60.9	60.8	59.8	58.5	58.3	954,993	288,403,150	1,445,440	630,957	1,230,269	1,202,264	954,993	707,946	676,083
26	10/1/2018 17:09:18	60	84.8	64.4	57.5	62.3	61.7	59.5	58.6	58.4	1,000,000	301,995,172	2,754,229	562,341	1,698,244	1,479,108	891,251	724,436	691,831
27	10/1/2018 17:14:18	59.2	83.9	61.8	56.7	60.3	60.1	59.2	57.9	57.6	831,764	245,470,892	1,513,561	467,735	1,071,519	1,023,293	831,764	616,595	575,440
28	10/1/2018 17:19:18	60	84.7	70.5	57	62.4	61.1	59.2	58	57.6	1,000,000	295,120,923	11,220,185	501,187	1,737,801	1,288,250	831,764	630,957	575,440
29	10/1/2018 17:24:18	58.9	83.7	61.4	56.7	60.5	60	58.8	58	57.2	776,247	234,422,882	1,380,384	467,735	1,122,018	1,000,000	758,578	630,957	524,807
30	10/1/2018 17:29:18	59.6	84.4	62.9	57	61.7	60.9	59.3	58.2	58	912,011	275,422,870	1,949,845	501,187	1,479,108	1,230,269	851,138	660,693	630,957
31	10/1/2018 17:34:18	59.1	83.9	63	57.1	60.8	60.3	58.8	58	57.9	812,831	245,470,892	1,995,262	512,861	1,202,264	1,071,519	758,578	630,957	616,595
32	10/1/2018 17:39:18	59.4	84.1	62.1	56.5	61	60.6	59.1	58.2	57.9	870,964	257,039,578	1,621,810	446,684	1,258,925	1,148,154	812,831	660,693	616,595
33	10/1/2018 17:44:18	60.1	84.9	66.8	57.5	63.9	62	59.3	58	57.9	1,023,293	309,029,543	4,786,301	562,341	2,454,709	1,584,893	851,138	630,957	616,595
34	10/1/2018 17:49:18	59.2	84	62.2	57.6	60.9	60.1	59.1	58.3	58	831,764	251,188,643	1,659,587	575,440	1,230,269	1,023,293	812,831	676,083	630,957
35	10/1/2018 17:54:18	60.4	85.1	64.5	57.6	61.8	61.5	60.2	59	58.7	1,096,478	323,593,657	2,818,383	575,440	1,513,561	1,412,538	1,047,129	794,328	741,310
36	10/1/2018 17:59:18	59.3	84.1	62.8	57.3	61	60.4	59.1	58.1	57.8	851,138	257,039,578	1,905,461	537,032	1,258,925	1,096,478	812,831	645,654	602,560
37	10/1/2018 18:04:18	60	84.7	64.6	57.6	61.9	61.4	59.6	58.4	58.2	1,000,000	295,120,923	2,884,032	575,440	1,548,817	1,380,384	912,011	691,831	660,693
38	10/1/2018 18:09:18	59.7	84.5	64.5	57.6	61.3	60.8	59.5	58.4	58.2	933,254	281,838,293	2,818,383	575,440	1,348,963	1,202,264	891,251	691,831	660,693
39	10/1/2018 18:14:18	59	83.8	61.3	57.2	60.5	60.2	58.9	58	57.8	794,328	239,883,292	1,348,963	524,807	1,122,018	1,047,129	776,247	630,957	602,560
40	10/1/2018 18:19:18	59.6	84.4	63.1	57.5	61.1	60.1	59.5	58.7	58.4	912,011	275,422,870	2,041,738	562,341	1,288,250	1,023,293	891,251	741,310	691,831
41	10/1/2018 18:24:18	60.1	84.9	66.2	57.5	61.4	61.1	59.9	58.8	58.4	1,023,293	309,029,543	4,168,694	562,341	1,380,384	1,288,250	977,237	758,578	691,831
42	10/1/2018 18:29:18	61.1	85.8	68.2	58.5	64.3	62.8	60.2	59.2	58.9	1,288,250	380,189,396	6,606,934	707,946	2,691,535	1,905,461	1,047,129	831,764	776,247
43	10/1/2018 18:34:18	60.7	85.5	64.5	58.2	62.9	62.2	60.4	59.1	58.8	1,174,898	354,813,389	2,818,383	660,693	1,949,845	1,659,587	1,096,478	812,831	758,578
44	10/1/2018 18:39:18	61.8	86.5	64.7	60.1	63	62.8	61.6	60.7	60.6	1,513,561	446,683,592	2,951,209	1,023,293	1,995,262	1,905,461	1,445,440	1,174,898	1,148,154
45	10/1/2018 18:44:18	62.6	87.3	66.8	60.5	64	63.6	62.4	61.2	60.9	1,819,701	537,031,796	4,786,301	1,122,018	2,511,886	2,290,868	1,737,801	1,318,257	1,230,269
46	10/1/2018 18:49:18	64	88.8	65.9	62	65.2	65	64	62.8	62.6	2,511,886	758,577,575	3,890,451	1,584,893	3,311,311	3,162,278	2,511,886	1,905,461	1,819,701
47	10/1/2018 18:54:18	64.2	89	66.6	62.6	65.8	65.2	64	63.2	63	2,630,268	794,328,235	4,570,882	1,819,701	3,801,894	3,311,311	2,511,886	2,089,296	1,995,262
48	10/1/2018 18:59:18	63.3	88.1	66	58.4	65.2	64.9	63.5	59.8	59.5	2,137,962	645,654,229	3,981,072	691,831	3,311,311	3,090,295	2,238,721	954,993	891,251
49	10/1/2018 19:04:18	61.7	86.5	64.3	59.1	63.7	63.5	61.4	60.1	59.6	1,479,108	446,683,592	2,691,535	812,831	2,344,229	2,238,721	1,380,384	1,023,293	912,011
50	10/1/2018 19:09:18	63.9	88.7	73	62.2	64.9	64.6	63.6	62.7	62.6	2,454,709	741,310,241	19,952,623	1,659,587	3,090,295	2,884,032	2,290,868	1,862,087	1,819,701
51	10/1/2018 19:14:18	63.4	88.2	65.2	61.9	64.3	64.2	63.3	62.7	62.5	2,187,762	660,693,448	3,311,311	1,548,817	2,691,535	2,630,268	2,137,962	1,862,087	1,778,279
52	10/1/2018 19:19:18	64.4	89.1	69.9	62	67.6	66.2	63.5	62.7	62.6	2,754,229	812,830,516	9,772,372	1,584,893	5,754,399	4,168,694	2,238,721	1,862,087	1,819,701
53	10/1/2018 19:24:18	64	88.8	65.9	61.6	65.3	65.1	63.9	62.9	62.5	2,511,886	758,577,575	3,890,451	1,445,440	3,388,442	3,235,937	2,454,709	1,949,845	1,778,279
54	10/1/2018 19:29:18	64.8	89.6	67.1	62.9	65.9	65.7	64.8	63.7	63.5	3,019,952	912,010,839	5,128,614	1,949,845	3,890,451	3,715,352	3,019,952	2,344,229	2,238,721
55	10/1/2018 19:34:18	64.7	89.5	68.3	62.5	66.1	65.8	64.6	63.3	63	2,951,209	891,250,938	6,760,830	1,778,279	4,073,803	3,801,894	2,884,032	2,137,962	1,995,262
56	10/1/2018 19:39:18	64.6	89.4	66.5	62	65.8	65.5	64.6	63.4	63.1	2,884,032	870,963,590	4,466,836	1,584,893	3,801,894	3,548,134	2,884,032	2,187,762	2,041,738
57	10/1/2018 19:44:18	65	89.7	67.7	61.5	66.1	65.9	65	63.8	62.8	3,162,278	933,254,301	5,888,437	1,412,538	4,073,803	3,890,451	3,162,278	2,398,833	1,905,461
58	10/1/2018 19:49:18	64.8	89.5	67.4	61.6	66.4	66	64.7	63.5	63	3,019,952	891,250,938	5,495,409	1,445,440	4,365,158	3,981,072	2,951,209	2,238,721	1,995,262
59	10/1/2018 19:54:18	65	89.8	68.3	62	66.8	66.4	65	63.4	63.1	3,162,278	954,992,586	6,760,830	1,584,893	4,786,301	4,365,158	3,162,278	2,187,762	2,041,738
60	10/1/2018 19:59:18	64.7	89.4	67	62.2	66.2	65.9	64.5	63.3	62.9	2,951,209	870,963,590	5,011,872	1,659,587	4,168,694	3,890,451	2,818,383	2,137,962	1,949,845

Appendix I - Measurement LT-1

Address	Start Time	Leq (dBA)	SEL (dBA)	Lmax (dBA)	Lmin (dBA)	L5 (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	L95 (dBA)	Leq (Energy)	LE (SEL) (Energy)	Lmax (Energy)	Lmin (Energy)	L5 (Energy)	L10 (Energy)	L50 (Energy)	L90 (Energy)	L95 (Energy)
61	10/1/2018 20:04:18	65	89.8	68.5	62.7	66.6	66	64.9	63.9	63.5	3,162,278	954,992,586	7,079,458	1,862,087	4,570,882	3,981,072	3,090,295	2,454,709	2,238,721
62	10/1/2018 20:09:18	64.9	89.6	71	62.3	66.6	66	64.7	63.2	62.8	3,090,295	912,010,839	12,589,254	1,698,244	4,570,882	3,981,072	2,951,209	2,089,296	1,905,461
63	10/1/2018 20:14:18	64.6	89.4	67.4	61.4	66.5	66.1	64.3	63.1	62.8	2,884,032	870,963,590	5,495,409	1,380,384	4,466,836	4,073,803	2,691,535	2,041,738	1,905,461
64	10/1/2018 20:19:18	65.5	90.2	70.8	61.4	68.6	66.9	65.1	62.9	62.1	3,548,134	1,047,128,548	12,022,644	1,380,384	7,244,360	4,897,788	3,235,937	1,949,845	1,621,810
65	10/1/2018 20:24:18	66.1	90.9	72.4	61.8	70.6	68.7	65	63.1	62.9	4,073,803	1,230,268,771	17,378,008	1,513,561	11,481,536	7,413,102	3,162,278	2,041,738	1,949,845
66	10/1/2018 20:29:18	64.5	89.3	67.1	62	66.3	65.6	64.5	63.1	62.7	2,818,383	851,138,038	5,128,614	1,584,893	4,265,795	3,630,781	2,818,383	2,041,738	1,862,087
67	10/1/2018 20:34:18	64	88.8	67.2	61.6	65.8	65.2	64	62.4	62.2	2,511,886	758,577,575	5,248,075	1,445,440	3,801,894	3,311,311	2,511,886	1,737,801	1,659,587
68	10/1/2018 20:39:18	64.5	89.2	67.3	62	66.5	65.9	64.3	62.8	62.6	2,818,383	831,763,771	5,370,318	1,584,893	4,466,836	3,890,451	2,691,535	1,905,461	1,819,701
69	10/1/2018 20:44:18	64.3	89.1	67.1	61.8	65.9	65.5	64.3	62.6	62.2	2,691,535	812,830,516	5,128,614	1,513,561	3,890,451	3,548,134	2,691,535	1,819,701	1,659,587
70	10/1/2018 20:49:18	64	88.7	66.3	60.7	65.5	65.3	64	61.9	61.4	2,511,886	741,310,241	4,265,795	1,174,898	3,548,134	3,388,442	2,511,886	1,548,817	1,380,384
71	10/1/2018 20:54:18	64.6	89.3	68.4	61.3	66.6	66.1	64.4	62.5	62	2,884,032	851,138,038	6,918,310	1,348,963	4,570,882	4,073,803	2,754,229	1,778,279	1,584,893
72	10/1/2018 20:59:18	64.7	89.5	67.9	62.2	66.8	66.3	64.4	63.2	62.9	2,951,209	891,250,938	6,165,950	1,659,587	4,786,301	4,265,795	2,754,229	2,089,296	1,949,845
73	10/1/2018 21:04:18	64	88.8	66.1	60.5	65.4	65	64	62.7	62.3	2,511,886	758,577,575	4,073,803	1,122,018	3,467,369	3,162,278	2,511,886	1,862,087	1,698,244
74	10/1/2018 21:09:18	64.4	89.2	66.8	62	66.1	65.7	64.3	62.9	62.6	2,754,229	831,763,771	4,786,301	1,584,893	4,073,803	3,715,352	2,691,535	1,949,845	1,819,701
75	10/1/2018 21:14:18	64.7	89.5	67.8	61.6	66.4	66.2	64.4	63.2	62.9	2,951,209	891,250,938	6,025,596	1,445,440	4,365,158	4,168,694	2,754,229	2,089,296	1,949,845
76	10/1/2018 21:19:18	64.4	89.1	71	60.8	66.4	65.9	64	62.2	61.8	2,754,229	812,830,516	12,589,254	1,202,264	4,365,158	3,890,451	2,511,886	1,659,587	1,513,561
77	10/1/2018 21:24:18	64.8	89.6	70.9	62	66.8	66.1	64.4	63	62.7	3,019,952	912,010,839	12,302,688	1,584,893	4,786,301	4,073,803	2,754,229	1,995,262	1,862,087
78	10/1/2018 21:29:18	64.4	89.2	67.2	61.8	65.7	65.4	64.4	63.2	62.8	2,754,229	831,763,771	5,248,075	1,513,561	3,715,352	3,467,369	2,754,229	2,089,296	1,905,461
79	10/1/2018 21:34:18	64.6	89.3	67.2	62.3	66.5	65.9	64.3	63.3	63.1	2,884,032	851,138,038	5,248,075	1,698,244	4,466,836	3,890,451	2,691,535	2,137,962	2,041,738
80	10/1/2018 21:39:18	64	88.7	66.7	61.5	65.5	65.1	63.8	62.6	62.2	2,511,886	741,310,241	4,677,351	1,412,538	3,548,134	3,235,937	2,398,833	1,819,701	1,659,587
81	10/1/2018 21:44:18	64.2	89	67.5	61.8	66.4	65.9	63.7	62.4	62.2	2,630,268	794,328,235	5,623,413	1,513,561	4,365,158	3,890,451	2,344,229	1,737,801	1,659,587
82	10/1/2018 21:49:18	64.4	89.2	66.7	61.6	66	65.7	64.4	62.7	62.3	2,754,229	831,763,771	4,677,351	1,445,440	3,981,072	3,715,352	2,754,229	1,862,087	1,698,244
83	10/1/2018 21:54:18	63.9	88.7	66.6	61.3	65.8	65.5	63.8	62.3	61.9	2,454,709	741,310,241	4,570,882	1,348,963	3,801,894	3,548,134	2,398,833	1,698,244	1,548,817
84	10/1/2018 21:59:18	63.9	88.6	66.7	60.2	65.8	65.4	63.8	62	61.1	2,454,709	724,435,960	4,677,351	1,047,129	3,801,894	3,467,369	2,398,833	1,584,893	1,288,250
85	10/1/2018 22:04:18	63.9	88.6	68	61.2	65.6	65.2	63.6	62.2	62	2,454,709	724,435,960	6,309,573	1,318,257	3,630,781	3,311,311	2,290,868	1,659,587	1,584,893
86	10/1/2018 22:09:18	65.4	90.2	73.9	61.8	68.3	65.8	64.4	63	62.5	3,467,369	1,047,128,548	24,547,089	1,513,561	6,760,830	3,801,894	2,754,229	1,995,262	1,778,279
87	10/1/2018 22:14:18	65	89.8	70.6	59.7	68.5	67.3	64	62.1	61.1	3,162,278	954,992,586	11,481,536	933,254	7,079,458	5,370,318	2,511,886	1,621,810	1,288,250
88	10/1/2018 22:19:18	64.2	89	67	61	66	65.7	64	62.6	62.2	2,630,268	794,328,235	5,011,872	1,258,925	3,981,072	3,715,352	2,511,886	1,819,701	1,659,587
89	10/1/2018 22:24:18	64.3	89.1	68.7	59.9	66.5	65.7	64	62.2	61.9	2,691,535	812,830,516	7,413,102	977,237	4,466,836	3,715,352	2,511,886	1,659,587	1,548,817
90	10/1/2018 22:29:18	64.3	89	68.1	61.4	66.3	65.8	64	62.6	62.4	2,691,535	794,328,235	6,456,542	1,380,384	4,265,795	3,801,894	2,511,886	1,819,701	1,737,801
91	10/1/2018 22:34:18	63.6	88.3	67.1	59.7	65.5	65	63.5	61.4	60.7	2,290,868	676,082,975	5,128,614	933,254	3,548,134	3,162,278	2,238,721	1,380,384	1,174,898
92	10/1/2018 22:39:18	64.2	89	68.5	61.2	66.5	65.7	63.9	62.5	62.2	2,630,268	794,328,235	7,079,458	1,318,257	4,466,836	3,715,352	2,454,709	1,778,279	1,659,587
93	10/1/2018 22:44:18	63	87.8	65	60.3	64.4	64.1	63	61.3	60.9	1,995,262	602,559,586	3,162,278	1,071,519	2,754,229	2,570,396	1,995,262	1,348,963	1,230,269
94	10/1/2018 22:49:18	63.3	88.1	66.4	58.8	65.4	64.9	63.1	60.9	60.5	2,137,962	645,654,229	4,365,158	758,578	3,467,369	3,090,295	2,041,738	1,230,269	1,122,018
95	10/1/2018 22:54:18	63.3	88.1	68	58.3	65.4	64.9	63.1	61.2	60.3	2,137,962	645,654,229	6,309,573	676,083	3,467,369	3,090,295	2,041,738	1,318,257	1,071,519
96	10/1/2018 22:59:18	62.9	87.6	66.5	59.4	65.3	64.8	62.5	60.6	60.1	1,949,845	575,439,937	4,466,836	870,964	3,388,442	3,019,952	1,778,279	1,148,154	1,023,293
97	10/1/2018 23:04:18	63.4	88.2	66.5	60.4	65.2	64.8	63.3	61.7	61.3	2,187,762	660,693,448	4,466,836	1,096,478	3,311,311	3,019,952	2,137,962	1,479,108	1,348,963
98	10/1/2018 23:09:18	63.3	88.1	66.8	59.4	65.2	64.9	63.4	60.8	60.5	2,137,962	645,654,229	4,786,301	870,964	3,311,311	3,090,295	2,187,762	1,202,264	1,122,018
99	10/1/2018 23:14:18	62.8	87.6	66.1	57.8	65.1	64.6	62.8	59.8	58.7	1,905,461	575,439,937	4,073,803	602,560	3,235,937	2,884,032	1,905,461	954,993	741,310
100	10/1/2018 23:19:18	63.2	87.9	67	57.5	65.4	65.1	63.1	60.8	59.3	2,089,296	616,595,002	5,011,872	562,341	3,467,369	3,235,937	2,041,738	1,202,264	851,138
101	10/1/2018 23:24:18	63.4	88.2	68	59.1	65.5	65.1	63.6	60.3	60	2,187,762	660,693,448	6,309,573	812,831	3,548,134	3,235,937	2,290,868	1,071,519	1,000,000
102	10/1/2018 23:29:18	63.3	88.1	67.7	59.4	66	64.9	63	61	60.3	2,137,962	645,654,229	5,888,437	870,964	3,981,072	3,090,295	1,995,262	1,258,925	1,071,519
103	10/1/2018 23:34:18	63.6	88.3	67	59.3	65.5	65	63.6	61.2	60.2	2,290,868	676,082,975	5,011,872	851,138	3,548,134	3,162,278	2,290,868	1,318,257	1,047,129
104	10/1/2018 23:39:18	63.1	87.9	67.5	58.9	66.3	65.1	62.6	60.6	59.9	2,041,738	616,595,002	5,623,413	776,247	4,265,795	3,235,937	1,819,701	1,148,154	977,237
105	10/1/2018 23:44:18	63.5	88.3	67.3	60	66	65.6	63.2	61.1	60.8	2,238,721	676,082,975	5,370,318	1,000,000	3,981,072	3,630,781	2,089,296	1,288,250	1,202,264
106	10/1/2018 23:49:18	64.4	89.2	77.9	58.9	67.1	65.2	62.8	60.4	59.8	2,754,229	831,763,771	61,659,500	776,247	5,128,614	3,311,311	1,905,461	1,096,478	954,993
107	10/1/2018 23:54:18	62	86.7	65.8	58.7	64.1	63.3	61.8	60.2	59.8	1,584,893	467,735,141	3,801,894	741,310	2,570,396	2,137,962	1,513,561	1,047,129	954,993
108	10/1/2018 23:59:18	62.7	87.5	66.6	58.6	65.7	65	62.1	59.9	59.5	1,862,087	562,341,325	4,570,882	724,436	3,715,352	3,162,278	1,621,810	977,237	891,251
109	10/2/2018 0:04:18	63.1	87.9	67.7	58.8	66.7	65.4	62.4	60.3	60	2,041,738	616,595,002	5,888,437	758,578	4,677,351	3,467,369	1,737,801	1,071,519	1,000,000
110	10/2/2018 0:09:18	62.2	87	66.2	57.2	65	64.5	61.9	58.8	58.3	1,659,587	501,187,234	4,168,694	524,807	3,162,278	2,818,383	1,548,817	758,578	676,083
111	10/2/2018 0:14:18	62.1	86.9	67.3	57.7	64.7	64.3	61.5	59.4	58.7	1,621,810	489,778,819	5,370,318	588,844	2,951,209	2,691,535	1,412,538	870,964	741,310
112	10/2/2018 0:19:18	62.5	87.3	66.3	57	65.3	64.8	62.1	58.6	58.1	1,778,279	537,031,796	4,265,795	501,187	3,388,442	3,019,952	1,621,810	724,436	645,654
113	10/2/2018 0:24:18	62	86.7	66.2	58	64.6	63.7	61.7	59.5	59.2	1,584,893	467,735,141	4,168,694	630,957	2,884,032	2,344,229	1,479,108	891,251	831,764
114	10/2/2018 0:29:18	61.8	86.5	66.3	57.3	65.2	63.9	60.9	59	58.5	1,513,561	446,683,592	4,265,795	537,032	3,311,311	2,454,709	1,230,269	794,328	707,946
115	10/2/2018 0:34:18	62.9	87.6	67.9	56.4	65.4	64.9	62.7	59.3	58.3	1,949,845	575,439,937	6,165,950	436,516	3,467,369	3,090,295	1,862,087	851,138	676,083
116	10/2/2018 0:39:18	62.5	87.3	68.1	58	65	64.4	62	60.1	59.6	1,778,279	537,031,796	6,456,542	630,957	3,162,278	2,754,229	1,584,893	1,023,293	912,011
117	10/2/2018 0:44:18	61.8	86.6	65.1	57.6	64.2	63.7	61.4	59.5	59	1,513,561	457,088,190	3,235,937	575,440	2,630,268	2,344,229	1,380,384	891,251	794,328
118	10/2/2018 0:49:18	63.5	88.2	67.9	58.1	66.4	65.8	62.9	60.2	59.4	2,238,721	660,693,448	6,165,950	645,654	4,365,158	3,801,894	1,949,845	1,047,129	870,964
119	10/2/2018 0:54:18	62.2	87	66.8	55.7	64.8	64.4	62.1	58.8	57.8	1,659,587	501,187,234	4,786,301	371,535	3,019,952	2,754,229	1,621,810	758,578	602,560
120	10/2/2018 0:59:18	61	85.8	66	56.3	63.9	63.1	60.5	57.7	57.3	1,258,925	380,189,396	3,981,072	426,580	2,454,709	2,041,738	1,122,018	588,844	537,032
121	10/2/2018 1:04:18	61.4	86.2	66	56.9	64.8	63.2	60.8	58.4	57.9	1,380,384	416,869,383	3,981,072	489,779	3,019,952	2,089,296	1,202,264	691,831	616,595

Appendix I - Measurement LT-1

Address	Start Time	Leq (dBA)	SEL (dBA)	Lmax (dBA)	Lmin (dBA)	L5 (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	L95 (dBA)	Leq (Energy)	LE (SEL) (Energy)	Lmax (Energy)	Lmin (Energy)	L5 (Energy)	L10 (Energy)	L50 (Energy)	L90 (Energy)	L95 (Energy)
122	10/2/2018 1:09:18	61.7	86.5	66.7	55.6	64.9	64.4	61	57.3	56.3	1,479,108	446,683,592	4,677,351	363,078	3,090,295	2,754,229	1,258,925	537,032	426,580
123	10/2/2018 1:14:18	62.2	87	68.7	56.7	65.8	63.9	61.6	59.7	58.8	1,659,587	501,187,234	7,413,102	467,735	3,801,894	2,454,709	1,445,440	933,254	758,578
124	10/2/2018 1:19:18	62	86.8	67.2	56.7	65.5	64.3	61.4	58.3	57.8	1,584,893	478,630,092	5,248,075	467,735	3,548,134	2,691,535	1,380,384	676,083	602,560
125	10/2/2018 1:24:18	61.3	86.1	66.2	55.7	64.3	63.2	61.3	57.6	56.9	1,348,963	407,380,278	4,168,694	371,535	2,691,535	2,089,296	1,348,963	575,440	489,779
126	10/2/2018 1:29:18	61.2	86	65.3	56.4	63.6	63	61.2	58	57.1	1,318,257	398,107,171	3,388,442	436,516	2,290,868	1,995,262	1,318,257	630,957	512,861
127	10/2/2018 1:34:18	61.1	85.9	66	55	63.7	63.4	60.8	57.1	56.5	1,288,250	389,045,145	3,981,072	316,228	2,344,229	2,187,762	1,202,264	512,861	446,684
128	10/2/2018 1:39:18	62.5	87.3	68.1	56.8	66.1	65.1	61.7	58.8	57.5	1,778,279	537,031,796	6,456,542	478,630	4,073,803	3,235,937	1,479,108	758,578	562,341
129	10/2/2018 1:44:18	60.9	85.7	66.1	56.8	64.3	63.4	60.1	57.7	57.5	1,230,269	371,535,229	4,073,803	478,630	2,691,535	2,187,762	1,023,293	588,844	562,341
130	10/2/2018 1:49:18	61.5	86.3	65.2	56.7	64.3	63.7	61.1	58.5	58.1	1,412,538	426,579,519	3,311,311	467,735	2,691,535	2,344,229	1,288,250	707,946	645,654
131	10/2/2018 1:54:18	60.6	85.4	65.4	56.5	63.2	62.6	60.2	57.9	57.5	1,148,154	346,736,850	3,467,369	446,684	2,089,296	1,819,701	1,047,129	616,595	562,341
132	10/2/2018 1:59:18	61.1	85.9	65.7	56.3	64.3	63.6	60.4	57.9	57.5	1,288,250	389,045,145	3,715,352	426,580	2,691,535	2,290,868	1,096,478	616,595	562,341
133	10/2/2018 2:04:18	62.4	87.2	69.1	57.4	66.1	65	61.5	59.3	58.8	1,737,801	524,807,460	8,128,305	549,541	4,073,803	3,162,278	1,412,538	851,138	758,578
134	10/2/2018 2:09:18	62	86.8	67.9	56.2	65.6	64.9	60.8	57.7	57.2	1,584,893	478,630,092	6,165,950	416,869	3,630,781	3,090,295	1,202,264	588,844	524,807
135	10/2/2018 2:14:18	63.3	88.1	77.5	55.9	65.8	65.1	61.3	57.3	56.9	2,137,962	645,654,229	56,234,133	389,045	3,801,894	3,235,937	1,348,963	537,032	489,779
136	10/2/2018 2:19:18	61	85.8	67.1	55.9	64.1	63.3	60.5	57.2	56.6	1,258,925	380,189,396	5,128,614	389,045	2,570,396	2,137,962	1,122,018	524,807	457,088
137	10/2/2018 2:24:18	61.2	85.9	65.7	54.6	63.9	63.5	60.7	57.5	56	1,318,257	389,045,145	3,715,352	288,403	2,454,709	2,238,721	1,174,898	562,341	398,107
138	10/2/2018 2:29:18	60	84.7	64.8	54.7	63.3	62.4	59	56.8	56.2	1,000,000	295,120,923	3,019,952	295,121	2,137,962	1,737,801	794,328	478,630	416,869
139	10/2/2018 2:34:18	61.4	86.2	65.7	55.7	64.8	64.3	60.5	58.1	57.3	1,380,384	416,869,383	3,715,352	371,535	3,019,952	2,691,535	1,122,018	645,654	537,032
140	10/2/2018 2:39:18	61	85.8	65.5	54.6	64	63.6	60.8	56.7	56	1,258,925	380,189,396	3,548,134	288,403	2,511,886	2,290,868	1,202,264	467,735	398,107
141	10/2/2018 2:44:18	61.1	85.8	65.3	55.5	64	63.5	60.5	58.4	57.5	1,288,250	380,189,396	3,388,442	354,813	2,511,886	2,238,721	1,122,018	691,831	562,341
142	10/2/2018 2:49:18	60.4	85.2	67.2	54.6	64.5	62.5	59.3	55.8	55.5	1,096,478	331,131,121	5,248,075	288,403	2,818,383	1,778,279	851,138	380,189	354,813
143	10/2/2018 2:54:18	62.5	87.2	66.9	57.3	65.6	64.7	62.4	58.7	58.2	1,778,279	524,807,460	4,897,788	537,032	3,630,781	2,951,209	1,737,801	741,310	660,693
144	10/2/2018 2:59:18	62.2	87	68.1	58.1	65.5	64.6	61.4	59.7	59.2	1,659,587	501,187,234	6,456,542	645,654	3,548,134	2,884,032	1,380,384	933,254	831,764
145	10/2/2018 3:04:18	62.2	87	68.8	56.5	65.8	65.1	61.4	58.3	57.4	1,659,587	501,187,234	7,585,776	446,684	3,801,894	3,235,937	1,380,384	676,083	549,541
146	10/2/2018 3:09:18	62.2	87	70.6	56.9	65.3	64.2	61.4	58.2	57.7	1,659,587	501,187,234	11,481,536	489,779	3,388,442	2,630,268	1,380,384	660,693	588,844
147	10/2/2018 3:14:18	61.9	86.6	65.6	56.4	64.5	63.5	61.7	58.6	58.2	1,548,817	457,088,190	3,630,781	436,516	2,818,383	2,238,721	1,479,108	724,436	660,693
148	10/2/2018 3:19:18	62.2	87	66.2	56.4	65	64.5	61.7	58.9	58	1,659,587	501,187,234	4,168,694	436,516	3,162,278	2,818,383	1,479,108	776,247	630,957
149	10/2/2018 3:24:18	61.6	86.3	65.4	56.6	64	63.6	61.3	58.9	58.6	1,445,440	426,579,519	3,467,369	457,088	2,511,886	2,290,868	1,348,963	776,247	724,436
150	10/2/2018 3:29:18	62.7	87.5	67.5	57	66	65.1	62.2	59.4	58.6	1,862,087	562,341,325	5,623,413	501,187	3,981,072	3,235,937	1,659,587	870,964	724,436
151	10/2/2018 3:34:18	62.5	87.3	67.5	56.5	65.8	65.1	62.1	58.3	57.7	1,778,279	537,031,796	5,623,413	446,684	3,801,894	3,235,937	1,621,810	676,083	588,844
152	10/2/2018 3:39:18	62.4	87.2	67.6	55.9	65.9	64.7	61.7	59	58.5	1,737,801	524,807,460	5,754,399	389,045	3,890,451	2,951,209	1,479,108	794,328	707,946
153	10/2/2018 3:44:18	61.8	86.6	66.4	55.6	64.7	64.2	61.5	58.3	57.8	1,513,561	457,088,190	4,365,158	363,078	2,951,209	2,630,268	1,412,538	676,083	602,560
154	10/2/2018 3:49:18	63.5	88.3	68.3	58.1	66.4	65.8	63.2	60.6	59.4	2,238,721	676,082,975	6,760,830	645,654	4,365,158	3,801,894	2,089,296	1,148,154	870,964
155	10/2/2018 3:54:18	62.5	87.3	67.1	55.8	65.2	64.6	62.3	59.3	58.4	1,778,279	537,031,796	5,128,614	380,189	3,311,311	2,884,032	1,698,244	851,138	691,831
156	10/2/2018 3:59:18	61.9	86.6	65.9	57	64.3	63.7	61.7	58.5	57.9	1,548,817	457,088,190	3,890,451	501,187	2,691,535	2,344,229	1,479,108	707,946	616,595
157	10/2/2018 4:04:18	62	86.8	66.2	57.2	65.3	64.7	61.4	58.6	58.2	1,584,893	478,630,092	4,168,694	524,807	3,388,442	2,951,209	1,380,384	724,436	660,693
158	10/2/2018 4:09:18	62.4	87.2	66.7	58.9	65.1	64.4	62.1	60.2	59.7	1,737,801	524,807,460	4,677,351	776,247	3,235,937	2,754,229	1,621,810	1,047,129	933,254
159	10/2/2018 4:14:18	63.2	88	68.6	58.9	65.9	65.1	62.8	60.1	59.9	2,089,296	630,957,344	7,244,360	776,247	3,890,451	3,235,937	1,905,461	1,023,293	977,237

Appendix I - Measurement LT-1

Address	Start Time	Leq (dBA)	SEL (dBA)	Lmax (dBA)	Lmin (dBA)	L5 (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	L95 (dBA)	Leq (Energy)	LE (SEL) (Energy)	Lmax (Energy)	Lmin (Energy)	L5 (Energy)	L10 (Energy)	L50 (Energy)	L90 (Energy)	L95 (Energy)
160	10/2/2018 4:19:18	63.3	88.1	66	58.8	65.2	64.8	63.3	61.1	60.6	2,137,962	645,654,229	3,981,072	758,578	3,311,311	3,019,952	2,137,962	1,288,250	1,148,154
161	10/2/2018 4:24:18	63.6	88.4	66.1	60.8	65.1	64.8	63.5	61.8	61.5	2,290,868	691,830,971	4,073,803	1,202,264	3,235,937	3,019,952	2,238,721	1,513,561	1,412,538
162	10/2/2018 4:29:18	64.8	89.5	70.6	59.8	67.2	66.5	64.5	62.2	61.7	3,019,952	891,250,938	11,481,536	954,993	5,248,075	4,466,836	2,818,383	1,659,587	1,479,108
163	10/2/2018 4:34:18	64.2	88.9	66.7	61.5	65.9	65.5	64	62.8	62.3	2,630,268	776,247,117	4,677,351	1,412,538	3,890,451	3,548,134	2,511,886	1,905,461	1,698,244
164	10/2/2018 4:39:18	65	89.8	68.7	60.9	66.8	66.4	64.9	62.9	62.2	3,162,278	954,992,586	7,413,102	1,230,269	4,786,301	4,365,158	3,090,295	1,949,845	1,659,587
165	10/2/2018 4:44:18	64.4	89.2	66.8	61.6	66.1	65.8	64.4	62.8	62.4	2,754,229	831,763,771	4,786,301	1,445,440	4,073,803	3,801,894	2,754,229	1,905,461	1,737,801
166	10/2/2018 4:49:18	63.8	88.5	68.1	59	66.1	65.5	63.5	61.5	61.1	2,398,833	707,945,784	6,456,542	794,328	4,073,803	3,548,134	2,238,721	1,412,538	1,288,250
167	10/2/2018 4:54:18	64.6	89.3	67.7	60.7	66.7	66.2	64.6	61.8	61.5	2,884,032	851,138,038	5,888,437	1,174,898	4,677,351	4,168,694	2,884,032	1,513,561	1,412,538
168	10/2/2018 4:59:18	64.6	89.4	67	61.4	66.3	65.9	64.5	63	62.7	2,884,032	870,963,590	5,011,872	1,380,384	4,265,795	3,890,451	2,818,383	1,995,262	1,862,087
169	10/2/2018 5:04:18	65.1	89.9	68.8	62.8	66.3	66.1	65	63.9	63.6	3,235,937	977,237,221	7,585,776	1,905,461	4,265,795	4,073,803	3,162,278	2,454,709	2,290,868
170	10/2/2018 5:09:18	65.2	89.9	69.1	62.4	66.7	66.3	65	63.7	63.2	3,311,311	977,237,221	8,128,305	1,737,801	4,677,351	4,265,795	3,162,278	2,344,229	2,089,296
171	10/2/2018 5:14:18	65.2	89.9	67.4	60.1	66.9	66.5	65.3	63.5	62.9	3,311,311	977,237,221	5,495,409	1,023,293	4,897,788	4,466,836	3,388,442	2,238,721	1,949,845
172	10/2/2018 5:19:18	65.4	90.2	69.9	62.1	66.9	66.5	65.4	63.8	63.4	3,467,369	1,047,128,548	9,772,372	1,621,810	4,897,788	4,466,836	3,467,369	2,398,833	2,187,762
173	10/2/2018 5:24:18	65.3	90.1	67.4	62.5	66.7	66.4	65.3	63.8	63.4	3,388,442	1,023,292,992	5,495,409	1,778,279	4,677,351	4,365,158	3,388,442	2,398,833	2,187,762
174	10/2/2018 5:29:18	65.6	90.4	68.4	63.4	67.2	66.8	65.5	64.4	64	3,630,781	1,096,478,196	6,918,310	2,187,762	5,248,075	4,786,301	3,548,134	2,754,229	2,511,886
175	10/2/2018 5:34:18	65.7	90.5	68	63.2	67.4	67.1	65.4	64.4	64.1	3,715,352	1,122,018,454	6,309,573	2,089,296	5,495,409	5,128,614	3,467,369	2,754,229	2,570,396
176	10/2/2018 5:39:18	66.1	90.9	68.1	63.8	67.4	67.2	65.9	65	64.8	4,073,803	1,230,268,771	6,456,542	2,398,833	5,495,409	5,248,075	3,890,451	3,162,278	3,019,952
177	10/2/2018 5:44:18	65.7	90.5	68.3	62.3	67.2	66.8	65.7	64.1	63.2	3,715,352	1,122,018,454	6,760,830	1,698,244	5,248,075	4,786,301	3,715,352	2,570,396	2,089,296
178	10/2/2018 5:49:18	65.7	90.4	69.8	63	67	66.6	65.6	64.5	63.9	3,715,352	1,096,478,196	9,549,926	1,995,262	5,011,872	4,570,882	3,630,781	2,818,383	2,454,709
179	10/2/2018 5:54:18	65	89.8	66.9	62.4	66.4	66.2	65	63.7	63.5	3,162,278	954,992,586	4,897,788	1,737,801	4,365,158	4,168,694	3,162,278	2,344,229	2,238,721
180	10/2/2018 5:59:18	65.4	90.2	67.5	63.6	66.5	66.3	65.3	64.5	64.3	3,467,369	1,047,128,548	5,623,413	2,290,868	4,466,836	4,265,795	3,388,442	2,818,383	2,691,535
181	10/2/2018 6:04:18	65.2	89.9	67.8	62.3	66.4	66.1	65.2	63.7	63.4	3,311,311	977,237,221	6,025,596	1,698,244	4,365,158	4,073,803	3,311,311	2,344,229	2,187,762
182	10/2/2018 6:09:18	65.5	90.3	67.9	64	66.7	66.5	65.3	64.6	64.4	3,548,134	1,071,519,305	6,165,950	2,511,886	4,677,351	4,466,836	3,388,442	2,884,032	2,754,229
183	10/2/2018 6:14:18	65.7	90.5	67.8	63.6	66.6	66.4	65.7	64.9	64.7	3,715,352	1,122,018,454	6,025,596	2,290,868	4,570,882	4,365,158	3,715,352	3,090,295	2,951,209
184	10/2/2018 6:19:18	65.1	89.9	66.5	63.6	66.2	65.9	65.1	64.4	64.2	3,235,937	977,237,221	4,466,836	2,290,868	4,168,694	3,890,451	3,235,937	2,754,229	2,630,268
185	10/2/2018 6:24:18	64.9	89.7	67.3	63.2	66.1	65.7	64.9	64.1	63.8	3,090,295	933,254,301	5,370,318	2,089,296	4,073,803	3,715,352	3,090,295	2,570,396	2,398,833
186	10/2/2018 6:29:18	64.8	89.6	67.8	63	66	65.7	64.6	63.8	63.7	3,019,952	912,010,839	6,025,596	1,995,262	3,981,072	3,715,352	2,884,032	2,398,833	2,344,229
187	10/2/2018 6:34:18	65	89.7	67	63.4	66.2	65.7	64.9	64.2	64	3,162,278	933,254,301	5,011,872	2,187,762	4,168,694	3,715,352	3,090,295	2,630,268	2,511,886
188	10/2/2018 6:39:18	64.1	88.9	65.3	63	64.8	64.7	64.1	63.6	63.4	2,570,396	776,247,117	3,388,442	1,995,262	3,019,952	2,951,209	2,570,396	2,290,868	2,187,762
189	10/2/2018 6:44:18	64.3	89.1	66	62.3	65.3	65.1	64.3	63.3	63	2,691,535	812,830,516	3,981,072	1,698,244	3,388,442	3,235,937	2,691,535	2,137,962	1,995,262
190	10/2/2018 6:49:18	64.1	88.9	66.6	61.9	65.3	64.8	64	63.1	62.8	2,570,396	776,247,117	4,570,882	1,548,817	3,388,442	3,019,952	2,511,886	2,041,738	1,905,461
191	10/2/2018 6:54:18	64.6	89.4	66.8	62.3	65.8	65.6	64.6	63.5	62.9	2,884,032	870,963,590	4,786,301	1,698,244	3,801,894	3,630,781	2,884,032	2,238,721	1,949,845
192	10/2/2018 6:59:18	64.3	89.1	65.7	62.4	65.1	64.9	64.3	63.6	63.3	2,691,535	812,830,516	3,715,352	1,737,801	3,235,937	3,090,295	2,691,535	2,290,868	2,137,962
193	10/2/2018 7:04:18	64	88.8	66.6	62.3	65.4	64.9	63.9	63.1	62.8	2,511,886	758,577,575	4,570,882	1,698,244	3,467,369	3,090,295	2,454,709	2,041,738	1,905,461
194	10/2/2018 7:09:18	64.1	88.8	66.1	62	65.6	65.2	63.9	62.8	62.6	2,570,396	758,577,575	4,073,803	1,584,893	3,630,781	3,311,311	2,454,709	1,905,461	1,819,701
195	10/2/2018 7:14:18	64.1	88.9	65.7	63.1	65	64.7	64.1	63.6	63.4	2,570,396	776,247,117	3,715,352	2,041,738	3,162,278	2,951,209	2,570,396	2,290,868	2,187,762
196	10/2/2018 7:19:18	64	88.7	65.5	61.7	65	64.8	63.9	63.2	63	2,511,886	741,310,241	3,548,134	1,479,108	3,162,278	3,019,952	2,454,709	2,089,296	1,995,262
197	10/2/2018 7:24:18	63.9	88.7	65.7	62.6	65	64.7	63.8	63.3	63	2,454,709	741,310,241	3,715,352	1,819,701	3,162,278	2,951,209	2,398,833	2,137,962	1,995,262
198	10/2/2018 7:29:18	64.7	89.5	72.3	62.4	66.7	65.3	64.1	63.2	63.1	2,951,209	891,250,938	16,982,437	1,737,801	4,677,351	3,388,442	2,570,396	2,089,296	2,041,738
199	10/2/2018 7:34:18	63.7	88.4	65.6	60.7	64.9	64.7	63.6	62.7	62.4	2,344,229	691,830,971	3,630,781	1,174,898	3,090,295	2,951,209	2,290,868	1,862,087	1,737,801
200	10/2/2018 7:39:18	63.8	88.6	65.1	61.6	64.6	64.5	63.8	63	62.7	2,398,833	724,435,960	3,235,937	1,445,440	2,884,032	2,818,383	2,398,833	1,995,262	1,862,087
201	10/2/2018 7:44:18	64.1	88.9	65.5	62.6	64.9	64.7	64.1	63.3	63.1	2,570,396	776,247,117	3,548,134	1,819,701	3,090,295	2,951,209	2,570,396	2,137,962	2,041,738
202	10/2/2018 7:49:18	63.6	88.3	65.1	62.1	64.4	64.3	63.6	62.8	62.6	2,290,868	676,082,975	3,235,937	1,621,810	2,754,229	2,691,535	2,290,868	1,905,461	1,819,701
203	10/2/2018 7:54:18	63.9	88.7	71.5	61.2	67.5	64.6	62.9	62	61.8	2,454,709	741,310,241	14,125,375	1,318,257	5,623,413	2,884,032	1,949,845	1,584,893	1,513,561
204	10/2/2018 7:59:18	67.6	92.4	77.7	61.7	72.7	71.1	64.9	62.7	62	**2,211,773**	**667,944,625**	**12,115,350**	**1,203,478**	**4,931,314**	**2,607,853**	**1,787,419**	**1,444,015**	**1,376,332**
205	10/2/2018 8:04:18	66.2	91	73.9	61.6	68.4	68	65.7	62.8	62.5	**1,968,836**	**594,579,008**	**10,105,325**	**1,088,699**	**4,239,215**	**2,331,675**	**1,624,994**	**1,303,136**	**1,239,103**
206	10/2/2018 8:09:18	69.6	94.3	77.7	61.4	75.5	74	64.8	63.1	62.5	**1,725,900**	**521,213,392**	**8,095,300**	**973,920**	**3,547,117**	**2,055,496**	**1,462,568**	**1,162,258**	**1,101,874**
207	10/2/2018 8:14:18	69.3	94.1	73	63	71.2	70.7	69.3	66.8	65.6	**1,482,963**	**447,847,775**	**6,085,274**	**859,141**	**2,855,018**	**1,779,318**	**1,300,143**	**1,021,380**	**964,645**
208	10/2/2018 8:19:18	77.9	102.6	95.4	59.3	80.5	75.6	68.5	60.4	59.9	**1,240,027**	**374,482,158**	**4,075,249**	**744,362**	**2,162,919**	**1,503,140**	**1,137,717**	**880,501**	**827,416**
209	10/2/2018 8:24:18	60	84.8	63.2	58	61.7	60.9	59.9	58.7	58.4	1,000,000	301,995,172	2,089,296	630,957	1,479,108	1,230,269	977,237	741,310	691,831
210	10/2/2018 8:29:18	60.1	84.9	64.9	56.1	61.8	61.2	60.1	57.6	56.8	1,023,293	309,029,543	3,090,295	407,380	1,513,561	1,318,257	1,023,293	575,440	478,630
211	10/2/2018 8:34:18	59.4	84.1	62	57.6	60.7	60.4	59.3	58.2	58	870,964	257,039,578	1,584,893	575,440	1,174,898	1,096,478	851,138	660,693	630,957
212	10/2/2018 8:39:18	59.3	84.1	64.7	56.5	61.8	60.9	58.7	57.4	57.1	851,138	257,039,578	2,951,209	446,684	1,513,561	1,230,269	741,310	549,541	512,861
213	10/2/2018 8:44:18	59.9	84.6	63.2	58	61.5	61.3	59.6	58.8	58.5	977,237	288,403,150	2,089,296	630,957	1,412,538	1,348,963	912,011	758,578	707,946
214	10/2/2018 8:49:18	59.7	84.4	64.5	55.1	62.9	61.4	59.6	56.2	55.9	933,254	275,422,870	2,818,383	323,594	1,949,845	1,380,384	912,011	416,869	389,045
215	10/2/2018 8:54:18	59	83.8	61.7	56.6	61	59.9	58.8	57.9	57.4	794,328	239,883,292	1,479,108	457,088	1,258,925	977,237	758,578	616,595	549,541
216	10/2/2018 8:59:18	60	84.7	61.9	57.8	61.3	61	60	58.6	58.4	1,000,000	295,120,923	1,548,817	602,560	1,348,963	1,258,925	1,000,000	724,436	691,831
217	10/2/2018 9:04:18	60.2	85	64.3	57	62	61.5	60.1	58	57.6	1,047,129	316,227,766	2,691,535	501,187	1,584,893	1,412,538	1,023,293	630,957	575,440
218	10/2/2018 9:09:18	60.3	85.1	66	58	62.6	61.3	59.8	58.7	58.5	1,071,519	323,593,657	3,981,072	630,957	1,819,701	1,348,963	954,993	741,310	707,946
219	10/2/2018 9:14:18	63	87.8	73.7	57.9	67.8	65.4	60.7	59.2	58.6	1,995,262	602,559,586	23,442,288	616,595	6,025,596	3,467,369	1,174,898	831,764	724,436
220	10/2/2018 9:19:18	60.1	84.9	62.8	57.6	61.6	61.4	59.9	58.4	58.2	1,023,293	309,029,543	1,905,461	575,440	1,445,440	1,380,384	977,237	691,831	660,693

Appendix I - Measurement LT-1

Address	Start Time	Leq (dBA)	SEL (dBA)	Lmax (dBA)	Lmin (dBA)	L5 (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	L95 (dBA)	Leq (Energy)	LE (SEL) (Energy)	Lmax (Energy)	Lmin (Energy)	L5 (Energy)	L10 (Energy)	L50 (Energy)	L90 (Energy)	L95 (Energy)
221	10/2/2018 9:24:18	60.4	85.2	63.8	57.4	62.8	62	60	58.9	58.1	1,096,478	331,131,121	2,398,833	549,541	1,905,461	1,584,893	1,000,000	776,247	645,654
222	10/2/2018 9:29:18	62	86.8	68	59.8	65.3	63.6	61.3	60.4	60.2	1,584,893	478,630,092	6,309,573	954,993	3,388,442	2,290,868	1,348,963	1,096,478	1,047,129
223	10/2/2018 9:34:18	63.1	87.9	66.3	60.4	64.6	64.2	63	62	61.6	2,041,738	616,595,002	4,265,795	1,096,478	2,884,032	2,630,268	1,995,262	1,584,893	1,445,440
224	10/2/2018 9:39:18	63	87.7	72.7	60.2	64.2	63.9	62.7	61.3	61	1,995,262	588,843,655	18,620,871	1,047,129	2,630,268	2,454,709	1,862,087	1,348,963	1,258,925
225	10/2/2018 9:44:18	63.8	88.6	65.4	62.5	64.5	64.4	63.8	63.1	63	2,398,833	724,435,960	3,467,369	1,778,279	2,818,383	2,754,229	2,398,833	2,041,738	1,995,262
226	10/2/2018 9:49:18	70.5	95.3	74.9	62.1	73.9	73.4	70	63.7	63.2	2,817,575	850,894,163	4,411,616	1,856,034	3,487,639	3,290,119	2,817,575	2,321,873	2,217,455
227	10/2/2018 9:54:18	75.4	100.2	84.2	65.9	82.2	79	72.9	68.3	66.7	3,236,318	977,352,365	5,355,864	1,933,788	4,156,896	3,826,008	3,236,318	2,602,008	2,439,647
228	10/2/2018 9:59:18	76.7	101.5	84.9	65.5	82.5	81.1	74.3	66.9	66.6	3,655,060	1,103,810,568	6,300,112	2,011,542	4,826,152	4,361,898	3,655,060	2,882,143	2,661,839
229	10/2/2018 10:04:18	66.1	90.9	68.6	63.2	67.4	66.9	66.1	65	64.6	4,073,803	1,230,268,771	7,244,360	2,089,296	5,495,409	4,897,788	4,073,803	3,162,278	2,884,032
230	10/2/2018 10:09:18	65	89.8	66.4	62.6	66	65.9	65	63.8	63.5	3,162,278	954,992,586	4,365,158	1,819,701	3,981,072	3,890,451	3,162,278	2,398,833	2,238,721
231	10/2/2018 10:14:18	64	88.8	66.9	60.8	65.5	65.2	63.8	62.6	62.4	2,511,886	758,577,575	4,897,788	1,202,264	3,548,134	3,311,311	2,398,833	1,819,701	1,737,801
232	10/2/2018 10:19:18	64	88.8	67.1	61.7	65.7	65.1	63.9	62.7	62.5	2,511,886	758,577,575	5,128,614	1,479,108	3,715,352	3,235,937	2,454,709	1,862,087	1,778,279
233	10/2/2018 10:24:18	65.3	90.1	73.4	61.5	70.8	67.7	63.4	62.5	62.1	3,388,442	1,023,292,992	21,877,616	1,412,538	12,022,644	5,888,437	2,187,762	1,778,279	1,621,810
234	10/2/2018 10:29:18	63.8	88.6	66.5	61.7	65.2	65.1	63.6	62.6	62.4	2,398,833	724,435,960	4,466,836	1,479,108	3,311,311	3,235,937	2,290,868	1,819,701	1,737,801
235	10/2/2018 10:34:18	65.5	90.3	72.1	62.5	68.3	66.9	64.8	63.8	63.4	3,548,134	1,071,519,305	16,218,101	1,778,279	6,760,830	4,897,788	3,019,952	2,398,833	2,187,762
236	10/2/2018 10:39:18	65.3	90.1	69.5	63.5	67.3	66	65	64.2	64	3,388,442	1,023,292,992	8,912,509	2,238,721	5,370,318	3,981,072	3,162,278	2,630,268	2,511,886
237	10/2/2018 10:44:18	64.7	89.5	67.5	61.2	66.1	65.8	64.7	63.4	62.8	2,951,209	891,250,938	5,623,413	1,318,257	4,073,803	3,801,894	2,951,209	2,187,762	1,905,461
238	10/2/2018 10:49:18	64.4	89.1	74.9	60.5	66.6	64.6	63.1	61.8	61.6	2,754,229	812,830,516	30,902,954	1,122,018	4,570,882	2,884,032	2,041,738	1,513,561	1,445,440
239	10/2/2018 10:54:18	63.7	88.5	71.7	60.6	65.3	64.9	63.5	61.7	61.3	2,344,229	707,945,784	14,791,084	1,148,154	3,388,442	3,090,295	2,238,721	1,479,108	1,348,963
240	10/2/2018 10:59:18	63.5	88.3	66.5	61.5	65	64.5	63.4	62.3	62	2,238,721	676,082,975	4,466,836	1,412,538	3,162,278	2,818,383	2,187,762	1,698,244	1,584,893
241	10/2/2018 11:04:18	63.3	88	66	60	65.1	64.5	63.2	61.8	61.5	2,137,962	630,957,344	3,981,072	1,000,000	3,235,937	2,818,383	2,089,296	1,513,561	1,412,538
242	10/2/2018 11:09:18	63.4	88.2	65.9	60.5	64.9	64.6	63.3	62.2	61.6	2,187,762	660,693,448	3,890,451	1,122,018	3,090,295	2,884,032	2,137,962	1,659,587	1,445,440
243	10/2/2018 11:14:18	64.1	88.9	67.3	61.5	65.9	65.4	63.9	62.7	62.3	2,570,396	776,247,117	5,370,318	1,412,538	3,890,451	3,467,369	2,454,709	1,862,087	1,698,244
244	10/2/2018 11:19:18	63.8	88.6	70.9	60.9	66.1	65.2	63.1	62.1	61.9	2,398,833	724,435,960	12,302,688	1,230,269	4,073,803	3,311,311	2,041,738	1,621,810	1,548,817
245	10/2/2018 11:24:18	63.3	88	65.6	60.4	64.7	64.3	63.3	61.8	61.2	2,137,962	630,957,344	3,630,781	1,096,478	2,951,209	2,691,535	2,137,962	1,513,561	1,318,257
246	10/2/2018 11:29:18	62.9	87.7	64.8	59.6	64.1	63.8	62.9	61.9	61.4	1,949,845	588,843,655	3,019,952	912,011	2,570,396	2,398,833	1,949,845	1,548,817	1,380,384
247	10/2/2018 11:34:18	62.6	87.4	65.2	60	64.1	63.7	62.5	61.2	60.9	1,819,701	549,540,874	3,311,311	1,000,000	2,570,396	2,344,229	1,778,279	1,318,257	1,230,269
248	10/2/2018 11:39:18	63.4	88.2	65.7	61.4	65	64.6	63.2	62.2	62	2,187,762	660,693,448	3,715,352	1,380,384	3,162,278	2,884,032	2,089,296	1,659,587	1,584,893
249	10/2/2018 11:44:18	63.5	88.3	67.1	60.2	65.5	64.8	63.4	62	61.5	2,238,721	676,082,975	5,128,614	1,047,129	3,548,134	3,019,952	2,187,762	1,584,893	1,412,538
250	10/2/2018 11:49:18	63.4	88.1	67.3	61.5	65.1	64.4	63.1	62.1	61.9	2,187,762	645,654,229	5,370,318	1,412,538	3,235,937	2,754,229	2,041,738	1,621,810	1,548,817
251	10/2/2018 11:54:18	63.7	88.5	66.5	60.8	65.7	65.3	63.4	62.1	61.8	2,344,229	707,945,784	4,466,836	1,202,264	3,715,352	3,388,442	2,187,762	1,621,810	1,513,561
252	10/2/2018 11:59:18	63.8	88.5	67.4	61.6	65.2	64.8	63.6	62.6	62.2	2,398,833	707,945,784	5,495,409	1,445,440	3,311,311	3,019,952	2,290,868	1,819,701	1,659,587
253	10/2/2018 12:04:18	62.2	87	64.4	60.2	63.7	63.2	62.1	61.1	60.9	1,659,587	501,187,234	2,754,229	1,047,129	2,344,229	2,089,296	1,621,810	1,288,250	1,230,269
254	10/2/2018 12:09:18	63.3	88.1	68.1	59.8	65.7	65.1	62.7	61.3	61	2,137,962	645,654,229	6,456,542	954,993	3,715,352	3,235,937	1,862,087	1,348,963	1,258,925
255	10/2/2018 12:14:18	62.7	87.5	66.1	57.2	64.9	64.3	62.6	60.6	59.8	1,862,087	562,341,325	4,073,803	524,807	3,090,295	2,691,535	1,819,701	1,148,154	954,993
256	10/2/2018 12:19:18	63.2	88	65.4	61.4	64.4	64.1	63.1	62.1	61.9	2,089,296	630,957,344	3,467,369	1,380,384	2,754,229	2,570,396	2,041,738	1,621,810	1,548,817
257	10/2/2018 12:24:18	63.7	88.5	66.7	61.2	65.3	64.8	63.6	62.4	61.9	2,344,229	707,945,784	4,677,351	1,318,257	3,388,442	3,019,952	2,290,868	1,737,801	1,548,817
258	10/2/2018 12:29:18	66.1	90.9	78.5	60.2	72.4	66.5	63.2	61.5	61.1	2,265,995	684,319,616	5,960,856	1,075,010	3,979,662	3,204,197	2,120,356	1,543,382	1,348,485
259	10/2/2018 12:34:18	63.4	88.2	68.6	59.2	66.6	65.3	62.9	61.3	60.6	2,187,762	660,693,448	7,244,360	831,764	4,570,882	3,388,442	1,949,845	1,348,963	1,148,154
260	10/2/2018 12:39:18	63.1	87.8	66.8	60.4	65.2	64.5	62.8	61.4	61	2,041,738	602,559,586	4,786,301	1,096,478	3,311,311	2,818,383	1,905,461	1,380,384	1,258,925
261	10/2/2018 12:44:18	63.3	88.1	68.5	60.4	65.6	65.1	62.7	61.4	61.1	2,137,962	645,654,229	7,079,458	1,096,478	3,630,781	3,235,937	1,862,087	1,380,384	1,288,250
262	10/2/2018 12:49:18	63.4	88.2	66	60.9	65.1	64.8	63.3	61.8	61.3	2,187,762	660,693,448	3,981,072	1,230,269	3,235,937	3,019,952	2,137,962	1,513,561	1,348,963
263	10/2/2018 12:54:18	63.5	88.2	66.1	61.4	64.9	64.5	63.3	62.5	62.2	2,238,721	660,693,448	4,073,803	1,380,384	3,090,295	2,818,383	2,137,962	1,778,279	1,659,587
264	10/2/2018 12:59:18	63.6	88.4	70	61	66.4	65	63.2	61.9	61.7	2,290,868	691,830,971	10,000,000	1,258,925	4,365,158	3,162,278	2,089,296	1,548,817	1,479,108
265	10/2/2018 13:04:18	63.5	88.3	67.9	60.1	65	64.7	63.3	62	61.6	2,238,721	676,082,975	6,165,950	1,023,293	3,162,278	2,951,209	2,137,962	1,584,893	1,445,440
266	10/2/2018 13:09:18	62.9	87.7	66.7	60.8	64.5	64.2	62.6	61.6	61.4	1,949,845	588,843,655	4,677,351	1,202,264	2,818,383	2,630,268	1,819,701	1,445,440	1,380,384
267	10/2/2018 13:14:18	63.1	87.9	66.2	60.9	64.5	64.2	63	61.7	61.3	2,041,738	616,595,002	4,168,694	1,230,269	2,818,383	2,630,268	1,995,262	1,479,108	1,348,963
268	10/2/2018 13:19:18	63.1	87.9	67.1	59.7	65.2	64.6	62.9	60.9	60.4	2,041,738	616,595,002	5,128,614	933,254	3,311,311	2,884,032	1,949,845	1,230,269	1,096,478
269	10/2/2018 13:24:18	62.8	87.6	66.6	60.4	64.7	64.2	62.7	61.2	61	1,905,461	575,439,937	4,570,882	1,096,478	2,951,209	2,630,268	1,862,087	1,318,257	1,258,925
270	10/2/2018 13:29:18	62.5	87.3	66.4	60	64.1	63.7	62.5	61.1	60.7	1,778,279	537,031,796	4,365,158	1,000,000	2,570,396	2,344,229	1,778,279	1,288,250	1,174,898
271	10/2/2018 13:34:18	62.7	87.5	65.4	60.4	63.9	63.6	62.7	61.6	61.2	1,862,087	562,341,325	3,467,369	1,096,478	2,454,709	2,290,868	1,862,087	1,445,440	1,318,257
272	10/2/2018 13:39:18	66.3	91	80	59.8	68.7	63.8	62.9	61.3	60.8	1,928,675	575,592,490	3,389,340	1,109,248	2,604,469	2,430,632	1,883,774	1,462,274	1,365,397
273	10/2/2018 13:44:18	63	87.7	65.2	60.5	64.4	64.1	62.8	61.7	61.5	1,995,262	588,843,655	3,311,311	1,122,018	2,754,229	2,570,396	1,905,461	1,479,108	1,412,538
274	10/2/2018 13:49:18	63.1	87.9	69.5	59.9	65.6	64.1	62.7	61.3	61	2,041,738	616,595,002	8,912,509	977,237	3,630,781	2,570,396	1,862,087	1,348,963	1,258,925
275	10/2/2018 13:54:18	62.9	87.7	67.1	60.5	64.2	63.9	62.7	61.5	61.2	1,949,845	588,843,655	5,128,614	1,122,018	2,630,268	2,454,709	1,862,087	1,412,538	1,318,257
276	10/2/2018 13:59:18	63.7	88.5	69.5	60.4	66.3	65.5	63.1	61.8	61.5	2,344,229	707,945,784	8,912,509	1,096,478	4,265,795	3,548,134	2,041,738	1,513,561	1,412,538
277	10/2/2018 14:04:18	63.7	88.4	66.8	60.8	65.1	64.9	63.6	62.4	61.8	2,344,229	691,830,971	4,786,301	1,202,264	3,235,937	3,090,295	2,290,868	1,737,801	1,513,561
278	10/2/2018 14:09:18	63.1	87.9	65.2	60.8	64.5	64	63.1	62.1	61.7	2,041,738	616,595,002	3,311,311	1,202,264	2,818,383	2,511,886	2,041,738	1,621,810	1,479,108
279	10/2/2018 14:14:18	63.2	88	65.6	61.5	64.7	64.2	63.1	62.2	62	2,089,296	630,957,344	3,630,781	1,412,538	2,951,209	2,630,268	2,041,738	1,659,587	1,584,893
280	10/2/2018 14:19:18	63.5	88.2	67.1	60.8	65.3	64.7	63.2	61.9	61.7	2,238,721	660,693,448	5,128,614	1,202,264	3,388,442	2,951,209	2,089,296	1,548,817	1,479,108
281	10/2/2018 14:24:18	63.2	87.9	65.1	60.7	64.4	64.1	63.1	62	61.7	2,089,296	616,595,002	3,235,937	1,174,898	2,754,229	2,570,396	2,041,738	1,584,893	1,479,108

Appendix I - Measurement LT-1

Address	Start Time	Leq (dBA)	SEL (dBA)	Lmax (dBA)	Lmin (dBA)	L5 (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	L95 (dBA)	Leq (Energy)	LE (SEL) (Energy)	Lmax (Energy)	Lmin (Energy)	L5 (Energy)	L10 (Energy)	L50 (Energy)	L90 (Energy)	L95 (Energy)
282	10/2/2018 14:29:18	63.7	88.5	66.3	62	65.2	64.7	63.5	62.7	62.4	2,344,229	707,945,784	4,265,795	1,584,893	3,311,311	2,951,209	2,238,721	1,862,087	1,737,801
283	10/2/2018 14:34:18	63.1	87.9	69.4	60.4	66.6	65	62.3	61.3	60.9	2,041,738	616,595,002	8,709,636	1,096,478	4,570,882	3,162,278	1,698,244	1,348,963	1,230,269
284	10/2/2018 14:39:18	62.8	87.5	70.9	59.6	64.5	64	62.4	60.8	60.5	1,905,461	562,341,325	12,302,688	912,011	2,818,383	2,511,886	1,737,801	1,202,264	1,122,018
285	10/2/2018 14:44:18	62.8	85.6	67.8	61	64	63.7	62.7	61.7	61.6	1,905,461	363,078,055	6,025,596	1,258,925	2,511,886	2,344,229	1,862,087	1,479,108	1,445,440
286	10/2/2018 14:49:18	62.8	85.6	67.8	61	64	63.7	62.7	61.7	61.6	1,905,461	363,078,055	6,025,596	1,258,925	2,511,886	2,344,229	1,862,087	1,479,108	1,445,440
287	10/2/2018 14:54:18	62.8	85.6	67.8	61	64	63.7	62.7	61.7	61.6	1,905,461	363,078,055	6,025,596	1,258,925	2,511,886	2,344,229	1,862,087	1,479,108	1,445,440
288	10/2/2018 14:59:18	62.8	85.6	67.8	61	64	63.7	62.7	61.7	61.6	1,905,461	363,078,055	6,025,596	1,258,925	2,511,886	2,344,229	1,862,087	1,479,108	1,445,440
		Leq (RAW)	**SEL (RAW)**	**Lmax (RAW)**	**Lmin (RAW)**	**L5 (RAW)**	**L10 (RAW)**	**L50 (RAW)**	**L90 (RAW)**	**L95 (RAW)**	**Leq (ADJ)**	**SEL (ADJ)**	**Lmax (ADJ)**	**Lmin (ADJ)**	**L5 (ADJ)**	**L10 (ADJ)**	**L50 (ADJ)**	**L90 (ADJ)**	**L95 (ADJ)**
		64.2	**89.0**	**95.4**	**54.1**	**67.2**	**65.9**	**63.3**	**61.5**	**61.1**	**63.1**	**87.9**	**77.9**	**54.1**	**65.2**	**64.5**	**62.9**	**61.4**	**61.0**

Appendix I - Measurement LT-2

Address	Start Time	Leq (dBA)	SEL (dBA)	Lmax (dBA)	Lmin (dBA)	L5 (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	L95 (dBA)	Leq (Energy)	LE (SEL) (Energy)	Lmax (Energy)	Lmin (Energy)	L5 (Energy)	L10 (Energy)	L50 (Energy)	L90 (Energy)	L95 (Energy)
1	10/1/2018 14:12:00	62.9	87.7	70.5	60.6	65	63.9	62.5	61.7	61.4	1,949,845	588,843,655	11,220,185	1,148,154	3,162,278	2,454,709	1,778,279	1,479,108	1,380,384
2	10/1/2018 14:17:00	62.3	87	67.6	60.5	63.3	62.9	62.3	61.2	61.1	1,698,244	501,187,234	5,754,399	1,122,018	2,137,962	1,949,845	1,698,244	1,318,257	1,288,250
3	10/1/2018 14:22:00	62.5	87.2	70.9	59.4	64.4	63.3	61.9	61	60.7	1,778,279	524,807,460	12,302,688	870,964	2,754,229	2,137,962	1,548,817	1,258,925	1,174,898
4	10/1/2018 14:27:00	61.9	86.7	63.6	60.4	62.9	62.6	61.9	61	60.7	1,548,817	467,735,141	2,290,868	1,096,478	1,949,845	1,819,701	1,548,817	1,258,925	1,174,898
5	10/1/2018 14:32:00	62.6	87.4	73	59.7	63.4	63.1	62.3	60.5	60.2	1,819,701	549,540,874	19,952,623	933,254	2,187,762	2,041,738	1,698,244	1,122,018	1,047,129
6	10/1/2018 14:37:00	64.4	89.2	75.7	57.2	72.2	67.9	59.5	58.7	58.2	1,355,476	409,347,177	12,540,618	656,722	1,886,327	1,650,332	1,246,286	869,307	811,284
7	10/1/2018 14:42:00	59.5	84.3	67.1	55.8	62	61	59	57.9	57.6	891,251	269,153,480	5,128,614	380,189	1,584,893	1,258,925	794,328	616,595	575,440
8	10/1/2018 14:47:00	59.4	84.2	64.8	57.2	60.8	60.4	59.2	58.3	57.8	870,964	263,026,799	3,019,952	524,807	1,202,264	1,096,478	831,764	676,083	602,560
9	10/1/2018 14:52:00	59.4	84.1	63.8	57.1	61.8	60.4	59	57.8	57.6	870,964	257,039,578	2,398,833	512,861	1,513,561	1,096,478	794,328	602,560	575,440
10	10/1/2018 14:57:00	59.6	84.3	64.7	57.4	61.5	60.6	59.2	58.6	58.4	912,011	269,153,480	2,951,209	549,541	1,412,538	1,148,154	831,764	724,436	691,831
11	10/1/2018 15:02:00	57.3	82.1	60.7	53.9	59.8	59.4	57	54.3	54.2	537,032	162,181,010	1,174,898	245,471	954,993	870,964	501,187	269,153	263,027
12	10/1/2018 15:07:00	57.3	82.1	62.1	55.2	59.4	58.7	56.8	55.6	55.5	537,032	162,181,010	1,621,810	331,131	870,964	741,310	478,630	363,078	354,813
13	10/1/2018 15:12:00	63.4	88.2	78.2	52.5	69.4	62.8	56.2	53.9	53.6	472,206	142,603,943	1,334,469	297,079	729,904	639,171	438,369	336,054	324,967
14	10/1/2018 15:17:00	56.1	80.9	60.2	54.2	57.7	57.3	56	54.9	54.7	407,380	123,026,877	1,047,129	263,027	588,844	537,032	398,107	309,030	295,121
15	10/1/2018 15:22:00	58.3	83	70.6	54.1	63.9	58.9	55.6	54.7	54.4	676,083	199,526,231	11,481,536	257,040	2,454,709	776,247	363,078	295,121	275,423
16	10/1/2018 15:27:00	56.9	81.6	62.2	54.5	58.6	58.1	56.4	55.1	54.9	489,779	144,543,977	1,659,587	281,838	724,436	645,654	436,516	323,594	309,030
17	10/1/2018 15:32:00	58.2	82.9	66.6	53.7	61.5	60.4	57.3	55.1	54.5	660,693	194,984,460	4,570,882	234,423	1,412,538	1,096,478	537,032	323,594	281,838
18	10/1/2018 15:37:00	58.5	83.3	67	51.9	64	61.7	57	53.3	52.7	707,946	213,796,209	5,011,872	154,882	2,511,886	1,479,108	501,187	213,796	186,209
19	10/1/2018 15:42:00	56.8	81.6	64.2	53.5	60.3	58.7	55.9	54.6	54.2	478,630	144,543,977	2,630,268	223,872	1,071,519	741,310	389,045	288,403	263,027
20	10/1/2018 15:47:00	57.3	82.1	64.1	53.4	60.6	59.1	56.6	54.4	53.8	537,032	162,181,010	2,570,396	218,776	1,148,154	812,831	457,088	275,423	239,883
21	10/1/2018 15:52:00	56.8	81.6	61	54.4	58.9	58.2	56.5	55.2	54.9	478,630	144,543,977	1,258,925	275,423	776,247	660,693	446,684	331,131	309,030
22	10/1/2018 15:57:00	56.9	81.7	61.2	52.2	59.9	59.3	56.6	52.9	52.8	489,779	147,910,839	1,318,257	165,959	977,237	851,138	457,088	194,984	190,546
23	10/1/2018 16:02:00	57	81.7	69.5	52.9	60.5	56.8	55.2	54	53.7	501,187	147,910,839	8,912,509	194,984	1,122,018	478,630	331,131	251,189	234,423
24	10/1/2018 16:07:00	56	80.8	61.1	53.1	57.7	57.2	55.8	54.4	53.8	398,107	120,226,443	1,288,250	204,174	588,844	524,807	380,189	275,423	239,883
25	10/1/2018 16:12:00	54.6	79.3	57.3	51.7	56.1	55.6	54.6	52.8	52.4	288,403	85,113,804	537,032	147,911	407,380	363,078	288,403	190,546	173,780
26	10/1/2018 16:17:00	55.9	80.6	61	52.7	57.5	57.3	55.6	54.2	53.8	389,045	114,815,362	1,258,925	186,209	562,341	537,032	363,078	263,027	239,883
27	10/1/2018 16:22:00	55.8	80.6	62.4	53	58.8	57	55.3	54	53.8	380,189	114,815,362	1,737,801	199,526	758,578	501,187	338,844	251,189	239,883
28	10/1/2018 16:27:00	58.3	83.1	70.9	54.2	61.8	60.5	55.7	54.6	54.5	676,083	204,173,794	12,302,688	263,027	1,513,561	1,122,018	371,535	288,403	281,838
29	10/1/2018 16:32:00	54.9	79.7	57.7	52.7	56.3	56	54.9	53.6	53.3	309,030	93,325,430	588,844	186,209	426,580	398,107	309,030	229,087	213,796
30	10/1/2018 16:37:00	55.9	80.7	61.9	53.6	57.3	56.8	55.7	54.6	54.4	389,045	117,489,755	1,548,817	229,087	537,032	478,630	371,535	288,403	275,423
31	10/1/2018 16:42:00	56.9	81.7	61.9	54.5	58	57.7	56.9	55.4	54.8	489,779	147,910,839	1,548,817	281,838	630,957	588,844	489,779	346,737	301,995
32	10/1/2018 16:47:00	58.5	83.3	60.9	56.2	59.9	59.6	58.4	57.1	56.9	707,946	213,796,209	1,230,269	416,869	977,237	912,011	691,831	512,861	489,779
33	10/1/2018 16:52:00	59	83.8	61.2	56.8	60.8	60.3	58.9	57.6	57.3	794,328	239,883,292	1,318,257	478,630	1,202,264	1,071,519	776,247	575,440	537,032
34	10/1/2018 16:57:00	58.6	83.4	60.6	56.7	59.7	59.3	58.5	57.7	57.6	724,436	218,776,162	1,148,154	467,735	933,254	851,138	707,946	588,844	575,440
35	10/1/2018 17:02:00	58.8	83.5	62.2	57.5	59.7	59.4	58.6	58	57.9	758,578	223,872,114	1,659,587	562,341	933,254	870,964	724,436	630,957	616,595
36	10/1/2018 17:07:00	59.3	84.1	65.7	56.3	63.2	60.5	58.7	57.3	56.9	851,138	257,039,578	3,715,352	426,580	2,089,296	1,122,018	741,310	537,032	489,779
37	10/1/2018 17:12:00	58.9	83.6	61.1	57.1	60.3	60	58.7	57.8	57.6	776,247	229,086,765	1,288,250	512,861	1,071,519	1,000,000	741,310	602,560	575,440
38	10/1/2018 17:17:00	58.5	83.3	61.8	56.4	60.3	59.6	58.4	57.2	56.8	707,946	213,796,209	1,513,561	436,516	1,071,519	912,011	691,831	524,807	478,630
39	10/1/2018 17:22:00	59.2	84	67.8	56.4	62	60.1	58.4	57.5	57.3	831,764	251,188,643	6,025,596	436,516	1,584,893	1,023,293	691,831	562,341	537,032
40	10/1/2018 17:27:00	59	83.7	62.3	56.3	60.5	60.1	58.8	57.7	57	794,328	234,422,882	1,698,244	426,580	1,122,018	1,023,293	758,578	588,844	501,187
41	10/1/2018 17:32:00	59.4	84.2	62.7	56.9	60.6	60.1	59.4	58.4	57.8	870,964	263,026,799	1,862,087	489,779	1,148,154	1,023,293	870,964	691,831	602,560
42	10/1/2018 17:37:00	58.9	83.7	62	57.1	60.4	60	58.8	58	57.8	776,247	234,422,882	1,584,893	512,861	1,096,478	1,000,000	758,578	630,957	602,560
43	10/1/2018 17:42:00	59	83.8	63.5	57.7	59.9	59.7	58.9	58.1	57.9	794,328	239,883,292	2,238,721	588,844	977,237	933,254	776,247	645,654	616,595
44	10/1/2018 17:47:00	59	83.8	63.2	56.9	60.2	59.9	58.9	57.9	57.7	794,328	239,883,292	2,089,296	489,779	1,047,129	977,237	776,247	616,595	588,844
45	10/1/2018 17:52:00	59.6	84.3	66.7	56.9	63.3	60.3	58.8	57.5	57.2	912,011	269,153,480	4,677,351	489,779	2,137,962	1,071,519	758,578	562,341	524,807
46	10/1/2018 17:57:00	59.1	83.8	61.7	57	60.5	60.1	59	57.9	57.4	812,831	239,883,292	1,479,108	501,187	1,122,018	1,023,293	794,328	616,595	549,541
47	10/1/2018 18:02:00	59	83.8	61.1	56.9	60.1	60	59	57.8	57.5	794,328	239,883,292	1,288,250	489,779	1,023,293	1,000,000	794,328	602,560	562,341
48	10/1/2018 18:07:00	59.2	84	61.4	56.7	60.5	60.3	59.2	57.8	57.4	831,764	251,188,643	1,380,384	467,735	1,122,018	1,071,519	831,764	602,560	549,541
49	10/1/2018 18:12:00	59.6	84.4	64.2	58	61.1	60.5	59.4	58.6	58.3	912,011	275,422,870	2,630,268	630,957	1,288,250	1,122,018	870,964	724,436	676,083
50	10/1/2018 18:17:00	58.8	83.6	61.1	56.8	60.3	60	58.6	57.8	57.5	758,578	229,086,765	1,288,250	478,630	1,071,519	1,000,000	724,436	602,560	562,341
51	10/1/2018 18:22:00	59.4	84.2	62.9	57.2	60.9	60.5	59.2	58.4	57.9	870,964	263,026,799	1,949,845	524,807	1,230,269	1,122,018	831,764	691,831	616,595
52	10/1/2018 18:27:00	59.5	84.3	63.5	57.3	61.2	60.8	59.1	58.3	58	891,251	269,153,480	2,238,721	537,032	1,318,257	1,202,264	812,831	676,083	630,957
53	10/1/2018 18:32:00	60.1	84.8	66.4	57.6	62.9	61.6	59.4	58.3	58.1	1,023,293	301,995,172	4,365,158	575,440	1,949,845	1,445,440	870,964	676,083	645,654
54	10/1/2018 18:37:00	59.6	84.4	64.6	57.7	62.3	60.9	59.2	58.2	58	912,011	275,422,870	2,884,032	588,844	1,698,244	1,230,269	831,764	660,693	630,957
55	10/1/2018 18:42:00	59.8	84.6	63.5	58.2	61.9	61.2	59.5	58.7	58.5	954,993	288,403,150	2,238,721	660,693	1,548,817	1,318,257	891,251	741,310	707,946
56	10/1/2018 18:47:00	58	82.8	60.7	55.9	59.9	59.7	57.7	56.6	56.4	630,957	190,546,072	1,174,898	389,045	977,237	933,254	588,844	457,088	436,516
57	10/1/2018 18:52:00	57.6	82.4	64	55.4	60	59	57.4	56.2	55.9	575,440	173,780,083	2,511,886	346,737	1,000,000	794,328	549,541	416,869	389,045
58	10/1/2018 18:57:00	56.7	81.5	61.2	54.6	58.1	57.8	56.5	55.3	55	467,735	141,253,754	1,318,257	288,403	645,654	602,560	446,684	338,844	316,228
59	10/1/2018 19:02:00	57.2	82	60.6	55.9	58.6	58.2	56.9	56.3	56.1	524,807	158,489,319	1,148,154	389,045	724,436	660,693	489,779	426,580	407,380
60	10/1/2018 19:07:00	58.1	82.8	59.8	55.5	59.4	59.3	58	56.6	56.2	645,654	190,546,072	954,993	354,813	870,964	851,138	630,957	457,088	416,869

Appendix I - Measurement LT-2

Address	Start Time	Leq (dBA)	SEL (dBA)	Lmax (dBA)	Lmin (dBA)	L5 (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	L95 (dBA)	Leq (Energy)	LE (SEL) (Energy)	Lmax (Energy)	Lmin (Energy)	L5 (Energy)	L10 (Energy)	L50 (Energy)	L90 (Energy)	L95 (Energy)
61	10/1/2018 19:12:00	58.9	83.6	61.2	56.9	60.3	59.9	58.8	57.6	57.4	776,247	229,086,765	1,318,257	489,779	1,071,519	977,237	758,578	575,440	549,541
62	10/1/2018 19:17:00	60	84.8	63.9	58	61.5	60.8	59.9	58.9	58.7	1,000,000	301,995,172	2,454,709	630,957	1,412,538	1,202,264	977,237	776,247	741,310
63	10/1/2018 19:22:00	61.3	86.1	63.6	58.9	62.7	62.5	61.1	60	59.7	1,348,963	407,380,278	2,290,868	776,247	1,862,087	1,778,279	1,288,250	1,000,000	933,254
64	10/1/2018 19:27:00	61.8	86.6	65.3	60.3	62.7	62.4	61.8	60.9	60.8	1,513,561	457,088,190	3,388,442	1,071,519	1,862,087	1,737,801	1,513,561	1,230,269	1,202,264
65	10/1/2018 19:32:00	62.9	87.7	72.3	60.9	65.6	64.2	62.1	61.3	61.2	1,949,845	588,843,655	16,982,437	1,230,269	3,630,781	2,630,268	1,621,810	1,348,963	1,318,257
66	10/1/2018 19:37:00	62	86.8	64.6	59.6	63.5	63	61.9	61	60.8	1,584,893	478,630,092	2,884,032	912,011	2,238,721	1,995,262	1,548,817	1,258,925	1,202,264
67	10/1/2018 19:42:00	61.9	86.7	64.1	60.3	63.2	62.7	61.7	61	60.9	1,548,817	467,735,141	2,570,396	1,071,519	2,089,296	1,862,087	1,479,108	1,258,925	1,230,269
68	10/1/2018 19:47:00	61.8	86.6	65.2	59.3	63	62.7	61.8	60.6	60.1	1,513,561	457,088,190	3,311,311	851,138	1,995,262	1,862,087	1,513,561	1,148,154	1,023,293
69	10/1/2018 19:52:00	61.8	86.5	65.3	59.6	63.6	62.5	61.6	60.5	60.3	1,513,561	446,683,592	3,388,442	912,011	2,290,868	1,778,279	1,445,440	1,122,018	1,071,519
70	10/1/2018 19:57:00	62	86.8	68.5	60.1	63.4	62.8	61.9	60.9	60.5	1,584,893	478,630,092	7,079,458	1,023,293	2,187,762	1,905,461	1,548,817	1,230,269	1,122,018
71	10/1/2018 20:02:00	61.7	86.5	64.1	60.1	62.9	62.7	61.5	60.7	60.5	1,479,108	446,683,592	2,570,396	1,023,293	1,949,845	1,862,087	1,412,538	1,174,898	1,122,018
72	10/1/2018 20:07:00	62	86.7	64.7	60	63.1	62.8	61.9	61	60.7	1,584,893	467,735,141	2,951,209	1,000,000	2,041,738	1,905,461	1,548,817	1,258,925	1,174,898
73	10/1/2018 20:12:00	61.7	86.5	64.6	60	63	62.8	61.6	60.5	60.2	1,479,108	446,683,592	2,884,032	1,000,000	1,995,262	1,905,461	1,445,440	1,122,018	1,047,129
74	10/1/2018 20:17:00	61.7	86.4	63.6	59.5	63	62.7	61.7	60.4	60.1	1,479,108	436,515,832	2,290,868	891,251	1,995,262	1,862,087	1,479,108	1,096,478	1,023,293
75	10/1/2018 20:22:00	62.7	87.5	68.6	60.1	66.1	64.5	62.1	60.9	60.7	1,862,087	562,341,325	7,244,360	1,023,293	4,073,803	2,818,383	1,621,810	1,230,269	1,174,898
76	10/1/2018 20:27:00	61.5	86.2	63.9	57	62.9	62.5	61.5	60	59.1	1,412,538	416,869,383	2,454,709	501,187	1,949,845	1,778,279	1,412,538	1,000,000	812,831
77	10/1/2018 20:32:00	61.6	86.4	63.3	59	62.8	62.5	61.7	60.5	60.2	1,445,440	436,515,832	2,137,962	794,328	1,905,461	1,778,279	1,479,108	1,122,018	1,047,129
78	10/1/2018 20:37:00	61.4	86.2	63.5	59.3	63.2	62.9	61.2	60.1	59.8	1,380,384	416,869,383	2,238,721	851,138	2,089,296	1,949,845	1,318,257	1,023,293	954,993
79	10/1/2018 20:42:00	62.1	86.8	64.3	58.2	63.5	63.2	62	60.7	60.2	1,621,810	478,630,092	2,691,535	660,693	2,238,721	2,089,296	1,584,893	1,174,898	1,047,129
80	10/1/2018 20:47:00	61.6	86.4	63.9	58.8	63.1	62.5	61.5	60.4	60.1	1,445,440	436,515,832	2,454,709	758,578	2,041,738	1,778,279	1,412,538	1,096,478	1,023,293
81	10/1/2018 20:52:00	61.6	86.4	65.8	59.4	63.1	62.7	61.5	60.2	60	1,445,440	436,515,832	3,801,894	870,964	2,041,738	1,862,087	1,412,538	1,047,129	1,000,000
82	10/1/2018 20:57:00	62	86.8	66.5	59	64.1	63.6	61.6	60.5	60.3	1,584,893	478,630,092	4,466,836	794,328	2,570,396	2,290,868	1,445,440	1,122,018	1,071,519
83	10/1/2018 21:02:00	61.8	86.6	65	58.4	64.1	63.6	61.5	60.1	59.4	1,513,561	457,088,190	3,162,278	691,831	2,570,396	2,290,868	1,412,538	1,023,293	870,964
84	10/1/2018 21:07:00	61.4	86.2	65.4	58.6	63.2	62.9	61.1	59.7	59.4	1,380,384	416,869,383	3,467,369	724,436	2,089,296	1,949,845	1,288,250	933,254	870,964
85	10/1/2018 21:12:00	61.7	86.5	63.6	58.6	62.9	62.7	61.8	60.2	59.5	1,479,108	446,683,592	2,290,868	724,436	1,949,845	1,862,087	1,513,561	1,047,129	891,251
86	10/1/2018 21:17:00	61.9	86.6	65.9	58.2	64.1	63.8	61.3	59.6	59	1,548,817	457,088,190	3,890,451	660,693	2,570,396	2,398,833	1,348,963	912,011	794,328
87	10/1/2018 21:22:00	62.5	87.3	69.6	59	66.2	64.9	61.5	59.6	59.4	1,778,279	537,031,796	9,120,108	794,328	4,168,694	3,090,295	1,412,538	912,011	870,964
88	10/1/2018 21:27:00	61.5	86.2	63.3	59.7	62.8	62.5	61.5	60.4	60.1	1,412,538	416,869,383	2,137,962	933,254	1,905,461	1,778,279	1,412,538	1,096,478	1,023,293
89	10/1/2018 21:32:00	61.3	86.1	65.1	58.1	62.7	62.4	61.1	59.8	59.1	1,348,963	407,380,278	3,235,937	645,654	1,862,087	1,737,801	1,288,250	954,993	812,831
90	10/1/2018 21:37:00	61.6	86.4	64.5	58.1	63.4	62.9	61.4	60	59.7	1,445,440	436,515,832	2,818,383	645,654	2,187,762	1,949,845	1,380,384	1,000,000	933,254
91	10/1/2018 21:42:00	60.8	85.6	63.4	58.9	62	61.8	60.8	59.7	59.5	1,202,264	363,078,055	2,187,762	776,247	1,584,893	1,513,561	1,202,264	933,254	891,251
92	10/1/2018 21:47:00	62	86.7	64.5	59.1	63.7	63.5	61.8	60.2	59.8	1,584,893	467,735,141	2,818,383	812,831	2,344,229	2,238,721	1,513,561	1,047,129	954,993
93	10/1/2018 21:52:00	61.1	85.9	64.1	57.9	63	62.7	60.9	59	58.8	1,288,250	389,045,145	2,570,396	616,595	1,995,262	1,862,087	1,230,269	794,328	758,578
94	10/1/2018 21:57:00	60.7	85.4	63	58.4	62.2	61.8	60.6	59.3	59	1,174,898	346,736,850	1,995,262	691,831	1,659,587	1,513,561	1,148,154	851,138	794,328
95	10/1/2018 22:02:00	61	85.8	64.4	57.9	62.6	62.3	60.9	59.6	59.2	1,258,925	380,189,396	2,754,229	616,595	1,819,701	1,698,244	1,230,269	912,011	831,764
96	10/1/2018 22:07:00	61	85.8	66.3	58.3	62.7	62.5	60.9	59.2	58.9	1,258,925	380,189,396	4,265,795	676,083	1,862,087	1,778,279	1,230,269	831,764	776,247
97	10/1/2018 22:12:00	64.9	89.7	79.8	57.8	69.9	62.3	60.5	59.4	59	**1,369,017**	**413,436,494**	**4,471,573**	**632,463**	**2,158,398**	**1,910,009**	**1,321,403**	**882,509**	**750,342**
98	10/1/2018 22:17:00	61.7	86.5	66.7	57.7	63.9	63.1	61.5	59.7	58.6	1,479,108	446,683,592	4,677,351	588,844	2,454,709	2,041,738	1,412,538	933,254	724,436
99	10/1/2018 22:22:00	60.8	85.6	62.8	57.3	62.3	62.1	60.8	59	58.4	1,202,264	363,078,055	1,905,461	537,032	1,698,244	1,621,810	1,202,264	794,328	691,831
100	10/1/2018 22:27:00	62.1	86.8	67.2	58.9	64.9	63.7	61.5	59.8	59.6	1,621,810	478,630,092	5,248,075	776,247	3,090,295	2,344,229	1,412,538	954,993	912,011
101	10/1/2018 22:32:00	60.4	85.2	63.2	57.2	62.4	62	60.3	58.2	57.9	1,096,478	331,131,121	2,089,296	524,807	1,737,801	1,584,893	1,071,519	660,693	616,595
102	10/1/2018 22:37:00	60.2	85	62.9	57.2	62.3	61.9	59.9	58.3	58	1,047,129	316,227,766	1,949,845	524,807	1,698,244	1,548,817	977,237	676,083	630,957
103	10/1/2018 22:42:00	60.6	85.4	65.3	57.1	63.5	62.3	60.4	58.2	57.7	1,148,154	346,736,850	3,388,442	512,861	2,238,721	1,698,244	1,096,478	660,693	588,844
104	10/1/2018 22:47:00	59.9	84.6	63	56.2	62.1	61.5	59.7	57.8	57.4	977,237	288,403,150	1,995,262	416,869	1,621,810	1,412,538	933,254	602,560	549,541
105	10/1/2018 22:52:00	60	84.8	63	56.6	62	61.7	59.8	58.2	57.9	1,000,000	301,995,172	1,995,262	457,088	1,584,893	1,479,108	954,993	660,693	616,595
106	10/1/2018 22:57:00	59.9	84.7	65.4	55.2	62.1	61.4	59.8	57.2	56.7	977,237	295,120,923	3,467,369	331,131	1,621,810	1,380,384	954,993	524,807	467,735
107	10/1/2018 23:02:00	59.9	84.6	63.2	57.1	62.1	61.7	59.6	57.7	57.4	977,237	288,403,150	2,089,296	512,861	1,621,810	1,479,108	912,011	588,844	549,541
108	10/1/2018 23:07:00	60.4	85.2	64.8	57.2	62.4	61.9	60.3	57.7	57.5	1,096,478	331,131,121	3,019,952	524,807	1,737,801	1,548,817	1,071,519	588,844	562,341
109	10/1/2018 23:12:00	59.6	84.3	62.9	55.6	61.5	61.1	59.3	57.5	56.8	912,011	269,153,480	1,949,845	363,078	1,412,538	1,288,250	851,138	562,341	478,630
110	10/1/2018 23:17:00	60	84.8	64.5	56.5	62.2	61.8	59.4	57.6	57.2	1,000,000	301,995,172	2,818,383	446,684	1,659,587	1,513,561	870,964	575,440	524,807
111	10/1/2018 23:22:00	60	84.7	64	55.1	62	61.6	59.8	57.2	56.3	1,000,000	295,120,923	2,511,886	323,594	1,584,893	1,445,440	954,993	524,807	426,580
112	10/1/2018 23:27:00	59.7	84.4	63.4	55.1	62	61.6	59.3	56.9	56.4	933,254	275,422,870	2,187,762	323,594	1,584,893	1,445,440	851,138	489,779	436,516
113	10/1/2018 23:32:00	60.6	85.4	69	55.3	63.8	62.1	60.1	57.3	56.8	1,148,154	346,736,850	7,943,282	338,844	2,398,833	1,621,810	1,023,293	537,032	478,630
114	10/1/2018 23:37:00	59.3	84.1	62.1	55.9	61.4	61	59.2	56.8	56.4	851,138	257,039,578	1,621,810	389,045	1,380,384	1,258,925	831,764	478,630	436,516
115	10/1/2018 23:42:00	59.6	84.4	62.7	55.6	62	61.5	59.4	57.1	56.4	912,011	275,422,870	1,862,087	363,078	1,584,893	1,412,538	870,964	512,861	436,516
116	10/1/2018 23:47:00	60	84.7	68.9	56.1	62.8	61.6	59	57.6	57.1	1,000,000	295,120,923	7,762,471	407,380	1,905,461	1,445,440	794,328	575,440	512,861
117	10/1/2018 23:52:00	59.7	84.4	66.7	55.1	62.9	62.1	58.8	56.4	55.8	933,254	275,422,870	4,677,351	323,594	1,949,845	1,621,810	758,578	436,516	380,189
118	10/1/2018 23:57:00	58.6	83.3	61.9	54	60.8	60.4	58	57	56.6	724,436	213,796,209	1,548,817	251,189	1,202,264	1,096,478	630,957	501,187	457,088
119	10/2/2018 0:02:00	59.4	84.2	63.6	54.6	62	61.6	59.1	56	55.6	870,964	263,026,799	2,290,868	288,403	1,584,893	1,445,440	812,831	398,107	363,078
120	10/2/2018 0:07:00	59.4	84.2	63.9	54.9	61.6	61.2	59.2	56.1	55.6	870,964	263,026,799	2,454,709	309,030	1,445,440	1,318,257	831,764	407,380	363,078
121	10/2/2018 0:12:00	59	83.8	65.2	54.8	62.1	61.5	58.5	55.5	55.2	794,328	239,883,292	3,311,311	301,995	1,621,810	1,412,538	707,946	354,813	331,131

Appendix I - Measurement LT-2

Address	Start Time	Leq (dBA)	SEL (dBA)	Lmax (dBA)	Lmin (dBA)	L5 (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	L95 (dBA)	Leq (Energy)	LE (SEL) (Energy)	Lmax (Energy)	Lmin (Energy)	L5 (Energy)	L10 (Energy)	L50 (Energy)	L90 (Energy)	L95 (Energy)
122	10/2/2018 0:17:00	58.3	83.1	62.7	53.5	61.8	61.1	57.4	54.8	54.2	676,083	204,173,794	1,862,087	223,872	1,513,561	1,288,250	549,541	301,995	263,027
123	10/2/2018 0:22:00	58.8	83.6	64	55	62.2	61.4	57.9	56.1	55.7	758,578	229,086,765	2,511,886	316,228	1,659,587	1,380,384	616,595	407,380	371,535
124	10/2/2018 0:27:00	58.5	83.3	60.7	55.1	60.3	60.1	58.5	56.5	55.9	707,946	213,796,209	1,174,898	323,594	1,071,519	1,023,293	707,946	446,684	389,045
125	10/2/2018 0:32:00	58.5	83.3	61.4	54.7	60.6	60.2	58.3	56.5	55.9	707,946	213,796,209	1,380,384	295,121	1,148,154	1,047,129	676,083	446,684	389,045
126	10/2/2018 0:37:00	59.2	84	65.6	55.1	62.2	61	58.8	56	55.8	831,764	251,188,643	3,630,781	323,594	1,659,587	1,258,925	758,578	398,107	380,189
127	10/2/2018 0:42:00	58.8	83.5	66.2	53.4	61.9	60.8	58.2	54.7	54.1	758,578	223,872,114	4,168,694	218,776	1,548,817	1,202,264	660,693	295,121	257,040
128	10/2/2018 0:47:00	59.2	83.9	62.8	55.8	61.3	60.9	58.8	57.4	57.1	831,764	245,470,892	1,905,461	380,189	1,348,963	1,230,269	758,578	549,541	512,861
129	10/2/2018 0:52:00	59.2	83.9	64	53.6	62.6	62	58.4	54.8	54.2	831,764	245,470,892	2,511,886	229,087	1,819,701	1,584,893	691,831	301,995	263,027
130	10/2/2018 0:57:00	58.3	83.1	62.2	53.3	60.8	59.9	58.2	55.6	54.7	676,083	204,173,794	1,659,587	213,796	1,202,264	977,237	660,693	363,078	295,121
131	10/2/2018 1:02:00	58.2	83	63	53.2	60.7	59.7	58	55.8	54.9	660,693	199,526,231	1,995,262	208,930	1,174,898	933,254	630,957	380,189	309,030
132	10/2/2018 1:07:00	56.9	81.7	64.8	52.2	59.8	59.2	56.1	53.9	53.4	489,779	147,910,839	3,019,952	165,959	954,993	831,764	407,380	245,471	218,776
133	10/2/2018 1:12:00	58.3	83.1	63.9	52.2	61.5	60.8	57.8	54.4	53.8	676,083	204,173,794	2,454,709	165,959	1,412,538	1,202,264	602,560	275,423	239,883
134	10/2/2018 1:17:00	59	83.8	68	52.5	61.3	60.9	58.6	55.3	54.3	794,328	239,883,292	6,309,573	177,828	1,348,963	1,230,269	724,436	338,844	269,153
135	10/2/2018 1:22:00	57.7	82.4	61	54.4	60.6	60.2	57	55	54.9	588,844	173,780,083	1,258,925	275,423	1,148,154	1,047,129	501,187	316,228	309,030
136	10/2/2018 1:27:00	57.9	82.7	62	52.6	60.9	60.2	57.7	54	53.5	616,595	186,208,714	1,584,893	181,970	1,230,269	1,047,129	588,844	251,189	223,872
137	10/2/2018 1:32:00	56.9	81.7	61	52.1	60.1	59.6	56.2	53	52.7	489,779	147,910,839	1,258,925	162,181	1,023,293	912,011	416,869	199,526	186,209
138	10/2/2018 1:37:00	57.9	82.7	62.9	52.3	60.4	60.1	57.7	54.4	53.1	616,595	186,208,714	1,949,845	169,824	1,096,478	1,023,293	588,844	275,423	204,174
139	10/2/2018 1:42:00	58.3	83.1	65.1	53.1	61.9	60.9	57.3	54.9	54.6	676,083	204,173,794	3,235,937	204,174	1,548,817	1,230,269	537,032	309,030	288,403
140	10/2/2018 1:47:00	56.8	81.6	60.9	52	59.9	59.1	56.3	53.5	52.7	478,630	144,543,977	1,230,269	158,489	977,237	812,831	426,580	223,872	186,209
141	10/2/2018 1:52:00	57.3	82.1	61.2	52.7	60	59.5	56.8	54	53.7	537,032	162,181,010	1,318,257	186,209	1,000,000	891,251	478,630	251,189	234,423
142	10/2/2018 1:57:00	56.7	81.4	62.9	51.7	59.4	58.8	55.9	53.5	52.4	467,735	138,038,426	1,949,845	147,911	870,964	758,578	389,045	223,872	173,780
143	10/2/2018 2:02:00	58	82.7	66.8	52.4	62	60.1	56.6	54	53.6	630,957	186,208,714	4,786,301	173,780	1,584,893	1,023,293	457,088	251,189	229,087
144	10/2/2018 2:07:00	57.2	82	61.4	50.4	60.7	59.9	56.7	52.6	52	524,807	158,489,319	1,380,384	109,648	1,174,898	977,237	467,735	181,970	158,489
145	10/2/2018 2:12:00	58	82.8	65	51.6	60.9	59.9	57.6	54.4	53.3	630,957	190,546,072	3,162,278	144,544	1,230,269	977,237	575,440	275,423	213,796
146	10/2/2018 2:17:00	57.8	82.6	61.8	51.6	60.7	59.8	57.8	53.1	52.4	602,560	181,970,086	1,513,561	144,544	1,174,898	954,993	602,560	204,174	173,780
147	10/2/2018 2:22:00	56.8	81.5	63.9	49.9	62.3	60.1	55.1	52	51.4	478,630	141,253,754	2,454,709	97,724	1,698,244	1,023,293	323,594	158,489	138,038
148	10/2/2018 2:27:00	56.5	81.2	60.3	52	59.1	58.3	56.3	53.7	53	446,684	131,825,674	1,071,519	158,489	812,831	676,083	426,580	234,423	199,526
149	10/2/2018 2:32:00	56.6	81.4	61.2	51.3	59.3	58.6	56.2	53.9	53.6	457,088	138,038,426	1,318,257	134,896	851,138	724,436	416,869	245,471	229,087
150	10/2/2018 2:37:00	58.3	83.1	65.3	51.3	61.3	60.5	57.9	54.1	53.2	676,083	204,173,794	3,388,442	134,896	1,348,963	1,122,018	616,595	257,040	208,930
151	10/2/2018 2:42:00	56.9	81.7	65.3	49.9	61	59.4	55.7	52.5	51	489,779	147,910,839	3,388,442	97,724	1,258,925	870,964	371,535	177,828	125,893
152	10/2/2018 2:47:00	56.7	81.5	60.9	51.9	59.5	58.6	56.5	53.1	52.7	467,735	141,253,754	1,230,269	154,882	891,251	724,436	446,684	204,174	186,209
153	10/2/2018 2:52:00	57.8	82.5	62.5	51.3	61.3	60.4	57.2	52.4	51.8	602,560	177,827,941	1,778,279	134,896	1,348,963	1,096,478	524,807	173,780	151,356
154	10/2/2018 2:57:00	58.9	83.6	71.8	53.4	62.6	60.7	57.7	55.4	54.7	776,247	229,086,765	15,135,612	218,776	1,819,701	1,174,898	588,844	346,737	295,121
155	10/2/2018 3:02:00	57.9	82.7	63.5	52.2	61.5	60.6	57.1	54.4	53.4	616,595	186,208,714	2,238,721	165,959	1,412,538	1,148,154	512,861	275,423	218,776
156	10/2/2018 3:07:00	58.9	83.7	65.1	52.6	62.5	61.8	58	55	54	776,247	234,422,882	3,235,937	181,970	1,778,279	1,513,561	630,957	316,228	251,189
157	10/2/2018 3:12:00	58.3	83.1	69.3	52.4	61	59.9	57.1	53.9	53.1	676,083	204,173,794	8,511,380	173,780	1,258,925	977,237	512,861	245,471	204,174
158	10/2/2018 3:17:00	58.2	83	62.9	51.1	61.6	60.6	57.3	53.2	52.3	660,693	199,526,231	1,949,845	128,825	1,445,440	1,148,154	537,032	208,930	169,824
159	10/2/2018 3:22:00	58	82.8	62	52.3	61.4	60.7	57.5	54.4	53.6	630,957	190,546,072	1,584,893	169,824	1,380,384	1,174,898	562,341	275,423	229,087

Appendix I - Measurement LT-2

Address	Start Time	Leq (dBA)	SEL (dBA)	Lmax (dBA)	Lmin (dBA)	L5 (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	L95 (dBA)	Leq (Energy)	LE (SEL) (Energy)	Lmax (Energy)	Lmin (Energy)	L5 (Energy)	L10 (Energy)	L50 (Energy)	L90 (Energy)	L95 (Energy)
160	10/2/2018 3:27:00	58.2	83	62.3	52	61.5	60.4	57.6	55.3	53.7	660,693	199,526,231	1,698,244	158,489	1,412,538	1,096,478	575,440	338,844	234,423
161	10/2/2018 3:32:00	58.6	83.3	62.2	54.1	61.4	61.1	57.9	55.9	55.4	724,436	213,796,209	1,659,587	257,040	1,380,384	1,288,250	616,595	389,045	346,737
162	10/2/2018 3:37:00	58.5	83.2	63.8	53.2	61.4	60.3	58.1	55.2	54.6	707,946	208,929,613	2,398,833	208,930	1,380,384	1,071,519	645,654	331,131	288,403
163	10/2/2018 3:42:00	58.7	83.5	62.5	52.6	61.2	60.9	58.6	54.9	54.1	741,310	223,872,114	1,778,279	181,970	1,318,257	1,230,269	724,436	309,030	257,040
164	10/2/2018 3:47:00	58.7	83.5	63.4	54.5	61.7	60.8	58.1	56.1	55.6	741,310	223,872,114	2,187,762	281,838	1,479,108	1,202,264	645,654	407,380	363,078
165	10/2/2018 3:52:00	59.8	84.6	64	54.7	62.7	62.1	59.6	56.5	55.9	954,993	288,403,150	2,511,886	295,121	1,862,087	1,621,810	912,011	446,684	389,045
166	10/2/2018 3:57:00	58.8	83.6	62.7	53	61.3	60.7	58.7	55.3	54.4	758,578	229,086,765	1,862,087	199,526	1,348,963	1,174,898	741,310	338,844	275,423
167	10/2/2018 4:02:00	58.9	83.6	65.4	54	62	60.9	58	55.8	55.3	776,247	229,086,765	3,467,369	251,189	1,584,893	1,230,269	630,957	380,189	338,844
168	10/2/2018 4:07:00	59.2	84	63.2	54.8	62.2	61.6	58.8	56.2	55.7	831,764	251,188,643	2,089,296	301,995	1,659,587	1,445,440	758,578	416,869	371,535
169	10/2/2018 4:12:00	60.2	85	68.2	55	63.2	62	59.5	56.8	56.3	1,047,129	316,227,766	6,606,934	316,228	2,089,296	1,584,893	891,251	478,630	426,580
170	10/2/2018 4:17:00	59.9	84.7	64.6	54.2	62.2	61.3	59.6	58	57.2	977,237	295,120,923	2,884,032	263,027	1,659,587	1,348,963	912,011	630,957	524,807
171	10/2/2018 4:22:00	60.1	84.9	63.7	57.2	62.4	61.9	59.7	58.3	58.1	1,023,293	309,029,543	2,344,229	524,807	1,737,801	1,548,817	933,254	676,083	645,654
172	10/2/2018 4:27:00	61.8	86.5	69.2	57.6	64.5	63.2	61.2	59.6	59	1,513,561	446,683,592	8,317,638	575,440	2,818,383	2,089,296	1,318,257	912,011	794,328
173	10/2/2018 4:32:00	61.3	86.1	64.5	57.6	63.6	63.1	60.9	59.7	58.8	1,348,963	407,380,278	2,818,383	575,440	2,290,868	2,041,738	1,230,269	933,254	758,578
174	10/2/2018 4:37:00	60.9	85.7	63.5	56.7	62.6	62.3	60.9	59.2	58.6	1,230,269	371,535,229	2,238,721	467,735	1,819,701	1,698,244	1,230,269	831,764	724,436
175	10/2/2018 4:42:00	61.7	86.4	63.9	58.6	63.2	63	61.4	60.2	59.9	1,479,108	436,515,832	2,454,709	724,436	2,089,296	1,995,262	1,380,384	1,047,129	977,237
176	10/2/2018 4:47:00	61.4	86.2	63.8	57.8	63.2	62.9	61.2	59.8	59.2	1,380,384	416,869,383	2,398,833	602,560	2,089,296	1,949,845	1,318,257	954,993	831,764
177	10/2/2018 4:52:00	63.2	88	76.1	58.5	64.3	63.1	61.5	59.4	59	2,089,296	630,957,344	40,738,028	707,946	2,691,535	2,041,738	1,412,538	870,964	794,328
178	10/2/2018 4:57:00	61.8	86.6	64.5	58.5	64	63.5	61.6	59.6	59.5	1,513,561	457,088,190	2,818,383	707,946	2,511,886	2,238,721	1,445,440	912,011	891,251
179	10/2/2018 5:02:00	62.1	86.9	64.3	58.5	63.6	63.4	62.1	60.6	60.2	1,621,810	489,778,819	2,691,535	707,946	2,290,868	2,187,762	1,621,810	1,148,154	1,047,129
180	10/2/2018 5:07:00	62.1	86.8	65	58.8	64	63.6	61.9	60.2	59.8	1,621,810	478,630,092	3,162,278	758,578	2,511,886	2,290,868	1,548,817	1,047,129	954,993
181	10/2/2018 5:12:00	62.6	87.4	64.7	59.6	64.2	63.8	62.6	61.2	60.7	1,819,701	549,540,874	2,951,209	912,011	2,630,268	2,398,833	1,819,701	1,318,257	1,174,898
182	10/2/2018 5:17:00	62.8	87.6	65.3	60.5	64.3	63.9	62.7	61.5	61.3	1,905,461	575,439,937	3,388,442	1,122,018	2,691,535	2,454,709	1,862,087	1,412,538	1,348,963
183	10/2/2018 5:22:00	63.1	87.9	67.3	59.1	64.5	64.2	63.1	61.4	60.4	2,041,738	616,595,002	5,370,318	812,831	2,818,383	2,630,268	2,041,738	1,380,384	1,096,478
184	10/2/2018 5:27:00	63.4	88.2	67.9	60.8	65.4	65	63.1	61.9	61.8	2,187,762	660,693,448	6,165,950	1,202,264	3,467,369	3,162,278	2,041,738	1,548,817	1,513,561
185	10/2/2018 5:32:00	63.5	88.3	65.2	60.4	64.6	64.5	63.7	61.9	61.6	2,238,721	676,082,975	3,311,311	1,096,478	2,884,032	2,818,383	2,344,229	1,548,817	1,445,440
186	10/2/2018 5:37:00	63.4	88.2	65.2	61.5	64.7	64.5	63.4	62.1	61.9	2,187,762	660,693,448	3,311,311	1,412,538	2,951,209	2,818,383	2,187,762	1,621,810	1,548,817
187	10/2/2018 5:42:00	64.2	89	73.7	61.4	65.6	65	63.6	62.3	61.9	2,630,268	794,328,235	23,442,288	1,380,384	3,630,781	3,162,278	2,290,868	1,698,244	1,548,817
188	10/2/2018 5:47:00	63	87.8	65.1	61.3	64.5	64.1	63	61.9	61.6	1,995,262	602,559,586	3,235,937	1,348,963	2,818,383	2,570,396	1,995,262	1,548,817	1,445,440
189	10/2/2018 5:52:00	63.2	88	65.4	60.7	64.5	64.3	63.2	62.1	61.8	2,089,296	630,957,344	3,467,369	1,174,898	2,818,383	2,691,535	2,089,296	1,621,810	1,513,561
190	10/2/2018 5:57:00	63.3	88.1	64.9	61.4	64.5	64.4	63.2	62.3	62	2,137,962	645,654,229	3,090,295	1,380,384	2,818,383	2,754,229	2,089,296	1,698,244	1,584,893
191	10/2/2018 6:02:00	63.5	88.3	65.2	61.6	64.4	64.3	63.4	62.7	62.5	2,238,721	676,082,975	3,311,311	1,445,440	2,754,229	2,691,535	2,187,762	1,862,087	1,778,279
192	10/2/2018 6:07:00	63.1	87.9	65.6	61.1	64.8	63.9	63.1	62	61.7	2,041,738	616,595,002	3,630,781	1,288,250	3,019,952	2,454,709	2,041,738	1,584,893	1,479,108
193	10/2/2018 6:12:00	63.6	88.4	65.9	61.8	65.1	64.6	63.5	62.7	62.2	2,290,868	691,830,971	3,890,451	1,513,561	3,235,937	2,884,032	2,238,721	1,862,087	1,659,587
194	10/2/2018 6:17:00	63.7	88.5	68	62.2	64.9	64.5	63.6	62.8	62.6	2,344,229	707,945,784	6,309,573	1,659,587	3,090,295	2,818,383	2,290,868	1,905,461	1,819,701
195	10/2/2018 6:22:00	63.5	88.2	65.8	62.1	64.5	64.2	63.4	62.6	62.3	2,238,721	660,693,448	3,801,894	1,621,810	2,818,383	2,630,268	2,187,762	1,819,701	1,698,244
196	10/2/2018 6:27:00	63.8	88.6	65.5	62.5	64.7	64.6	63.8	63.1	62.9	2,398,833	724,435,960	3,548,134	1,778,279	2,951,209	2,884,032	2,398,833	2,041,738	1,949,845
197	10/2/2018 6:32:00	63.5	88.3	65.3	61.5	64.5	64.3	63.4	62.6	62.2	2,238,721	676,082,975	3,388,442	1,412,538	2,818,383	2,691,535	2,187,762	1,819,701	1,659,587
198	10/2/2018 6:37:00	63.5	88.3	65.1	61.9	64.5	64.3	63.4	62.7	62.5	2,238,721	676,082,975	3,235,937	1,548,817	2,818,383	2,691,535	2,187,762	1,862,087	1,778,279
199	10/2/2018 6:42:00	63.5	88.3	64.7	62.2	64.4	64.3	63.4	62.8	62.6	2,238,721	676,082,975	2,951,209	1,659,587	2,754,229	2,691,535	2,187,762	1,905,461	1,819,701
200	10/2/2018 6:47:00	63.6	88.4	66.1	62.2	65	64.5	63.5	62.8	62.7	2,290,868	691,830,971	4,073,803	1,659,587	3,162,278	2,818,383	2,238,721	1,905,461	1,862,087
201	10/2/2018 6:52:00	64.8	89.6	76.1	61.1	67.4	66.2	63.5	62.3	61.9	2,014,334	**602,346,177**	**3,382,669**	**1,341,440**	**2,726,573**	**2,503,072**	**1,968,482**	**1,642,922**	**1,546,178**
202	10/2/2018 6:57:00	62.4	87.1	64.3	60.1	63.6	63.4	62.3	61.4	60.9	1,737,801	512,861,384	2,691,535	1,023,293	2,290,868	2,187,762	1,698,244	1,380,384	1,230,269
203	10/2/2018 7:02:00	61.2	85.9	62.9	59.7	62.1	62	61.1	60.2	60.1	1,318,257	389,045,145	1,949,845	933,254	1,621,810	1,584,893	1,288,250	1,047,129	1,023,293
204	10/2/2018 7:07:00	61	85.8	62.8	58.9	62.3	62	61	59.9	59.7	1,258,925	380,189,396	1,905,461	776,247	1,698,244	1,584,893	1,258,925	977,237	933,254
205	10/2/2018 7:12:00	60.9	85.7	63.1	58.6	62.3	61.9	60.9	59.8	59.3	1,230,269	371,535,229	2,041,738	724,436	1,698,244	1,548,817	1,230,269	954,993	851,138
206	10/2/2018 7:17:00	60.6	85.4	62.7	58.3	61.8	61.6	60.5	59.5	59.2	1,148,154	346,736,850	1,862,087	676,083	1,513,561	1,445,440	1,122,018	891,251	831,764
207	10/2/2018 7:22:00	61.4	86.2	73.4	58.9	62.1	61.9	61	59.8	59.5	1,380,384	416,869,383	21,877,616	776,247	1,621,810	1,548,817	1,258,925	954,993	891,251
208	10/2/2018 7:27:00	61.7	86.4	75.7	59.7	62.6	62.2	61	60.3	60.1	1,479,108	436,515,832	37,153,523	933,254	1,819,701	1,659,587	1,258,925	1,071,519	1,023,293
209	10/2/2018 7:32:00	62.4	87.1	71.5	58.8	65.8	63.5	61.2	60.1	59.8	1,737,801	512,861,384	14,125,375	758,578	3,801,894	2,238,721	1,318,257	1,023,293	954,993
210	10/2/2018 7:37:00	60.6	85.4	67.9	58.6	61.8	61.1	60.3	59.4	59.3	1,148,154	346,736,850	6,165,950	724,436	1,513,561	1,288,250	1,071,519	870,964	851,138
211	10/2/2018 7:42:00	61	85.7	64.8	59.1	62.8	61.9	60.8	59.8	59.4	1,258,925	371,535,229	3,019,952	812,831	1,905,461	1,548,817	1,202,264	954,993	870,964
212	10/2/2018 7:47:00	61.1	85.9	66.9	59.3	62.3	61.8	60.8	60.2	59.9	1,288,250	389,045,145	4,897,788	851,138	1,698,244	1,513,561	1,202,264	1,047,129	977,237
213	10/2/2018 7:52:00	61	85.8	63.4	59	62.1	61.8	60.9	60.2	59.8	1,258,925	380,189,396	2,187,762	794,328	1,621,810	1,513,561	1,230,269	1,047,129	954,993
214	10/2/2018 7:57:00	62.7	87.4	72.2	58.8	67.7	64.4	60.9	59.8	59.6	**1,230,595**	**371,633,726**	**3,432,557**	**813,046**	**1,720,755**	**1,496,335**	**1,176,144**	**1,012,183**	**944,123**
215	10/2/2018 8:02:00	60.8	85.6	66.7	59.2	62.6	61.7	60.5	59.9	59.7	1,202,264	363,078,055	4,677,351	831,764	1,819,701	1,479,108	1,122,018	977,237	933,254
216	10/2/2018 8:07:00	60.5	85.2	65.1	58.2	62	61.2	60.3	59.1	58.8	1,122,018	331,131,121	3,235,937	660,693	1,584,893	1,318,257	1,071,519	812,831	758,578
217	10/2/2018 8:12:00	59.3	84.1	62.8	57.1	61	60.7	59.1	58.1	57.7	851,138	257,039,578	1,905,461	512,861	1,258,925	1,174,898	812,831	645,654	588,844
218	10/2/2018 8:17:00	59.2	84	65.1	56.5	61	60.5	58.9	57.4	56.9	831,764	251,188,643	3,235,937	446,684	1,258,925	1,122,018	776,247	549,541	489,779
219	10/2/2018 8:22:00	58.1	82.8	60.7	56.4	59.5	58.9	58	56.9	56.8	645,654	190,546,072	1,174,898	436,516	891,251	776,247	630,957	489,779	478,630
220	10/2/2018 8:27:00	58.2	83	62.1	56.3	59.9	59.2	58	57.1	56.8	660,693	199,526,231	1,621,810	426,580	977,237	831,764	630,957	512,861	478,630

Appendix I - Measurement LT-2

Address	Start Time	Leq (dBA)	SEL (dBA)	Lmax (dBA)	Lmin (dBA)	L5 (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	L95 (dBA)	Leq (Energy)	LE (SEL) (Energy)	Lmax (Energy)	Lmin (Energy)	L5 (Energy)	L10 (Energy)	L50 (Energy)	L90 (Energy)	L95 (Energy)
221	10/2/2018 8:32:00	58.2	83	62.9	56.2	60.2	59.2	58	57.1	56.8	660,693	199,526,231	1,949,845	416,869	1,047,129	831,764	630,957	512,861	478,630
222	10/2/2018 8:37:00	57.7	82.5	67.6	54.9	60.5	58.8	57.2	55.8	55.5	588,844	177,827,941	5,754,399	309,030	1,122,018	758,578	524,807	380,189	354,813
223	10/2/2018 8:42:00	57.8	82.6	61.1	56.2	59.2	58.8	57.7	56.8	56.6	602,560	181,970,086	1,288,250	416,869	831,764	758,578	588,844	478,630	457,088
224	10/2/2018 8:47:00	57.6	82.3	59.7	56.1	58.8	58.5	57.4	56.7	56.5	575,440	169,824,365	933,254	407,380	758,578	707,946	549,541	467,735	446,684
225	10/2/2018 8:52:00	57.7	82.4	60.4	56.1	59.2	58.9	57.4	56.6	56.5	588,844	173,780,083	1,096,478	407,380	831,764	776,247	549,541	457,088	446,684
226	10/2/2018 8:57:00	57.6	82.4	61.3	55.7	58.9	58.6	57.5	56.5	56.2	575,440	173,780,083	1,348,963	371,535	776,247	724,436	562,341	446,684	416,869
227	10/2/2018 9:02:00	58.4	83.1	63.7	56.5	59.9	59.3	58.1	57.1	56.9	691,831	204,173,794	2,344,229	446,684	977,237	851,138	645,654	512,861	489,779
228	10/2/2018 9:07:00	59.2	84	65.7	55.7	62.8	61.7	58.3	56.5	56.3	831,764	251,188,643	3,715,352	371,535	1,905,461	1,479,108	676,083	446,684	426,580
229	10/2/2018 9:12:00	58	82.8	63.2	55.5	60.2	59.4	57.7	56.4	56.1	630,957	190,546,072	2,089,296	354,813	1,047,129	870,964	588,844	436,516	407,380
230	10/2/2018 9:17:00	57.6	82.4	59.7	55.5	59	58.6	57.4	56.4	56.2	575,440	173,780,083	933,254	354,813	794,328	724,436	549,541	436,516	416,869
231	10/2/2018 9:22:00	58.4	83.1	62.1	56.7	60.2	59.5	58.2	57.3	57.1	691,831	204,173,794	1,621,810	467,735	1,047,129	891,251	660,693	537,032	512,861
232	10/2/2018 9:27:00	60.7	85.5	69.2	57.1	63.9	62.2	60	57.9	57.6	1,174,898	354,813,389	8,317,638	512,861	2,454,709	1,659,587	1,000,000	616,595	575,440
233	10/2/2018 9:32:00	62	86.8	70.5	59.4	64.3	63.1	61.5	60	59.8	1,584,893	478,630,092	11,220,185	870,964	2,691,535	2,041,738	1,412,538	1,000,000	954,993
234	10/2/2018 9:37:00	62.2	87	64.7	60.6	63.4	63	62.1	61.5	61.3	1,659,587	501,187,234	2,951,209	1,148,154	2,187,762	1,995,262	1,621,810	1,412,538	1,348,963
235	10/2/2018 9:42:00	62.7	87.5	64.1	61	63.8	63.6	62.6	61.6	61.5	1,862,087	562,341,325	2,570,396	1,258,925	2,398,833	2,290,868	1,819,701	1,445,440	1,412,538
236	10/2/2018 9:47:00	62.6	87.3	64.5	60.7	63.8	63.5	62.4	61.7	61.5	1,819,701	537,031,796	2,818,383	1,174,898	2,398,833	2,238,721	1,737,801	1,479,108	1,412,538
237	10/2/2018 9:52:00	63	87.7	64.9	61.7	64	63.7	62.9	62.1	62	1,995,262	588,843,655	3,090,295	1,479,108	2,511,886	2,344,229	1,949,845	1,621,810	1,584,893
238	10/2/2018 9:57:00	63.2	88	67.6	61.7	64.3	63.8	63.1	62.4	62	2,089,296	630,957,344	5,754,399	1,479,108	2,691,535	2,398,833	2,041,738	1,737,801	1,584,893
239	10/2/2018 10:02:00	62.9	87.7	64.4	60.8	63.9	63.7	63	61.9	61.5	1,949,845	588,843,655	2,754,229	1,202,264	2,454,709	2,344,229	1,995,262	1,548,817	1,412,538
240	10/2/2018 10:07:00	63.2	87.9	68	60.8	64.7	64.2	62.8	61.7	61.5	2,089,296	616,595,002	6,309,573	1,202,264	2,951,209	2,630,268	1,905,461	1,479,108	1,412,538
241	10/2/2018 10:12:00	62.7	87.5	64.7	61	63.9	63.6	62.6	61.8	61.6	1,862,087	562,341,325	2,951,209	1,258,925	2,454,709	2,290,868	1,819,701	1,513,561	1,445,440
242	10/2/2018 10:17:00	63.2	88	66.5	59.1	65.2	64.6	63.1	61.9	60.9	2,089,296	630,957,344	4,466,836	812,831	3,311,311	2,884,032	2,041,738	1,548,817	1,230,269
243	10/2/2018 10:22:00	63.1	87.9	64.9	61.3	64.3	64.1	63	62	61.9	2,041,738	616,595,002	3,090,295	1,348,963	2,691,535	2,570,396	1,995,262	1,584,893	1,548,817
244	10/2/2018 10:27:00	63.4	88.1	70.3	61.3	65.3	64.5	62.9	62.2	62	2,187,762	645,654,229	10,715,193	1,348,963	3,388,442	2,818,383	1,949,845	1,659,587	1,584,893
245	10/2/2018 10:32:00	63.1	87.9	64.7	61.1	64.3	64.1	63.1	61.9	61.7	2,041,738	616,595,002	2,951,209	1,288,250	2,691,535	2,570,396	2,041,738	1,548,817	1,479,108
246	10/2/2018 10:37:00	63.4	88.1	70.5	61.7	63.8	63.7	63	62.4	62.2	2,187,762	645,654,229	11,220,185	1,479,108	2,398,833	2,344,229	1,995,262	1,737,801	1,659,587
247	10/2/2018 10:42:00	63.9	88.7	70.2	61.3	67.1	64.9	63.2	62.2	61.8	2,454,709	741,310,241	10,471,285	1,348,963	5,128,614	3,090,295	2,089,296	1,659,587	1,513,561
248	10/2/2018 10:47:00	63.1	87.9	66.3	60.8	64.3	64.1	63.1	61.9	61.7	2,041,738	616,595,002	4,265,795	1,202,264	2,691,535	2,570,396	2,041,738	1,548,817	1,479,108
249	10/2/2018 10:52:00	64.9	89.7	75.9	61	69.3	66.1	62.9	61.8	61.5	**2,089,850**	**631,124,615**	**7,249,363**	**1,162,141**	**2,963,736**	**2,727,214**	**1,995,791**	**1,513,963**	**1,429,746**
250	10/2/2018 10:57:00	63.3	88.1	70.1	60.5	65.1	64.6	62.9	61.7	61.4	2,137,962	645,654,229	10,232,930	1,122,018	3,235,937	2,884,032	1,949,845	1,479,108	1,380,384
251	10/2/2018 11:02:00	62.6	87.3	64.2	61.1	63.5	63.3	62.5	61.7	61.5	1,819,701	537,031,796	2,630,268	1,288,250	2,238,721	2,137,962	1,778,279	1,479,108	1,412,538
252	10/2/2018 11:07:00	62.9	87.7	65.2	60.4	64.5	64.2	62.8	61.1	60.8	1,949,845	588,843,655	3,311,311	1,096,478	2,818,383	2,630,268	1,905,461	1,288,250	1,202,264
253	10/2/2018 11:12:00	62.4	87.1	64.2	59.9	63.6	63.4	62.3	61.4	61	1,737,801	512,861,384	2,630,268	977,237	2,290,868	2,187,762	1,698,244	1,380,384	1,258,925
254	10/2/2018 11:17:00	63.2	87.9	69.7	60.3	65.2	64.6	62.7	61.6	61	2,089,296	616,595,002	9,332,543	1,071,519	3,311,311	2,884,032	1,862,087	1,445,440	1,258,925
255	10/2/2018 11:22:00	62.3	87.1	64.4	59.7	63.5	63.3	62.1	61.4	61.1	1,698,244	512,861,384	2,754,229	933,254	2,238,721	2,137,962	1,621,810	1,380,384	1,288,250
256	10/2/2018 11:27:00	62.4	87.2	65.2	59.7	63.9	63.5	62.4	61	60.6	1,737,801	524,807,460	3,311,311	933,254	2,454,709	2,238,721	1,737,801	1,258,925	1,148,154
257	10/2/2018 11:32:00	62.3	87.1	66	59.8	63.6	63.3	62.2	61.3	60.6	1,698,244	512,861,384	3,981,072	954,993	2,290,868	2,137,962	1,659,587	1,348,963	1,148,154
258	10/2/2018 11:37:00	62.6	87.3	68.5	60.2	64.1	63.8	62.3	60.9	60.5	1,819,701	537,031,796	7,079,458	1,047,129	2,570,396	2,398,833	1,698,244	1,230,269	1,122,018
259	10/2/2018 11:42:00	62.6	87.3	64.1	60.7	63.5	63.4	62.5	61.7	61.4	1,819,701	537,031,796	2,570,396	1,174,898	2,238,721	2,187,762	1,778,279	1,479,108	1,380,384
260	10/2/2018 11:47:00	63.3	88.1	71.6	60.5	66.2	63.9	62.6	61.6	61.3	2,137,962	645,654,229	14,454,398	1,122,018	4,168,694	2,454,709	1,819,701	1,445,440	1,348,963
261	10/2/2018 11:52:00	62.4	87.2	65.2	60.6	63.7	63.4	62.3	61.2	61	1,737,801	524,807,460	3,311,311	1,148,154	2,344,229	2,187,762	1,698,244	1,318,257	1,258,925
262	10/2/2018 11:57:00	62.3	87.1	65.1	59.7	63.7	63.3	62.2	61.3	60.6	1,698,244	512,861,384	3,235,937	933,254	2,344,229	2,137,962	1,659,587	1,348,963	1,148,154
263	10/2/2018 12:02:00	62.7	87.5	64.3	60.6	63.8	63.6	62.6	61.7	61.2	1,862,087	562,341,325	2,691,535	1,148,154	2,398,833	2,290,868	1,819,701	1,479,108	1,318,257
264	10/2/2018 12:07:00	62.2	87	64.3	60.4	63.4	63.1	62.2	61.3	60.9	1,659,587	501,187,234	2,691,535	1,096,478	2,187,762	2,041,738	1,659,587	1,348,963	1,230,269
265	10/2/2018 12:12:00	63.1	87.9	67.1	60.9	65.1	64.3	62.9	61.7	61.6	2,041,738	616,595,002	5,128,614	1,230,269	3,235,937	2,691,535	1,949,845	1,479,108	1,445,440
266	10/2/2018 12:17:00	62.5	87.3	64.8	60.3	64.1	63.9	62.3	61.3	60.9	1,778,279	537,031,796	3,019,952	1,071,519	2,570,396	2,454,709	1,698,244	1,348,963	1,230,269
267	10/2/2018 12:22:00	63	87.8	65.2	61.1	64.4	64.2	63	61.8	61.6	1,995,262	602,559,586	3,311,311	1,288,250	2,754,229	2,630,268	1,995,262	1,513,561	1,445,440
268	10/2/2018 12:27:00	65.1	89.9	75.7	60.2	71.3	68	62.4	61.2	60.8	**2,091,512**	**631,626,517**	**7,666,978**	**1,089,750**	**3,278,061**	**2,860,282**	**1,972,553**	**1,415,909**	**1,337,854**
269	10/2/2018 12:32:00	63.4	88.2	70.8	59.5	65.8	64.9	62.9	61.2	60.9	2,187,762	660,693,448	12,022,644	891,251	3,801,894	3,090,295	1,949,845	1,318,257	1,230,269
270	10/2/2018 12:37:00	62	86.8	64.1	59.7	63.2	62.9	62.1	60.8	60.4	1,584,893	478,630,092	2,570,396	933,254	2,089,296	1,949,845	1,621,810	1,202,264	1,096,478
271	10/2/2018 12:42:00	63.4	88.1	66.3	61	64.5	64.2	63.4	61.9	61.7	2,187,762	645,654,229	4,265,795	1,258,925	2,818,383	2,630,268	2,187,762	1,548,817	1,479,108
272	10/2/2018 12:47:00	62.7	87.5	66.4	60.8	64.2	63.7	62.5	61.7	61.4	1,862,087	562,341,325	4,365,158	1,202,264	2,630,268	2,344,229	1,778,279	1,479,108	1,380,384
273	10/2/2018 12:52:00	62.6	87.4	66.1	60.8	63.5	63.3	62.6	61.7	61.5	1,819,701	549,540,874	4,073,803	1,202,264	2,238,721	2,137,962	1,819,701	1,479,108	1,412,538
274	10/2/2018 12:57:00	62.4	87.2	64.8	60.1	64.3	63.6	62.1	61.3	61	1,737,801	524,807,460	3,019,952	1,023,293	2,691,535	2,290,868	1,621,810	1,348,963	1,258,925
275	10/2/2018 13:02:00	62.1	86.8	65.6	59.3	64.1	63.2	61.9	60.7	60.4	1,621,810	478,630,092	3,630,781	851,138	2,570,396	2,089,296	1,548,817	1,174,898	1,096,478
276	10/2/2018 13:07:00	62.6	87.4	68.9	60.2	64.4	63.6	62.2	61.1	60.7	1,819,701	549,540,874	7,762,471	1,047,129	2,754,229	2,290,868	1,659,587	1,288,250	1,174,898
277	10/2/2018 13:12:00	62.2	87	66.6	60.2	63.5	63.1	62.1	61.1	60.8	1,659,587	501,187,234	4,570,882	1,047,129	2,238,721	2,041,738	1,621,810	1,288,250	1,202,264
278	10/2/2018 13:17:00	62.7	87.5	64.4	60.9	63.7	63.5	62.8	61.7	61.4	1,862,087	562,341,325	2,754,229	1,230,269	2,344,229	2,238,721	1,905,461	1,479,108	1,380,384
279	10/2/2018 13:22:00	62.9	87.7	65.8	60	64.9	64.6	62.6	61.1	60.7	1,949,845	588,843,655	3,801,894	1,000,000	3,090,295	2,884,032	1,819,701	1,288,250	1,174,898
280	10/2/2018 13:27:00	62.3	87.1	68.1	60.2	64.9	63.1	61.9	61	60.8	1,698,244	512,861,384	6,456,542	1,047,129	3,090,295	2,041,738	1,548,817	1,258,925	1,202,264
281	10/2/2018 13:32:00	63.1	87.9	71.5	61.2	64.3	63.9	62.8	61.9	61.7	2,041,738	616,595,002	14,125,375	1,318,257	2,691,535	2,454,709	1,905,461	1,548,817	1,479,108

Appendix I - Measurement LT-2

Address	Start Time	Leq (dBA)	SEL (dBA)	Lmax (dBA)	Lmin (dBA)	L5 (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	L95 (dBA)	Leq (Energy)	LE (SEL) (Energy)	Lmax (Energy)	Lmin (Energy)	L5 (Energy)	L10 (Energy)	L50 (Energy)	L90 (Energy)	L95 (Energy)
282	10/2/2018 13:37:00	62.3	87.1	65	58.8	64.2	63.3	62.1	61.3	61	1,698,244	512,861,384	3,162,278	758,578	2,630,268	2,137,962	1,621,810	1,348,963	1,258,925
283	10/2/2018 13:42:00	62.3	87	64.6	60.9	63.4	63.1	62.1	61.4	61.2	1,698,244	501,187,234	2,884,032	1,230,269	2,187,762	2,041,738	1,621,810	1,380,384	1,318,257
284	10/2/2018 13:47:00	62.1	86.8	64	59.8	63.3	63	62	61.2	60.9	1,621,810	478,630,092	2,511,886	954,993	2,137,962	1,995,262	1,584,893	1,318,257	1,230,269
285	10/2/2018 13:52:00	62.5	87.3	68.2	59.5	64.4	63.7	62	61	60.9	1,778,279	537,031,796	6,606,934	891,251	2,754,229	2,344,229	1,584,893	1,258,925	1,230,269
286	10/2/2018 13:57:00	62.4	87.2	65.1	60.1	63.8	63.4	62.3	61.2	60.8	1,737,801	524,807,460	3,235,937	1,023,293	2,398,833	2,187,762	1,698,244	1,318,257	1,202,264
287	10/2/2018 14:02:00	62.6	87.4	64.3	60.2	63.8	63.6	62.6	61.5	61.1	1,819,701	549,540,874	2,691,535	1,047,129	2,398,833	2,290,868	1,819,701	1,412,538	1,288,250
288	10/2/2018 14:07:00	62.4	87.2	64.5	60.9	63.6	63.2	62.3	61.5	61.4	1,737,801	524,807,460	2,818,383	1,230,269	2,290,868	2,089,296	1,698,244	1,412,538	1,380,384
		Leq (RAW)	**SEL (RAW)**	**Lmax (RAW)**	**Lmin (RAW)**	**L5 (RAW)**	**L10 (RAW)**	**L50 (RAW)**	**L90 (RAW)**	**L95 (RAW)**	**Leq (ADJ)**	**SEL (ADJ)**	**Lmax (ADJ)**	**Lmin (ADJ)**	**L5 (ADJ)**	**L10 (ADJ)**	**L50 (ADJ)**	**L90 (ADJ)**	**L95 (ADJ)**
		61.0	**85.8**	**79.8**	**49.9**	**63.2**	**62.3**	**60.6**	**59.3**	**59.0**	**60.9**	**85.7**	**76.1**	**49.9**	**62.8**	**62.1**	**60.6**	**59.4**	**59.0**

Appendix I - Measurement LT-3

Address	Start Time	Leq (dBA)	SEL (dBA)	Lmax (dBA)	Lmin (dBA)	L5 (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	L95 (dBA)	Leq (Energy)	LE (SEL) (Energy)	Lmax (Energy)	Lmin (Energy)	L5 (Energy)	L10 (Energy)	L50 (Energy)	L90 (Energy)	L95 (Energy)
1	10/1/2018 14:54:00	59	83.8	69	51	63.7	62	57.3	52.9	51.9	794,328	239,883,292	7,943,282	125,893	2,344,229	1,584,893	537,032	194,984	154,882
2	10/1/2018 14:59:00	60.3	85	72.1	50.5	64.5	63.3	58.5	52.1	51.6	1,071,519	316,227,766	16,218,101	112,202	2,818,383	2,137,962	707,946	162,181	144,544
3	10/1/2018 15:04:00	58.4	83.2	65.4	48.3	63	62.4	56.2	49.8	48.9	691,831	208,929,613	3,467,369	67,608	1,995,262	1,737,801	416,869	95,499	77,625
4	10/1/2018 15:09:00	64.6	89.4	76.7	50.4	71.9	68.2	58.8	52.4	51.6	744,880	224,950,231	8,657,919	73,438	2,148,258	1,779,188	452,813	106,597	85,076
5	10/1/2018 15:14:00	63	87.8	78	49.6	68.5	64.4	57.3	50.7	50.1	797,929	240,970,850	13,848,469	79,267	2,301,254	1,820,576	488,756	117,694	92,527
6	10/1/2018 15:19:00	59.3	84.1	72.8	49.3	63.9	62.7	57.2	51.1	50	851,138	257,039,578	19,054,607	85,114	2,454,709	1,862,087	524,807	128,825	100,000
7	10/1/2018 15:24:00	59.2	84	67.7	49.8	63.8	62.6	57.8	51.5	50.8	831,764	251,188,643	5,888,437	95,499	2,398,833	1,819,701	602,560	141,254	120,226
8	10/1/2018 15:29:00	59.7	84.5	68	50	64.9	63.4	58.1	51.6	50.6	933,254	281,838,293	6,309,573	100,000	3,090,295	2,187,762	645,654	144,544	114,815
9	10/1/2018 15:34:00	59.8	84.6	68.7	50.6	64.7	62.9	58.1	51.9	51.5	954,993	288,403,150	7,413,102	114,815	2,951,209	1,949,845	645,654	154,882	141,254
10	10/1/2018 15:39:00	61.1	85.9	73.6	52.2	65.3	63.6	59	53.9	53.2	1,288,250	389,045,145	22,908,677	165,959	3,388,442	2,290,868	794,328	245,471	208,930
11	10/1/2018 15:44:00	58.8	83.6	65.9	50.5	63	62.1	57.7	52.1	51.6	758,578	229,086,765	3,890,451	112,202	1,995,262	1,621,810	588,844	162,181	144,544
12	10/1/2018 15:49:00	59	83.8	66.6	49.8	63.3	62.4	57.6	51.8	51.1	794,328	239,883,292	4,570,882	95,499	2,137,962	1,737,801	575,440	151,356	128,825
13	10/1/2018 15:54:00	59.6	84.4	70.5	49.3	64	63	57.7	51.2	50.6	912,011	275,422,870	11,220,185	85,114	2,511,886	1,995,262	588,844	131,826	114,815
14	10/1/2018 15:59:00	59	83.7	65.7	49.3	63.7	62.5	57.2	51.6	51	794,328	234,422,882	3,715,352	85,114	2,344,229	1,778,279	524,807	144,544	125,893
15	10/1/2018 16:04:00	56.5	81.3	64.4	47.9	62.2	61.1	52.5	49.5	49	446,684	134,896,288	2,754,229	61,660	1,659,587	1,288,250	177,828	89,125	79,433
16	10/1/2018 16:09:00	59.4	84.2	68.8	47.6	64.3	63.3	57.1	50.4	49.3	870,964	263,026,799	7,585,776	57,544	2,691,535	2,137,962	512,861	109,648	85,114
17	10/1/2018 16:14:00	58.3	83.1	68.6	48.2	63	61.9	56	49.7	49.2	676,083	204,173,794	7,244,360	66,069	1,995,262	1,548,817	398,107	93,325	83,176
18	10/1/2018 16:19:00	59.3	84.1	69.7	47.7	64.2	62.5	56.9	49.8	49.4	851,138	257,039,578	9,332,543	58,884	2,630,268	1,778,279	489,779	95,499	87,096
19	10/1/2018 16:24:00	63.6	88.4	79.6	49.1	67.9	63.5	58.1	51.5	50.2	1,006,689	304,015,087	11,879,958	108,849	3,423,342	2,003,530	603,660	155,414	136,156
20	10/1/2018 16:29:00	66.4	91.1	85.2	53.6	69.9	66.4	59.9	55.4	54.4	1,162,239	350,990,595	14,427,372	158,815	4,216,416	2,228,781	717,541	215,328	185,216
21	10/1/2018 16:34:00	61.2	86	72.3	53.2	67	63.9	59.2	54.4	53.7	1,318,257	398,107,171	16,982,437	208,930	5,011,872	2,454,709	831,764	275,423	234,423
22	10/1/2018 16:39:00	59.4	84.1	68.2	52.9	64	61.9	57.8	54	53.6	870,964	257,039,578	6,606,934	194,984	2,511,886	1,548,817	602,560	251,189	229,087
23	10/1/2018 16:44:00	58.7	83.4	67.5	51.8	63.1	62.1	56.5	53.1	52.9	741,310	218,776,162	5,623,413	151,356	2,041,738	1,621,810	446,684	204,174	194,984
24	10/1/2018 16:49:00	58.2	82.9	65.3	52.9	62.8	61.7	55.8	53.3	53.2	660,693	194,984,460	3,388,442	194,984	1,905,461	1,479,108	380,189	213,796	208,930
25	10/1/2018 16:54:00	59.4	84.2	71.1	52.9	63.6	62.6	56.9	53.7	53.5	870,964	263,026,799	12,882,496	194,984	2,290,868	1,819,701	489,779	234,423	223,872
26	10/1/2018 16:59:00	59.4	84.1	68.3	53.5	63.4	62.5	57.6	54.2	53.9	870,964	257,039,578	6,760,830	223,872	2,187,762	1,778,279	575,440	263,027	245,471
27	10/1/2018 17:04:00	60.9	85.7	76.3	52.8	65	63.2	56.5	53.6	53.4	1,230,269	371,535,229	42,657,952	190,546	3,162,278	2,089,296	446,684	229,087	218,776
28	10/1/2018 17:09:00	59.1	83.8	68.7	52.7	63.8	61.8	57.2	53.7	53.2	812,831	239,883,292	7,413,102	186,209	2,398,833	1,513,561	524,807	234,423	208,930
29	10/1/2018 17:14:00	59.1	83.8	69.4	52.8	62.8	61.9	57.6	53.5	53.4	812,831	239,883,292	8,709,636	190,546	1,905,461	1,548,817	575,440	223,872	218,776
30	10/1/2018 17:19:00	59.9	84.6	70.8	53.2	63.8	62.6	57.8	54	53.9	977,237	288,403,150	12,022,644	208,930	2,398,833	1,819,701	602,560	251,189	245,471
31	10/1/2018 17:24:00	60.7	85.5	72.5	53	65.7	63.3	57.4	54.4	53.4	1,174,898	354,813,389	17,782,794	199,526	3,715,352	2,137,962	549,541	275,423	218,776
32	10/1/2018 17:29:00	60	84.7	65.7	52.6	63.7	63	59	54.4	53.9	1,000,000	295,120,923	3,715,352	181,970	2,344,229	1,995,262	794,328	275,423	245,471
33	10/1/2018 17:34:00	61.2	85.9	72.9	50.8	66	64.4	58.4	52.2	51.4	1,318,257	389,045,145	19,498,446	120,226	3,981,072	2,754,229	691,831	165,959	138,038
34	10/1/2018 17:39:00	58.1	82.9	65.4	50.3	62.4	61.5	56.3	51.2	50.6	645,654	194,984,460	3,467,369	107,152	1,737,801	1,412,538	426,580	131,826	114,815
35	10/1/2018 17:44:00	59	83.8	65.7	50.2	63.6	62.5	57.4	52	51.2	794,328	239,883,292	3,715,352	104,713	2,290,868	1,778,279	549,541	158,489	131,826
36	10/1/2018 17:49:00	61.5	86.3	71.2	50.6	67.3	64.9	59.3	51.8	51.3	1,412,538	426,579,519	13,182,567	114,815	5,370,318	3,090,295	851,138	151,356	134,896
37	10/1/2018 17:54:00	59.2	84	69.2	51.1	64.1	62.6	57	52.3	51.6	831,764	251,188,643	8,317,638	128,825	2,570,396	1,819,701	501,187	169,824	144,544
38	10/1/2018 17:59:00	58.2	83	66.4	49	63.6	62	55.9	50.3	50	660,693	199,526,231	4,365,158	79,433	2,290,868	1,584,893	389,045	107,152	100,000
39	10/1/2018 18:04:00	58	82.8	66	50.8	63.3	62.4	54.4	51.5	51.3	630,957	190,546,072	3,981,072	120,226	2,137,962	1,737,801	275,423	141,254	134,896
40	10/1/2018 18:09:00	58.7	83.5	66.5	51.4	63.6	62.3	56.5	52.2	52	741,310	223,872,114	4,466,836	138,038	2,290,868	1,698,244	446,684	165,959	158,489
41	10/1/2018 18:14:00	61	85.8	74.3	51.9	64.8	63.3	57.6	52.8	52.5	1,258,925	380,189,396	26,915,348	154,882	3,019,952	2,137,962	575,440	190,546	177,828
42	10/1/2018 18:19:00	60	84.8	67.9	51.2	64.5	63.8	57.6	52.2	51.6	1,000,000	301,995,172	6,165,950	131,826	2,818,383	2,398,833	575,440	165,959	144,544
43	10/1/2018 18:24:00	59.6	84.4	65.2	51.9	64.3	63.5	57.4	52.7	52.3	912,011	275,422,870	3,311,311	154,882	2,691,535	2,238,721	549,541	186,209	169,824
44	10/1/2018 18:29:00	59.9	84.7	70.3	51.7	65	63.2	56.8	53.1	52.3	977,237	295,120,923	10,715,193	147,911	3,162,278	2,089,296	478,630	204,174	169,824
45	10/1/2018 18:34:00	58.6	83.4	67.8	52.7	63.8	62.7	55.2	53.6	53.4	724,436	218,776,162	6,025,596	186,209	2,398,833	1,862,087	331,131	229,087	218,776
46	10/1/2018 18:39:00	59.6	84.3	68	51.3	64.9	63.5	56.4	52.5	51.9	912,011	269,153,480	6,309,573	134,896	3,090,295	2,238,721	436,516	177,828	154,882
47	10/1/2018 18:44:00	59.5	84.2	69.8	51.4	63.7	62.9	57.4	52.4	52.2	891,251	263,026,799	9,549,926	138,038	2,344,229	1,949,845	549,541	173,780	165,959
48	10/1/2018 18:49:00	59.7	84.5	65.8	52.4	63.8	63.2	58.4	53.4	53	933,254	281,838,293	3,801,894	173,780	2,398,833	2,089,296	691,831	218,776	199,526
49	10/1/2018 18:54:00	58.7	83.5	64.9	52.9	62.9	61.8	57.5	53.6	53.4	741,310	223,872,114	3,090,295	194,984	1,949,845	1,513,561	562,341	229,087	218,776
50	10/1/2018 18:59:00	57.1	81.9	65.8	52	62.2	61.2	54.2	52.7	52.4	512,861	154,881,662	3,801,894	158,489	1,659,587	1,318,257	263,027	186,209	173,780
51	10/1/2018 19:04:00	57.9	82.6	64.5	52.1	61.9	61.2	56.2	52.8	52.6	616,595	181,970,086	2,818,383	162,181	1,548,817	1,318,257	416,869	190,546	181,970
52	10/1/2018 19:09:00	59.3	84.1	66.8	54	63.9	62.7	57.3	54.7	54.5	851,138	257,039,578	4,786,301	251,189	2,454,709	1,862,087	537,032	295,121	281,838
53	10/1/2018 19:14:00	59.4	84.2	67.4	54.6	63.2	62.3	57.7	55.7	55.4	870,964	263,026,799	5,495,409	288,403	2,089,296	1,698,244	588,844	371,535	346,737
54	10/1/2018 19:19:00	59.5	84.3	64.5	56.3	63	62.2	58.3	56.9	56.8	891,251	269,153,480	2,818,383	426,580	1,995,262	1,659,587	676,083	489,779	478,630
55	10/1/2018 19:24:00	59.3	84.1	65.2	56	62.8	62	57.9	56.7	56.5	851,138	257,039,578	3,311,311	398,107	1,905,461	1,584,893	616,595	467,735	446,684
56	10/1/2018 19:29:00	59.4	84.2	67.6	56.3	63.2	61.9	58.1	57.2	56.9	870,964	263,026,799	5,754,399	426,580	2,089,296	1,548,817	645,654	524,807	489,779
57	10/1/2018 19:34:00	60	84.7	68.9	56.1	63.4	62.6	58.3	57.1	56.9	1,000,000	295,120,923	7,762,471	407,380	2,187,762	1,819,701	676,083	512,861	489,779
58	10/1/2018 19:39:00	59.1	83.9	64.4	56.5	62.4	61.3	58.2	57.1	56.9	812,831	245,470,892	2,754,229	446,684	1,737,801	1,348,963	660,693	512,861	489,779
59	10/1/2018 19:44:00	59.3	84.1	64.6	56.9	62.1	61.3	58.6	57.7	57.5	851,138	257,039,578	2,884,032	489,779	1,621,810	1,348,963	724,436	588,844	562,341
60	10/1/2018 19:49:00	59.3	84.1	64.5	55.7	62.5	61.8	58.4	56.9	56.6	851,138	257,039,578	2,818,383	371,535	1,778,279	1,513,561	691,831	489,779	457,088

Appendix I - Measurement LT-3

Address	Start Time	Leq (dBA)	SEL (dBA)	Lmax (dBA)	Lmin (dBA)	L5 (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	L95 (dBA)	Leq (Energy)	LE (SEL) (Energy)	Lmax (Energy)	Lmin (Energy)	L5 (Energy)	L10 (Energy)	L50 (Energy)	L90 (Energy)	L95 (Energy)
61	10/1/2018 19:54:00	59.7	84.4	65.9	56.7	62.6	61.8	58.8	57.8	57.5	933,254	275,422,870	3,890,451	467,735	1,819,701	1,513,561	758,578	602,560	562,341
62	10/1/2018 19:59:00	59.3	84	66	56.9	62.2	61.4	58.4	57.6	57.5	851,138	251,188,643	3,981,072	489,779	1,659,587	1,380,384	691,831	575,440	562,341
63	10/1/2018 20:04:00	59.2	84	65.6	56.7	62	61.1	58.4	57.6	57.4	831,764	251,188,643	3,630,781	467,735	1,584,893	1,288,250	691,831	575,440	549,541
64	10/1/2018 20:09:00	59.2	84	66.8	56.9	62.2	60.9	58.5	57.4	57.2	831,764	251,188,643	4,786,301	489,779	1,659,587	1,230,269	707,946	549,541	524,807
65	10/1/2018 20:14:00	59.4	84.2	67.7	56.6	62.4	61.4	58.3	57.4	57.2	870,964	263,026,799	5,888,437	457,088	1,737,801	1,380,384	676,083	549,541	524,807
66	10/1/2018 20:19:00	59.4	84.1	64.6	56.9	62.7	61.6	58.4	57.5	57.3	870,964	257,039,578	2,884,032	489,779	1,862,087	1,445,440	691,831	562,341	537,032
67	10/1/2018 20:24:00	59.1	83.8	64.4	55.3	62.2	61.4	58.3	56.8	56.3	812,831	239,883,292	2,754,229	338,844	1,659,587	1,380,384	676,083	478,630	426,580
68	10/1/2018 20:29:00	60	84.8	65.3	57	63.4	62.8	58.9	57.5	57.3	1,000,000	301,995,172	3,388,442	501,187	2,187,762	1,905,461	776,247	562,341	537,032
69	10/1/2018 20:34:00	59.6	84.3	66.6	56.3	62.9	62.1	58.4	56.9	56.8	912,011	269,153,480	4,570,882	426,580	1,949,845	1,621,810	691,831	489,779	478,630
70	10/1/2018 20:39:00	61.9	86.6	73.7	56.1	65.2	63.4	59.4	57.5	57.1	**881,574**	**263,096,529**	**4,100,831**	**431,548**	**1,927,653**	**1,567,686**	**661,394**	**507,293**	**484,204**
71	10/1/2018 20:44:00	59.3	84.1	65.6	56.4	62.8	61.8	58	57.2	56.9	851,138	257,039,578	3,630,781	436,516	1,905,461	1,513,561	630,957	524,807	489,779
72	10/1/2018 20:49:00	59.8	84.6	65.7	56.3	63.2	62.6	58.5	57	56.7	954,993	288,403,150	3,715,352	426,580	2,089,296	1,819,701	707,946	501,187	467,735
73	10/1/2018 20:54:00	59.7	84.5	65.5	56.3	62.9	62.2	58.6	57.4	57.1	933,254	281,838,293	3,548,134	426,580	1,949,845	1,659,587	724,436	549,541	512,861
74	10/1/2018 20:59:00	60.3	85	67.1	56.3	63.8	62.9	59	57.5	57.3	1,071,519	316,227,766	5,128,614	426,580	2,398,833	1,949,845	794,328	562,341	537,032
75	10/1/2018 21:04:00	60.6	85.4	69	56.7	63.5	62.7	59.5	57.6	57.4	1,148,154	346,736,850	7,943,282	467,735	2,238,721	1,862,087	891,251	575,440	549,541
76	10/1/2018 21:09:00	59.5	84.3	68	56.4	62.9	61.7	58.2	57.3	57	891,251	269,153,480	6,309,573	436,516	1,949,845	1,479,108	660,693	537,032	501,187
77	10/1/2018 21:14:00	58.7	83.5	64.6	55.8	62.3	60.7	57.8	56.7	56.4	741,310	223,872,114	2,884,032	380,189	1,698,244	1,174,898	602,560	467,735	436,516
78	10/1/2018 21:19:00	58.8	83.6	63.6	56.6	61.4	60.8	58.1	57.3	57.2	758,578	229,086,765	2,290,868	457,088	1,380,384	1,202,264	645,654	537,032	524,807
79	10/1/2018 21:24:00	59.2	83.9	64.8	56.3	62.3	61.5	58.1	57.2	56.8	831,764	245,470,892	3,019,952	426,580	1,698,244	1,412,538	645,654	524,807	478,630
80	10/1/2018 21:29:00	58.9	83.7	65.5	56.1	62.2	61	57.9	56.9	56.7	776,247	234,422,882	3,548,134	407,380	1,659,587	1,258,925	616,595	489,779	467,735
81	10/1/2018 21:34:00	58.5	83.3	65.9	55.6	61.5	60.3	57.6	56.4	56.1	707,946	213,796,209	3,890,451	363,078	1,412,538	1,071,519	575,440	436,516	407,380
82	10/1/2018 21:39:00	59.5	84.3	68.6	56.2	63.3	61.9	58	57	56.8	891,251	269,153,480	7,244,360	416,869	2,137,962	1,548,817	630,957	501,187	478,630
83	10/1/2018 21:44:00	60.8	85.6	69	56.3	66.8	63.8	58.5	57.3	57	1,202,264	363,078,055	7,943,282	426,580	4,786,301	2,398,833	707,946	537,032	501,187
84	10/1/2018 21:49:00	58.6	83.3	66.7	55.8	61.7	60.3	57.9	56.9	56.5	724,436	213,796,209	4,677,351	380,189	1,479,108	1,071,519	616,595	489,779	446,684
85	10/1/2018 21:54:00	57.5	82.2	64.2	55.6	59.5	58.1	57	56.3	56.1	562,341	165,958,691	2,630,268	363,078	891,251	645,654	501,187	426,580	407,380
86	10/1/2018 21:59:00	58	82.8	62.6	55.9	60.9	59.6	57.5	56.5	56.3	630,957	190,546,072	1,819,701	389,045	1,230,269	912,011	562,341	446,684	426,580
87	10/1/2018 22:04:00	58.3	83.1	64.7	55.8	61.2	60	57.7	56.6	56.4	676,083	204,173,794	2,951,209	380,189	1,318,257	1,000,000	588,844	457,088	436,516
88	10/1/2018 22:09:00	63.2	87.9	77.9	55.5	69	61.7	57.4	56.5	56.2	**726,165**	**216,630,280**	**2,702,959**	**398,529**	**1,433,537**	**1,087,449**	**624,769**	**479,138**	**457,573**
89	10/1/2018 22:14:00	58.9	83.6	63.9	56.2	61.9	60.7	58.2	57	56.8	776,247	229,086,765	2,454,709	416,869	1,548,817	1,174,898	660,693	501,187	478,630
90	10/1/2018 22:19:00	58.3	83.1	64.3	55.4	61	59.8	57.9	56.6	56.4	676,083	204,173,794	2,691,535	346,737	1,258,925	954,993	616,595	457,088	436,516
91	10/1/2018 22:24:00	58.9	83.6	65.8	56.1	62.9	61	58	56.9	56.8	776,247	229,086,765	3,801,894	407,380	1,949,845	1,258,925	630,957	489,779	478,630
92	10/1/2018 22:29:00	58.1	82.8	64.7	55.7	60.3	58.9	57.7	56.5	56.3	645,654	190,546,072	2,951,209	371,535	1,071,519	776,247	588,844	446,684	426,580
93	10/1/2018 22:34:00	57.3	82.1	62.8	55.5	58.4	58.1	57.1	56.4	56.1	537,032	162,181,010	1,905,461	354,813	691,831	645,654	512,861	436,516	407,380
94	10/1/2018 22:39:00	57.8	82.6	64.7	55.4	60.4	58.7	57.3	56.4	56	602,560	181,970,086	2,951,209	346,737	1,096,478	741,310	537,032	436,516	398,107
95	10/1/2018 22:44:00	58.1	82.9	64.7	54.6	62	60.4	57.2	56	55.7	645,654	194,984,460	2,951,209	288,403	1,584,893	1,096,478	524,807	398,107	371,535
96	10/1/2018 22:49:00	57.4	82.2	63.8	55.5	58.5	58.1	57.1	56.2	56	549,541	165,958,691	2,398,833	354,813	707,946	645,654	512,861	416,869	398,107
97	10/1/2018 22:54:00	57.1	81.9	62.4	55.2	58.6	58.3	56.7	55.8	55.7	512,861	154,881,662	1,737,801	331,131	724,436	676,083	467,735	380,189	371,535
98	10/1/2018 22:59:00	57.2	81.9	62.3	55.3	58.5	58	56.9	56.2	56	524,807	154,881,662	1,698,244	338,844	707,946	630,957	489,779	416,869	398,107
99	10/1/2018 23:04:00	57.4	82.2	61.9	55.5	59.3	58.5	57	56.3	56.2	549,541	165,958,691	1,548,817	354,813	851,138	707,946	501,187	426,580	416,869
100	10/1/2018 23:09:00	57.8	82.6	66.1	55.8	59.6	58.4	57.1	56.4	56.2	602,560	181,970,086	4,073,803	380,189	912,011	691,831	512,861	436,516	416,869
101	10/1/2018 23:14:00	57.5	82.2	64.8	55	59.4	58.3	57.1	55.9	55.7	562,341	165,958,691	3,019,952	316,228	870,964	676,083	512,861	389,045	371,535
102	10/1/2018 23:19:00	57.6	82.4	62.4	55.1	59.8	58.6	57.3	56.2	56	575,440	173,780,083	1,737,801	323,594	954,993	724,436	537,032	416,869	398,107
103	10/1/2018 23:24:00	57.8	82.5	63.3	55.6	60.2	58.7	57.3	56.2	56	602,560	177,827,941	2,137,962	363,078	1,047,129	741,310	537,032	416,869	398,107
104	10/1/2018 23:29:00	57	81.8	61.7	55.1	58.6	58.2	56.8	56	55.8	501,187	151,356,125	1,479,108	323,594	724,436	660,693	478,630	398,107	380,189
105	10/1/2018 23:34:00	57.8	82.6	66.3	54.8	60.2	58.5	56.9	55.9	55.7	602,560	181,970,086	4,265,795	301,995	1,047,129	707,946	489,779	389,045	371,535
106	10/1/2018 23:39:00	57	81.7	63.5	55.2	58.2	57.7	56.7	55.9	55.7	501,187	147,910,839	2,238,721	331,131	660,693	588,844	467,735	389,045	371,535
107	10/1/2018 23:44:00	57.3	82.1	65.1	54.8	60.4	58.6	56.5	55.5	55.3	537,032	162,181,010	3,235,937	301,995	1,096,478	724,436	446,684	354,813	338,844
108	10/1/2018 23:49:00	57.3	82.1	65.3	54.8	59.5	58.4	56.5	55.5	55.4	537,032	162,181,010	3,388,442	301,995	891,251	691,831	446,684	354,813	346,737
109	10/1/2018 23:54:00	56	80.8	57.7	54.6	57.1	56.9	55.9	55.2	55	398,107	120,226,443	588,844	288,403	512,861	489,779	389,045	331,131	316,228
110	10/1/2018 23:59:00	56.7	81.5	61.6	54.7	59.2	58.1	56.2	55.2	55.1	467,735	141,253,754	1,445,440	295,121	831,764	645,654	416,869	331,131	323,594
111	10/2/2018 0:04:00	56.9	81.6	63.6	54.2	58.6	58.2	56.4	55.2	54.9	489,779	144,543,977	2,290,868	263,027	724,436	660,693	436,516	331,131	309,030
112	10/2/2018 0:09:00	56.7	81.4	63.1	54.6	57.8	57.6	56.4	55.4	55.2	467,735	138,038,426	2,041,738	288,403	602,560	575,440	436,516	346,737	331,131
113	10/2/2018 0:14:00	55.9	80.7	58.6	54.3	57.9	57.3	55.6	55	54.9	389,045	117,489,755	724,436	269,153	616,595	537,032	363,078	316,228	309,030
114	10/2/2018 0:19:00	56.2	81	62	54.1	57.9	57	55.9	54.9	54.7	416,869	125,892,541	1,584,893	257,040	616,595	501,187	389,045	309,030	295,121
115	10/2/2018 0:24:00	56	80.8	57	54.6	56.7	56.6	56.1	55.3	55.1	398,107	120,226,443	501,187	288,403	467,735	457,088	407,380	338,844	323,594
116	10/2/2018 0:29:00	56.6	81.4	62.6	54.6	59.2	57.2	56.2	55.3	55	457,088	138,038,426	1,819,701	288,403	831,764	524,807	416,869	338,844	316,228
117	10/2/2018 0:34:00	56.9	81.7	65.4	54.7	58.2	57.5	56.4	55.5	55.2	489,779	147,910,839	3,467,369	295,121	660,693	562,341	436,516	354,813	331,131
118	10/2/2018 0:39:00	56.5	81.2	61.7	54	58	57.3	56.2	55.2	54.9	446,684	131,825,674	1,479,108	251,189	630,957	537,032	416,869	331,131	309,030
119	10/2/2018 0:44:00	56.5	81.3	64.7	54.7	57.5	57.2	56.2	55.4	55.2	446,684	134,896,288	2,951,209	295,121	562,341	524,807	416,869	346,737	331,131
120	10/2/2018 0:49:00	56.3	81.1	58.3	54.3	57.7	57.4	56.2	55	54.8	426,580	128,824,955	676,083	269,153	588,844	549,541	416,869	316,228	301,995
121	10/2/2018 0:54:00	56.1	80.9	58.7	54.2	57.7	57.3	56	55	54.8	407,380	123,026,877	741,310	263,027	588,844	537,032	398,107	316,228	301,995

Appendix I - Measurement LT-3

Address	Start Time	Leq (dBA)	SEL (dBA)	Lmax (dBA)	Lmin (dBA)	L5 (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	L95 (dBA)	Leq (Energy)	LE (SEL) (Energy)	Lmax (Energy)	Lmin (Energy)	L5 (Energy)	L10 (Energy)	L50 (Energy)	L90 (Energy)	L95 (Energy)
122	10/2/2018 0:59:00	56.2	80.9	61.5	54.1	57.6	57.4	56	55	54.8	416,869	123,026,877	1,412,538	257,040	575,440	549,541	398,107	316,228	301,995
123	10/2/2018 1:04:00	55.6	80.4	63.6	53.6	57.2	56.3	55.1	54.3	54.1	363,078	109,647,820	2,290,868	229,087	524,807	426,580	323,594	269,153	257,040
124	10/2/2018 1:09:00	56.2	80.9	65.2	53.9	58.5	57.7	55.6	54.6	54.5	416,869	123,026,877	3,311,311	245,471	707,946	588,844	363,078	288,403	281,838
125	10/2/2018 1:14:00	56	80.8	58.6	53.8	57.6	57.1	55.9	55.1	54.5	398,107	120,226,443	724,436	239,883	575,440	512,861	389,045	323,594	281,838
126	10/2/2018 1:19:00	55.9	80.7	63.2	54	57.5	57.1	55.4	54.7	54.6	389,045	117,489,755	2,089,296	251,189	562,341	512,861	346,737	295,121	288,403
127	10/2/2018 1:24:00	56.2	81	64.8	54.2	58	57.1	55.7	54.8	54.6	416,869	125,892,541	3,019,952	263,027	630,957	512,861	371,535	301,995	288,403
128	10/2/2018 1:29:00	55	79.8	57	53.5	56.1	55.9	55	54.1	54	316,228	95,499,259	501,187	223,872	407,380	389,045	316,228	257,040	251,189
129	10/2/2018 1:34:00	55.6	80.4	58.7	53.8	57.7	56.9	55.3	54.5	54.3	363,078	109,647,820	741,310	239,883	588,844	489,779	338,844	281,838	269,153
130	10/2/2018 1:39:00	55.6	80.4	59.2	53.9	57.1	56.7	55.3	54.5	54.3	363,078	109,647,820	831,764	245,471	512,861	467,735	338,844	281,838	269,153
131	10/2/2018 1:44:00	55.9	80.6	65.2	53.3	57.9	56.7	55.1	54	53.8	389,045	114,815,362	3,311,311	213,796	616,595	467,735	323,594	251,189	239,883
132	10/2/2018 1:49:00	55.3	80.1	57.4	53.4	56.6	56.3	55.1	54.4	54.3	338,844	102,329,299	549,541	218,776	457,088	426,580	323,594	275,423	269,153
133	10/2/2018 1:54:00	54.9	79.7	57	53.4	56.5	55.9	54.8	54	53.8	309,030	93,325,430	501,187	218,776	446,684	389,045	301,995	251,189	239,883
134	10/2/2018 1:59:00	55.6	80.4	61.2	53.3	58	56.6	55.2	54	53.8	363,078	109,647,820	1,318,257	213,796	630,957	457,088	331,131	251,189	239,883
135	10/2/2018 2:04:00	54.9	79.7	57	53.5	56.2	55.8	54.7	54	53.8	309,030	93,325,430	501,187	223,872	416,869	380,189	295,121	251,189	239,883
136	10/2/2018 2:09:00	55.5	80.2	62.6	53.8	57.1	56.2	55.2	54.3	54.2	354,813	104,712,855	1,819,701	239,883	512,861	416,869	331,131	269,153	263,027
137	10/2/2018 2:14:00	55.7	80.5	62.3	53.2	58	57	55.1	54	53.8	371,535	112,201,845	1,698,244	208,930	630,957	501,187	323,594	251,189	239,883
138	10/2/2018 2:19:00	56.4	81.1	67.5	53	59	57.9	54.9	53.8	53.5	436,516	128,824,955	5,623,413	199,526	794,328	616,595	309,030	239,883	223,872
139	10/2/2018 2:24:00	54.5	79.3	56.9	53.4	55.5	55.3	54.4	53.9	53.8	281,838	85,113,804	489,779	218,776	354,813	338,844	275,423	245,471	239,883
140	10/2/2018 2:29:00	54.9	79.7	56.9	53.1	56.4	56	54.7	53.9	53.7	309,030	93,325,430	489,779	204,174	436,516	398,107	295,121	245,471	234,423
141	10/2/2018 2:34:00	55.7	80.4	60.8	53	59	56.7	55.3	53.9	53.6	371,535	109,647,820	1,202,264	199,526	794,328	467,735	338,844	245,471	229,087
142	10/2/2018 2:39:00	54.4	79.2	56.3	52.8	55.9	55.5	54.2	53.4	53.2	275,423	83,176,377	426,580	190,546	389,045	354,813	263,027	218,776	208,930
143	10/2/2018 2:44:00	55	79.7	60.6	52.8	56.7	56.3	54.6	53.6	53.5	316,228	93,325,430	1,148,154	190,546	467,735	426,580	288,403	229,087	223,872
144	10/2/2018 2:49:00	55.1	79.9	58	53	57	56.6	54.7	53.6	53.4	323,594	97,723,722	630,957	199,526	501,187	457,088	295,121	229,087	218,776
145	10/2/2018 2:54:00	55.5	80.3	57.7	52.9	57	56.6	55.5	54	53.6	354,813	107,151,931	588,844	194,984	501,187	457,088	354,813	251,189	229,087
146	10/2/2018 2:59:00	55.6	80.4	59.6	53.3	57.4	57	55.2	54.2	54	363,078	109,647,820	912,011	213,796	549,541	501,187	331,131	263,027	251,189
147	10/2/2018 3:04:00	55.9	80.7	60.2	54.1	57.5	56.9	55.6	54.7	54.6	389,045	117,489,755	1,047,129	257,040	562,341	489,779	363,078	295,121	288,403
148	10/2/2018 3:09:00	55.2	80	59.2	52.9	56.7	56.3	55	54	53.6	331,131	100,000,000	831,764	194,984	467,735	426,580	316,228	251,189	229,087
149	10/2/2018 3:14:00	55.2	80	59.3	52.9	57.5	56.6	55.1	53.4	53.2	331,131	100,000,000	851,138	194,984	562,341	457,088	323,594	218,776	208,930
150	10/2/2018 3:19:00	55.4	80.2	58	53.2	57.1	56.6	55.3	54.1	53.9	346,737	104,712,855	630,957	208,930	512,861	457,088	338,844	257,040	245,471
151	10/2/2018 3:24:00	55	79.8	59.3	52.8	56.6	56	54.9	53.6	53.4	316,228	95,499,259	851,138	190,546	457,088	398,107	309,030	229,087	218,776
152	10/2/2018 3:29:00	55.4	80.2	62.3	52.6	57.5	56.9	55	53.5	53.1	346,737	104,712,855	1,698,244	181,970	562,341	489,779	316,228	223,872	204,174
153	10/2/2018 3:34:00	55.3	80.1	62.7	52.8	57.4	56.9	54.7	53.6	53.4	338,844	102,329,299	1,862,087	190,546	549,541	489,779	295,121	229,087	218,776
154	10/2/2018 3:39:00	55.6	80.3	60	52.7	57.6	57.3	55.2	54.1	53.5	363,078	107,151,931	1,000,000	186,209	575,440	537,032	331,131	257,040	223,872
155	10/2/2018 3:44:00	55.5	80.2	64.8	52.8	57.3	56.3	55	53.7	53.4	354,813	104,712,855	3,019,952	190,546	537,032	426,580	316,228	234,423	218,776
156	10/2/2018 3:49:00	55.8	80.6	59.4	52.9	57.6	57.1	55.7	54.1	53.8	380,189	114,815,362	870,964	194,984	575,440	512,861	371,535	257,040	239,883
157	10/2/2018 3:54:00	55.7	80.5	62.9	52.2	58.2	56.7	55.5	53.7	53.4	371,535	112,201,845	1,949,845	165,959	660,693	467,735	354,813	234,423	218,776
158	10/2/2018 3:59:00	55.4	80.2	60.8	52.5	57.4	56.7	54.9	53.7	53.5	346,737	104,712,855	1,202,264	177,828	549,541	467,735	309,030	234,423	223,872
159	10/2/2018 4:04:00	55	79.8	58	52.6	56.6	56.2	54.9	53.2	53	316,228	95,499,259	630,957	181,970	457,088	416,869	309,030	208,930	199,526
160	10/2/2018 4:09:00	55.9	80.6	63.9	53	58.7	57.5	55.2	53.7	53.4	389,045	114,815,362	2,454,709	199,526	741,310	562,341	331,131	234,423	218,776
161	10/2/2018 4:14:00	56.9	81.7	64.1	53.5	60.4	57.6	56.1	54.9	54.3	489,779	147,910,839	2,570,396	223,872	1,096,478	575,440	407,380	309,030	269,153
162	10/2/2018 4:19:00	56.1	80.9	63.2	53.4	57.7	57.3	55.5	54.1	53.7	407,380	123,026,877	2,089,296	218,776	588,844	537,032	354,813	257,040	234,423
163	10/2/2018 4:24:00	56.6	81.3	62.9	54.4	59	58	55.9	54.9	54.8	457,088	134,896,288	1,949,845	275,423	794,328	630,957	389,045	309,030	301,995
164	10/2/2018 4:29:00	57.4	82.1	63.3	54.6	59.6	58	57.1	55.7	55.3	549,541	162,181,010	2,137,962	288,403	912,011	630,957	512,861	371,535	338,844
165	10/2/2018 4:34:00	59.1	83.9	71.9	54.7	63.3	60.7	57.1	55.8	55.5	812,831	245,470,892	15,488,166	295,121	2,137,962	1,174,898	512,861	380,189	354,813
166	10/2/2018 4:39:00	57	81.7	62.7	54.9	58.1	57.9	56.9	55.6	55.2	501,187	147,910,839	1,862,087	309,030	645,654	616,595	489,779	363,078	331,131
167	10/2/2018 4:44:00	57.6	82.3	63.4	54.4	59.2	58.7	57.2	56	55.5	575,440	169,824,365	2,187,762	275,423	831,764	741,310	524,807	398,107	354,813
168	10/2/2018 4:49:00	58.3	83.1	69.1	55	61.6	60.2	57	55.9	55.6	676,083	204,173,794	8,128,305	316,228	1,445,440	1,047,129	501,187	389,045	363,078
169	10/2/2018 4:54:00	57.8	82.6	64.8	55.4	60.4	59.1	57.2	56	55.9	602,560	181,970,086	3,019,952	346,737	1,096,478	812,831	524,807	398,107	389,045
170	10/2/2018 4:59:00	57.8	82.5	65.7	54.9	59.4	58.6	57.4	56.2	55.8	602,560	177,827,941	3,715,352	309,030	870,964	724,436	549,541	416,869	380,189
171	10/2/2018 5:04:00	58.4	83.2	67.8	54.9	61.4	58.9	57.4	56.8	56.5	691,831	208,929,613	6,025,596	309,030	1,380,384	776,247	549,541	478,630	446,684
172	10/2/2018 5:09:00	57.9	82.7	65.2	54.2	59.6	59	57.5	56.4	55.8	616,595	186,208,714	3,311,311	263,027	912,011	794,328	562,341	436,516	380,189
173	10/2/2018 5:14:00	58.2	83	64.5	55.8	60.8	59.2	57.7	56.7	56.2	660,693	199,526,231	2,818,383	380,189	1,202,264	831,764	588,844	467,735	416,869
174	10/2/2018 5:19:00	58.9	83.7	65.7	55.8	63.1	60.2	58	56.7	56.3	776,247	234,422,882	3,715,352	380,189	2,041,738	1,047,129	630,957	467,735	426,580
175	10/2/2018 5:24:00	60.1	84.9	72.3	56.5	63.6	61	58.5	57.6	57.3	1,023,293	309,029,543	16,982,437	446,684	2,290,868	1,258,925	707,946	575,440	537,032
176	10/2/2018 5:29:00	58.7	83.5	64.2	56.4	59.9	59.6	58.7	57.3	57.1	741,310	223,872,114	2,630,268	436,516	977,237	912,011	741,310	537,032	512,861
177	10/2/2018 5:34:00	59.6	84.3	67	55.8	63.6	61.3	58.7	57.4	56.8	912,011	269,153,480	5,011,872	380,189	2,290,868	1,348,963	741,310	549,541	478,630
178	10/2/2018 5:39:00	59.2	84	63.9	56.8	61.5	60.6	58.8	57.8	57.5	831,764	251,188,643	2,454,709	478,630	1,412,538	1,148,154	758,578	602,560	562,341
179	10/2/2018 5:44:00	59	83.7	65.2	55.6	61.9	60.9	58.6	56.8	56.4	794,328	234,422,882	3,311,311	363,078	1,548,817	1,230,269	724,436	478,630	436,516
180	10/2/2018 5:49:00	60.4	85.2	71.3	56.2	64.5	63	58.7	57.4	57	1,096,478	331,131,121	13,489,629	416,869	2,818,383	1,995,262	741,310	549,541	501,187
181	10/2/2018 5:54:00	59.4	84.2	65.7	57.4	62.6	61.1	58.7	57.9	57.8	870,964	263,026,799	3,715,352	549,541	1,819,701	1,288,250	741,310	616,595	602,560
182	10/2/2018 5:59:00	61.2	86	71	57.7	65	63.5	59.2	58.3	58.1	1,318,257	398,107,171	12,589,254	588,844	3,162,278	2,238,721	831,764	676,083	645,654

Appendix I - Measurement LT-3

Address	Start Time	Leq (dBA)	SEL (dBA)	Lmax (dBA)	Lmin (dBA)	L5 (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	L95 (dBA)	Leq (Energy)	LE (SEL) (Energy)	Lmax (Energy)	Lmin (Energy)	L5 (Energy)	L10 (Energy)	L50 (Energy)	L90 (Energy)	L95 (Energy)
183	10/2/2018 6:04:00	60.1	84.9	69.1	57.1	63.6	62.5	58.8	57.9	57.6	1,023,293	309,029,543	8,128,305	512,861	2,290,868	1,778,279	758,578	616,595	575,440
184	10/2/2018 6:09:00	59.8	84.6	68.5	57.2	63.3	61.7	58.8	58	57.8	954,993	288,403,150	7,079,458	524,807	2,137,962	1,479,108	758,578	630,957	602,560
185	10/2/2018 6:14:00	63.2	87.9	74.5	58.2	67.8	65.4	60.7	58.9	58.8	2,089,296	616,595,002	28,183,829	660,693	6,025,596	3,467,369	1,174,898	776,247	758,578
186	10/2/2018 6:19:00	61	85.8	71.2	58.4	64.6	63.1	59.4	58.8	58.7	1,258,925	380,189,396	13,182,567	691,831	2,884,032	2,041,738	870,964	758,578	741,310
187	10/2/2018 6:24:00	60.3	85.1	64.4	58.2	63.4	62.7	59.5	58.8	58.6	1,071,519	323,593,657	2,754,229	660,693	2,187,762	1,862,087	891,251	758,578	724,436
188	10/2/2018 6:29:00	60.8	85.6	66.1	58.3	64.3	63.4	59.6	58.7	58.5	1,202,264	363,078,055	4,073,803	676,083	2,691,535	2,187,762	912,011	741,310	707,946
189	10/2/2018 6:34:00	61.1	85.9	67.2	58.6	64.2	63.3	59.8	59.1	59	1,288,250	389,045,145	5,248,075	724,436	2,630,268	2,137,962	954,993	812,831	794,328
190	10/2/2018 6:39:00	61.3	86.1	69.1	58	64.8	63.6	59.8	59	58.6	1,348,963	407,380,278	8,128,305	630,957	3,019,952	2,290,868	954,993	794,328	724,436
191	10/2/2018 6:44:00	64.1	88.9	77.8	58.3	67.7	65.6	60.9	58.9	58.7	2,570,396	776,247,117	60,255,959	676,083	5,888,437	3,630,781	1,230,269	776,247	741,310
192	10/2/2018 6:49:00	62.4	87.2	71.8	58.1	66.8	65.1	60.1	58.8	58.6	1,737,801	524,807,460	15,135,612	645,654	4,786,301	3,235,937	1,023,293	758,578	724,436
193	10/2/2018 6:54:00	62	86.8	68.3	58.5	65.9	65	60.6	59.2	58.9	1,584,893	478,630,092	6,760,830	707,946	3,890,451	3,162,278	1,148,154	831,764	776,247
194	10/2/2018 6:59:00	60.9	85.6	67.4	58.2	65.3	63.8	59.4	58.8	58.7	1,230,269	363,078,055	5,495,409	660,693	3,388,442	2,398,833	870,964	758,578	741,310
195	10/2/2018 7:04:00	61.5	86.3	68.8	58.4	64.5	63.4	60.4	59	58.9	1,412,538	426,579,519	7,585,776	691,831	2,818,383	2,187,762	1,096,478	794,328	776,247
196	10/2/2018 7:09:00	61.4	86.1	73	58	64.4	62.9	60.2	58.7	58.4	1,380,384	407,380,278	19,952,623	630,957	2,754,229	1,949,845	1,047,129	741,310	691,831
197	10/2/2018 7:14:00	59.6	84.4	63.9	56.9	62.3	61.6	59.1	57.8	57.5	912,011	275,422,870	2,454,709	489,779	1,698,244	1,445,440	812,831	602,560	562,341
198	10/2/2018 7:19:00	61.7	86.4	67.3	56.7	65.4	64.5	60.7	57.9	57.4	1,479,108	436,515,832	5,370,318	467,735	3,467,369	2,818,383	1,174,898	616,595	549,541
199	10/2/2018 7:24:00	62.7	87.5	72	55.9	66.8	65.2	61.6	57.4	57.2	1,862,087	562,341,325	15,848,932	389,045	4,786,301	3,311,311	1,445,440	549,541	524,807
200	10/2/2018 7:29:00	62	86.8	69.8	55.2	66.6	65.3	60.4	56.7	56.1	1,584,893	478,630,092	9,549,926	331,131	4,570,882	3,388,442	1,096,478	467,735	407,380
201	10/2/2018 7:34:00	60.8	85.6	70.3	55	65.4	63.8	58.7	55.8	55.6	1,202,264	363,078,055	10,715,193	316,228	3,467,369	2,398,833	741,310	380,189	363,078
202	10/2/2018 7:39:00	62.8	87.5	70.8	54.5	67.7	66	61.4	56.5	56.1	1,905,461	562,341,325	12,022,644	281,838	5,888,437	3,981,072	1,380,384	446,684	407,380
203	10/2/2018 7:44:00	63.8	88.5	76.8	56.5	68	65.5	61.4	57.9	57.3	2,398,833	707,945,784	47,863,009	446,684	6,309,573	3,548,134	1,380,384	616,595	537,032
204	10/2/2018 7:49:00	61.2	85.9	68	55	65.8	64.5	59.4	56.4	56	1,318,257	389,045,145	6,309,573	316,228	3,801,894	2,818,383	870,964	436,516	398,107
205	10/2/2018 7:54:00	64.1	88.9	75.4	54.3	70.7	67.4	60.9	55.5	55	2,570,396	776,247,117	34,673,685	269,153	11,748,976	5,495,409	1,230,269	354,813	316,228
206	10/2/2018 7:59:00	60.1	84.9	67.9	53.3	64.3	63.3	58.8	54.3	54	1,023,293	309,029,543	6,165,950	213,796	2,691,535	2,137,962	758,578	269,153	251,189
207	10/2/2018 8:04:00	61.4	86.1	72.1	53.2	65.5	63.7	59.5	54.5	53.9	1,380,384	407,380,278	16,218,101	208,930	3,548,134	2,344,229	891,251	281,838	245,471
208	10/2/2018 8:09:00	61.5	86.2	68.1	53.3	66.3	64.7	60.3	54.7	54.4	1,412,538	416,869,383	6,456,542	213,796	4,265,795	2,951,209	1,071,519	295,121	275,423
209	10/2/2018 8:14:00	61	85.8	69.8	52.2	65.1	64.1	59.6	53.2	52.8	1,258,925	380,189,396	9,549,926	165,959	3,235,937	2,570,396	912,011	208,930	190,546
210	10/2/2018 8:19:00	60.6	85.4	68.3	52.4	65.2	64.1	58.6	53.8	53.1	1,148,154	346,736,850	6,760,830	173,780	3,311,311	2,570,396	724,436	239,883	204,174
211	10/2/2018 8:24:00	59.7	84.5	69	52.4	63.6	62.8	57.8	53.6	53.1	933,254	281,838,293	7,943,282	173,780	2,290,868	1,905,461	602,560	229,087	204,174
212	10/2/2018 8:29:00	61	85.7	67.8	53.3	64.5	63.7	60	55.2	54.6	1,258,925	371,535,229	6,025,596	213,796	2,818,383	2,344,229	1,000,000	331,131	288,403
213	10/2/2018 8:34:00	59.1	83.9	67.2	52.2	63.2	62.2	58.2	53.5	53.1	812,831	245,470,892	5,248,075	165,959	2,089,296	1,659,587	660,693	223,872	204,174
214	10/2/2018 8:39:00	60.2	85	68.1	53	64.2	63.5	58.9	54.3	53.9	1,047,129	316,227,766	6,456,542	199,526	2,630,268	2,238,721	776,247	269,153	245,471
215	10/2/2018 8:44:00	60.3	85	67.1	52.8	64.2	63.3	59.2	54.1	53.5	1,071,519	316,227,766	5,128,614	190,546	2,630,268	2,137,962	831,764	257,040	223,872
216	10/2/2018 8:49:00	60	84.8	67.9	52.4	64.8	63.8	57.5	53.3	53.1	1,000,000	301,995,172	6,165,950	173,780	3,019,952	2,398,833	562,341	213,796	204,174
217	10/2/2018 8:54:00	61.1	85.8	69.5	52.7	65.9	64.5	59.3	53.8	53.2	1,288,250	380,189,396	8,912,509	186,209	3,890,451	2,818,383	851,138	239,883	208,930
218	10/2/2018 8:59:00	59.4	84.1	67.2	52.9	64.1	62.9	57.3	53.7	53.4	870,964	257,039,578	5,248,075	194,984	2,570,396	1,949,845	537,032	234,423	218,776
219	10/2/2018 9:04:00	61.4	86.1	70.3	54.2	65.9	64.9	59.2	55.3	55	1,380,384	407,380,278	10,715,193	263,027	3,890,451	3,090,295	831,764	338,844	316,228
220	10/2/2018 9:09:00	60.4	85.2	68.9	54.1	65	63.7	58.6	55	54.7	1,096,478	331,131,121	7,762,471	257,040	3,162,278	2,344,229	724,436	316,228	295,121
221	10/2/2018 9:14:00	61.9	86.7	75.8	54.9	66.3	63.5	58.6	56	55.8	1,548,817	467,735,141	38,018,940	309,030	4,265,795	2,238,721	724,436	398,107	380,189
222	10/2/2018 9:19:00	60.3	85.1	68.4	55.3	64.1	63	58.8	57	56.8	1,071,519	323,593,657	6,918,310	338,844	2,570,396	1,995,262	758,578	501,187	478,630
223	10/2/2018 9:24:00	59.8	84.6	65.3	55.4	63.6	63	58.2	56.4	56.2	954,993	288,403,150	3,388,442	346,737	2,290,868	1,995,262	660,693	436,516	416,869
224	10/2/2018 9:29:00	61.5	86.3	70.8	57	65.2	63.9	60.1	58.1	57.7	1,412,538	426,579,519	12,022,644	501,187	3,311,311	2,454,709	1,023,293	645,654	588,844
225	10/2/2018 9:34:00	61.5	86.2	68.3	56.5	65.4	64.6	59.8	57.4	57.2	1,412,538	416,869,383	6,760,830	446,684	3,467,369	2,884,032	954,993	549,541	524,807
226	10/2/2018 9:39:00	60.2	85	66.6	55.1	64.3	63.1	58.7	56.2	55.8	1,047,129	316,227,766	4,570,882	323,594	2,691,535	2,041,738	741,310	416,869	380,189
227	10/2/2018 9:44:00	60.3	85.1	67.6	55.8	64.7	63.7	58.2	56.7	56.4	1,071,519	323,593,657	5,754,399	380,189	2,951,209	2,344,229	660,693	467,735	436,516
228	10/2/2018 9:49:00	61.1	85.9	69.3	56.1	66.5	65.2	58	56.9	56.5	1,288,250	389,045,145	8,511,380	407,380	4,466,836	3,311,311	630,957	489,779	446,684
229	10/2/2018 9:54:00	61.3	86.1	67.5	56.9	64.7	64	60.5	57.7	57.4	1,348,963	407,380,278	5,623,413	489,779	2,951,209	2,511,886	1,122,018	588,844	549,541
230	10/2/2018 9:59:00	60.5	85.3	66.7	56.1	64.1	63.5	59.3	57.2	56.9	1,122,018	338,844,156	4,677,351	407,380	2,570,396	2,238,721	851,138	524,807	489,779
231	10/2/2018 10:04:00	59.8	84.6	68.8	55.1	63.4	62.3	58	56.5	56.3	954,993	288,403,150	7,585,776	323,594	2,187,762	1,698,244	630,957	446,684	426,580
232	10/2/2018 10:09:00	60.9	85.7	70	55.3	64.9	64.1	58.7	56.6	56.3	1,230,269	371,535,229	10,000,000	338,844	3,090,295	2,570,396	741,310	457,088	426,580
233	10/2/2018 10:14:00	60.4	85.1	67.6	55.6	64.8	63.8	57.6	56.2	56	1,096,478	323,593,657	5,754,399	363,078	3,019,952	2,398,833	575,440	416,869	398,107
234	10/2/2018 10:19:00	62.1	86.9	75.7	55.7	66.9	64.5	58.7	56.4	56.1	1,621,810	489,778,819	37,153,523	371,535	4,897,788	2,818,383	741,310	436,516	407,380
235	10/2/2018 10:24:00	59.4	84.2	65.8	55.8	63.8	62.3	57.5	56.4	56.2	870,964	263,026,799	3,801,894	380,189	2,398,833	1,698,244	562,341	436,516	416,869
236	10/2/2018 10:29:00	59	83.8	69.5	54.5	62.7	62	57.2	55.5	55.4	794,328	239,883,292	8,912,509	281,838	1,862,087	1,584,893	524,807	354,813	346,737
237	10/2/2018 10:34:00	60.8	85.6	70.9	55.7	65.4	63.7	57.9	56.5	56.3	1,202,264	363,078,055	12,302,688	371,535	3,467,369	2,344,229	616,595	446,684	426,580
238	10/2/2018 10:39:00	60.8	85.5	68.4	55.5	65.6	63.8	58.8	56.3	56	1,202,264	354,813,389	6,918,310	354,813	3,630,781	2,398,833	758,578	426,580	398,107
239	10/2/2018 10:44:00	59.9	84.6	69	55.5	63.8	62.8	58.2	56.3	56.1	977,237	288,403,150	7,943,282	354,813	2,398,833	1,905,461	660,693	426,580	407,380
240	10/2/2018 10:49:00	63	87.8	76.8	55	68	63.9	58.7	55.9	55.6	988,619	295,199,161	5,872,588	385,841	2,344,850	1,927,653	701,002	494,460	466,094
241	10/2/2018 10:54:00	60	84.8	65.8	56.2	63.6	62.9	58.7	57.5	57.2	1,000,000	301,995,172	3,801,894	416,869	2,290,868	1,949,845	741,310	562,341	524,807
242	10/2/2018 10:59:00	59	83.8	67.1	54.4	62.8	61.8	57.5	55.8	55.6	794,328	239,883,292	5,128,614	275,423	1,905,461	1,513,561	562,341	380,189	363,078
243	10/2/2018 11:04:00	60.5	85.2	73	54.2	64.5	62.2	57.9	56.2	55.4	1,122,018	331,131,121	19,952,623	263,027	2,818,383	1,659,587	616,595	416,869	346,737

Appendix I - Measurement LT-3

Address	Start Time	Leq (dBA)	SEL (dBA)	Lmax (dBA)	Lmin (dBA)	L5 (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	L95 (dBA)	Leq (Energy)	LE (SEL) (Energy)	Lmax (Energy)	Lmin (Energy)	L5 (Energy)	L10 (Energy)	L50 (Energy)	L90 (Energy)	L95 (Energy)
244	10/2/2018 11:09:00	61.7	86.4	75	55.7	64.2	63.1	58.7	56.6	56.1	1,479,108	436,515,832	31,622,777	371,535	2,630,268	2,041,738	741,310	457,088	407,380
245	10/2/2018 11:14:00	61.1	85.8	74.8	55.5	65.1	62.9	57.6	55.9	55.8	1,288,250	380,189,396	30,199,517	354,813	3,235,937	1,949,845	575,440	389,045	380,189
246	10/2/2018 11:19:00	59.9	84.7	71.2	54.5	63.6	62.5	57.6	55.3	55	977,237	295,120,923	13,182,567	281,838	2,290,868	1,778,279	575,440	338,844	316,228
247	10/2/2018 11:24:00	59.5	84.3	66.6	52.2	63.6	62.6	58	55.6	54.6	891,251	269,153,480	4,570,882	165,959	2,290,868	1,819,701	630,957	363,078	288,403
248	10/2/2018 11:29:00	59.4	84.2	64.8	55	63.2	62.5	58	55.7	55.4	870,964	263,026,799	3,019,952	316,228	2,089,296	1,778,279	630,957	371,535	346,737
249	10/2/2018 11:34:00	59.7	84.4	67.2	54.2	63.5	62.6	58.3	55.7	55.3	933,254	275,422,870	5,248,075	263,027	2,238,721	1,819,701	676,083	371,535	338,844
250	10/2/2018 11:39:00	58.5	83.3	64.8	55.1	62.1	61.1	57.1	55.8	55.6	707,946	213,796,209	3,019,952	323,594	1,621,810	1,288,250	512,861	380,189	363,078
251	10/2/2018 11:44:00	58.9	83.7	65	54.7	63.3	62.2	57.2	55.7	55.4	776,247	234,422,882	3,162,278	295,121	2,137,962	1,659,587	524,807	371,535	346,737
252	10/2/2018 11:49:00	60	84.7	67	55.6	63.9	62.5	58.6	56.8	56.6	1,000,000	295,120,923	5,011,872	363,078	2,454,709	1,778,279	724,436	478,630	457,088
253	10/2/2018 11:54:00	59.6	84.3	65.7	55.3	63.2	62.5	58.3	56.2	55.9	912,011	269,153,480	3,715,352	338,844	2,089,296	1,778,279	676,083	416,869	389,045
254	10/2/2018 11:59:00	60.7	85.5	71.1	56.2	64.8	63.4	58.7	56.9	56.6	1,174,898	354,813,389	12,882,496	416,869	3,019,952	2,187,762	741,310	489,779	457,088
255	10/2/2018 12:04:00	59.4	84.2	64	56.3	62.6	61.8	58.6	57.1	57	870,964	263,026,799	2,511,886	426,580	1,819,701	1,513,561	724,436	512,861	501,187
256	10/2/2018 12:09:00	60.3	85.1	66.9	56.5	64	62.7	59.4	57.3	56.8	1,071,519	323,593,657	4,897,788	446,684	2,511,886	1,862,087	870,964	537,032	478,630
257	10/2/2018 12:14:00	60	84.7	71.5	55	64.1	62.9	58	55.8	55.5	1,000,000	295,120,923	14,125,375	316,228	2,570,396	1,949,845	630,957	380,189	354,813
258	10/2/2018 12:19:00	59.5	84.3	68.8	55.5	62.9	62.2	58	56.2	55.9	891,251	269,153,480	7,585,776	354,813	1,949,845	1,659,587	630,957	416,869	389,045
259	10/2/2018 12:24:00	61.6	86.4	68.1	55.7	66.1	65.1	59.5	56.7	56.5	1,445,440	436,515,832	6,456,542	371,535	4,073,803	3,235,937	891,251	467,735	446,684
260	10/2/2018 12:29:00	60.7	85.4	70	56.3	64	63.1	59	57.3	57.1	1,174,898	346,736,850	10,000,000	426,580	2,511,886	2,041,738	794,328	537,032	512,861
261	10/2/2018 12:34:00	60.4	85.1	68	55.1	64.2	63.4	59	56.5	56.1	1,096,478	323,593,657	6,309,573	323,594	2,630,268	2,187,762	794,328	446,684	407,380
262	10/2/2018 12:39:00	59.8	84.6	65.4	55.8	63.5	62.7	58.2	56.7	56.5	954,993	288,403,150	3,467,369	380,189	2,238,721	1,862,087	660,693	467,735	446,684
263	10/2/2018 12:44:00	59.6	84.4	68.1	55.6	63.8	62.1	58.4	56.5	56.2	912,011	275,422,870	6,456,542	363,078	2,398,833	1,621,810	691,831	446,684	416,869
264	10/2/2018 12:49:00	59.5	84.3	66.3	55.8	62.7	61.8	58.5	56.9	56.6	891,251	269,153,480	4,265,795	380,189	1,862,087	1,513,561	707,946	489,779	457,088
265	10/2/2018 12:54:00	59.6	84.4	67.5	55.1	63.8	62.5	58.3	56.1	55.5	912,011	275,422,870	5,623,413	323,594	2,398,833	1,778,279	676,083	407,380	354,813
266	10/2/2018 12:59:00	59.7	84.5	64.6	56.2	62.7	62.1	58.8	57.4	57.1	933,254	281,838,293	2,884,032	416,869	1,862,087	1,621,810	758,578	549,541	512,861
267	10/2/2018 13:04:00	59.5	84.3	67	56.4	63	61.9	58.2	57	56.9	891,251	269,153,480	5,011,872	436,516	1,995,262	1,548,817	660,693	501,187	489,779
268	10/2/2018 13:09:00	59.2	83.9	65	55.8	62.6	61.8	57.8	56.8	56.5	831,764	245,470,892	3,162,278	380,189	1,819,701	1,513,561	602,560	478,630	446,684
269	10/2/2018 13:14:00	60	84.8	64.9	55.9	63.5	62.3	59.5	57.1	56.8	1,000,000	301,995,172	3,090,295	389,045	2,238,721	1,698,244	891,251	512,861	478,630
270	10/2/2018 13:19:00	60.3	85.1	68.1	56.2	63.6	62.7	59.2	57.1	56.7	1,071,519	323,593,657	6,456,542	416,869	2,290,868	1,862,087	831,764	512,861	467,735
271	10/2/2018 13:24:00	60.1	84.9	67.1	55	64.7	63.5	58.5	56.8	56.4	1,023,293	309,029,543	5,128,614	316,228	2,951,209	2,238,721	707,946	478,630	436,516
272	10/2/2018 13:29:00	59.5	84.3	68.7	55.7	63.5	62	58	56.7	56.4	891,251	269,153,480	7,413,102	371,535	2,238,721	1,584,893	630,957	467,735	436,516
273	10/2/2018 13:34:00	59.9	84.7	65.6	55.3	63	62.1	59.3	57.3	56.6	977,237	295,120,923	3,630,781	338,844	1,995,262	1,621,810	851,138	537,032	457,088
274	10/2/2018 13:39:00	60.8	85.6	69.3	56.1	64.9	63.7	59.2	57.5	57.3	1,202,264	363,078,055	8,511,380	407,380	3,090,295	2,344,229	831,764	562,341	537,032
275	10/2/2018 13:44:00	61.4	86.2	74.4	55.9	65.6	63.6	58.5	56.7	56.4	1,380,384	416,869,383	27,542,287	389,045	3,630,781	2,290,868	707,946	467,735	436,516
276	10/2/2018 13:49:00	59.6	84.4	67.3	54.4	64.1	62.3	57.9	56.4	55.9	912,011	275,422,870	5,370,318	275,423	2,570,396	1,698,244	616,595	436,516	389,045
277	10/2/2018 13:54:00	59.8	84.6	66.1	55.3	64.4	63.2	58	56.4	55.9	954,993	288,403,150	4,073,803	338,844	2,754,229	2,089,296	630,957	436,516	389,045
278	10/2/2018 13:59:00	61.9	86.6	76.1	55.4	66.7	64.2	58.2	56.5	56	1,548,817	457,088,190	40,738,028	346,737	4,677,351	2,630,268	660,693	446,684	398,107
279	10/2/2018 14:04:00	61	85.8	72	55.7	65.8	62.9	58.4	56.5	56.1	1,258,925	380,189,396	15,848,932	371,535	3,801,894	1,949,845	691,831	446,684	407,380
280	10/2/2018 14:09:00	60.6	85.4	68.8	56.3	64.1	63.3	59.2	57.6	57.4	1,148,154	346,736,850	7,585,776	426,580	2,570,396	2,137,962	831,764	575,440	549,541
281	10/2/2018 14:14:00	59.5	84.3	66.3	56	63.6	62.6	57.9	56.5	56.3	891,251	269,153,480	4,265,795	398,107	2,290,868	1,819,701	616,595	446,684	426,580
282	10/2/2018 14:19:00	60.3	85.1	66.7	55.3	64	63.2	59.4	56.4	56.1	1,071,519	323,593,657	4,677,351	338,844	2,511,886	2,089,296	870,964	436,516	407,380
283	10/2/2018 14:24:00	61	85.8	69.4	55.5	64.5	62.9	60.2	56.9	56	1,258,925	380,189,396	8,709,636	354,813	2,818,383	1,949,845	1,047,129	489,779	398,107
284	10/2/2018 14:29:00	60.4	85.2	66.4	55.2	64.2	63.3	59.2	57.1	56.2	1,096,478	331,131,121	4,365,158	331,131	2,630,268	2,137,962	831,764	512,861	416,869
285	10/2/2018 14:34:00	59.4	81.3	65.2	55.4	63	62.2	58.3	56.2	55.9	870,964	134,896,288	3,311,311	346,737	1,995,262	1,659,587	676,083	416,869	389,045
286	10/2/2018 14:39:00	59.4	81.3	65.2	55.4	63	62.2	58.3	56.2	55.9	870,964	134,896,288	3,311,311	346,737	1,995,262	1,659,587	676,083	416,869	389,045
287	10/2/2018 14:44:00	59.4	81.3	65.2	55.4	63	62.2	58.3	56.2	55.9	870,964	134,896,288	3,311,311	346,737	1,995,262	1,659,587	676,083	416,869	389,045
288	10/2/2018 14:49:00	59.4	81.3	65.2	55.4	63	62.2	58.3	56.2	55.9	870,964	134,896,288	3,311,311	346,737	1,995,262	1,659,587	676,083	416,869	389,045
		Leq (RAW)	**SEL (RAW)**	**Lmax (RAW)**	**Lmin (RAW)**	**L5 (RAW)**	**L10 (RAW)**	**L50 (RAW)**	**L90 (RAW)**	**L95 (RAW)**	**Leq (ADJ)**	**SEL (ADJ)**	**Lmax (ADJ)**	**Lmin (ADJ)**	**L5 (ADJ)**	**L10 (ADJ)**	**L50 (ADJ)**	**L90 (ADJ)**	**L95 (ADJ)**
		59.5	**84.3**	**85.2**	**47.6**	**63.5**	**62.0**	**57.9**	**55.9**	**55.5**	**59.4**	**84.1**	**77.8**	**47.6**	**63.2**	**61.9**	**57.9**	**55.8**	**55.5**

Appendix I - Measurement LT-4

Address	Start Time	Leq (dBA)	SEL (dBA)	Lmax (dBA)	Lmin (dBA)	L5 (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	L95 (dBA)	Leq (Energy)	LE (SEL) (Energy)	Lmax (Energy)	Lmin (Energy)	L5 (Energy)	L10 (Energy)	L50 (Energy)	L90 (Energy)	L95 (Energy)
1	10/2/2018 16:29:09	62.6	87.4	74.2	58.9	64	63.3	62.1	61.1	61	1,819,701	549,540,874	26,302,680	776,247	2,511,886	2,137,962	1,621,810	1,288,250	1,258,925
2	10/2/2018 16:34:09	62	86.8	65.8	59.5	63.6	63	61.9	60.9	60.5	1,584,893	478,630,092	3,801,894	891,251	2,290,868	1,995,262	1,548,817	1,230,269	1,122,018
3	10/2/2018 16:39:09	61.7	86.5	64	60.1	62.9	62.5	61.7	60.8	60.5	1,479,108	446,683,592	2,511,886	1,023,293	1,949,845	1,778,279	1,479,108	1,202,264	1,122,018
4	10/2/2018 16:44:09	61.8	86.5	64.2	60.5	62.8	62.5	61.7	61	60.8	1,513,561	446,683,592	2,630,268	1,122,018	1,905,461	1,778,279	1,479,108	1,258,925	1,202,264
5	10/2/2018 16:49:09	61.6	86.4	63.6	59.5	62.9	62.6	61.4	60.7	60.4	1,445,440	436,515,832	2,290,868	891,251	1,949,845	1,819,701	1,380,384	1,174,898	1,096,478
6	10/2/2018 16:54:09	61.6	86.3	66	59.4	62.5	62.3	61.4	60.7	60.5	1,445,440	426,579,519	3,981,072	870,964	1,778,279	1,698,244	1,380,384	1,174,898	1,122,018
7	10/2/2018 16:59:09	61.4	86.2	63.6	59.7	62.4	62.2	61.4	60.4	60.1	1,380,384	416,869,383	2,290,868	933,254	1,737,801	1,659,587	1,380,384	1,096,478	1,023,293
8	10/2/2018 17:04:09	61.2	86	62.9	59.2	62	61.9	61.2	60.4	60.1	1,318,257	398,107,171	1,949,845	831,764	1,584,893	1,548,817	1,318,257	1,096,478	1,023,293
9	10/2/2018 17:09:09	61.5	86.2	65.8	59.8	62.4	62.2	61.4	60.6	60.4	1,412,538	416,869,383	3,801,894	954,993	1,737,801	1,659,587	1,380,384	1,148,154	1,096,478
10	10/2/2018 17:14:09	61.5	86.3	63.1	59.3	62.4	62.2	61.6	60.7	60.3	1,412,538	426,579,519	2,041,738	851,138	1,737,801	1,659,587	1,445,440	1,174,898	1,071,519
11	10/2/2018 17:19:09	61.7	86.4	64.9	59.7	63.1	62.7	61.5	60.5	60.3	1,479,108	436,515,832	3,090,295	933,254	2,041,738	1,862,087	1,412,538	1,122,018	1,071,519
12	10/2/2018 17:24:09	61.4	86.1	65.5	58.7	62.6	62.2	61.3	60.1	59.7	1,380,384	407,380,278	3,548,134	741,310	1,819,701	1,659,587	1,348,963	1,023,293	933,254
13	10/2/2018 17:29:09	61.1	85.8	62.3	59.4	61.7	61.6	61.1	60.4	60.2	1,288,250	380,189,396	1,698,244	870,964	1,479,108	1,445,440	1,288,250	1,096,478	1,047,129
14	10/2/2018 17:34:09	61.2	86	63.2	58.8	62.3	62	61.1	60.3	60.1	1,318,257	398,107,171	2,089,296	758,578	1,698,244	1,584,893	1,288,250	1,071,519	1,023,293
15	10/2/2018 17:39:09	61.2	85.9	62.8	59	62.2	62	61.1	60.1	59.8	1,318,257	389,045,145	1,905,461	794,328	1,659,587	1,584,893	1,288,250	1,023,293	954,993
16	10/2/2018 17:44:09	61.8	86.5	64	59.4	63.1	62.8	61.7	60.5	60.1	1,513,561	446,683,592	2,511,886	870,964	2,041,738	1,905,461	1,479,108	1,122,018	1,023,293
17	10/2/2018 17:49:09	62	86.8	65.2	59	63.3	62.9	61.9	61	60.9	1,584,893	478,630,092	3,311,311	794,328	2,137,962	1,949,845	1,548,817	1,258,925	1,230,269
18	10/2/2018 17:54:09	61.6	86.4	64.3	59.4	62.7	62.5	61.5	60.4	60.2	1,445,440	436,515,832	2,691,535	870,964	1,862,087	1,778,279	1,412,538	1,096,478	1,047,129
19	10/2/2018 17:59:09	61.1	85.9	64.3	57.8	62.8	62.5	61	59.5	58.7	1,288,250	389,045,145	2,691,535	602,560	1,905,461	1,778,279	1,258,925	891,251	741,310
20	10/2/2018 18:04:09	61.1	85.8	64.4	58.5	62.6	61.9	61	59.6	59.3	1,288,250	380,189,396	2,754,229	707,946	1,819,701	1,548,817	1,258,925	912,011	851,138
21	10/2/2018 18:09:09	61.5	86.3	67	59.3	63	62.5	61.3	60.3	60.1	1,412,538	426,579,519	5,011,872	851,138	1,995,262	1,778,279	1,348,963	1,071,519	1,023,293
22	10/2/2018 18:14:09	61.5	86.3	64.5	59.5	63.1	62.6	61.3	60.5	60.3	1,412,538	426,579,519	2,818,383	891,251	2,041,738	1,819,701	1,348,963	1,122,018	1,071,519
23	10/2/2018 18:19:09	61.3	86	64.4	59.2	63.2	62.3	61.1	60	59.7	1,348,963	398,107,171	2,754,229	831,764	2,089,296	1,698,244	1,288,250	1,000,000	933,254
24	10/2/2018 18:24:09	61.4	86.1	63.1	59.1	62.5	62.3	61.4	60.3	60	1,380,384	407,380,278	2,041,738	812,831	1,778,279	1,698,244	1,380,384	1,071,519	1,000,000
25	10/2/2018 18:29:09	61.2	86	63.2	58.7	62.2	62	61.3	59.9	59.7	1,318,257	398,107,171	2,089,296	741,310	1,659,587	1,584,893	1,348,963	977,237	933,254
26	10/2/2018 18:34:09	61.9	86.7	68.8	59.2	63.8	63	61.4	60.4	60	1,548,817	467,735,141	7,585,776	831,764	2,398,833	1,995,262	1,380,384	1,096,478	1,000,000
27	10/2/2018 18:39:09	60.9	85.7	63.6	58.9	62.3	62	61	59.8	59.5	1,230,269	371,535,229	2,290,868	776,247	1,698,244	1,584,893	1,258,925	954,993	891,251
28	10/2/2018 18:44:09	60.8	85.6	62.9	58.4	62.1	61.8	60.7	59.7	59.4	1,202,264	363,078,055	1,949,845	691,831	1,621,810	1,513,561	1,174,898	933,254	870,964
29	10/2/2018 18:49:09	60.8	85.6	63	58.9	62.3	61.7	60.8	59.8	59.5	1,202,264	363,078,055	1,995,262	776,247	1,698,244	1,479,108	1,202,264	954,993	891,251
30	10/2/2018 18:54:09	60.7	85.4	63.2	58.4	62.2	61.8	60.5	59.4	59.2	1,174,898	346,736,850	2,089,296	691,831	1,659,587	1,513,561	1,122,018	870,964	831,764
31	10/2/2018 18:59:09	59.7	84.4	62.5	57	60.8	60.7	59.6	58.4	57.9	933,254	275,422,870	1,778,279	501,187	1,202,264	1,174,898	912,011	691,831	616,595
32	10/2/2018 19:04:09	59.9	84.7	62	58	61.4	61	59.8	58.7	58.5	977,237	295,120,923	1,584,893	630,957	1,380,384	1,258,925	954,993	741,310	707,946
33	10/2/2018 19:09:09	59.6	84.4	61.4	57.2	60.7	60.6	59.6	58.5	58.1	912,011	275,422,870	1,380,384	524,807	1,174,898	1,148,154	912,011	707,946	645,654
34	10/2/2018 19:14:09	59.8	84.6	62.9	57.6	61.2	60.9	59.7	58.6	58.3	954,993	288,403,150	1,949,845	575,440	1,318,257	1,230,269	933,254	724,436	676,083
35	10/2/2018 19:19:09	59.8	84.5	63.8	57.3	61.9	61.4	59.5	58	57.8	954,993	281,838,293	2,398,833	537,032	1,548,817	1,380,384	891,251	630,957	602,560
36	10/2/2018 19:24:09	59.7	84.4	66.6	56.5	61.6	61.1	59.3	57.8	57.5	933,254	275,422,870	4,570,882	446,684	1,445,440	1,288,250	851,138	602,560	562,341
37	10/2/2018 19:29:09	60	84.8	63.2	57.7	61.4	61	60	58.7	58.4	1,000,000	301,995,172	2,089,296	588,844	1,380,384	1,258,925	1,000,000	741,310	691,831
38	10/2/2018 19:34:09	60.2	84.9	69.9	57.2	62.4	61.1	59.6	58.1	57.7	1,047,129	309,029,543	9,772,372	524,807	1,737,801	1,288,250	912,011	645,654	588,844
39	10/2/2018 19:39:09	59.4	84.1	61.4	56.7	60.7	60.4	59.3	58.1	57.9	870,964	257,039,578	1,380,384	467,735	1,174,898	1,096,478	851,138	645,654	616,595
40	10/2/2018 19:44:09	59.1	83.8	61.3	55	60.5	60.1	59.1	57.5	57.1	812,831	239,883,292	1,348,963	316,228	1,122,018	1,023,293	812,831	562,341	512,861
41	10/2/2018 19:49:09	59.4	84.2	64	56.2	61	60.5	59.3	57.7	57	870,964	263,026,799	2,511,886	416,869	1,258,925	1,122,018	851,138	588,844	501,187
42	10/2/2018 19:54:09	59	83.7	62.2	55.8	60.4	60	58.9	57.3	56.8	794,328	234,422,882	1,659,587	380,189	1,096,478	1,000,000	776,247	537,032	478,630
43	10/2/2018 19:59:09	59.1	83.9	61.9	57.3	60.4	60.1	59.1	57.8	57.6	812,831	245,470,892	1,548,817	537,032	1,096,478	1,023,293	812,831	602,560	575,440
44	10/2/2018 20:04:09	58.8	83.5	60.7	56.2	60.4	60	58.8	56.9	56.7	758,578	223,872,114	1,174,898	416,869	1,096,478	1,000,000	758,578	489,779	467,735
45	10/2/2018 20:09:09	58.8	83.6	61.7	54.8	60.5	60	58.7	57.1	56.5	758,578	229,086,765	1,479,108	301,995	1,122,018	1,000,000	741,310	512,861	446,684
46	10/2/2018 20:14:09	58.7	83.5	61.7	56.3	60.1	59.8	58.6	57.1	56.8	741,310	223,872,114	1,479,108	426,580	1,023,293	954,993	724,436	512,861	478,630
47	10/2/2018 20:19:09	58.7	83.4	62.7	55.7	60.7	60	58.4	56.7	56.3	741,310	218,776,162	1,862,087	371,535	1,174,898	1,000,000	691,831	467,735	426,580
48	10/2/2018 20:24:09	58.8	83.5	61.3	57	59.9	59.7	58.7	57.7	57.5	758,578	223,872,114	1,348,963	501,187	977,237	933,254	741,310	588,844	562,341
49	10/2/2018 20:29:09	58.2	83	60.2	56	59.6	59.2	58.2	57	56.6	660,693	199,526,231	1,047,129	398,107	912,011	831,764	660,693	501,187	457,088
50	10/2/2018 20:34:09	58.6	83.4	61.1	56.5	59.7	59.5	58.6	57.5	57.1	724,436	218,776,162	1,288,250	446,684	933,254	891,251	724,436	562,341	512,861
51	10/2/2018 20:39:09	58.7	83.5	61.1	56	60	59.8	58.7	57.4	57	741,310	223,872,114	1,288,250	398,107	1,000,000	954,993	741,310	549,541	501,187
52	10/2/2018 20:44:09	59	83.8	62.2	56.1	60.6	60.4	58.9	57.5	57	794,328	239,883,292	1,659,587	407,380	1,148,154	1,096,478	776,247	562,341	501,187
53	10/2/2018 20:49:09	58.3	83.1	60	55.5	59.4	59.2	58.4	57	56.6	676,083	204,173,794	1,000,000	354,813	870,964	831,764	691,831	501,187	457,088
54	10/2/2018 20:54:09	59	83.7	61.5	56.8	60.8	60.2	58.8	57.5	57.3	794,328	234,422,882	1,412,538	478,630	1,202,264	1,047,129	758,578	562,341	537,032
55	10/2/2018 20:59:09	58.6	83.4	62	56.4	60.2	59.9	58.4	57	56.8	724,436	218,776,162	1,584,893	436,516	1,047,129	977,237	691,831	501,187	478,630
56	10/2/2018 21:04:09	58.5	83.3	61.1	56.3	60.2	59.6	58.4	57.1	56.8	707,946	213,796,209	1,288,250	426,580	1,047,129	912,011	691,831	512,861	478,630
57	10/2/2018 21:09:09	58.7	83.5	60.8	56.5	60.1	59.7	58.7	57.5	57.3	741,310	223,872,114	1,202,264	446,684	1,023,293	933,254	741,310	562,341	537,032
58	10/2/2018 21:14:09	59.4	84.2	64.6	56.9	62	60.9	59.1	57.6	57.5	870,964	263,026,799	2,884,032	489,779	1,584,893	1,230,269	812,831	575,440	562,341
59	10/2/2018 21:19:09	58.8	83.6	62.6	56	61.3	60.6	58.3	57.4	57.2	758,578	229,086,765	1,819,701	398,107	1,348,963	1,148,154	676,083	549,541	524,807
60	10/2/2018 21:24:09	59	83.7	61	56.6	60.5	60.1	58.8	57.7	57.5	794,328	234,422,882	1,258,925	457,088	1,122,018	1,023,293	758,578	588,844	562,341

Appendix I - Measurement LT-4

Address	Start Time	Leq (dBA)	SEL (dBA)	Lmax (dBA)	Lmin (dBA)	L5 (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	L95 (dBA)	Leq (Energy)	LE (SEL) (Energy)	Lmax (Energy)	Lmin (Energy)	L5 (Energy)	L10 (Energy)	L50 (Energy)	L90 (Energy)	L95 (Energy)
61	10/2/2018 21:29:09	59	83.8	61.5	56.8	60.3	60	58.9	57.9	57.7	794,328	239,883,292	1,412,538	478,630	1,071,519	1,000,000	776,247	616,595	588,844
62	10/2/2018 21:34:09	58.9	83.6	62.1	56.3	60.5	60	58.7	57.4	56.9	776,247	229,086,765	1,621,810	426,580	1,122,018	1,000,000	741,310	549,541	489,779
63	10/2/2018 21:39:09	58.9	83.7	63.5	56.2	60.6	60	58.8	57.5	57	776,247	234,422,882	2,238,721	416,869	1,148,154	1,000,000	758,578	562,341	501,187
64	10/2/2018 21:44:09	61	85.7	72	56.8	65.9	62.7	59.1	57.7	57.4	**742,096**	**224,109,545**	**1,842,080**	**394,202**	**1,062,695**	**956,005**	**741,507**	**526,060**	**473,935**
65	10/2/2018 21:49:09	58.5	83.3	61.6	55.7	59.9	59.6	58.6	56.9	56.5	707,946	213,796,209	1,445,440	371,535	977,237	912,011	724,436	489,779	446,684
66	10/2/2018 21:54:09	58.9	83.6	62.7	55.9	61.3	60.6	58.5	56.8	56.6	776,247	229,086,765	1,862,087	389,045	1,348,963	1,148,154	707,946	478,630	457,088
67	10/2/2018 21:59:09	58.9	83.6	63.3	56.2	60.6	60.2	58.9	57.1	56.8	776,247	229,086,765	2,137,962	416,869	1,148,154	1,047,129	776,247	512,861	478,630
68	10/2/2018 22:04:09	58.2	82.9	60.9	56	60	59.4	57.9	56.8	56.6	660,693	194,984,460	1,230,269	398,107	1,000,000	870,964	616,595	478,630	457,088
69	10/2/2018 22:09:09	58.2	82.9	60.5	56.1	59.5	59.3	58.1	56.9	56.6	660,693	194,984,460	1,122,018	407,380	891,251	851,138	645,654	489,779	457,088
70	10/2/2018 22:14:09	57.8	82.6	61.1	54.7	59.7	59.1	57.6	56.4	56	602,560	181,970,086	1,288,250	295,121	933,254	812,831	575,440	436,516	398,107
71	10/2/2018 22:19:09	58.3	83.1	64	56	60.1	59.5	57.9	56.8	56.7	676,083	204,173,794	2,511,886	398,107	1,023,293	891,251	616,595	478,630	467,735
72	10/2/2018 22:24:09	57.8	82.6	60.2	55.1	59.2	59	57.7	56.5	56.2	602,560	181,970,086	1,047,129	323,594	831,764	794,328	588,844	446,684	416,869
73	10/2/2018 22:29:09	58	82.8	61.3	55.3	59.9	59.5	57.7	56.3	56	630,957	190,546,072	1,348,963	338,844	977,237	891,251	588,844	426,580	398,107
74	10/2/2018 22:34:09	57.9	82.7	60.1	55.9	59.4	59.1	57.8	56.5	56.3	616,595	186,208,714	1,023,293	389,045	870,964	812,831	602,560	446,684	426,580
75	10/2/2018 22:39:09	57.5	82.3	61.3	55.1	59.3	58.9	57.2	56.2	55.9	562,341	169,824,365	1,348,963	323,594	851,138	776,247	524,807	416,869	389,045
76	10/2/2018 22:44:09	57.8	82.6	60.7	55.5	59.8	59.3	57.6	56.3	56.1	602,560	181,970,086	1,174,898	354,813	954,993	851,138	575,440	426,580	407,380
77	10/2/2018 22:49:09	57.9	82.7	60.8	56.2	59.8	59.1	57.7	56.9	56.7	616,595	186,208,714	1,202,264	416,869	954,993	812,831	588,844	489,779	467,735
78	10/2/2018 22:54:09	57.8	82.6	59.9	55.4	59.2	58.9	57.7	56.5	56.2	602,560	181,970,086	977,237	346,737	831,764	776,247	588,844	446,684	416,869
79	10/2/2018 22:59:09	58.1	82.9	60.9	55.8	59.5	59.3	58	56.8	56.5	645,654	194,984,460	1,230,269	380,189	891,251	851,138	630,957	478,630	446,684
80	10/2/2018 23:04:09	57.8	82.6	60.1	55.3	59.2	58.9	57.8	56.5	56.1	602,560	181,970,086	1,023,293	338,844	831,764	776,247	602,560	446,684	407,380
81	10/2/2018 23:09:09	58.2	82.9	60.6	55.5	59.9	59.5	58	56.5	56.2	660,693	194,984,460	1,148,154	354,813	977,237	891,251	630,957	446,684	416,869
82	10/2/2018 23:14:09	58.1	82.8	60	55.9	59.3	59.1	58	56.9	56.7	645,654	190,546,072	1,000,000	389,045	851,138	812,831	630,957	489,779	467,735
83	10/2/2018 23:19:09	59	83.8	64.9	55.7	62	60.6	58.4	57	56.7	794,328	239,883,292	3,090,295	371,535	1,584,893	1,148,154	691,831	501,187	467,735
84	10/2/2018 23:24:09	57.4	82.1	59.3	54.7	58.5	58.3	57.4	56.1	55.8	549,541	162,181,010	851,138	295,121	707,946	676,083	549,541	407,380	380,189
85	10/2/2018 23:29:09	57.7	82.5	60.7	55.7	59.9	59.2	57.4	56.4	56.2	588,844	177,827,941	1,174,898	371,535	977,237	831,764	549,541	436,516	416,869
86	10/2/2018 23:34:09	59.7	84.5	71.5	55.4	65	59.9	57.1	56.3	56.1	**539,311**	**161,185,959**	**1,261,930**	**347,564**	**796,916**	**703,602**	**508,638**	**412,780**	**398,529**
87	10/2/2018 23:39:09	56.9	81.6	61.3	55.1	57.9	57.6	56.7	55.9	55.8	489,779	144,543,977	1,348,963	323,594	616,595	575,440	467,735	389,045	380,189
88	10/2/2018 23:44:09	56.9	81.7	59.7	54.6	58.6	58.2	56.7	55.6	55.3	489,779	147,910,839	933,254	288,403	724,436	660,693	467,735	363,078	338,844
89	10/2/2018 23:49:09	56.8	81.6	60.6	54.6	59	58.1	56.5	55.4	55.2	478,630	144,543,977	1,148,154	288,403	794,328	645,654	446,684	346,737	331,131
90	10/2/2018 23:54:09	56.6	81.4	60.4	54.2	58.9	57.9	56.2	55.2	54.9	457,088	138,038,426	1,096,478	263,027	776,247	616,595	416,869	331,131	309,030
91	10/2/2018 23:59:09	56.1	80.9	61.5	54	57.8	57	55.9	54.8	54.6	407,380	123,026,877	1,412,538	251,189	602,560	501,187	389,045	301,995	288,403
92	10/3/2018 0:04:09	56.3	81.1	59	54	58.4	57.8	56.1	54.8	54.5	426,580	128,824,955	794,328	251,189	691,831	602,560	407,380	301,995	281,838
93	10/3/2018 0:09:09	56.2	81	63.2	53.9	58.4	57.3	55.7	54.8	54.6	416,869	125,892,541	2,089,296	245,471	691,831	537,032	371,535	301,995	288,403
94	10/3/2018 0:14:09	57.3	82.1	66.8	53.8	61.4	58.6	55.8	54.8	54.5	537,032	162,181,010	4,786,301	239,883	1,380,384	724,436	380,189	301,995	281,838
95	10/3/2018 0:19:09	55.7	80.5	58.3	53.9	57	56.8	55.6	54.6	54.4	371,535	112,201,845	676,083	245,471	501,187	478,630	363,078	288,403	275,423
96	10/3/2018 0:24:09	55.7	80.5	58.1	53.7	57.1	56.9	55.6	54.6	54.4	371,535	112,201,845	645,654	234,423	512,861	489,779	363,078	288,403	275,423
97	10/3/2018 0:29:09	56.3	81.1	58.8	53.8	57.8	57.4	56.2	55.1	54.8	426,580	128,824,955	758,578	239,883	602,560	549,541	416,869	323,594	301,995
98	10/3/2018 0:34:09	56	80.8	60.4	53.9	58.5	57.1	55.6	54.7	54.5	398,107	120,226,443	1,096,478	245,471	707,946	512,861	363,078	295,121	281,838
99	10/3/2018 0:39:09	57	81.8	60.4	54.2	59.4	58.7	56.5	55.4	55.1	501,187	151,356,125	1,096,478	263,027	870,964	741,310	446,684	346,737	323,594
100	10/3/2018 0:44:09	55.8	80.5	58.7	53.7	57.6	56.9	55.5	54.8	54.5	380,189	112,201,845	741,310	234,423	575,440	489,779	354,813	301,995	281,838
101	10/3/2018 0:49:09	55.9	80.7	59.8	54	57.8	57.3	55.6	54.7	54.5	389,045	117,489,755	954,993	251,189	602,560	537,032	363,078	295,121	281,838
102	10/3/2018 0:54:09	55.7	80.4	57.8	54	56.8	56.6	55.5	54.8	54.6	371,535	109,647,820	602,560	251,189	478,630	457,088	354,813	301,995	288,403
103	10/3/2018 0:59:09	55.3	80	57.6	53.7	56.4	56.1	55.1	54.4	54.3	338,844	100,000,000	575,440	234,423	436,516	407,380	323,594	275,423	269,153
104	10/3/2018 1:04:09	56.4	81.1	59.8	54	58.6	57.7	56.1	55.1	54.8	436,516	128,824,955	954,993	251,189	724,436	588,844	407,380	323,594	301,995
105	10/3/2018 1:09:09	56.2	81	59.8	54	58.2	57.2	56	55	54.8	416,869	125,892,541	954,993	251,189	660,693	524,807	398,107	316,228	301,995
106	10/3/2018 1:14:09	55.9	80.7	59.2	54.1	57.5	56.9	55.7	55	54.8	389,045	117,489,755	831,764	257,040	562,341	489,779	371,535	316,228	301,995
107	10/3/2018 1:19:09	56.3	81.1	59.3	54.3	58	57.4	56.1	55.1	54.9	426,580	128,824,955	851,138	269,153	630,957	549,541	407,380	323,594	309,030
108	10/3/2018 1:24:09	55.5	80.3	58.2	53.6	56.7	56.3	55.4	54.4	54.2	354,813	107,151,931	660,693	229,087	467,735	426,580	346,737	275,423	263,027
109	10/3/2018 1:29:09	60.3	85.1	74.1	54	65.6	59.6	55.6	54.6	54.4	**358,946**	**108,399,875**	**866,106**	**234,485**	**508,638**	**436,632**	**342,791**	**278,631**	**266,090**
110	10/3/2018 1:34:09	55.6	80.4	60.3	53.8	57.4	56.5	55.3	54.5	54.3	363,078	109,647,820	1,071,519	239,883	549,541	446,684	338,844	281,838	269,153
111	10/3/2018 1:39:09	55.1	79.9	58.6	53.4	57.1	56.2	54.7	54.1	54	323,594	97,723,722	724,436	218,776	512,861	416,869	295,121	257,040	251,189
112	10/3/2018 1:44:09	55.6	80.4	59.3	53.6	57.3	56.7	55.4	54.3	54.1	363,078	109,647,820	851,138	229,087	537,032	467,735	346,737	269,153	257,040
113	10/3/2018 1:49:09	55.3	80.1	59	53.1	56.8	56.5	55.2	54	53.7	338,844	102,329,299	794,328	204,174	478,630	446,684	331,131	251,189	234,423
114	10/3/2018 1:54:09	55.5	80.3	58.6	54	56.8	56.5	55.3	54.6	54.4	354,813	107,151,931	724,436	251,189	478,630	446,684	338,844	288,403	275,423
115	10/3/2018 1:59:09	55.7	80.4	57.8	53.7	57	56.7	55.6	54.5	54.3	371,535	109,647,820	602,560	234,423	501,187	467,735	363,078	281,838	269,153
116	10/3/2018 2:04:09	55.8	80.5	59	54.1	57.6	57.1	55.5	54.6	54.5	380,189	112,201,845	794,328	257,040	575,440	512,861	354,813	288,403	281,838
117	10/3/2018 2:09:09	55.6	80.4	59.8	54	57.3	56.5	55.4	54.7	54.5	363,078	109,647,820	954,993	251,189	537,032	446,684	346,737	295,121	281,838
118	10/3/2018 2:14:09	55.3	80.1	58.1	53.7	56.7	56.3	55.2	54.4	54.2	338,844	102,329,299	645,654	234,423	467,735	426,580	331,131	275,423	263,027
119	10/3/2018 2:19:09	55.6	80.4	59.3	54	56.9	56.7	55.4	54.7	54.5	363,078	109,647,820	851,138	251,189	489,779	467,735	346,737	295,121	281,838
120	10/3/2018 2:24:09	56.2	81	63.2	54	58.8	57.4	55.6	54.8	54.6	416,869	125,892,541	2,089,296	251,189	758,578	549,541	363,078	301,995	288,403
121	10/3/2018 2:29:09	56.2	80.9	60.4	54.2	57.9	57.5	55.8	55	54.9	416,869	123,026,877	1,096,478	263,027	616,595	562,341	380,189	316,228	309,030

Appendix I - Measurement LT-4

Address	Start Time	Leq (dBA)	SEL (dBA)	Lmax (dBA)	Lmin (dBA)	L5 (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	L95 (dBA)	Leq (Energy)	LE (SEL) (Energy)	Lmax (Energy)	Lmin (Energy)	L5 (Energy)	L10 (Energy)	L50 (Energy)	L90 (Energy)	L95 (Energy)
122	10/3/2018 2:34:09	55.4	80.2	57.4	54.2	56.5	56.2	55.2	54.6	54.5	346,737	104,712,855	549,541	263,027	446,684	416,869	331,131	288,403	281,838
123	10/3/2018 2:39:09	55.5	80.3	59.7	54	56.4	56	55.3	54.8	54.6	354,813	107,151,931	933,254	251,189	436,516	398,107	338,844	301,995	288,403
124	10/3/2018 2:44:09	55.9	80.6	59	54.3	57.1	56.8	55.7	54.8	54.7	389,045	114,815,362	794,328	269,153	512,861	478,630	371,535	301,995	295,121
125	10/3/2018 2:49:09	55.7	80.5	59.2	54.2	57.3	56.7	55.4	54.8	54.6	371,535	112,201,845	831,764	263,027	537,032	467,735	346,737	301,995	288,403
126	10/3/2018 2:54:09	56.1	80.8	60.3	54.1	58.5	57.6	55.6	54.8	54.6	407,380	120,226,443	1,071,519	257,040	707,946	575,440	363,078	301,995	288,403
127	10/3/2018 2:59:09	55.7	80.5	59	54.3	57.1	56.5	55.5	54.8	54.7	371,535	112,201,845	794,328	269,153	512,861	446,684	354,813	301,995	295,121
128	10/3/2018 3:04:09	56.1	80.9	59.1	54.2	57.9	57.2	55.9	54.9	54.8	407,380	123,026,877	812,831	263,027	616,595	524,807	389,045	309,030	301,995
129	10/3/2018 3:09:09	56.2	81	60.6	54.1	58.3	57.5	55.9	54.8	54.6	416,869	125,892,541	1,148,154	257,040	676,083	562,341	389,045	301,995	288,403
130	10/3/2018 3:14:09	55.9	80.7	58.7	53.9	57.3	57	55.8	54.7	54.5	389,045	117,489,755	741,310	245,471	537,032	501,187	380,189	295,121	281,838
131	10/3/2018 3:19:09	56.1	80.9	60.3	53.9	58.3	57.5	55.7	54.7	54.5	407,380	123,026,877	1,071,519	245,471	676,083	562,341	371,535	295,121	281,838
132	10/3/2018 3:24:09	55.7	80.5	59.3	54	57.2	56.8	55.4	54.7	54.6	371,535	112,201,845	851,138	251,189	524,807	478,630	346,737	295,121	288,403
133	10/3/2018 3:29:09	56.2	81	59.8	53.8	58.4	57.5	55.8	54.9	54.6	416,869	125,892,541	954,993	239,883	691,831	562,341	380,189	309,030	288,403
134	10/3/2018 3:34:09	55.5	80.2	57.9	53.6	57	56.6	55.3	54.3	54.1	354,813	104,712,855	616,595	229,087	501,187	457,088	338,844	269,153	257,040
135	10/3/2018 3:39:09	55.6	80.3	58.7	53.5	57.4	57.1	55.2	54.1	53.9	363,078	107,151,931	741,310	223,872	549,541	512,861	331,131	257,040	245,471
136	10/3/2018 3:44:09	55.7	80.5	58.7	53.6	57.6	56.9	55.5	54.3	54	371,535	112,201,845	741,310	229,087	575,440	489,779	354,813	269,153	251,189
137	10/3/2018 3:49:09	55.9	80.7	61	53.7	58.2	57.5	55.5	54.4	54.2	389,045	117,489,755	1,258,925	234,423	660,693	562,341	354,813	275,423	263,027
138	10/3/2018 3:54:09	55.6	80.4	58.9	53.6	57.5	56.9	55.2	54.4	54.2	363,078	109,647,820	776,247	229,087	562,341	489,779	331,131	275,423	263,027
139	10/3/2018 3:59:09	55.8	80.5	59.1	53.9	57.6	56.9	55.5	54.4	54.3	380,189	112,201,845	812,831	245,471	575,440	489,779	354,813	275,423	269,153
140	10/3/2018 4:04:09	56.8	81.6	63.9	54.2	59.7	58.6	56.1	54.8	54.6	478,630	144,543,977	2,454,709	263,027	933,254	724,436	407,380	301,995	288,403
141	10/3/2018 4:09:09	56	80.7	59.5	53.8	57.8	57.2	55.7	54.5	54.3	398,107	117,489,755	891,251	239,883	602,560	524,807	371,535	281,838	269,153
142	10/3/2018 4:14:09	56.3	81.1	60.1	53.9	58.8	57.8	55.9	54.9	54.7	426,580	128,824,955	1,023,293	245,471	758,578	602,560	389,045	309,030	295,121
143	10/3/2018 4:19:09	57.3	82.1	60.9	55	59.6	59	56.9	55.6	55.4	537,032	162,181,010	1,230,269	316,228	912,011	794,328	489,779	363,078	346,737
144	10/3/2018 4:24:09	56.7	81.5	59.9	54.3	58.8	58.2	56.5	55.2	55	467,735	141,253,754	977,237	269,153	758,578	660,693	446,684	331,131	316,228
145	10/3/2018 4:29:09	57.5	82.3	63.5	54.9	59.2	58.7	57.1	55.7	55.4	562,341	169,824,365	2,238,721	309,030	831,764	741,310	512,861	371,535	346,737
146	10/3/2018 4:34:09	57.6	82.3	60.4	55.6	59.3	58.9	57.3	56.1	56	575,440	169,824,365	1,096,478	363,078	851,138	776,247	537,032	407,380	398,107
147	10/3/2018 4:39:09	58	82.7	61.3	55.7	59.9	59.3	57.8	56.5	56.3	630,957	186,208,714	1,348,963	371,535	977,237	851,138	602,560	446,684	426,580
148	10/3/2018 4:44:09	58.6	83.4	63.6	56.4	60.7	59.9	58.2	57.2	57	724,436	218,776,162	2,290,868	436,516	1,174,898	977,237	660,693	524,807	501,187
149	10/3/2018 4:49:09	58.4	83.2	61.9	56.1	60.5	60.1	58.2	56.6	56.4	691,831	208,929,613	1,548,817	407,380	1,122,018	1,023,293	660,693	457,088	436,516
150	10/3/2018 4:54:09	58.3	83.1	61.4	55.3	60	59.6	58.3	56.5	56.1	676,083	204,173,794	1,380,384	338,844	1,000,000	912,011	676,083	446,684	407,380
151	10/3/2018 4:59:09	59.9	84.7	65.3	56.8	62.3	61.5	59.4	58.1	57.7	977,237	295,120,923	3,388,442	478,630	1,698,244	1,412,538	870,964	645,654	588,844
152	10/3/2018 5:04:09	59.2	84	63.3	56.1	61.7	60.6	59	57.6	57.2	831,764	251,188,643	2,137,962	407,380	1,479,108	1,148,154	794,328	575,440	524,807
153	10/3/2018 5:09:09	59	83.8	61.6	57.2	60.8	60.4	58.7	57.9	57.7	794,328	239,883,292	1,445,440	524,807	1,202,264	1,096,478	741,310	616,595	588,844
154	10/3/2018 5:14:09	59.4	84.1	63.2	56	61.7	60.7	59.2	57.5	56.9	870,964	257,039,578	2,089,296	398,107	1,479,108	1,174,898	831,764	562,341	489,779
155	10/3/2018 5:19:09	60.6	85.3	63.8	56.9	62.5	62.1	60.4	58.6	58.3	1,148,154	338,844,156	2,398,833	489,779	1,778,279	1,621,810	1,096,478	724,436	676,083
156	10/3/2018 5:24:09	60.7	85.5	63.3	57.3	62.4	62.1	60.7	58.9	58.1	1,174,898	354,813,389	2,137,962	537,032	1,737,801	1,621,810	1,174,898	776,247	645,654
157	10/3/2018 5:29:09	60.4	85.2	63.7	58.2	62.1	61.7	60.1	58.9	58.6	1,096,478	331,131,121	2,344,229	660,693	1,621,810	1,479,108	1,023,293	776,247	724,436
158	10/3/2018 5:34:09	60.6	85.3	64.2	57.8	62	61.6	60.4	59.1	58.6	1,148,154	338,844,156	2,630,268	602,560	1,584,893	1,445,440	1,096,478	812,831	724,436
159	10/3/2018 5:39:09	61	85.8	63.8	56.5	63.2	62.7	61	58.4	57.5	1,258,925	380,189,396	2,398,833	446,684	2,089,296	1,862,087	1,258,925	691,831	562,341
160	10/3/2018 5:44:09	61.7	86.5	70.3	58.7	63.9	62.8	61	59.7	59.4	1,479,108	446,683,592	10,715,193	741,310	2,454,709	1,905,461	1,258,925	933,254	870,964
161	10/3/2018 5:49:09	61.2	86	63.2	59	62.7	62.4	61	59.8	59.7	1,318,257	398,107,171	2,089,296	794,328	1,862,087	1,737,801	1,258,925	954,993	933,254
162	10/3/2018 5:54:09	61.3	86.1	64.6	59.1	63.3	62.9	61.2	59.5	59.4	1,348,963	407,380,278	2,884,032	812,831	2,137,962	1,949,845	1,318,257	891,251	870,964
163	10/3/2018 5:59:09	61.5	86.2	63.9	59.4	63.1	62.7	61.3	60.3	60	1,412,538	416,869,383	2,454,709	870,964	2,041,738	1,862,087	1,348,963	1,071,519	1,000,000
164	10/3/2018 6:04:09	61.3	86.1	64.2	58.5	63.2	62.8	61.1	59.9	59.5	1,348,963	407,380,278	2,630,268	707,946	2,089,296	1,905,461	1,288,250	977,237	891,251
165	10/3/2018 6:09:09	62	86.8	73.3	59.5	63	62.7	61.4	60.4	60.1	1,584,893	478,630,092	21,379,621	891,251	1,995,262	1,862,087	1,380,384	1,096,478	1,023,293
166	10/3/2018 6:14:09	61.7	86.5	65.1	59.1	63.1	62.8	61.6	60.4	60.1	1,479,108	446,683,592	3,235,937	812,831	2,041,738	1,905,461	1,445,440	1,096,478	1,023,293
167	10/3/2018 6:19:09	61.5	86.3	65.1	58.4	63.5	63	61.4	59.9	59.1	1,412,538	426,579,519	3,235,937	691,831	2,238,721	1,995,262	1,380,384	977,237	812,831
168	10/3/2018 6:24:09	62.8	87.6	73.3	59.3	65.7	63.8	61.6	60.1	60	1,905,461	575,439,937	21,379,621	851,138	3,715,352	2,398,833	1,445,440	1,023,293	1,000,000
169	10/3/2018 6:29:09	61.4	86.2	64.9	59	63	62.5	61.2	60	59.8	1,380,384	416,869,383	3,090,295	794,328	1,995,262	1,778,279	1,318,257	1,000,000	954,993
170	10/3/2018 6:34:09	61.8	86.5	65.8	58.7	63.3	63	61.5	60.4	59.8	1,513,561	446,683,592	3,801,894	741,310	2,137,962	1,995,262	1,412,538	1,096,478	954,993
171	10/3/2018 6:39:09	61.9	86.7	65.2	59.9	63.3	63	61.8	60.7	60.4	1,548,817	467,735,141	3,311,311	977,237	2,137,962	1,995,262	1,513,561	1,174,898	1,096,478
172	10/3/2018 6:44:09	61.6	86.4	65.4	59.4	63.1	62.8	61.5	60	59.7	1,445,440	436,515,832	3,467,369	870,964	2,041,738	1,905,461	1,412,538	1,000,000	933,254
173	10/3/2018 6:49:09	61.9	86.7	63.8	59.8	63.1	62.9	61.9	60.7	60.4	1,548,817	467,735,141	2,398,833	954,993	2,041,738	1,949,845	1,548,817	1,174,898	1,096,478
174	10/3/2018 6:54:09	61.8	86.6	65	59.9	63.2	62.8	61.7	60.7	60.2	1,513,561	457,088,190	3,162,278	977,237	2,089,296	1,905,461	1,479,108	1,174,898	1,047,129
175	10/3/2018 6:59:09	62.4	87.2	65.9	60.4	63.9	63.4	62.3	61.5	61	1,737,801	524,807,460	3,890,451	1,096,478	2,454,709	2,187,762	1,698,244	1,412,538	1,258,925
176	10/3/2018 7:04:09	62.7	87.5	64.8	60.1	63.6	63.4	62.7	61.6	61.3	1,862,087	562,341,325	3,019,952	1,023,293	2,290,868	2,187,762	1,862,087	1,445,440	1,348,963
177	10/3/2018 7:09:09	62.7	87.5	64.7	61.3	63.9	63.7	62.6	61.8	61.6	1,862,087	562,341,325	2,951,209	1,348,963	2,454,709	2,344,229	1,819,701	1,513,561	1,445,440
178	10/3/2018 7:14:09	63.3	88.1	65.5	60.7	64.6	64.2	63.3	62.2	61.9	2,137,962	645,654,229	3,548,134	1,174,898	2,884,032	2,630,268	2,137,962	1,659,587	1,548,817
179	10/3/2018 7:19:09	63.1	87.9	66.1	61.2	64.6	64.2	63	62	61.7	2,041,738	616,595,002	4,073,803	1,318,257	2,884,032	2,630,268	1,995,262	1,584,893	1,479,108
180	10/3/2018 7:24:09	62.7	87.4	64.1	61.4	63.6	63.4	62.6	61.9	61.8	1,862,087	549,540,874	2,570,396	1,380,384	2,290,868	2,187,762	1,819,701	1,548,817	1,513,561
181	10/3/2018 7:29:09	63.4	88.2	68.7	60.4	64.6	64.4	63.1	62	61.5	2,187,762	660,693,448	7,413,102	1,096,478	2,884,032	2,754,229	2,041,738	1,584,893	1,412,538
182	10/3/2018 7:34:09	63.1	87.8	66.2	60.8	64.4	63.8	62.9	62.3	62	2,041,738	602,559,586	4,168,694	1,202,264	2,754,229	2,398,833	1,949,845	1,698,244	1,584,893

Appendix I - Measurement LT-4

Address	Start Time	Leq (dBA)	SEL (dBA)	Lmax (dBA)	Lmin (dBA)	L5 (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	L95 (dBA)	Leq (Energy)	LE (SEL) (Energy)	Lmax (Energy)	Lmin (Energy)	L5 (Energy)	L10 (Energy)	L50 (Energy)	L90 (Energy)	L95 (Energy)
183	10/3/2018 7:39:09	63.2	88	65.2	61.8	64.4	64.1	63.1	62.4	62.2	2,089,296	630,957,344	3,311,311	1,513,561	2,754,229	2,570,396	2,041,738	1,737,801	1,659,587
184	10/3/2018 7:44:09	62.9	87.7	68.3	60.1	64.2	63.9	62.8	61.3	60.9	1,949,845	588,843,655	6,760,830	1,023,293	2,630,268	2,454,709	1,905,461	1,348,963	1,230,269
185	10/3/2018 7:49:09	63.2	88	66.9	61.7	64.2	63.9	63.1	62.4	62.2	2,089,296	630,957,344	4,897,788	1,479,108	2,630,268	2,454,709	2,041,738	1,737,801	1,659,587
186	10/3/2018 7:54:09	63.3	88.1	66.5	61.4	64.4	64.2	63.2	62.2	62	2,137,962	645,654,229	4,466,836	1,380,384	2,754,229	2,630,268	2,089,296	1,659,587	1,584,893
187	10/3/2018 7:59:09	62.9	87.7	67.1	60.6	64.4	64.1	62.7	61.6	61.3	1,949,845	588,843,655	5,128,614	1,148,154	2,754,229	2,570,396	1,862,087	1,445,440	1,348,963
188	10/3/2018 8:04:09	62.7	87.5	64.8	60.9	64	63.7	62.7	61.7	61.4	1,862,087	562,341,325	3,019,952	1,230,269	2,511,886	2,344,229	1,862,087	1,479,108	1,380,384
189	10/3/2018 8:09:09	62.5	87.3	64.4	61.1	63.6	63.3	62.5	61.7	61.5	1,778,279	537,031,796	2,754,229	1,288,250	2,290,868	2,137,962	1,778,279	1,479,108	1,412,538
190	10/3/2018 8:14:09	62.5	87.3	63.9	59.9	63.5	63.3	62.6	61.4	60.7	1,778,279	537,031,796	2,454,709	977,237	2,238,721	2,137,962	1,819,701	1,380,384	1,174,898
191	10/3/2018 8:19:09	63.1	87.9	66.5	61	64.7	64.3	62.9	61.8	61.6	2,041,738	616,595,002	4,466,836	1,258,925	2,951,209	2,691,535	1,949,845	1,513,561	1,445,440
192	10/3/2018 8:24:09	63.1	87.8	65.1	61.5	64.1	63.9	63	62.1	62	2,041,738	602,559,586	3,235,937	1,412,538	2,570,396	2,454,709	1,995,262	1,621,810	1,584,893
193	10/3/2018 8:29:09	63.2	87.9	66.7	61	64.3	63.9	63.2	61.8	61.6	2,089,296	616,595,002	4,677,351	1,258,925	2,691,535	2,454,709	2,089,296	1,513,561	1,445,440
194	10/3/2018 8:34:09	63	87.7	68.3	60.5	64.6	63.8	62.8	61.6	61.3	1,995,262	588,843,655	6,760,830	1,122,018	2,884,032	2,398,833	1,905,461	1,445,440	1,348,963
195	10/3/2018 8:39:09	62.4	87.2	64.7	59.5	63.6	63.3	62.4	61.3	60.9	1,737,801	524,807,460	2,951,209	891,251	2,290,868	2,137,962	1,737,801	1,348,963	1,230,269
196	10/3/2018 8:44:09	62.2	87	64.4	60	63.6	63.2	62.1	61.3	60.9	1,659,587	501,187,234	2,754,229	1,000,000	2,290,868	2,089,296	1,621,810	1,348,963	1,230,269
197	10/3/2018 8:49:09	62.1	86.8	63.5	59.6	63	62.8	62.1	61.2	60.8	1,621,810	478,630,092	2,238,721	912,011	1,995,262	1,905,461	1,621,810	1,318,257	1,202,264
198	10/3/2018 8:54:09	62.1	86.8	64.2	59.9	63.6	63.2	61.9	60.8	60.4	1,621,810	478,630,092	2,630,268	977,237	2,290,868	2,089,296	1,548,817	1,202,264	1,096,478
199	10/3/2018 8:59:09	62.3	87.1	65.4	60.3	63.8	63.3	62.2	61	60.8	1,698,244	512,861,384	3,467,369	1,071,519	2,398,833	2,137,962	1,659,587	1,258,925	1,202,264
200	10/3/2018 9:04:09	62.5	87.2	64.7	60	63.8	63.5	62.5	61.2	60.9	1,778,279	524,807,460	2,951,209	1,000,000	2,398,833	2,238,721	1,778,279	1,318,257	1,230,269
201	10/3/2018 9:09:09	62.1	86.8	66.4	59.4	63.4	63.1	62	60.7	60.3	1,621,810	478,630,092	4,365,158	870,964	2,187,762	2,041,738	1,584,893	1,174,898	1,071,519
202	10/3/2018 9:14:09	62.1	86.9	66.8	59.4	63.7	63.2	61.9	60.7	60.2	1,621,810	489,778,819	4,786,301	870,964	2,344,229	2,089,296	1,548,817	1,174,898	1,047,129
203	10/3/2018 9:19:09	61.8	86.6	65.4	58.8	63.7	63.1	61.8	60.1	59.8	1,513,561	457,088,190	3,467,369	758,578	2,344,229	2,041,738	1,513,561	1,023,293	954,993
204	10/3/2018 9:24:09	61.5	86.3	63.8	57.9	62.8	62.5	61.5	60.4	59.3	1,412,538	426,579,519	2,398,833	616,595	1,905,461	1,778,279	1,412,538	1,096,478	851,138
205	10/3/2018 9:29:09	61.9	86.7	63.8	59.2	63.1	62.8	62	60.7	60.2	1,548,817	467,735,141	2,398,833	831,764	2,041,738	1,905,461	1,584,893	1,174,898	1,047,129
206	10/3/2018 9:34:09	61.5	86.3	64.6	59.6	62.8	62.5	61.4	60.2	59.9	1,412,538	426,579,519	2,884,032	912,011	1,905,461	1,778,279	1,380,384	1,047,129	977,237
207	10/3/2018 9:39:09	63.1	87.9	77.7	58.5	64.1	63.2	61.6	60.4	59.8	**1,350,394**	**407,812,332**	**2,697,959**	**881,574**	**1,801,852**	**1,663,548**	**1,319,655**	**1,047,129**	**988,619**
208	10/3/2018 9:44:09	61.1	85.9	64	59.3	62.3	61.9	61	60.2	60	1,288,250	389,045,145	2,511,886	851,138	1,698,244	1,548,817	1,258,925	1,047,129	1,000,000
209	10/3/2018 9:49:09	61.4	86.1	65.7	59.6	63.1	62.4	61.1	60.4	60.1	1,380,384	407,380,278	3,715,352	912,011	2,041,738	1,737,801	1,288,250	1,096,478	1,023,293
210	10/3/2018 9:54:09	60.8	85.5	65.6	58.6	62.3	61.9	60.5	59.6	59.3	1,202,264	354,813,389	3,630,781	724,436	1,698,244	1,548,817	1,122,018	912,011	851,138
211	10/3/2018 9:59:09	60.7	85.4	70.9	57.5	62.2	61.9	60.5	58.8	58.5	1,174,898	346,736,850	12,302,688	562,341	1,659,587	1,548,817	1,122,018	758,578	707,946
212	10/3/2018 10:04:09	60.2	85	64.8	56.5	62.5	61.4	60	58	57.6	1,047,129	316,227,766	3,019,952	446,684	1,778,279	1,380,384	1,000,000	630,957	575,440
213	10/3/2018 10:09:09	60.1	84.9	62.7	56.3	62	61.6	59.9	58.5	57.9	1,023,293	309,029,543	1,862,087	426,580	1,584,893	1,445,440	977,237	707,946	616,595
214	10/3/2018 10:14:09	59.6	84.3	64.3	55.9	61.6	60.8	59.4	57.5	56.7	912,011	269,153,480	2,691,535	389,045	1,445,440	1,202,264	870,964	562,341	467,735
215	10/3/2018 10:19:09	59.8	84.5	64	55.9	61.8	61.5	59.6	57.6	57	954,993	281,838,293	2,511,886	389,045	1,513,561	1,412,538	912,011	575,440	501,187
216	10/3/2018 10:24:09	60.3	85.1	64.2	57.7	62.5	61.9	60.1	58.9	58.5	1,071,519	323,593,657	2,630,268	588,844	1,778,279	1,548,817	1,023,293	776,247	707,946
217	10/3/2018 10:29:09	60.4	85.2	64.8	57.4	62.3	61.7	60.2	58.4	58	1,096,478	331,131,121	3,019,952	549,541	1,698,244	1,479,108	1,047,129	691,831	630,957
218	10/3/2018 10:34:09	60.5	85.2	64.2	57.7	62.5	62	60.3	58.5	58.3	1,122,018	331,131,121	2,630,268	588,844	1,778,279	1,584,893	1,071,519	707,946	676,083
219	10/3/2018 10:39:09	60.1	84.8	64.4	57	62.2	61.4	59.8	58.4	57.5	1,023,293	301,995,172	2,754,229	501,187	1,659,587	1,380,384	954,993	691,831	562,341
220	10/3/2018 10:44:09	60.5	85.3	64.7	57.4	62.2	61.8	60.4	59.2	58.9	1,122,018	338,844,156	2,951,209	549,541	1,659,587	1,513,561	1,096,478	831,764	776,247
221	10/3/2018 10:49:09	60.2	85	62.4	58	61.3	61.1	60.2	58.8	58.5	1,047,129	316,227,766	1,737,801	630,957	1,348,963	1,288,250	1,047,129	758,578	707,946
222	10/3/2018 10:54:09	61	85.7	65.3	58.1	62.9	62.2	60.7	59.6	59.3	1,258,925	371,535,229	3,388,442	645,654	1,949,845	1,659,587	1,174,898	912,011	851,138
223	10/3/2018 10:59:09	59.7	84.5	62.5	56.8	61.7	61	59.6	58.2	57.5	933,254	281,838,293	1,778,279	478,630	1,479,108	1,258,925	912,011	660,693	562,341
224	10/3/2018 11:04:09	60.4	85.1	63.1	58	61.7	61.3	60.4	59	58.6	1,096,478	323,593,657	2,041,738	630,957	1,479,108	1,348,963	1,096,478	794,328	724,436
225	10/3/2018 11:09:09	60.4	85.2	68.7	57.2	62.4	61.9	60.2	58.7	58.6	1,096,478	331,131,121	7,413,102	524,807	1,737,801	1,548,817	1,047,129	741,310	724,436
226	10/3/2018 11:14:09	60.2	85	66.1	57.4	61.9	61.5	60	58.5	58.2	1,047,129	316,227,766	4,073,803	549,541	1,548,817	1,412,538	1,000,000	707,946	660,693
227	10/3/2018 11:19:09	60.1	84.8	65.1	57.2	62.3	61.6	59.9	58	57.8	1,023,293	301,995,172	3,235,937	524,807	1,698,244	1,445,440	977,237	630,957	602,560
228	10/3/2018 11:24:09	59.3	84.1	62.1	56.6	60.8	60.6	59.2	57.6	57.1	851,138	257,039,578	1,621,810	457,088	1,202,264	1,148,154	831,764	575,440	512,861
229	10/3/2018 11:29:09	58.9	83.7	61.6	55.6	60.6	60.4	58.9	57.2	56.3	776,247	234,422,882	1,445,440	363,078	1,148,154	1,096,478	776,247	524,807	426,580
230	10/3/2018 11:34:09	59.3	84.1	63.5	55.1	61	60.6	59.2	57.7	57	851,138	257,039,578	2,238,721	323,594	1,258,925	1,148,154	831,764	588,844	501,187
231	10/3/2018 11:39:09	59.6	84.4	65	55.8	61.4	60.9	59.5	57.9	57.3	912,011	275,422,870	3,162,278	380,189	1,380,384	1,230,269	891,251	616,595	537,032
232	10/3/2018 11:44:09	60.2	85	64.7	57.1	62.7	62	59.7	58.5	57.9	1,047,129	316,227,766	2,951,209	512,861	1,862,087	1,584,893	933,254	707,946	616,595
233	10/3/2018 11:49:09	59.9	84.7	64.4	55.6	63	62.1	59.4	57.2	56.1	977,237	295,120,923	2,754,229	363,078	1,995,262	1,621,810	870,964	524,807	407,380
234	10/3/2018 11:54:09	59.7	84.5	64.6	55.3	62.5	61.4	59.4	57.1	56.2	933,254	281,838,293	2,884,032	338,844	1,778,279	1,380,384	870,964	512,861	416,869
235	10/3/2018 11:59:09	59.5	84.3	65.8	56.7	61.4	60.9	59.3	57.5	57.3	891,251	269,153,480	3,801,894	467,735	1,380,384	1,230,269	851,138	562,341	537,032
236	10/3/2018 12:04:09	58.7	83.5	62.5	54.7	61	60.4	58.3	56.8	56.3	741,310	223,872,114	1,778,279	295,121	1,258,925	1,096,478	676,083	478,630	426,580
237	10/3/2018 12:09:09	59.2	84	62	54.7	61.1	60.7	59.2	56.9	56.2	831,764	251,188,643	1,584,893	295,121	1,288,250	1,174,898	831,764	489,779	416,869
238	10/3/2018 12:14:09	59.7	84.5	63	57.5	61.7	60.8	59.5	58.4	58.1	933,254	281,838,293	1,995,262	562,341	1,479,108	1,202,264	891,251	691,831	645,654
239	10/3/2018 12:19:09	59.6	84.4	64.1	56.7	61.8	60.7	59.4	58.2	57.9	912,011	275,422,870	2,570,396	467,735	1,513,561	1,174,898	870,964	660,693	616,595
240	10/3/2018 12:24:09	59.9	84.7	65.2	57.5	61.8	61.4	59.6	58.3	57.9	977,237	295,120,923	3,311,311	562,341	1,513,561	1,380,384	912,011	676,083	616,595
241	10/3/2018 12:29:09	58.9	83.7	61.1	56.8	60.4	60.1	58.8	57.6	57.4	776,247	234,422,882	1,288,250	478,630	1,096,478	1,023,293	758,578	575,440	549,541
242	10/3/2018 12:34:09	59	83.7	61	56.6	60.3	59.9	59	57.7	57.4	794,328	234,422,882	1,258,925	457,088	1,071,519	977,237	794,328	588,844	549,541
243	10/3/2018 12:39:09	58.9	83.7	62.2	54.9	61.1	60.6	58.7	57.1	56.7	776,247	234,422,882	1,659,587	309,030	1,288,250	1,148,154	741,310	512,861	467,735

Appendix I - Measurement LT-4

Address	Start Time	Leq (dBA)	SEL (dBA)	Lmax (dBA)	Lmin (dBA)	L5 (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	L95 (dBA)	Leq (Energy)	LE (SEL) (Energy)	Lmax (Energy)	Lmin (Energy)	L5 (Energy)	L10 (Energy)	L50 (Energy)	L90 (Energy)	L95 (Energy)
244	10/3/2018 12:44:09	59.3	84	64.4	55.4	61.2	60.7	59.2	57.1	56.8	851,138	251,188,643	2,754,229	346,737	1,318,257	1,174,898	831,764	512,861	478,630
245	10/3/2018 12:49:09	59.2	84	67.3	55.7	60.9	60.4	59.2	57.6	57.2	831,764	251,188,643	5,370,318	371,535	1,230,269	1,096,478	831,764	575,440	524,807
246	10/3/2018 12:54:09	58.6	83.3	61.7	55.7	60.2	59.8	58.5	57.1	56.8	724,436	213,796,209	1,479,108	371,535	1,047,129	954,993	707,946	512,861	478,630
247	10/3/2018 12:59:09	60.4	85.2	71.3	56.1	61.7	61	59.6	58.2	57.7	1,096,478	331,131,121	13,489,629	407,380	1,479,108	1,258,925	912,011	660,693	588,844
248	10/3/2018 13:04:09	60.2	85	62.8	57.5	61.9	61.4	60.1	58.8	58.5	1,047,129	316,227,766	1,905,461	562,341	1,548,817	1,380,384	1,023,293	758,578	707,946
249	10/3/2018 13:09:09	59.7	84.4	62.3	57	61.1	60.8	59.7	58.2	57.8	933,254	275,422,870	1,698,244	501,187	1,288,250	1,202,264	933,254	660,693	602,560
250	10/3/2018 13:14:09	59.4	84.2	62.7	55.9	61.1	60.8	59.4	57.6	56.9	870,964	263,026,799	1,862,087	389,045	1,288,250	1,202,264	870,964	575,440	489,779
251	10/3/2018 13:19:09	59.3	84	61.7	56.7	60.9	60.6	59.2	57.6	57.3	851,138	251,188,643	1,479,108	467,735	1,230,269	1,148,154	831,764	575,440	537,032
252	10/3/2018 13:24:09	60	84.7	65.6	56.6	62	61.5	59.5	58.1	57.7	1,000,000	295,120,923	3,630,781	457,088	1,584,893	1,412,538	891,251	645,654	588,844
253	10/3/2018 13:29:09	59.5	84.3	65.2	55.5	61.9	61.2	59.1	57.7	57	891,251	269,153,480	3,311,311	354,813	1,548,817	1,318,257	812,831	588,844	501,187
254	10/3/2018 13:34:09	59.8	84.5	67.9	57	61.7	61.1	59.4	58.3	57.9	954,993	281,838,293	6,165,950	501,187	1,479,108	1,288,250	870,964	676,083	616,595
255	10/3/2018 13:39:09	59.9	84.7	65.1	55.8	61.5	61.1	59.7	57.9	57.4	977,237	295,120,923	3,235,937	380,189	1,412,538	1,288,250	933,254	616,595	549,541
256	10/3/2018 13:44:09	59.5	84.3	61.9	56.6	61.1	60.8	59.5	57.9	57.6	891,251	269,153,480	1,548,817	457,088	1,288,250	1,202,264	891,251	616,595	575,440
257	10/3/2018 13:49:09	60.1	84.9	63.7	57.3	61.7	61.2	60.1	58.5	58	1,023,293	309,029,543	2,344,229	537,032	1,479,108	1,318,257	1,023,293	707,946	630,957
258	10/3/2018 13:54:09	59.8	84.6	62.4	56.6	61.1	61	59.7	58.3	57.7	954,993	288,403,150	1,737,801	457,088	1,288,250	1,258,925	933,254	676,083	588,844
259	10/3/2018 13:59:09	59.7	84.5	62.8	57.1	61.3	60.9	59.5	58.6	58.2	933,254	281,838,293	1,905,461	512,861	1,348,963	1,230,269	891,251	724,436	660,693
260	10/3/2018 14:04:09	60.2	85	64.2	57.1	62	61.6	60	58.3	57.8	1,047,129	316,227,766	2,630,268	512,861	1,584,893	1,445,440	1,000,000	676,083	602,560
261	10/3/2018 14:09:09	59.9	84.7	62.3	57.5	61.5	61.2	59.8	58.7	58.4	977,237	295,120,923	1,698,244	562,341	1,412,538	1,318,257	954,993	741,310	691,831
262	10/3/2018 14:14:09	60.1	84.8	62.2	57.6	61.5	61.3	60	58.7	58.3	1,023,293	301,995,172	1,659,587	575,440	1,412,538	1,348,963	1,000,000	741,310	676,083
263	10/3/2018 14:19:09	59.9	84.6	63.2	57	61.8	61.4	59.7	58.3	58	977,237	288,403,150	2,089,296	501,187	1,513,561	1,380,384	933,254	676,083	630,957
264	10/3/2018 14:24:09	60.3	85.1	62.7	57.2	61.9	61.5	60.2	58.8	58.1	1,071,519	323,593,657	1,862,087	524,807	1,548,817	1,412,538	1,047,129	758,578	645,654
265	10/3/2018 14:29:09	60.6	85.4	69.4	58.5	62.2	61.5	60.2	59.3	59	1,148,154	346,736,850	8,709,636	707,946	1,659,587	1,412,538	1,047,129	851,138	794,328
266	10/3/2018 14:34:09	60.4	85.1	63.8	57.9	61.8	61.5	60.3	59.1	58.7	1,096,478	323,593,657	2,398,833	616,595	1,513,561	1,412,538	1,071,519	812,831	741,310
267	10/3/2018 14:39:09	60.8	85.6	66.2	57.1	62.4	62	60.6	59.3	58.9	1,202,264	363,078,055	4,168,694	512,861	1,737,801	1,584,893	1,148,154	851,138	776,247
268	10/3/2018 14:44:09	60.5	85.3	64.5	57	62.6	62.3	60.3	58.5	57.8	1,122,018	338,844,156	2,818,383	501,187	1,819,701	1,698,244	1,071,519	707,946	602,560
269	10/3/2018 14:49:09	61.7	86.4	64.1	59.8	62.6	62.4	61.7	60.6	60.5	1,479,108	436,515,832	2,570,396	954,993	1,819,701	1,737,801	1,479,108	1,148,154	1,122,018
270	10/3/2018 14:54:09	61.7	86.5	63.6	60.2	62.8	62.6	61.7	60.9	60.6	1,479,108	446,683,592	2,290,868	1,047,129	1,905,461	1,819,701	1,479,108	1,230,269	1,148,154
271	10/3/2018 14:59:09	62.2	87	68.7	60	63.4	62.8	62	61.2	60.9	1,659,587	501,187,234	7,413,102	1,000,000	2,187,762	1,905,461	1,584,893	1,318,257	1,230,269
272	10/3/2018 15:04:09	61.6	86.4	63.8	58.9	63.3	62.7	61.4	60.4	60.2	1,445,440	436,515,832	2,398,833	776,247	2,137,962	1,862,087	1,380,384	1,096,478	1,047,129
273	10/3/2018 15:09:09	62.3	87	68.2	60.3	63.3	63	62.2	61	60.7	1,698,244	501,187,234	6,606,934	1,071,519	2,137,962	1,995,262	1,659,587	1,258,925	1,174,898
274	10/3/2018 15:14:09	61.3	86.1	63.7	59.4	62.6	62.4	61.3	60.3	59.9	1,348,963	407,380,278	2,344,229	870,964	1,819,701	1,737,801	1,348,963	1,071,519	977,237
275	10/3/2018 15:19:09	61.2	86	66.6	58.9	62.5	62	61.1	60.2	59.8	1,318,257	398,107,171	4,570,882	776,247	1,778,279	1,584,893	1,288,250	1,047,129	954,993
276	10/3/2018 15:24:09	62.2	86.9	66.9	59.7	63.6	63.3	62.1	60.8	60.4	1,659,587	489,778,819	4,897,788	933,254	2,290,868	2,137,962	1,621,810	1,202,264	1,096,478
277	10/3/2018 15:29:09	63.9	88.7	78.4	58.2	65.6	62.4	60.5	59.2	58.9	1,488,922	443,942,995	3,517,875	873,042	1,994,556	1,861,428	1,470,033	1,124,696	1,025,735
278	10/3/2018 15:34:09	61.2	86	63.3	59.1	62.3	62	61.2	60.2	59.8	1,318,257	398,107,171	2,137,962	812,831	1,698,244	1,584,893	1,318,257	1,047,129	954,993
279	10/3/2018 15:39:09	61.8	86.5	71.3	59.4	63.1	62.3	61.1	60.3	60.1	1,513,561	446,683,592	13,489,629	870,964	2,041,738	1,698,244	1,288,250	1,071,519	1,023,293
280	10/3/2018 15:44:09	61.5	86.3	63.7	59.8	62.8	62.5	61.4	60.6	60.4	1,412,538	426,579,519	2,344,229	954,993	1,905,461	1,778,279	1,380,384	1,148,154	1,096,478
281	10/3/2018 15:49:09	60.9	85.7	62.9	57.5	62	61.7	60.9	59.8	59.2	1,230,269	371,535,229	1,949,845	562,341	1,584,893	1,479,108	1,230,269	954,993	831,764
282	10/3/2018 15:54:09	61.5	86.3	63.8	59.1	62.8	62.6	61.5	60.2	59.9	1,412,538	426,579,519	2,398,833	812,831	1,905,461	1,819,701	1,412,538	1,047,129	977,237
283	10/3/2018 15:59:09	61.3	86.1	62.7	59.2	62.2	62	61.4	60.5	60.3	1,348,963	407,380,278	1,862,087	831,764	1,659,587	1,584,893	1,380,384	1,122,018	1,071,519
284	10/3/2018 16:04:09	61.7	86.5	66	60	63.4	62.9	61.3	60.6	60.5	1,479,108	446,683,592	3,981,072	1,000,000	2,187,762	1,949,845	1,348,963	1,148,154	1,122,018
285	10/3/2018 16:09:09	61.5	86.3	65.1	59.4	62.5	62.3	61.5	60.3	59.9	1,412,538	426,579,519	3,235,937	870,964	1,778,279	1,698,244	1,412,538	1,071,519	977,237
286	10/3/2018 16:14:09	62.8	87.5	73.4	59.8	65.8	62.4	61.4	60.4	60.3	1,905,461	562,341,325	21,877,616	954,993	3,801,894	1,737,801	1,380,384	1,096,478	1,071,519
287	10/3/2018 16:19:09	61.5	86.3	65.2	59.7	63	62.5	61.4	60.4	60.3	1,412,538	426,579,519	3,311,311	933,254	1,995,262	1,778,279	1,380,384	1,096,478	1,071,519
288	10/3/2018 16:24:09	60.9	85.7	62.7	58.5	62.2	62	60.9	59.6	59.2	1,230,269	371,535,229	1,862,087	707,946	1,659,587	1,584,893	1,230,269	912,011	831,764
		Leq (RAW)	**SEL (RAW)**	**Lmax (RAW)**	**Lmin (RAW)**	**L5 (RAW)**	**L10 (RAW)**	**L50 (RAW)**	**L90 (RAW)**	**L95 (RAW)**	**Leq (ADJ)**	**SEL (ADJ)**	**Lmax (ADJ)**	**Lmin (ADJ)**	**L5 (ADJ)**	**L10 (ADJ)**	**L50 (ADJ)**	**L90 (ADJ)**	**L95 (ADJ)**
		60.1	**84.9**	**78.4**	**53.1**	**61.7**	**61.2**	**59.9**	**58.7**	**58.4**	**60.1**	**84.8**	**74.2**	**53.1**	**61.6**	**61.2**	**59.9**	**58.7**	**58.4**

Appendix I - Measurement LT-5

Address	Start Time	Leq (dBA)	SEL (dBA)	Lmax (dBA)	Lmin (dBA)	L5 (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	L95 (dBA)	Leq (Energy)	LE (SEL) (Energy)	Lmax (Energy)	Lmin (Energy)	L5 (Energy)	L10 (Energy)	L50 (Energy)	L90 (Energy)	L95 (Energy)
1	10/2/2018 16:42:41	57.3	82.1	70.9	51.4	61.5	58.7	55.5	53.8	53	537,032	162,181,010	12,302,688	138,038	1,412,538	741,310	354,813	239,883	199,526
2	10/2/2018 16:47:41	55.2	80	66.1	50.9	57.1	56.3	54.4	52.6	52.1	331,131	100,000,000	4,073,803	123,027	512,861	426,580	275,423	181,970	162,181
3	10/2/2018 16:52:41	54.6	79.4	59.2	49.8	57.2	56.4	54.4	52.3	51.8	288,403	87,096,359	831,764	95,499	524,807	436,516	275,423	169,824	151,356
4	10/2/2018 16:57:41	57.7	82.4	71	53.1	59.1	56.9	55.5	54	53.7	588,844	173,780,083	12,589,254	204,174	812,831	489,779	354,813	251,189	234,423
5	10/2/2018 17:02:41	53.8	78.6	60.3	50.1	55.5	55.2	53.5	52	51.3	239,883	72,443,596	1,071,519	102,329	354,813	331,131	223,872	158,489	134,896
6	10/2/2018 17:07:41	54.8	79.6	63.5	50.2	57.4	56.3	54.3	52.3	51.9	301,995	91,201,084	2,238,721	104,713	549,541	426,580	269,153	169,824	154,882
7	10/2/2018 17:12:41	56.6	81.4	69	50.5	60.4	57.4	54.5	52.4	51.7	457,088	138,038,426	7,943,282	112,202	1,096,478	549,541	281,838	173,780	147,911
8	10/2/2018 17:17:41	54.8	79.6	59.2	50.4	57.3	56.7	54.6	51.6	51	301,995	91,201,084	831,764	109,648	537,032	467,735	288,403	144,544	125,893
9	10/2/2018 17:22:41	56.5	81.2	67.9	49.3	61.4	57.4	54.9	53	52.3	446,684	131,825,674	6,165,950	85,114	1,380,384	549,541	309,030	199,526	169,824
10	10/2/2018 17:27:41	57.1	81.9	73	50.1	61.4	57.2	54.6	52.8	51.7	512,861	154,881,662	19,952,623	102,329	1,380,384	524,807	288,403	190,546	147,911
11	10/2/2018 17:32:41	54.1	78.8	56.3	51.3	55.9	55.7	53.7	52.5	52.2	257,040	75,857,758	426,580	134,896	389,045	371,535	234,423	177,828	165,959
12	10/2/2018 17:37:41	54.1	78.9	56.8	49.4	56.2	55.9	53.9	52	51.1	257,040	77,624,712	478,630	87,096	416,869	389,045	245,471	158,489	128,825
13	10/2/2018 17:42:41	55	79.7	58	51.1	56.8	56.5	54.9	52.4	52	316,228	93,325,430	630,957	128,825	478,630	446,684	309,030	173,780	158,489
14	10/2/2018 17:47:41	55.3	80	62.7	50.9	57.6	56.9	54.9	53.1	52.3	338,844	100,000,000	1,862,087	123,027	575,440	489,779	309,030	204,174	169,824
15	10/2/2018 17:52:41	56.9	81.6	69.3	49.8	62.2	57.3	54.5	51.8	51	489,779	144,543,977	8,511,380	95,499	1,659,587	537,032	281,838	151,356	125,893
16	10/2/2018 17:57:41	54	78.8	56.1	50.2	55.5	55.1	54.1	52.7	52.1	251,189	75,857,758	407,380	104,713	354,813	323,594	257,040	186,209	162,181
17	10/2/2018 18:02:41	54.3	79.1	58.2	51.2	57	56	53.9	52.6	52.3	269,153	81,283,052	660,693	131,826	501,187	398,107	245,471	181,970	169,824
18	10/2/2018 18:07:41	54.8	79.6	61.3	51.1	57.3	56.1	54.5	52.5	52	301,995	91,201,084	1,348,963	128,825	537,032	407,380	281,838	177,828	158,489
19	10/2/2018 18:12:41	55.4	80.2	65	53.1	57.5	56.6	54.8	53.7	53.5	346,737	104,712,855	3,162,278	204,174	562,341	457,088	301,995	234,423	223,872
20	10/2/2018 18:17:41	54	78.8	61.8	50.3	56.1	55.8	53.3	51.5	51.1	251,189	75,857,758	1,513,561	107,152	407,380	380,189	213,796	141,254	128,825
21	10/2/2018 18:22:41	54.6	79.4	57.6	50.4	56.6	55.9	54.6	52.4	51.9	288,403	87,096,359	575,440	109,648	457,088	389,045	288,403	173,780	154,882
22	10/2/2018 18:27:41	54.3	79.1	57.1	50.5	56.2	55.7	54.2	52.4	52	269,153	81,283,052	512,861	112,202	416,869	371,535	263,027	173,780	158,489
23	10/2/2018 18:32:41	54.2	79	60	50.2	56.4	55.7	53.9	52	51.6	263,027	79,432,823	1,000,000	104,713	436,516	371,535	245,471	158,489	144,544
24	10/2/2018 18:37:41	55	79.7	62	50.5	57.5	56.1	54.7	52.8	52.4	316,228	93,325,430	1,584,893	112,202	562,341	407,380	295,121	190,546	173,780
25	10/2/2018 18:42:41	53.7	78.4	57.7	50.3	55.4	55	53.6	51.7	51.2	234,423	69,183,097	588,844	107,152	346,737	316,228	229,087	147,911	131,826
26	10/2/2018 18:47:41	57.1	81.8	70.9	50.7	60.5	57	54.1	51.9	51.3	512,861	151,356,125	12,302,688	117,490	1,122,018	501,187	257,040	154,882	134,896
27	10/2/2018 18:52:41	53.8	78.6	56.1	50.5	55.5	55.2	53.8	51.9	51.3	239,883	72,443,596	407,380	112,202	354,813	331,131	239,883	154,882	134,896
28	10/2/2018 18:57:41	53.3	78.1	56.8	50.4	55.6	54.7	53.1	51.8	51.5	213,796	64,565,423	478,630	109,648	363,078	295,121	204,174	151,356	141,254
29	10/2/2018 19:02:41	53.9	78.7	57.1	50.2	55.9	55.6	53.8	51.5	51	245,471	74,131,024	512,861	104,713	389,045	363,078	239,883	141,254	125,893
30	10/2/2018 19:07:41	54.1	78.9	58.1	49.8	57.1	56.2	53.8	52.2	50.9	257,040	77,624,712	645,654	95,499	512,861	416,869	239,883	165,959	123,027
31	10/2/2018 19:12:41	56.5	81.3	69.5	50.8	58.8	56.9	54.6	53	52.6	446,684	134,896,288	8,912,509	120,226	758,578	489,779	288,403	199,526	181,970
32	10/2/2018 19:17:41	57.5	82.2	67.9	50	63.9	61	54.3	52.4	51.6	562,341	165,958,691	6,165,950	100,000	2,454,709	1,258,925	269,153	173,780	144,544
33	10/2/2018 19:22:41	54.9	79.7	66.2	51.4	56.1	55.6	54.1	52.6	52.1	309,030	93,325,430	4,168,694	138,038	407,380	363,078	257,040	181,970	162,181
34	10/2/2018 19:27:41	54	78.8	56.7	50.7	56	55.5	53.7	52.3	51.9	251,189	75,857,758	467,735	117,490	398,107	354,813	234,423	169,824	154,882
35	10/2/2018 19:32:41	56.6	81.4	70.2	51.3	57.3	55.8	54.5	52.9	52.3	457,088	138,038,426	10,471,285	134,896	537,032	380,189	281,838	194,984	169,824
36	10/2/2018 19:37:41	54	78.8	56.3	51.8	55.3	55	54	52.6	52.2	251,189	75,857,758	426,580	151,356	338,844	316,228	251,189	181,970	165,959
37	10/2/2018 19:42:41	54.5	79.3	61.3	50.5	57.5	55.6	53.9	52.3	51.7	281,838	85,113,804	1,348,963	112,202	562,341	363,078	245,471	169,824	147,911
38	10/2/2018 19:47:41	55.2	79.9	69.5	51.2	55.8	55.3	53.9	52.1	51.9	331,131	97,723,722	8,912,509	131,826	380,189	338,844	245,471	162,181	154,882
39	10/2/2018 19:52:41	53.8	78.6	56.4	51.5	55.1	54.8	53.8	52.3	52	239,883	72,443,596	436,516	141,254	323,594	301,995	239,883	169,824	158,489
40	10/2/2018 19:57:41	55.9	80.6	67.6	51	56.6	55.8	54.4	52.5	52.2	389,045	114,815,362	5,754,399	125,893	457,088	380,189	275,423	177,828	165,959
41	10/2/2018 20:02:41	56	80.8	67.1	52.4	58.6	56.3	54.6	53.4	53.1	398,107	120,226,443	5,128,614	173,780	724,436	426,580	288,403	218,776	204,174
42	10/2/2018 20:07:41	60.5	85.2	73.3	51.5	67.9	64.8	53.8	52.4	52.1	1,122,018	331,131,121	21,379,621	141,254	6,165,950	3,019,952	239,883	173,780	162,181
43	10/2/2018 20:12:41	54	78.8	56.2	51.6	55.5	55.1	53.9	52.7	52.5	251,189	75,857,758	416,869	144,544	354,813	323,594	245,471	186,209	177,828
44	10/2/2018 20:17:41	54.4	79.2	56.3	51.8	55.8	55.6	54.4	52.8	52.6	275,423	83,176,377	426,580	151,356	380,189	363,078	275,423	190,546	181,970
45	10/2/2018 20:22:41	55.5	80.3	64.6	51.7	57.4	56.1	54.6	53.3	52.8	354,813	107,151,931	2,884,032	147,911	549,541	407,380	288,403	213,796	190,546
46	10/2/2018 20:27:41	54.7	79.5	57.5	51.7	56.2	55.9	54.8	52.7	52.4	295,121	89,125,094	562,341	147,911	416,869	389,045	301,995	186,209	173,780
47	10/2/2018 20:32:41	54.6	79.4	61.7	51.3	56.1	55.8	54.4	52.5	52.2	288,403	87,096,359	1,479,108	134,896	407,380	380,189	275,423	177,828	165,959
48	10/2/2018 20:37:41	55.2	80	62	51.4	58.1	57.1	54.5	52.9	52.6	331,131	100,000,000	1,584,893	138,038	645,654	512,861	281,838	194,984	181,970
49	10/2/2018 20:42:41	54.9	79.6	58.3	52.4	56.4	56	54.7	53.5	53.2	309,030	91,201,084	676,083	173,780	436,516	398,107	295,121	223,872	208,930
50	10/2/2018 20:47:41	54.9	79.7	58.5	51.9	56.5	56.2	54.9	53.2	52.8	309,030	93,325,430	707,946	154,882	446,684	416,869	309,030	208,930	190,546
51	10/2/2018 20:52:41	54.7	79.5	56.9	52.1	56	55.8	54.7	53.3	53	295,121	89,125,094	489,779	162,181	398,107	380,189	295,121	213,796	199,526
52	10/2/2018 20:57:41	54.9	79.7	56.7	53.1	56	55.8	54.8	53.8	53.6	309,030	93,325,430	467,735	204,174	398,107	380,189	301,995	239,883	229,087
53	10/2/2018 21:02:41	55.1	79.9	57.3	52.7	56.3	56.1	55	53.8	53.6	323,594	97,723,722	537,032	186,209	426,580	407,380	316,228	239,883	229,087
54	10/2/2018 21:07:41	55.1	79.9	58.1	52.6	56.8	56.6	54.8	53.6	53.4	323,594	97,723,722	645,654	181,970	478,630	457,088	301,995	229,087	218,776
55	10/2/2018 21:12:41	57.4	82.2	69	53.2	60.7	57.2	55.5	54.2	53.9	549,541	165,958,691	7,943,282	208,930	1,174,898	524,807	354,813	263,027	245,471
56	10/2/2018 21:17:41	56.1	80.8	61.1	53.3	58	57.4	55.8	54.4	54.1	407,380	120,226,443	1,288,250	213,796	630,957	549,541	380,189	275,423	257,040
57	10/2/2018 21:22:41	55	79.8	58.7	53.1	56.9	56.3	54.8	53.7	53.5	316,228	95,499,259	741,310	204,174	489,779	426,580	301,995	234,423	223,872
58	10/2/2018 21:27:41	55.5	80.2	57.8	53	57	56.7	55.4	53.9	53.6	354,813	104,712,855	602,560	199,526	501,187	467,735	346,737	245,471	229,087
59	10/2/2018 21:32:41	55	79.8	59.5	53.2	56.4	56.1	54.9	53.8	53.7	316,228	95,499,259	891,251	208,930	436,516	407,380	309,030	239,883	234,423
60	10/2/2018 21:37:41	57.5	82.2	69.4	52.6	61.4	57	54.9	53.8	53.5	562,341	165,958,691	8,709,636	181,970	1,380,384	501,187	309,030	239,883	223,872

Appendix I - Measurement LT-5

Address	Start Time	Leq (dBA)	SEL (dBA)	Lmax (dBA)	Lmin (dBA)	L5 (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	L95 (dBA)	Leq (Energy)	LE (SEL) (Energy)	Lmax (Energy)	Lmin (Energy)	L5 (Energy)	L10 (Energy)	L50 (Energy)	L90 (Energy)	L95 (Energy)
61	10/2/2018 21:42:41	54.8	79.6	56.3	53.1	55.8	55.6	54.7	53.9	53.7	301,995	91,201,084	426,580	204,174	380,189	363,078	295,121	245,471	234,423
62	10/2/2018 21:47:41	58	82.7	69.1	53.3	64.3	59.9	55.1	54.2	53.9	630,957	186,208,714	8,128,305	213,796	2,691,535	977,237	323,594	263,027	245,471
63	10/2/2018 21:52:41	54.7	79.5	58.5	53.1	56	55.6	54.5	53.7	53.6	295,121	89,125,094	707,946	204,174	398,107	363,078	281,838	234,423	229,087
64	10/2/2018 21:57:41	56.5	81.3	69.6	53.3	59.5	56.5	54.8	54	53.8	446,684	134,896,288	9,120,108	213,796	891,251	446,684	301,995	251,189	239,883
65	10/2/2018 22:02:41	55.4	80.2	61.9	53.2	57.4	56.4	55	54	53.8	346,737	104,712,855	1,548,817	208,930	549,541	436,516	316,228	251,189	239,883
66	10/2/2018 22:07:41	55.5	80.3	60.4	52.8	56.8	56.6	55.2	54.1	53.7	354,813	107,151,931	1,096,478	190,546	478,630	457,088	331,131	257,040	234,423
67	10/2/2018 22:12:41	55.3	80	58.3	53	56.5	56.2	55.2	54	53.9	338,844	100,000,000	676,083	199,526	446,684	416,869	331,131	251,189	245,471
68	10/2/2018 22:17:41	57	81.7	69.5	54	57.6	56.7	55.5	54.8	54.6	501,187	147,910,839	8,912,509	251,189	575,440	467,735	354,813	301,995	288,403
69	10/2/2018 22:22:41	55.8	80.5	57.9	54.2	56.8	56.5	55.7	54.9	54.7	380,189	112,201,845	616,595	263,027	478,630	446,684	371,535	309,030	295,121
70	10/2/2018 22:27:41	56.1	80.8	63.2	53.8	57.9	57.3	55.5	54.5	54.3	407,380	120,226,443	2,089,296	239,883	616,595	537,032	354,813	281,838	269,153
71	10/2/2018 22:32:41	55.9	80.6	57.2	54.1	56.8	56.6	55.8	55	54.7	389,045	114,815,362	524,807	257,040	478,630	457,088	380,189	316,228	295,121
72	10/2/2018 22:37:41	56.1	80.8	59.7	54.4	57.6	56.9	55.7	55.2	55	407,380	120,226,443	933,254	275,423	575,440	489,779	371,535	331,131	316,228
73	10/2/2018 22:42:41	56.3	81	61.4	53.9	58.2	56.8	55.9	55.3	55.1	426,580	125,892,541	1,380,384	245,471	660,693	478,630	389,045	338,844	323,594
74	10/2/2018 22:47:41	56.1	80.8	58.3	53.6	57.4	57	56	54.9	54.4	407,380	120,226,443	676,083	229,087	549,541	501,187	398,107	309,030	275,423
75	10/2/2018 22:52:41	55.9	80.6	57.9	54.2	57	56.7	55.7	54.9	54.8	389,045	114,815,362	616,595	263,027	501,187	467,735	371,535	309,030	301,995
76	10/2/2018 22:57:41	59.4	84.2	73.6	54.9	63.4	57.3	56.1	55.5	55.4	870,964	263,026,799	22,908,677	309,030	2,187,762	537,032	407,380	354,813	346,737
77	10/2/2018 23:02:41	55.6	80.3	57.2	53.9	56.6	56.3	55.5	54.7	54.4	363,078	107,151,931	524,807	245,471	457,088	426,580	354,813	295,121	275,423
78	10/2/2018 23:07:41	56.5	81.2	67.4	53.8	57.9	56.9	55.7	54.8	54.4	446,684	131,825,674	5,495,409	239,883	616,595	489,779	371,535	301,995	275,423
79	10/2/2018 23:12:41	55.9	80.7	57.2	54.4	56.6	56.5	55.9	55.2	55	389,045	117,489,755	524,807	275,423	457,088	446,684	389,045	331,131	316,228
80	10/2/2018 23:17:41	55.8	80.6	57.8	53.8	57	56.7	55.8	54.9	54.5	380,189	114,815,362	602,560	239,883	501,187	467,735	380,189	309,030	281,838
81	10/2/2018 23:22:41	55.9	80.7	58.2	54.4	57	56.7	55.7	55.1	55	389,045	117,489,755	660,693	275,423	501,187	467,735	371,535	323,594	316,228
82	10/2/2018 23:27:41	54.6	79.4	56.5	53.1	55.7	55.5	54.5	53.8	53.7	288,403	87,096,359	446,684	204,174	371,535	354,813	281,838	239,883	234,423
83	10/2/2018 23:32:41	55.9	80.7	66	53.1	61.8	56.2	54.2	53.5	53.4	389,045	117,489,755	3,981,072	204,174	1,513,561	416,869	263,027	223,872	218,776
84	10/2/2018 23:37:41	54.8	79.6	61.3	53.1	56.5	55.4	54.4	53.7	53.5	301,995	91,201,084	1,348,963	204,174	446,684	346,737	275,423	234,423	223,872
85	10/2/2018 23:42:41	54.5	79.2	56.8	53.1	55.8	55.2	54.3	53.8	53.6	281,838	83,176,377	478,630	204,174	380,189	331,131	269,153	239,883	229,087
86	10/2/2018 23:47:41	55.3	80.1	57.5	53.9	56.5	56.1	55.2	54.6	54.5	338,844	102,329,299	562,341	245,471	446,684	407,380	331,131	288,403	281,838
87	10/2/2018 23:52:41	55.1	79.8	56.5	53.6	56	55.8	55	54.4	54.2	323,594	95,499,259	446,684	229,087	398,107	380,189	316,228	275,423	263,027
88	10/2/2018 23:57:41	55	79.8	57.9	53.7	55.9	55.6	54.9	54.3	54.2	316,228	95,499,259	616,595	234,423	389,045	363,078	309,030	269,153	263,027
89	10/3/2018 0:02:41	54.6	79.3	55.7	53.6	55.2	55	54.5	54.1	54	288,403	85,113,804	371,535	229,087	331,131	316,228	281,838	257,040	251,189
90	10/3/2018 0:07:41	54.9	79.6	56.5	53.7	55.7	55.5	54.8	54.2	54.1	309,030	91,201,084	446,684	234,423	371,535	354,813	301,995	263,027	257,040
91	10/3/2018 0:12:41	55.2	80	61.9	53.7	57.2	56	54.9	54.2	54.1	331,131	100,000,000	1,548,817	234,423	524,807	398,107	309,030	263,027	257,040
92	10/3/2018 0:17:41	54.4	79.1	55.6	52.9	55.1	54.9	54.4	53.8	53.7	275,423	81,283,052	363,078	194,984	323,594	309,030	275,423	239,883	234,423
93	10/3/2018 0:22:41	55	79.8	61.9	53.5	56.1	55.5	54.6	54.1	53.9	316,228	95,499,259	1,548,817	223,872	407,380	354,813	288,403	257,040	245,471
94	10/3/2018 0:27:41	54.3	79.1	55.4	53.3	54.9	54.8	54.3	53.9	53.8	269,153	81,283,052	346,737	213,796	309,030	301,995	269,153	245,471	239,883
95	10/3/2018 0:32:41	54.5	79.2	56.2	53.1	55.2	55	54.4	53.9	53.8	281,838	83,176,377	416,869	204,174	331,131	316,228	275,423	245,471	239,883
96	10/3/2018 0:37:41	54.6	79.4	56.2	53.5	55.5	55.2	54.5	54.1	54	288,403	87,096,359	416,869	223,872	354,813	331,131	281,838	257,040	251,189
97	10/3/2018 0:42:41	54.3	79.1	56.4	53.1	55.3	54.9	54.2	53.7	53.6	269,153	81,283,052	436,516	204,174	338,844	309,030	263,027	234,423	229,087
98	10/3/2018 0:47:41	54.6	79.4	57	52.8	55.6	55.3	54.5	53.8	53.4	288,403	87,096,359	501,187	190,546	363,078	338,844	281,838	239,883	218,776
99	10/3/2018 0:52:41	54.7	79.5	56.7	53.7	55.7	55.4	54.6	54.1	54	295,121	89,125,094	467,735	234,423	371,535	346,737	288,403	257,040	251,189
100	10/3/2018 0:57:41	55	79.7	56.4	53.9	55.6	55.4	54.9	54.5	54.4	316,228	93,325,430	436,516	245,471	363,078	346,737	309,030	281,838	275,423
101	10/3/2018 1:02:41	54.8	79.6	56.9	53.5	55.7	55.5	54.8	54.2	54	301,995	91,201,084	489,779	223,872	371,535	354,813	301,995	263,027	251,189
102	10/3/2018 1:07:41	54.5	79.3	55.7	53.4	55.1	55	54.5	54.1	54	281,838	85,113,804	371,535	218,776	323,594	316,228	281,838	257,040	251,189
103	10/3/2018 1:12:41	54.2	78.9	55.9	53	55	54.7	54.1	53.7	53.5	263,027	77,624,712	389,045	199,526	316,228	295,121	257,040	234,423	223,872
104	10/3/2018 1:17:41	54.4	79.1	56.1	53.1	55.2	54.9	54.3	53.8	53.7	275,423	81,283,052	407,380	204,174	331,131	309,030	269,153	239,883	234,423
105	10/3/2018 1:22:41	54.4	79.2	55.8	53.3	55.2	55	54.4	53.8	53.7	275,423	83,176,377	380,189	213,796	331,131	316,228	275,423	239,883	234,423
106	10/3/2018 1:27:41	54.1	78.9	57.1	52.9	55.1	54.6	54	53.6	53.4	257,040	77,624,712	512,861	194,984	323,594	288,403	251,189	229,087	218,776
107	10/3/2018 1:32:41	54.3	79	56.2	53.1	55.1	54.8	54.2	53.8	53.7	269,153	79,432,823	416,869	204,174	323,594	301,995	263,027	239,883	234,423
108	10/3/2018 1:37:41	54.2	79	55.3	53	54.8	54.7	54.2	53.8	53.7	263,027	79,432,823	338,844	199,526	301,995	295,121	263,027	239,883	234,423
109	10/3/2018 1:42:41	54.4	79.1	56.2	53.3	54.9	54.8	54.3	54	53.8	275,423	81,283,052	416,869	213,796	309,030	301,995	269,153	251,189	239,883
110	10/3/2018 1:47:41	54.2	79	55.5	53.3	54.9	54.7	54.1	53.7	53.6	263,027	79,432,823	354,813	213,796	309,030	295,121	257,040	234,423	229,087
111	10/3/2018 1:52:41	54.1	78.9	56.2	53.2	54.7	54.5	54.1	53.7	53.6	257,040	77,624,712	416,869	208,930	295,121	281,838	257,040	234,423	229,087
112	10/3/2018 1:57:41	54.2	79	55.1	53.4	54.7	54.6	54.2	53.8	53.8	263,027	79,432,823	323,594	218,776	295,121	288,403	263,027	239,883	239,883
113	10/3/2018 2:02:41	54.1	78.8	55.4	53.1	54.5	54.4	54	53.7	53.7	257,040	75,857,758	346,737	204,174	281,838	275,423	251,189	234,423	234,423
114	10/3/2018 2:07:41	54.2	79	55.2	53.4	54.8	54.6	54.2	53.8	53.7	263,027	79,432,823	331,131	218,776	301,995	288,403	263,027	239,883	234,423
115	10/3/2018 2:12:41	54.2	79	56.3	53.2	55.2	54.7	54.1	53.8	53.7	263,027	79,432,823	426,580	208,930	331,131	295,121	257,040	239,883	234,423
116	10/3/2018 2:17:41	54.8	79.6	57.6	53.7	56.1	55.4	54.6	54.2	54.1	301,995	91,201,084	575,440	234,423	407,380	346,737	288,403	263,027	257,040
117	10/3/2018 2:22:41	54.3	79	55.7	53	55	54.8	54.2	53.7	53.6	269,153	79,432,823	371,535	199,526	316,228	301,995	263,027	234,423	229,087
118	10/3/2018 2:27:41	54.1	78.9	55.2	53.1	54.7	54.6	54.1	53.7	53.6	257,040	77,624,712	331,131	204,174	295,121	288,403	257,040	234,423	229,087
119	10/3/2018 2:32:41	53.9	78.7	55.2	53	54.5	54.4	53.9	53.4	53.3	245,471	74,131,024	331,131	199,526	281,838	275,423	245,471	218,776	213,796
120	10/3/2018 2:37:41	53.9	78.7	54.9	53	54.4	54.3	53.9	53.5	53.4	245,471	74,131,024	309,030	199,526	275,423	269,153	245,471	223,872	218,776
121	10/3/2018 2:42:41	53.8	78.6	55	53	54.4	54.2	53.8	53.4	53.3	239,883	72,443,596	316,228	199,526	275,423	263,027	239,883	218,776	213,796

Appendix I - Measurement LT-5

Address	Start Time	Leq (dBA)	SEL (dBA)	Lmax (dBA)	Lmin (dBA)	L5 (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	L95 (dBA)	Leq (Energy)	LE (SEL) (Energy)	Lmax (Energy)	Lmin (Energy)	L5 (Energy)	L10 (Energy)	L50 (Energy)	L90 (Energy)	L95 (Energy)
122	10/3/2018 2:47:41	53.7	78.5	56.1	52.8	55	54.5	53.6	53.3	53.2	234,423	70,794,578	407,380	190,546	316,228	281,838	229,087	213,796	208,930
123	10/3/2018 2:52:41	53.3	78.1	54.4	52.2	53.9	53.8	53.3	52.9	52.8	213,796	64,565,423	275,423	165,959	245,471	239,883	213,796	194,984	190,546
124	10/3/2018 2:57:41	53.8	78.6	54.8	52.6	54.3	54.3	53.8	53.2	53.1	239,883	72,443,596	301,995	181,970	269,153	269,153	239,883	208,930	204,174
125	10/3/2018 3:02:41	54.1	78.9	55.3	53	54.6	54.5	54.1	53.7	53.5	257,040	77,624,712	338,844	199,526	288,403	281,838	257,040	234,423	223,872
126	10/3/2018 3:07:41	54.1	78.9	55.4	53	54.8	54.6	54.1	53.7	53.6	257,040	77,624,712	346,737	199,526	301,995	288,403	257,040	234,423	229,087
127	10/3/2018 3:12:41	54.4	79.2	55.7	53	55.1	55	54.4	53.9	53.8	275,423	83,176,377	371,535	199,526	323,594	316,228	275,423	245,471	239,883
128	10/3/2018 3:17:41	55.1	79.9	56.6	53.8	55.8	55.6	55.1	54.5	54.4	323,594	97,723,722	457,088	239,883	380,189	363,078	323,594	281,838	275,423
129	10/3/2018 3:22:41	54.6	79.4	55.8	53.2	55.2	55.1	54.6	54.2	54	288,403	87,096,359	380,189	208,930	331,131	323,594	288,403	263,027	251,189
130	10/3/2018 3:27:41	54.7	79.5	57.1	53	55.9	55.3	54.7	53.8	53.6	295,121	89,125,094	512,861	199,526	389,045	338,844	295,121	239,883	229,087
131	10/3/2018 3:32:41	54.7	79.4	55.7	53.5	55.3	55.2	54.7	54.1	54	295,121	87,096,359	371,535	223,872	338,844	331,131	295,121	257,040	251,189
132	10/3/2018 3:37:41	53.4	78.2	54.9	52.1	54.4	54.2	53.2	52.7	52.6	218,776	66,069,345	309,030	162,181	275,423	263,027	208,930	186,209	181,970
133	10/3/2018 3:42:41	53.9	78.7	57	52.2	54.8	54.5	53.9	53.2	53	245,471	74,131,024	501,187	165,959	301,995	281,838	245,471	208,930	199,526
134	10/3/2018 3:47:41	54.3	79.1	55.8	53.3	54.8	54.7	54.3	54	53.9	269,153	81,283,052	380,189	213,796	301,995	295,121	269,153	251,189	245,471
135	10/3/2018 3:52:41	54.2	78.9	55.7	51.9	55.2	55	54.2	52.8	52.6	263,027	77,624,712	371,535	154,882	331,131	316,228	263,027	190,546	181,970
136	10/3/2018 3:57:41	55.7	80.5	57	53.7	56.4	56.2	55.7	54.9	54.7	371,535	112,201,845	501,187	234,423	436,516	416,869	371,535	309,030	295,121
137	10/3/2018 4:02:41	54.6	79.4	56.8	51.8	56.3	56.1	54.7	52.4	52.2	288,403	87,096,359	478,630	151,356	426,580	407,380	295,121	173,780	165,959
138	10/3/2018 4:07:41	52.9	77.6	55.4	51.7	54	53.6	52.7	52.2	52.1	194,984	57,543,994	346,737	147,911	251,189	229,087	186,209	165,959	162,181
139	10/3/2018 4:12:41	52.9	77.7	54.8	51.8	54	53.6	52.8	52.3	52.2	194,984	58,884,366	301,995	151,356	251,189	229,087	190,546	169,824	165,959
140	10/3/2018 4:17:41	53	77.8	54.4	52.2	53.8	53.5	52.9	52.6	52.5	199,526	60,255,959	275,423	165,959	239,883	223,872	194,984	181,970	177,828
141	10/3/2018 4:22:41	53.1	77.9	54.6	51.8	54	53.8	53.1	52.5	52.3	204,174	61,659,500	288,403	151,356	251,189	239,883	204,174	177,828	169,824
142	10/3/2018 4:27:41	52.6	77.4	54.7	51.3	53.8	53.4	52.5	51.8	51.6	181,970	54,954,087	295,121	134,896	239,883	218,776	177,828	151,356	144,544
143	10/3/2018 4:32:41	52.2	77	54.4	50.8	53.5	53	52.1	51.5	51.3	165,959	50,118,723	275,423	120,226	223,872	199,526	162,181	141,254	134,896
144	10/3/2018 4:37:41	52.8	77.6	57.7	50.9	54.5	54.2	52.4	51.4	51.2	190,546	57,543,994	588,844	123,027	281,838	263,027	173,780	138,038	131,826
145	10/3/2018 4:42:41	53.6	78.4	55.9	51.5	55.4	54.7	53.6	52.2	52	229,087	69,183,097	389,045	141,254	346,737	295,121	229,087	165,959	158,489
146	10/3/2018 4:47:41	54.6	79.4	56.4	52.4	56	55.8	54.6	53.2	53	288,403	87,096,359	436,516	173,780	398,107	380,189	288,403	208,930	199,526
147	10/3/2018 4:52:41	53.9	78.6	55.9	52.2	55.3	55	53.6	52.7	52.6	245,471	72,443,596	389,045	165,959	338,844	316,228	229,087	186,209	181,970
148	10/3/2018 4:57:41	53.5	78.2	59.5	51.6	54.9	54.6	53.2	52.2	52	223,872	66,069,345	891,251	144,544	309,030	288,403	208,930	165,959	158,489
149	10/3/2018 5:02:41	54.1	78.9	63.3	52.1	55.6	54.9	53.6	52.6	52.4	257,040	77,624,712	2,137,962	162,181	363,078	309,030	229,087	181,970	173,780
150	10/3/2018 5:07:41	54	78.7	58	51.7	55.9	55.3	53.7	52.6	52.4	251,189	74,131,024	630,957	147,911	389,045	338,844	234,423	181,970	173,780
151	10/3/2018 5:12:41	54.3	79.1	59.8	51.6	56.4	55.5	54	52.5	52.2	269,153	81,283,052	954,993	144,544	436,516	354,813	251,189	177,828	165,959
152	10/3/2018 5:17:41	53.6	78.4	57	51.1	55.8	55.2	53.3	52.1	51.8	229,087	69,183,097	501,187	128,825	380,189	331,131	213,796	162,181	151,356
153	10/3/2018 5:22:41	53.9	78.7	58.1	51.9	56	55.1	53.6	52.7	52.5	245,471	74,131,024	645,654	154,882	398,107	323,594	229,087	186,209	177,828
154	10/3/2018 5:27:41	55.8	80.5	66.8	51.7	57.8	56.2	54.7	52.5	52.3	380,189	112,201,845	4,786,301	147,911	602,560	416,869	295,121	177,828	169,824
155	10/3/2018 5:32:41	54.1	78.8	58.9	50.7	56.1	55.6	53.7	52.3	51.7	257,040	75,857,758	776,247	117,490	407,380	363,078	234,423	169,824	147,911
156	10/3/2018 5:37:41	54.7	79.5	58.1	51.9	56.5	56.1	54.7	52.8	52.5	295,121	89,125,094	645,654	154,882	446,684	407,380	295,121	190,546	177,828
157	10/3/2018 5:42:41	55.1	79.9	65.5	51.5	56.9	56.2	54.4	52.4	51.9	323,594	97,723,722	3,548,134	141,254	489,779	416,869	275,423	173,780	154,882
158	10/3/2018 5:47:41	56.3	81	63.4	53.3	59.6	58.5	55.4	54.1	53.8	426,580	125,892,541	2,187,762	213,796	912,011	707,946	346,737	257,040	239,883
159	10/3/2018 5:52:41	55.2	80	57.8	52.9	57	56.6	55	53.9	53.5	331,131	100,000,000	602,560	194,984	501,187	457,088	316,228	245,471	223,872

Appendix I - Measurement LT-5

Address	Start Time	Leq (dBA)	SEL (dBA)	Lmax (dBA)	Lmin (dBA)	L5 (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	L95 (dBA)	Leq (Energy)	LE (SEL) (Energy)	Lmax (Energy)	Lmin (Energy)	L5 (Energy)	L10 (Energy)	L50 (Energy)	L90 (Energy)	L95 (Energy)
160	10/3/2018 5:57:41	55.6	80.4	61.5	52.3	57.9	57.1	55.3	53.5	53	363,078	109,647,820	1,412,538	169,824	616,595	512,861	338,844	223,872	199,526
161	10/3/2018 6:02:41	54.5	79.3	57.8	51.9	56.9	56.4	54	53	52.7	281,838	85,113,804	602,560	154,882	489,779	436,516	251,189	199,526	186,209
162	10/3/2018 6:07:41	54.9	79.7	58	52.7	57.2	56.7	54.6	53.2	53	309,030	93,325,430	630,957	186,209	524,807	467,735	288,403	208,930	199,526
163	10/3/2018 6:12:41	55.3	80.1	59.3	52.6	57.2	56.7	55.1	53.5	53.2	338,844	102,329,299	851,138	181,970	524,807	467,735	323,594	223,872	208,930
164	10/3/2018 6:17:41	55.4	80.2	58.5	52.7	57.5	56.9	55.2	53.9	53.4	346,737	104,712,855	707,946	186,209	562,341	489,779	331,131	245,471	218,776
165	10/3/2018 6:22:41	54.6	79.3	57.4	52	56.6	56.3	54.5	52.8	52.7	288,403	85,113,804	549,541	158,489	457,088	426,580	281,838	190,546	186,209
166	10/3/2018 6:27:41	55.8	80.5	60.8	52.4	59	57.5	55.1	53.3	52.9	380,189	112,201,845	1,202,264	173,780	794,328	562,341	323,594	213,796	194,984
167	10/3/2018 6:32:41	55.9	80.7	58.5	53.5	57.2	56.9	55.9	54.5	54.3	389,045	117,489,755	707,946	223,872	524,807	489,779	389,045	281,838	269,153
168	10/3/2018 6:37:41	56.1	80.9	58.8	53.6	57.8	57.6	55.8	54.7	54.3	407,380	123,026,877	758,578	229,087	602,560	575,440	380,189	295,121	269,153
169	10/3/2018 6:42:41	55.9	80.6	59.8	52.8	57.6	57.2	55.6	53.9	53.2	389,045	114,815,362	954,993	190,546	575,440	524,807	363,078	245,471	208,930
170	10/3/2018 6:47:41	55.5	80.2	58.2	51.8	57.6	57.1	55.4	53.3	52.8	354,813	104,712,855	660,693	151,356	575,440	512,861	346,737	213,796	190,546
171	10/3/2018 6:52:41	55.7	80.4	59.5	53.1	57.8	57.4	55.2	54.2	53.9	371,535	109,647,820	891,251	204,174	602,560	549,541	331,131	263,027	245,471
172	10/3/2018 6:57:41	56.5	81.3	59.9	53.9	58.5	58.1	56.4	54.8	54.6	446,684	134,896,288	977,237	245,471	707,946	645,654	436,516	301,995	288,403
173	10/3/2018 7:02:41	57	81.8	60.3	54.1	58.7	58.4	56.8	55.4	55.2	501,187	151,356,125	1,071,519	257,040	741,310	691,831	478,630	346,737	331,131
174	10/3/2018 7:07:41	57.2	81.9	62	54	59.4	58.4	56.7	55.4	54.8	524,807	154,881,662	1,584,893	251,189	870,964	691,831	467,735	346,737	301,995
175	10/3/2018 7:12:41	57.6	82.3	60.2	55.3	59.1	58.8	57.4	56.3	55.9	575,440	169,824,365	1,047,129	338,844	812,831	758,578	549,541	426,580	389,045
176	10/3/2018 7:17:41	57.4	82.2	65.9	54.4	59.5	58.8	56.8	55.7	55.4	549,541	165,958,691	3,890,451	275,423	891,251	758,578	478,630	371,535	346,737
177	10/3/2018 7:22:41	56.8	81.6	60.4	54	58.3	58.1	56.6	55.4	55.2	478,630	144,543,977	1,096,478	251,189	676,083	645,654	457,088	346,737	331,131
178	10/3/2018 7:27:41	57.4	82.2	62.6	54.8	60.3	59.3	56.9	55.6	55.3	549,541	165,958,691	1,819,701	301,995	1,071,519	851,138	489,779	363,078	338,844
179	10/3/2018 7:32:41	57	81.8	61.3	54.5	58.6	58.2	56.7	55.6	55.3	501,187	151,356,125	1,348,963	281,838	724,436	660,693	467,735	363,078	338,844
180	10/3/2018 7:37:41	56.8	81.6	59.6	53.2	58.5	58.2	56.7	54.9	54.5	478,630	144,543,977	912,011	208,930	707,946	660,693	467,735	309,030	281,838
181	10/3/2018 7:42:41	56.7	81.5	60.3	53.3	58.7	58.2	56.6	55.1	54.6	467,735	141,253,754	1,071,519	213,796	741,310	660,693	457,088	323,594	288,403
182	10/3/2018 7:47:41	56.7	81.5	60.1	53.6	58.6	58.3	56.5	55.1	54.5	467,735	141,253,754	1,023,293	229,087	724,436	676,083	446,684	323,594	281,838
183	10/3/2018 7:52:41	56.5	81.2	58.7	54.4	58	57.7	56.3	55.1	54.9	446,684	131,825,674	741,310	275,423	630,957	588,844	426,580	323,594	309,030
184	10/3/2018 7:57:41	57.8	82.5	71.2	54	58.7	57.8	56.7	54.9	54.6	602,560	177,827,941	13,182,567	251,189	741,310	602,560	467,735	309,030	288,403
185	10/3/2018 8:02:41	56.7	81.4	60.6	54.6	58.1	57.8	56.4	55.3	55	467,735	138,038,426	1,148,154	288,403	645,654	602,560	436,516	338,844	316,228
186	10/3/2018 8:07:41	56.3	81.1	58.3	54.1	57.5	57.3	56.2	55.3	55	426,580	128,824,955	676,083	257,040	562,341	537,032	416,869	338,844	316,228
187	10/3/2018 8:12:41	56.3	81	58.8	53.8	58	57.3	56.2	55	54.7	426,580	125,892,541	758,578	239,883	630,957	537,032	416,869	316,228	295,121
188	10/3/2018 8:17:41	55.5	80.3	57.9	53.6	56.9	56.7	55.4	54.4	54.2	354,813	107,151,931	616,595	229,087	489,779	467,735	346,737	275,423	263,027
189	10/3/2018 8:22:41	56.8	81.5	63	52.7	59.2	57.7	56.5	55.3	54.5	478,630	141,253,754	1,995,262	186,209	831,764	588,844	446,684	338,844	281,838
190	10/3/2018 8:27:41	57.6	82.3	66.8	53.3	63.2	59.1	55.6	54.2	53.9	575,440	169,824,365	4,786,301	213,796	2,089,296	812,831	363,078	263,027	245,471
191	10/3/2018 8:32:41	56	80.8	58.6	53.6	57.8	57.1	56	54.8	54.5	398,107	120,226,443	724,436	229,087	602,560	512,861	398,107	301,995	281,838
192	10/3/2018 8:37:41	55.7	80.5	60.2	53.5	57.5	56.9	55.5	54.2	54	371,535	112,201,845	1,047,129	223,872	562,341	489,779	354,813	263,027	251,189
193	10/3/2018 8:42:41	56.6	81.4	58.9	55.1	57.7	57.5	56.5	55.6	55.4	457,088	138,038,426	776,247	323,594	588,844	562,341	446,684	363,078	346,737
194	10/3/2018 8:47:41	57.1	81.9	59.7	54.8	59	58.3	57	55.8	55.4	512,861	154,881,662	933,254	301,995	794,328	676,083	501,187	380,189	346,737
195	10/3/2018 8:52:41	57.1	81.9	64.4	53.7	59.4	58.7	56.5	55.4	54.9	512,861	154,881,662	2,754,229	234,423	870,964	741,310	446,684	346,737	309,030
196	10/3/2018 8:57:41	56.3	81.1	59	53.8	57.7	57.3	56.5	54.5	54.3	426,580	128,824,955	794,328	239,883	588,844	537,032	446,684	281,838	269,153
197	10/3/2018 9:02:41	56.6	81.4	59.9	54.5	57.9	57.4	56.5	55.5	55.3	457,088	138,038,426	977,237	281,838	616,595	549,541	446,684	354,813	338,844
198	10/3/2018 9:07:41	56.7	81.5	60.1	54.2	59	58	56.4	55.3	55	467,735	141,253,754	1,023,293	263,027	794,328	630,957	436,516	338,844	316,228
199	10/3/2018 9:12:41	58.7	83.5	70.9	53.8	64.3	59.2	56.1	54.8	54.3	741,310	223,872,114	12,302,688	239,883	2,691,535	831,764	407,380	301,995	269,153
200	10/3/2018 9:17:41	56.1	80.8	61.1	51	58.1	57.7	56	53.7	52.7	407,380	120,226,443	1,288,250	125,893	645,654	588,844	398,107	234,423	186,209
201	10/3/2018 9:22:41	56.3	81.1	63.4	52.7	58.2	57.6	56.3	54.4	53.8	426,580	128,824,955	2,187,762	186,209	660,693	575,440	426,580	275,423	239,883
202	10/3/2018 9:27:41	56.3	81.1	62.3	53.3	58.5	57.5	56	54.7	54.3	426,580	128,824,955	1,698,244	213,796	707,946	562,341	398,107	295,121	269,153
203	10/3/2018 9:32:41	55.3	80.1	58	53.3	56.5	56.3	55.2	54.1	53.8	338,844	102,329,299	630,957	213,796	446,684	426,580	331,131	257,040	239,883
204	10/3/2018 9:37:41	55.5	80.3	59.6	51.3	57.8	56.7	55.5	53.4	52.5	354,813	107,151,931	912,011	134,896	602,560	467,735	354,813	218,776	177,828
205	10/3/2018 9:42:41	55.6	80.3	59.3	52.4	57.6	56.6	55.4	53.9	53.3	363,078	107,151,931	851,138	173,780	575,440	457,088	346,737	245,471	213,796
206	10/3/2018 9:47:41	54.8	79.6	57.5	51.6	56.6	56.2	54.8	52.8	52.5	301,995	91,201,084	562,341	144,544	457,088	416,869	301,995	190,546	177,828
207	10/3/2018 9:52:41	59.2	83.9	73.7	52.6	62.8	59.9	55.6	54	53.4	831,764	245,470,892	23,442,288	181,970	1,905,461	977,237	363,078	251,189	218,776
208	10/3/2018 9:57:41	55.5	80.3	62.2	51.5	58.2	57.3	54.7	53.2	52.5	354,813	107,151,931	1,659,587	141,254	660,693	537,032	295,121	208,930	177,828
209	10/3/2018 10:02:41	54.5	79.3	58.1	51	56.3	55.9	54.4	52.4	51.9	281,838	85,113,804	645,654	125,893	426,580	389,045	275,423	173,780	154,882
210	10/3/2018 10:07:41	60.2	85	77.2	50	63.9	56.2	54	52.5	51.9	1,047,129	316,227,766	52,480,746	100,000	2,454,709	416,869	251,189	177,828	154,882
211	10/3/2018 10:12:41	54.8	79.5	59.9	50.2	57.2	56.8	54.7	51.7	51.4	301,995	89,125,094	977,237	104,713	524,807	478,630	295,121	147,911	138,038
212	10/3/2018 10:17:41	54.9	79.6	62.1	50.4	57.5	56.3	54.2	52.3	52	309,030	91,201,084	1,621,810	109,648	562,341	426,580	263,027	169,824	158,489
213	10/3/2018 10:22:41	54.7	79.4	59.1	51	56.8	56.4	54.5	52.2	51.9	295,121	87,096,359	812,831	125,893	478,630	436,516	281,838	165,959	154,882
214	10/3/2018 10:27:41	54.4	79.1	58.2	51.3	57	56	54	52.6	52.1	275,423	81,283,052	660,693	134,896	501,187	398,107	251,189	181,970	162,181
215	10/3/2018 10:32:41	55.2	79.9	63	49.2	58.4	57.3	54.2	52.2	51.5	331,131	97,723,722	1,995,262	83,176	691,831	537,032	263,027	165,959	141,254
216	10/3/2018 10:37:41	56	80.7	64.9	49.9	61.3	58.5	54.5	52.1	50.8	398,107	117,489,755	3,090,295	97,724	1,348,963	707,946	281,838	162,181	120,226
217	10/3/2018 10:42:41	54.8	79.5	62.3	49.8	57.2	56.3	54.5	52	51	301,995	89,125,094	1,698,244	95,499	524,807	426,580	281,838	158,489	125,893
218	10/3/2018 10:47:41	56.4	81.2	68.2	51	62	56.5	53.9	52.3	51.9	436,516	131,825,674	6,606,934	125,893	1,584,893	446,684	245,471	169,824	154,882
219	10/3/2018 10:52:41	54.1	78.9	58.4	50.6	56.4	55.7	53.6	52.1	51.2	257,040	77,624,712	691,831	114,815	436,516	371,535	229,087	162,181	131,826
220	10/3/2018 10:57:41	55.8	80.5	66.9	51.7	59.7	56.9	54.2	52.3	52.2	380,189	112,201,845	4,897,788	147,911	933,254	489,779	263,027	169,824	165,959

Appendix I - Measurement LT-5

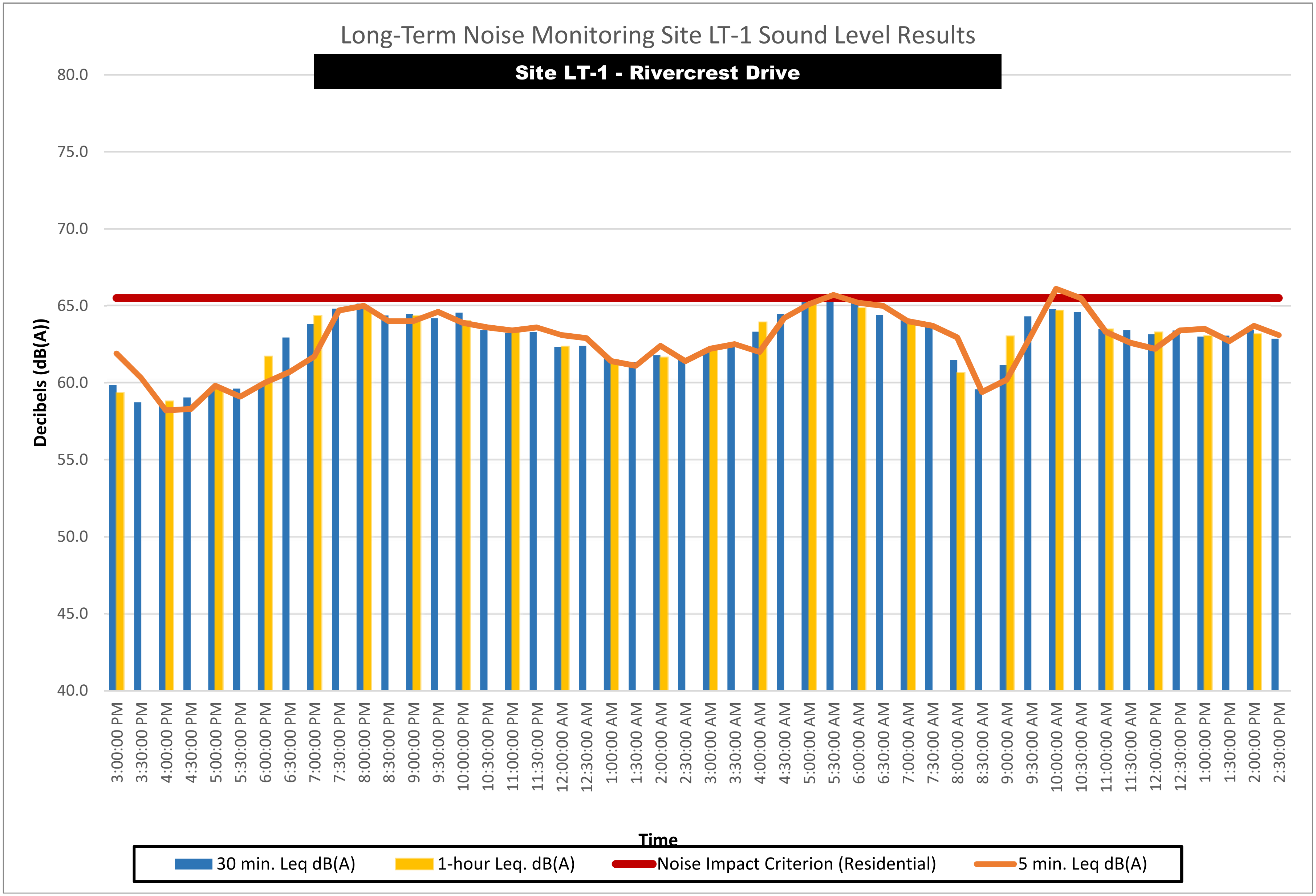
Address	Start Time	Leq (dBA)	SEL (dBA)	Lmax (dBA)	Lmin (dBA)	L5 (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	L95 (dBA)	Leq (Energy)	LE (SEL) (Energy)	Lmax (Energy)	Lmin (Energy)	L5 (Energy)	L10 (Energy)	L50 (Energy)	L90 (Energy)	L95 (Energy)
221	10/3/2018 11:02:41	54.2	79	57.8	51.7	55.8	55.5	54.1	52.4	52.1	263,027	79,432,823	602,560	147,911	380,189	354,813	257,040	173,780	162,181
222	10/3/2018 11:07:41	54.3	79	58.6	51.3	56.2	55.7	54.1	52.1	51.8	269,153	79,432,823	724,436	134,896	416,869	371,535	257,040	162,181	151,356
223	10/3/2018 11:12:41	54.4	79.1	58.2	51.4	56.1	55.7	54.2	52.4	52.1	275,423	81,283,052	660,693	138,038	407,380	371,535	263,027	173,780	162,181
224	10/3/2018 11:17:41	54.7	79.5	62	51.1	58.5	56.3	54	51.9	51.6	295,121	89,125,094	1,584,893	128,825	707,946	426,580	251,189	154,882	144,544
225	10/3/2018 11:22:41	54.3	79.1	62.3	49.4	56	55.3	53.9	52.4	51.8	269,153	81,283,052	1,698,244	87,096	398,107	338,844	245,471	173,780	151,356
226	10/3/2018 11:27:41	53.7	78.5	57.5	49.8	56.7	55.9	53.3	51.1	50.6	234,423	70,794,578	562,341	95,499	467,735	389,045	213,796	128,825	114,815
227	10/3/2018 11:32:41	55.5	80.3	64.9	50.4	61.3	57.8	53.8	51.9	51.7	354,813	107,151,931	3,090,295	109,648	1,348,963	602,560	239,883	154,882	147,911
228	10/3/2018 11:37:41	53.7	78.5	57.1	51.2	55.5	54.8	53.4	52.3	52	234,423	70,794,578	512,861	131,826	354,813	301,995	218,776	169,824	158,489
229	10/3/2018 11:42:41	54.5	79.3	59.8	50.8	57.1	56.1	54.1	52.2	51.7	281,838	85,113,804	954,993	120,226	512,861	407,380	257,040	165,959	147,911
230	10/3/2018 11:47:41	54	78.8	56.8	50.9	55.9	55.4	53.8	52.4	52	251,189	75,857,758	478,630	123,027	389,045	346,737	239,883	173,780	158,489
231	10/3/2018 11:52:41	54	78.8	58.3	51	55.8	55.5	53.8	52	51.7	251,189	75,857,758	676,083	125,893	380,189	354,813	239,883	158,489	147,911
232	10/3/2018 11:57:41	53.8	78.6	58	50.2	56.3	55.6	53.4	51.8	51.3	239,883	72,443,596	630,957	104,713	426,580	363,078	218,776	151,356	134,896
233	10/3/2018 12:02:41	54.3	79.1	57.3	51.2	55.9	55.4	54.3	52.7	52.4	269,153	81,283,052	537,032	131,826	389,045	346,737	269,153	186,209	173,780
234	10/3/2018 12:07:41	53.7	78.4	57.8	49.8	56.2	55.6	53.2	51.5	51.1	234,423	69,183,097	602,560	95,499	416,869	363,078	208,930	141,254	128,825
235	10/3/2018 12:12:41	54	78.8	57.3	50.4	56.1	55.6	53.8	51.8	51.1	251,189	75,857,758	537,032	109,648	407,380	363,078	239,883	151,356	128,825
236	10/3/2018 12:17:41	53.6	78.4	57.2	48.9	56.3	55.2	53.4	51.6	50.4	229,087	69,183,097	524,807	77,625	426,580	331,131	218,776	144,544	109,648
237	10/3/2018 12:22:41	53.8	78.5	58.9	50.1	55.3	55	53.7	52	51.5	239,883	70,794,578	776,247	102,329	338,844	316,228	234,423	158,489	141,254
238	10/3/2018 12:27:41	53.8	78.5	59.7	50.4	56.3	55.5	53.5	51.7	51.2	239,883	70,794,578	933,254	109,648	426,580	354,813	223,872	147,911	131,826
239	10/3/2018 12:32:41	53.9	78.7	60.1	50.5	56.2	55	53.7	52.1	51.5	245,471	74,131,024	1,023,293	112,202	416,869	316,228	234,423	162,181	141,254
240	10/3/2018 12:37:41	54.6	79.3	63.2	49.6	57.8	56.2	53.6	52	51.6	288,403	85,113,804	2,089,296	91,201	602,560	416,869	229,087	158,489	144,544
241	10/3/2018 12:42:41	53.8	78.6	63.5	49.4	55.5	55	53.5	51	50.6	239,883	72,443,596	2,238,721	87,096	354,813	316,228	223,872	125,893	114,815
242	10/3/2018 12:47:41	53.5	78.2	61.8	50	55.3	54.8	53.1	51	50.5	223,872	66,069,345	1,513,561	100,000	338,844	301,995	204,174	125,893	112,202
243	10/3/2018 12:52:41	53.8	78.6	58.4	50.7	55.6	55.2	53.6	51.8	51.3	239,883	72,443,596	691,831	117,490	363,078	331,131	229,087	151,356	134,896
244	10/3/2018 12:57:41	54.2	79	60.1	51.3	56.5	55.8	53.7	52.3	51.9	263,027	79,432,823	1,023,293	134,896	446,684	380,189	234,423	169,824	154,882
245	10/3/2018 13:02:41	53.4	78.1	57.6	50.7	55.1	54.6	53.1	51.9	51.5	218,776	64,565,423	575,440	117,490	323,594	288,403	204,174	154,882	141,254
246	10/3/2018 13:07:41	53.7	78.5	59.3	50.1	55.4	54.9	53.7	51.9	51.5	234,423	70,794,578	851,138	102,329	346,737	309,030	234,423	154,882	141,254
247	10/3/2018 13:12:41	54	78.7	61.3	49.3	55.9	55.3	53.7	51.3	51	251,189	74,131,024	1,348,963	85,114	389,045	338,844	234,423	134,896	125,893
248	10/3/2018 13:17:41	53.7	78.5	57.3	50	55.7	55.2	53.6	51.2	50.9	234,423	70,794,578	537,032	100,000	371,535	331,131	229,087	131,826	123,027
249	10/3/2018 13:22:41	56.5	81.3	67.9	51.3	61.8	59.2	54.3	52.4	51.8	446,684	134,896,288	6,165,950	134,896	1,513,561	831,764	269,153	173,780	151,356
250	10/3/2018 13:27:41	53.1	77.9	56	50	54.8	54.5	53.1	51	50.8	204,174	61,659,500	398,107	100,000	301,995	281,838	204,174	125,893	120,226
251	10/3/2018 13:32:41	53.1	77.9	55	51.3	54.5	54.3	53.1	51.9	51.7	204,174	61,659,500	316,228	134,896	281,838	269,153	204,174	154,882	147,911
252	10/3/2018 13:37:41	55.1	79.9	67.2	46.9	58.7	56.2	53.2	51.2	50.3	323,594	97,723,722	5,248,075	48,978	741,310	416,869	208,930	131,826	107,152
253	10/3/2018 13:42:41	55.2	79.9	67.4	50.4	58.2	56.6	53.4	51.8	51.3	331,131	97,723,722	5,495,409	109,648	660,693	457,088	218,776	151,356	134,896
254	10/3/2018 13:47:41	54.7	79.4	63.5	49.4	59.5	56.9	53.6	51.7	51.3	295,121	87,096,359	2,238,721	87,096	891,251	489,779	229,087	147,911	134,896
255	10/3/2018 13:52:41	52.7	77.5	55.7	49.5	54.5	53.9	52.7	51.1	50.7	186,209	56,234,133	371,535	89,125	281,838	245,471	186,209	128,825	117,490
256	10/3/2018 13:57:41	53.5	78.2	58.6	50.3	55.3	54.9	53.1	51.6	51.2	223,872	66,069,345	724,436	107,152	338,844	309,030	204,174	144,544	131,826
257	10/3/2018 14:02:41	54	78.8	62.6	49.8	56	55.3	53.5	51.6	51.1	251,189	75,857,758	1,819,701	95,499	398,107	338,844	223,872	144,544	128,825
258	10/3/2018 14:07:41	54.4	79.2	63.3	49.8	56.7	56.1	53.8	51.6	51	275,423	83,176,377	2,137,962	95,499	467,735	407,380	239,883	144,544	125,893
259	10/3/2018 14:12:41	53.8	78.5	59.4	49.9	56.4	55.1	53.6	51.7	50.9	239,883	70,794,578	870,964	97,724	436,516	323,594	229,087	147,911	123,027
260	10/3/2018 14:17:41	53.9	78.7	60.4	50.8	57.4	56.5	53.2	51.6	51.3	245,471	74,131,024	1,096,478	120,226	549,541	446,684	208,930	144,544	134,896
261	10/3/2018 14:22:41	53	77.8	59.6	49.3	55.3	54.6	52.7	50.5	50	199,526	60,255,959	912,011	85,114	338,844	288,403	186,209	112,202	100,000
262	10/3/2018 14:27:41	53.1	77.9	56.4	49.9	54.9	54.4	53	51.4	50.9	204,174	61,659,500	436,516	97,724	309,030	275,423	199,526	138,038	123,027
263	10/3/2018 14:32:41	54.1	78.9	60.6	50.9	57.4	55.5	53.5	52.1	51.7	257,040	77,624,712	1,148,154	123,027	549,541	354,813	223,872	162,181	147,911
264	10/3/2018 14:37:41	53.7	78.5	57.4	50	55.5	54.9	53.5	52.2	51.8	234,423	70,794,578	549,541	100,000	354,813	309,030	223,872	165,959	151,356
265	10/3/2018 14:42:41	53.7	78.5	58.5	50	56.2	55.8	53.2	51.2	50.6	234,423	70,794,578	707,946	100,000	416,869	380,189	208,930	131,826	114,815
266	10/3/2018 14:47:41	53.9	78.7	56.5	50.9	55.9	55.3	53.8	52	51.7	245,471	74,131,024	446,684	123,027	389,045	338,844	239,883	158,489	147,911
267	10/3/2018 14:52:41	53.8	78.6	57.2	49.7	55.8	55.3	53.7	51.6	51	239,883	72,443,596	524,807	93,325	380,189	338,844	234,423	144,544	125,893
268	10/3/2018 14:57:41	54.4	79.2	58.8	51.7	56.2	55.8	54.1	52.7	52.4	275,423	83,176,377	758,578	147,911	416,869	380,189	257,040	186,209	173,780
269	10/3/2018 15:02:41	54.1	78.9	56.7	51.2	55.9	55.6	54	52.2	51.9	257,040	77,624,712	467,735	131,826	389,045	363,078	251,189	165,959	154,882
270	10/3/2018 15:07:41	53.9	78.7	64	49	55.8	54.9	53.3	50.7	50	245,471	74,131,024	2,511,886	79,433	380,189	309,030	213,796	117,490	100,000
271	10/3/2018 15:12:41	54.2	79	61.3	50.9	57	55.6	53.6	52.1	51.7	263,027	79,432,823	1,348,963	123,027	501,187	363,078	229,087	162,181	147,911
272	10/3/2018 15:17:41	53.8	78.5	59.8	50.1	55.7	55.2	53.5	51.9	51.2	239,883	70,794,578	954,993	102,329	371,535	331,131	223,872	154,882	131,826
273	10/3/2018 15:22:41	55.2	80	65.3	50.9	58	56.8	54.5	52.7	51.9	331,131	100,000,000	3,388,442	123,027	630,957	478,630	281,838	186,209	154,882
274	10/3/2018 15:27:41	54.3	79.1	62.2	50.5	56.3	55.6	54	52	51.5	269,153	81,283,052	1,659,587	112,202	426,580	363,078	251,189	158,489	141,254
275	10/3/2018 15:32:41	54.7	79.5	60.7	50.8	57.2	56.3	54.2	52.5	52.2	295,121	89,125,094	1,174,898	120,226	524,807	426,580	263,027	177,828	165,959
276	10/3/2018 15:37:41	54.1	78.9	58.1	50.2	55.7	55.3	54.2	52.3	51.8	257,040	77,624,712	645,654	104,713	371,535	338,844	263,027	169,824	151,356
277	10/3/2018 15:42:41	54.9	79.7	62.2	51	57.4	56.4	54.3	52.5	51.9	309,030	93,325,430	1,659,587	125,893	549,541	436,516	269,153	177,828	154,882
278	10/3/2018 15:47:41	53.3	78.1	57.3	50.2	55.4	54.8	53.2	51.3	50.9	213,796	64,565,423	537,032	104,713	346,737	301,995	208,930	134,896	123,027
279	10/3/2018 15:52:41	54.4	79.1	62.2	49	56.1	55.8	54.2	51.3	49.9	275,423	81,283,052	1,659,587	79,433	407,380	380,189	263,027	134,896	97,724
280	10/3/2018 15:57:41	54.7	79.4	65.4	50	56.6	55.7	54	52.2	51.4	295,121	87,096,359	3,467,369	100,000	457,088	371,535	251,189	165,959	138,038
281	10/3/2018 16:02:41	55.7	80.4	65.6	52	59.8	58.1	54.4	52.8	52.6	371,535	109,647,820	3,630,781	158,489	954,993	645,654	275,423	190,546	181,970

Appendix I - Measurement LT-5

Address	Start Time	Leq (dBA)	SEL (dBA)	Lmax (dBA)	Lmin (dBA)	L5 (dBA)	L10 (dBA)	L50 (dBA)	L90 (dBA)	L95 (dBA)	Leq (Energy)	LE (SEL) (Energy)	Lmax (Energy)	Lmin (Energy)	L5 (Energy)	L10 (Energy)	L50 (Energy)	L90 (Energy)	L95 (Energy)
282	10/3/2018 16:07:41	53.9	78.7	56.2	50.8	55.6	55.3	53.7	52.4	51.8	245,471	74,131,024	416,869	120,226	363,078	338,844	234,423	173,780	151,356
283	10/3/2018 16:12:41	54.6	79.4	65.1	49.6	56.4	55.6	54	52.2	51.2	288,403	87,096,359	3,235,937	91,201	436,516	363,078	251,189	165,959	131,826
284	10/3/2018 16:17:41	54.8	79.6	64.3	51	56.1	55.6	54.4	53	52.5	301,995	91,201,084	2,691,535	125,893	407,380	363,078	275,423	199,526	177,828
285	10/3/2018 16:22:41	59.6	84.3	76.1	49.4	63.7	57.6	54.8	52.6	51.2	912,011	269,153,480	40,738,028	87,096	2,344,229	575,440	301,995	181,970	131,826
286	10/3/2018 16:27:41	54.1	78.8	59.6	50.1	56.2	55.7	53.7	51.6	51.1	257,040	75,857,758	912,011	102,329	416,869	371,535	234,423	144,544	128,825
287	10/3/2018 16:32:41	54.6	79.3	63	51.3	56.6	56.2	53.9	52.4	52	288,403	85,113,804	1,995,262	134,896	457,088	416,869	245,471	173,780	158,489
288	10/3/2018 16:37:41	54.3	79	57.2	48.7	56.4	55.7	54.3	51.4	50.3	269,153	79,432,823	524,807	74,131	436,516	371,535	269,153	138,038	107,152
		Leq (RAW)	**SEL (RAW)**	**Lmax (RAW)**	**Lmin (RAW)**	**L5 (RAW)**	**L10 (RAW)**	**L50 (RAW)**	**L90 (RAW)**	**L95 (RAW)**	**Leq (ADJ)**	**SEL (ADJ)**	**Lmax (ADJ)**	**Lmin (ADJ)**	**L5 (ADJ)**	**L10 (ADJ)**	**L50 (ADJ)**	**L90 (ADJ)**	**L95 (ADJ)**
		55.2	**80.0**	**77.2**	**46.9**	**57.6**	**56.3**	**54.6**	**53.3**	**53.0**	**55.2**	**80.0**	**77.2**	**46.9**	**57.6**	**56.3**	**54.6**	**53.3**	**53.0**

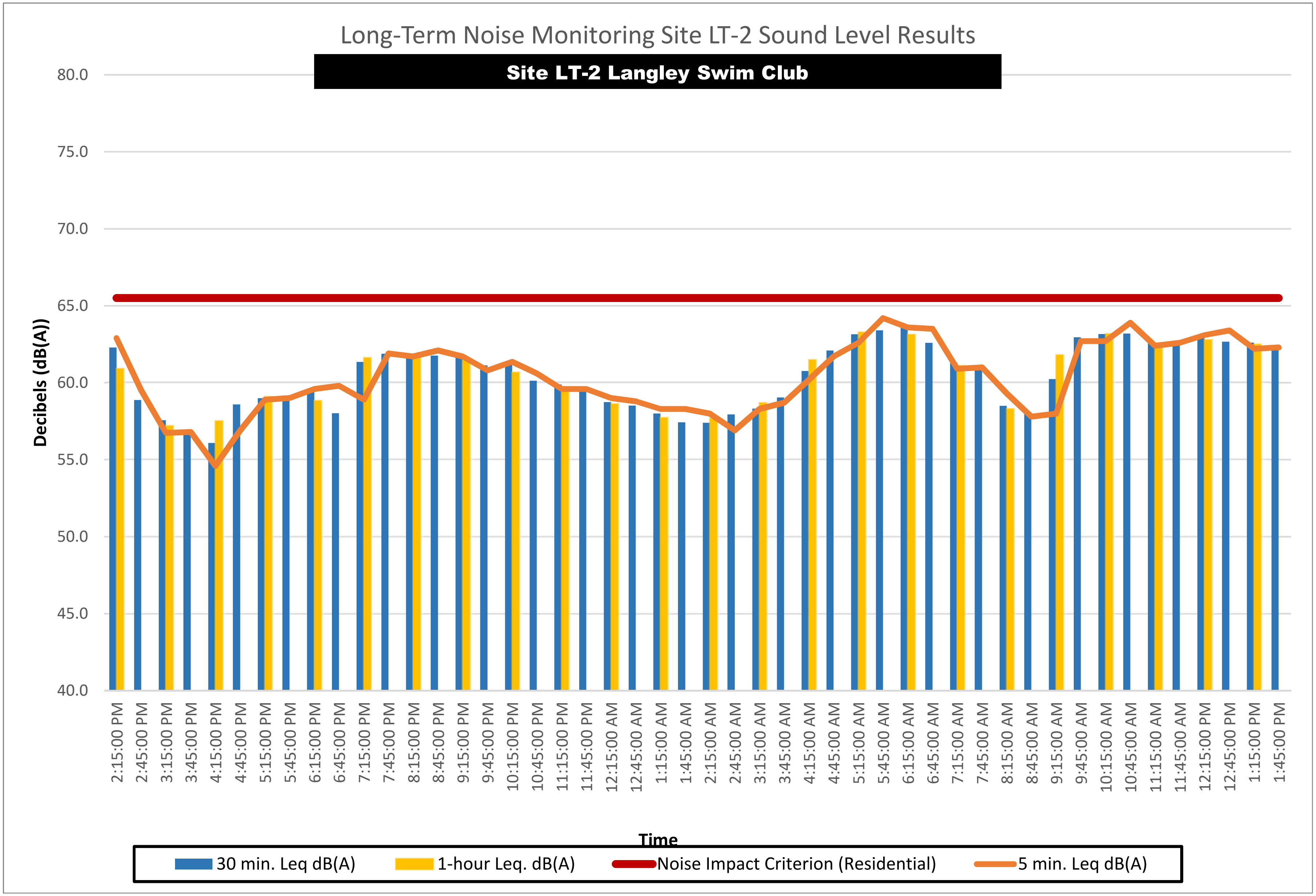
Appendix J: Long-Term Loudest Hour Tables

Site LT-1 - Rivercrest Drive		
Time	**30-min Leq dB(A)**	**1-hour Leq dB(A)**
3:00:00 PM	59.8	59.3
3:30:00 PM	58.7	
4:00:00 PM	58.5	58.8
4:30:00 PM	59.0	
5:00:00 PM	59.6	59.6
5:30:00 PM	59.6	
6:00:00 PM	60.0	61.7
6:30:00 PM	62.9	
7:00:00 PM	63.8	64.3
7:30:00 PM	64.8	
8:00:00 PM	65.1	64.8
8:30:00 PM	64.4	
9:00:00 PM	64.5	64.3
9:30:00 PM	64.2	
10:00:00 PM	64.5	64.0
10:30:00 PM	63.4	
11:00:00 PM	63.2	63.3
11:30:00 PM	63.3	
12:00:00 AM	62.3	62.3
12:30:00 AM	62.4	
1:00:00 AM	61.6	61.5
1:30:00 AM	61.3	
2:00:00 AM	61.8	61.6
2:30:00 AM	61.5	
3:00:00 AM	62.1	62.3
3:30:00 AM	62.5	
4:00:00 AM	63.3	63.9
4:30:00 AM	64.4	
5:00:00 AM	65.3	65.5
5:30:00 AM	65.6	
6:00:00 AM	65.2	64.8
6:30:00 AM	64.4	
7:00:00 AM	64.1	64.0
7:30:00 AM	63.8	
8:00:00 AM	61.5	60.6
8:30:00 AM	59.6	
9:00:00 AM	61.1	63.0
9:30:00 AM	64.3	
10:00:00 AM	64.8	64.7
10:30:00 AM	64.6	
11:00:00 AM	63.5	63.5
11:30:00 AM	63.4	
12:00:00 PM	63.1	63.3
12:30:00 PM	63.4	
1:00:00 PM	63.0	63.0
1:30:00 PM	63.1	
2:00:00 PM	63.4	63.1
2:30:00 PM	62.9	



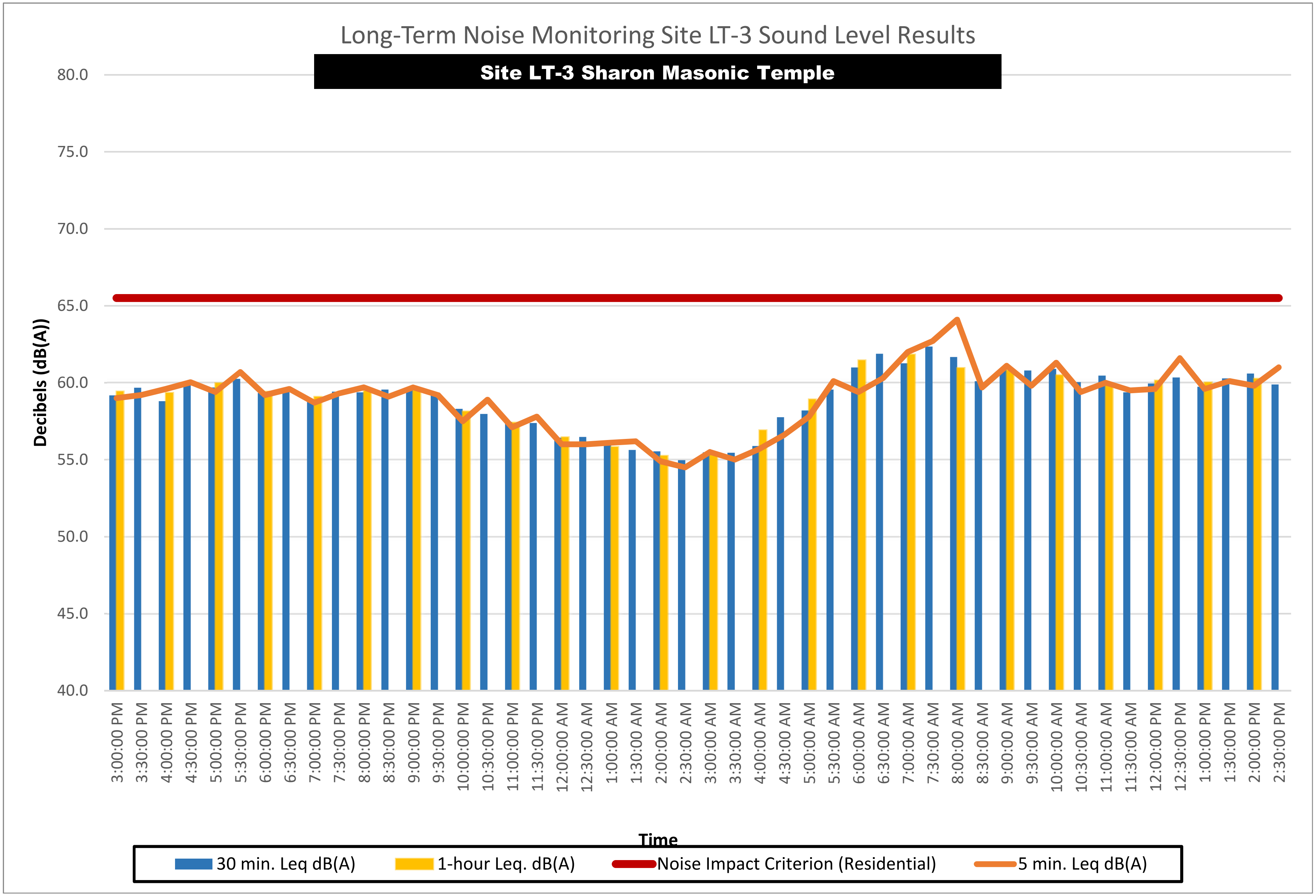
Long-Term Noise Monitoring Site LT-1 Sound Level Results
Site LT-1 - Rivercrest Drive
Decibels (dB(A))
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
3:00:00 PM
3:30:00 PM
4:00:00 PM
4:30:00 PM
5:00:00 PM
5:30:00 PM
6:00:00 PM
6:30:00 PM
7:00:00 PM
7:30:00 PM
8:00:00 PM
8:30:00 PM
9:00:00 PM
9:30:00 PM
10:00:00 PM
10:30:00 PM
11:00:00 PM
11:30:00 PM
12:00:00 AM
12:30:00 AM
1:00:00 AM
1:30:00 AM
2:00:00 AM
2:30:00 AM
3:00:00 AM
3:30:00 AM
4:00:00 AM
4:30:00 AM
5:00:00 AM
5:30:00 AM
6:00:00 AM
6:30:00 AM
7:00:00 AM
7:30:00 AM
8:00:00 AM
8:30:00 AM
9:00:00 AM
9:30:00 AM
10:00:00 AM
10:30:00 AM
11:00:00 AM
11:30:00 AM
12:00:00 PM
12:30:00 PM
1:00:00 PM
1:30:00 PM
2:00:00 PM
2:30:00 PM
Time
30 min. Leq dB(A)
1-hour Leq. dB(A)
Noise Impact Criterion (Residential)
5 min. Leq dB(A)

Site LT-2 Langley Swim Club		
Time	**30-min Leq dB(A)**	**1-hour Leq dB(A)**
2:15:00 PM	62.3	60.9
2:45:00 PM	58.9	
3:15:00 PM	57.6	57.2
3:45:00 PM	56.8	
4:15:00 PM	56.1	57.5
4:45:00 PM	58.6	
5:15:00 PM	59.0	59.1
5:45:00 PM	59.2	
6:15:00 PM	59.5	58.8
6:45:00 PM	58.0	
7:15:00 PM	61.3	61.6
7:45:00 PM	61.9	
8:15:00 PM	61.8	61.8
8:45:00 PM	61.8	
9:15:00 PM	61.8	61.5
9:45:00 PM	61.1	
10:15:00 PM	61.1	60.7
10:45:00 PM	60.1	
11:15:00 PM	59.9	59.7
11:45:00 PM	59.5	
12:15:00 AM	58.7	58.6
12:45:00 AM	58.5	
1:15:00 AM	58.0	57.7
1:45:00 AM	57.4	
2:15:00 AM	57.4	57.7
2:45:00 AM	57.9	
3:15:00 AM	58.3	58.7
3:45:00 AM	59.0	
4:15:00 AM	60.8	61.5
4:45:00 AM	62.1	
5:15:00 AM	63.1	63.3
5:45:00 AM	63.4	
6:15:00 AM	63.6	63.1
6:45:00 AM	62.6	
7:15:00 AM	61.3	61.1
7:45:00 AM	60.9	
8:15:00 AM	58.5	58.3
8:45:00 AM	58.1	
9:15:00 AM	60.2	61.8
9:45:00 AM	62.9	
10:15:00 AM	63.2	63.2
10:45:00 AM	63.2	
11:15:00 AM	62.5	62.6
11:45:00 AM	62.6	
12:15:00 PM	62.9	62.8
12:45:00 PM	62.7	
1:15:00 PM	62.6	62.5
1:45:00 PM	62.4	

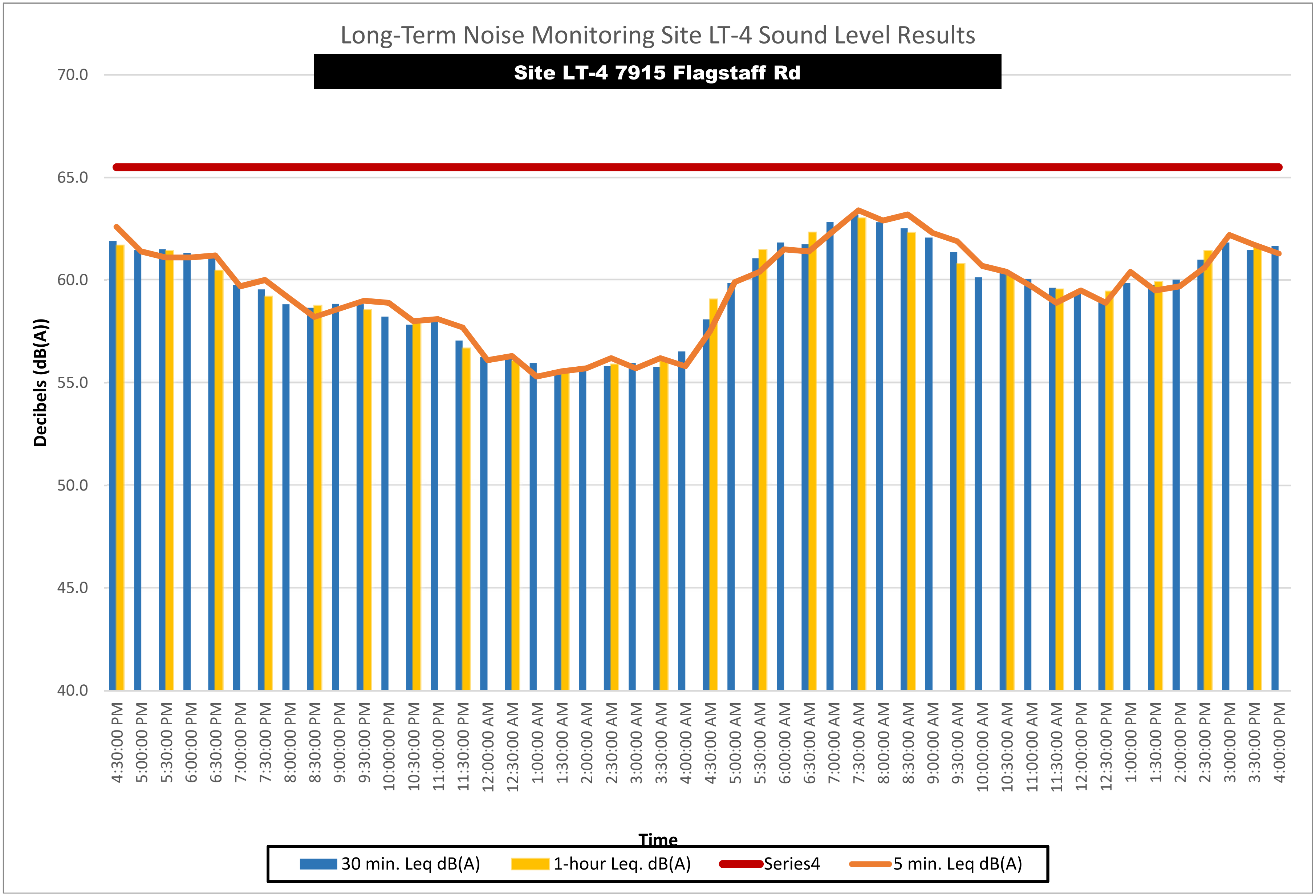


Long-Term Noise Monitoring Site LT-2 Sound Level Results
Site LT-2 Langley Swim Club
Decibels (dB(A))
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
2:15:00 PM
2:45:00 PM
3:15:00 PM
3:45:00 PM
4:15:00 PM
4:45:00 PM
5:15:00 PM
5:45:00 PM
6:15:00 PM
6:45:00 PM
7:15:00 PM
7:45:00 PM
8:15:00 PM
8:45:00 PM
9:15:00 PM
9:45:00 PM
10:15:00 PM
10:45:00 PM
11:15:00 PM
11:45:00 PM
12:15:00 AM
12:45:00 AM
1:15:00 AM
1:45:00 AM
2:15:00 AM
2:45:00 AM
3:15:00 AM
3:45:00 AM
4:15:00 AM
4:45:00 AM
5:15:00 AM
5:45:00 AM
6:15:00 AM
6:45:00 AM
7:15:00 AM
7:45:00 AM
8:15:00 AM
8:45:00 AM
9:15:00 AM
9:45:00 AM
10:15:00 AM
10:45:00 AM
11:15:00 AM
11:45:00 AM
12:15:00 PM
12:45:00 PM
1:15:00 PM
1:45:00 PM
Time
30 min. Leq dB(A)
1-hour Leq. dB(A)
Noise Impact Criterion (Residential)
5 min. Leq dB(A)

Site LT-3 Sharon Masonic Temple		
Time	30-min Leq dB(A)	1-hour Leq dB(A)
3:00:00 PM	59.2	59.4
3:30:00 PM	59.7	
4:00:00 PM	58.8	59.3
4:30:00 PM	59.8	
5:00:00 PM	59.7	60.0
5:30:00 PM	60.2	
6:00:00 PM	59.3	59.4
6:30:00 PM	59.5	
7:00:00 PM	58.7	59.1
7:30:00 PM	59.4	
8:00:00 PM	59.4	59.5
8:30:00 PM	59.6	
9:00:00 PM	59.7	59.5
9:30:00 PM	59.3	
10:00:00 PM	58.3	58.1
10:30:00 PM	58.0	
11:00:00 PM	57.4	57.4
11:30:00 PM	57.4	
12:00:00 AM	56.4	56.4
12:30:00 AM	56.5	
1:00:00 AM	56.0	55.8
1:30:00 AM	55.6	
2:00:00 AM	55.5	55.3
2:30:00 AM	55.0	
3:00:00 AM	55.5	55.5
3:30:00 AM	55.4	
4:00:00 AM	55.9	56.9
4:30:00 AM	57.7	
5:00:00 AM	58.2	58.9
5:30:00 AM	59.5	
6:00:00 AM	61.0	61.4
6:30:00 AM	61.9	
7:00:00 AM	61.2	61.8
7:30:00 AM	62.3	
8:00:00 AM	61.7	60.9
8:30:00 AM	60.1	
9:00:00 AM	60.8	60.8
9:30:00 AM	60.8	
10:00:00 AM	60.9	60.5
10:30:00 AM	60.0	
11:00:00 AM	60.5	59.9
11:30:00 AM	59.4	
12:00:00 PM	59.9	60.1
12:30:00 PM	60.3	
1:00:00 PM	59.7	60.0
1:30:00 PM	60.3	
2:00:00 PM	60.6	60.3
2:30:00 PM	59.9	

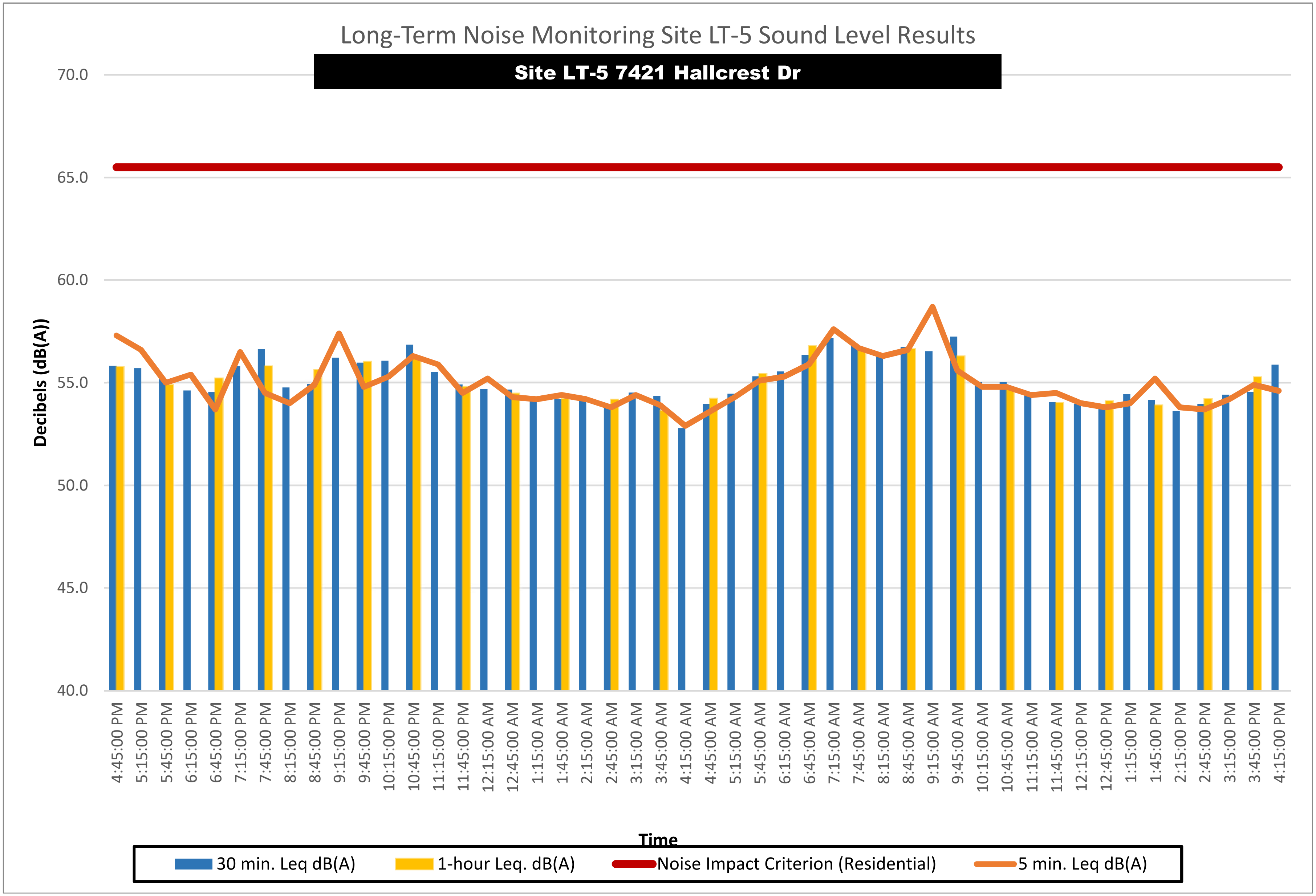

Long-Term Noise Monitoring Site LT-3 Sound Level Results
Site LT-3 Sharon Masonic Temple
Decibels (dB(A))
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
3:00:00 PM
3:30:00 PM
4:00:00 PM
4:30:00 PM
5:00:00 PM
5:30:00 PM
6:00:00 PM
6:30:00 PM
7:00:00 PM
7:30:00 PM
8:00:00 PM
8:30:00 PM
9:00:00 PM
9:30:00 PM
10:00:00 PM
10:30:00 PM
11:00:00 PM
11:30:00 PM
12:00:00 AM
12:30:00 AM
1:00:00 AM
1:30:00 AM
2:00:00 AM
2:30:00 AM
3:00:00 AM
3:30:00 AM
4:00:00 AM
4:30:00 AM
5:00:00 AM
5:30:00 AM
6:00:00 AM
6:30:00 AM
7:00:00 AM
7:30:00 AM
8:00:00 AM
8:30:00 AM
9:00:00 AM
9:30:00 AM
10:00:00 AM
10:30:00 AM
11:00:00 AM
11:30:00 AM
12:00:00 PM
12:30:00 PM
1:00:00 PM
1:30:00 PM
2:00:00 PM
2:30:00 PM
Time
30 min. Leq dB(A)
1-hour Leq. dB(A)
Noise Impact Criterion (Residential)
5 min. Leq dB(A)

Site LT-4 7915 Flagstaff Rd		
Time	30-min Leq dB(A)	1-hour Leq dB(A)
4:30:00 PM	61.9	61.7
5:00:00 PM	61.5	
5:30:00 PM	61.5	61.4
6:00:00 PM	61.3	
6:30:00 PM	61.1	60.5
7:00:00 PM	59.8	
7:30:00 PM	59.5	59.2
8:00:00 PM	58.8	
8:30:00 PM	58.6	58.7
9:00:00 PM	58.8	
9:30:00 PM	58.8	58.5
10:00:00 PM	58.2	
10:30:00 PM	57.8	58.0
11:00:00 PM	58.1	
11:30:00 PM	57.1	56.7
12:00:00 AM	56.3	
12:30:00 AM	56.1	56.0
1:00:00 AM	56.0	
1:30:00 AM	55.4	55.6
2:00:00 AM	55.7	
2:30:00 AM	55.8	55.9
3:00:00 AM	56.0	
3:30:00 AM	55.8	56.2
4:00:00 AM	56.5	
4:30:00 AM	58.1	59.1
5:00:00 AM	59.9	
5:30:00 AM	61.1	61.5
6:00:00 AM	61.8	
6:30:00 AM	61.7	62.3
7:00:00 AM	62.8	
7:30:00 AM	63.2	63.0
8:00:00 AM	62.8	
8:30:00 AM	62.5	62.3
9:00:00 AM	62.1	
9:30:00 AM	61.3	60.8
10:00:00 AM	60.1	
10:30:00 AM	60.5	60.3
11:00:00 AM	60.0	
11:30:00 AM	59.6	59.5
12:00:00 PM	59.5	
12:30:00 PM	59.0	59.4
1:00:00 PM	59.9	
1:30:00 PM	59.8	59.9
2:00:00 PM	60.0	
2:30:00 PM	61.0	61.4
3:00:00 PM	61.8	
3:30:00 PM	61.4	61.6
4:00:00 PM	61.7	



Long-Term Noise Monitoring Site LT-4 Sound Level Results
Site LT-4 7915 Flagstaff Rd
Decibels (dB(A))
70.0
65.0
60.0
55.0
50.0
45.0
40.0
4:30:00 PM
5:00:00 PM
5:30:00 PM
6:00:00 PM
6:30:00 PM
7:00:00 PM
7:30:00 PM
8:00:00 PM
8:30:00 PM
9:00:00 PM
9:30:00 PM
10:00:00 PM
10:30:00 PM
11:00:00 PM
11:30:00 PM
12:00:00 AM
12:30:00 AM
1:00:00 AM
1:30:00 AM
2:00:00 AM
2:30:00 AM
3:00:00 AM
3:30:00 AM
4:00:00 AM
4:30:00 AM
5:00:00 AM
5:30:00 AM
6:00:00 AM
6:30:00 AM
7:00:00 AM
7:30:00 AM
8:00:00 AM
8:30:00 AM
9:00:00 AM
9:30:00 AM
10:00:00 AM
10:30:00 AM
11:00:00 AM
11:30:00 AM
12:00:00 PM
12:30:00 PM
1:00:00 PM
1:30:00 PM
2:00:00 PM
2:30:00 PM
3:00:00 PM
3:30:00 PM
4:00:00 PM
Time
30 min. Leq dB(A)
1-hour Leq. dB(A)
Series4
5 min. Leq dB(A)

Site LT-5 7421 Hallcrest Dr		
Time	30-min Leq dB(A)	1-hour Leq dB(A)
4:45:00 PM	55.8	55.8
5:15:00 PM	55.7	
5:45:00 PM	55.2	54.9
6:15:00 PM	54.6	
6:45:00 PM	54.5	55.2
7:15:00 PM	55.8	
7:45:00 PM	56.6	55.8
8:15:00 PM	54.8	
8:45:00 PM	54.9	55.6
9:15:00 PM	56.2	
9:45:00 PM	56.0	56.0
10:15:00 PM	56.1	
10:45:00 PM	56.8	56.2
11:15:00 PM	55.5	
11:45:00 PM	54.9	54.8
12:15:00 AM	54.7	
12:45:00 AM	54.7	54.5
1:15:00 AM	54.3	
1:45:00 AM	54.2	54.2
2:15:00 AM	54.2	
2:45:00 AM	53.8	54.2
3:15:00 AM	54.5	
3:45:00 AM	54.3	53.6
4:15:00 AM	52.8	
4:45:00 AM	54.0	54.2
5:15:00 AM	54.5	
5:45:00 AM	55.3	55.4
6:15:00 AM	55.5	
6:45:00 AM	56.3	56.8
7:15:00 AM	57.2	
7:45:00 AM	56.8	56.6
8:15:00 AM	56.4	
8:45:00 AM	56.7	56.6
9:15:00 AM	56.5	
9:45:00 AM	57.2	56.3
10:15:00 AM	55.0	
10:45:00 AM	55.0	54.7
11:15:00 AM	54.4	
11:45:00 AM	54.1	54.0
12:15:00 PM	54.0	
12:45:00 PM	53.7	54.1
1:15:00 PM	54.4	
1:45:00 PM	54.2	53.9
2:15:00 PM	53.6	
2:45:00 PM	54.0	54.2
3:15:00 PM	54.4	
3:45:00 PM	54.5	55.3
4:15:00 PM	55.9	


Long-Term Noise Monitoring Site LT-5 Sound Level Results
Site LT-5 7421 Hallcrest Dr
Decibels (dB(A))
70.0
65.0
60.0
55.0
50.0
45.0
40.0
4:45:00 PM
5:15:00 PM
5:45:00 PM
6:15:00 PM
6:45:00 PM
7:15:00 PM
7:45:00 PM
8:15:00 PM
8:45:00 PM
9:15:00 PM
9:45:00 PM
10:15:00 PM
10:45:00 PM
11:15:00 PM
11:45:00 PM
12:15:00 AM
12:45:00 AM
1:15:00 AM
1:45:00 AM
2:15:00 AM
2:45:00 AM
3:15:00 AM
3:45:00 AM
4:15:00 AM
4:45:00 AM
5:15:00 AM
5:45:00 AM
6:15:00 AM
6:45:00 AM
7:15:00 AM
7:45:00 AM
8:15:00 AM
8:45:00 AM
9:15:00 AM
9:45:00 AM
10:15:00 AM
10:45:00 AM
11:15:00 AM
11:45:00 AM
12:15:00 PM
12:45:00 PM
1:15:00 PM
1:45:00 PM
2:15:00 PM
2:45:00 PM
3:15:00 PM
3:45:00 PM
4:15:00 PM
Time
30 min. Leq dB(A)
1-hour Leq. dB(A)
Noise Impact Criterion (Residential)
5 min. Leq dB(A)

Appendix K: TNM Traffic Inputs

ENTRADA LINK	EXISTING (12:00)			EXISTING (12:00)		
	EB or NB Hourly Interrupted Speed (mph)	WB or SB Hourly Interrupted Speed (mph)	FFS Speed (two way) (mph)	EB or NB		
				Autos	Med	Heavy
I-495 FGN495GWP01	63.7	55.0	61.6	4795	340	285
I-495 FGN495GWP02	62.3	55.0	61.6	5955	375	285
I-495 FGN49519301	63.3	55.0	61.6	4625	305	275
I-495 FGN49519302	63.6	55.0	61.6	5230	345	285
I-495 FGN49526701	62.5	55.0	61.6	3365	255	245
I-495 FGN49526702	64.1	55.0	61.6	2600	235	220
I-495 FGN49526703	64.1	55.0	61.6	3985	300	270
I-495 FGN49526704	64.1	55.0	61.6	4365	305	270
I-495 FGN49526705	63.3	55.0	61.6	4845	340	280
I-495 FGS495CBP01	59.7	55.0	61.6	6550	245	245
I-495 FGS495GWP01	63.4	55.0	61.6	5065	190	245
I-495 FGS49519301	64.4	55.0	61.6	5390	190	245
I-495 FGS49519302	61.1	55.0	61.6	5710	200	260
I-495 FGS49526701	59.8	55.0	61.6	5310	185	250
I-495 FGS49526702	59.8	55.0	61.6	4000	140	205
I-495 FGS49526703	59.8	55.0	61.6	3685	135	205
I-495 FGS49526704	59.8	55.0	61.6	4515	175	230
I-495 Express FHN49526701	69.8	65.0	71.4	645	45	10
I-495 Express FHN49526702	69.8	65.0	71.4	615	45	10
I-495 Express FHN49526703	69.8	65.0	71.4	405	35	10
I-495 Express FHN49526704	69.6	65.0	71.4	480	35	10
I-495 Express FHN49526705	69.6	65.0	71.4	410	95	15
I-495 Express FHS49526701	66.3	65.0	71.4	400	15	10
I-495 Express FHS49526702	65.7	65.0	71.4	390	15	10
I-495 Express FHS49526703	65.7	65.0	71.4	345	15	10
I-495 Express FHS49526704	65.7	65.0	71.4	385	15	10
I-495 FSN49519301A	55.0	55.0	61.6	1	0	0
I-495 FSN49519302A	55.0	55.0	61.6	1	0	0
I-495 FSN49526705A	55.0	55.0	61.6	1	0	0
DAAR FGE267A01	62.5	55.0	61.6	260	10	0
VA-267 FGE26712301	60.2	55.0	61.6	1290	45	15
VA-267 FGE26712302	60.2	55.0	61.6	1365	45	15
VA-267 FGE26712303	60.2	55.0	61.6	950	40	15
VA-267 FGE26749501	65.3	55.0	61.6	3050	160	85
VA-267 FGE26749502	65.3	55.0	61.6	2165	110	60
VA-267 FGE26749503	65.3	55.0	61.6	1025	50	15
VA-267 FGE26749504	61.2	55.0	61.6	1340	55	15
DAAR FGW267A01	62.9	55.0	61.6	235	20	0
VA-267 FGW26712301	61.9	55.0	61.6	1180	35	5
VA-267 FGW26712302	61.9	55.0	61.6	880	30	5
VA-267 FGW26712303	58.9	55.0	61.6	1295	65	20
VA-267 FGW26749501	61.9	55.0	61.6	915	60	20
VA-267 FGW26749502	61.9	55.0	61.6	1680	80	45
VA-267 FGW26749503	61.9	55.0	61.6	2990	125	90
I-495 Ramp A	35.0	35.0	39.7	30	0	0
VA-267 Ramp AA	50.0	45.0	50.0	50	10	0

ENTRADA LINK	EXISTING (12:00)			EXISTING (12:00)		
	EB or NB Hourly Interrupted Speed (mph)	WB or SB Hourly Interrupted Speed (mph)	FFS Speed (two way) (mph)	EB or NB		
				Autos	Med	Heavy
VA-267 Ramp AB	35.0	35.0	35.0	75	0	0
VA-267 Ramp AC	50.0	45.0	50.0	415	35	15
VA-267 Ramp AD	25.0	25.0	25.0	300	5	0
VA-267 Ramp AE	25.0	25.0	25.0	415	5	0
VA-267 Ramp AF	25.0	25.0	25.0	289	0	0
VA-267 Ramp AG	25.0	25.0	25.0	125	0	0
I-495 Ramp B	50.0	45.0	50.0	75	0	0
I-495 Ramp C	50.0	45.0	50.0	210	10	0
I-495 Ramp D	49.8	45.0	50.0	765	20	25
I-495 Ramp E	50.0	45.0	50.0	380	5	0
I-495 Ramp F	47.4	45.0	50.0	1385	65	50
I-495 Ramp G	49.9	45.0	50.0	1310	45	45
I-495 Ramp H	35.0	35.0	35.0	10	0	0
I-495 Ramp I	35.0	35.0	35.0	315	5	0
I-495 Ramp J	50.0	45.0	50.0	200	15	0
I-495 Ramp K	50.0	45.0	50.0	685	35	25
I-495 Ramp L	50.0	45.0	50.0	145	5	0
I-495 Ramp M	35.0	35.0	39.7	45	0	0
I-495 Ramp N	50.0	45.0	50.0	40	0	0
I-495 Ramp O	35.0	35.0	35.0	220	35	5
I-495 Ramp P	40.0	40.0	40.0	605	40	10
I-495 Ramp Q	45.0	40.0	45.0	320	10	15
I-495 Ramp R	50.0	45.0	50.0	524	55	1
I-495 Ramp S	50.0	45.0	50.0	324	0	0
I-495 Ramp T	40.0	40.0	40.0	360	5	0
I-495 Ramp U	35.0	35.0	35.0	1039	5	1
I-495 Ramp V	50.0	45.0	50.0	435	5	0
I-495 Ramp W	20.0	20.0	20.0	1159	35	1
I-495 Ramp X	40.0	35.0	40.0	490	5	0
I-495 Ramp Y	40.0	35.0	40.0	365	5	0
VA-267 Ramp Z	48.7	45.0	50.0	1140	60	45
Georgetown Pike AGE19301	35.0	35.0	39.7	501	15	4
Georgetown Pike AGE19302	35.0	35.0	39.7	685	20	5
Georgetown Pike AGE19303	35.0	35.0	39.7	398	20	2
Georgetown Pike AGE19304	35.0	35.0	40.0	304	15	2
Lewinsville Road AGE69401	35.0	35.0	40.0	650	20	5
Old Dominion Drive AGE73801	40.0	40.0	45.0	213	5	2
George Washington Memorial Parkway AGEGWP01	50.0	50.0	55.0	1618	20	2
Jones Branch Connector AGEJBR01	35.0	35.0	39.7	119	0	1
Route 123 AGN12301	36.0	35.0	39.7	1766	85	9
Balls Hill Road AGNBHR01	35.0	35.0	39.7	229	5	1
Chain Bridge Road AGNCBR01	35.0	35.0	40.0	159	10	1
Route 123 AGS12301	37.0	35.0	39.7	1394	50	11
Balls Hill Road AGSBHR01	35.0	35.0	40.0	239	0	1
Chain Bridge Road AGSCBR01	35.0	35.0	40.0	174	5	1
Georgetown Pike AGW19301	35.0	35.0	40.0	407	15	3

ENTRADA LINK	EXISTING (12:00)			EXISTING (12:00)		
	EB or NB Hourly Interrupted Speed (mph)	WB or SB Hourly Interrupted Speed (mph)	FFS Speed (two way) (mph)	EB or NB		
				Autos	Med	Heavy
Georgetown Pike AGW19302	35.0	35.0	39.7	368	15	2
Georgetown Pike AGW19303	35.0	35.0	39.7	491	15	4
Georgetown Pike AGW19304	35.0	35.0	39.7	303	10	2
Lewinsville Road AGW69401	35.0	35.0	40.0	626	25	4
Old Dominion Drive AGW73801	40.0	40.0	45.0	243	10	2
George Washington Memorial Parkway AGWGWP01	50.0	50.0	55.0	1653	15	2
Jones Branch Connector AGWJBR01	35.0	35.0	39.7	70	0	0
I-495 C-D Road CGS495GWP01	58.9	55.0	60.0	1483	55	2
I-495 C-D Road CGS495GWP02	59.7	55.0	60.0	445	50	0
I-495 C-D Road CGS495GWP03	60.0	55.0	60.0	804	55	1

DRAFT - FOR INFORMATION ONLY

SHEET 1 OF 6

Notes

Disclaimer

This preliminary design is based on the GIS information available at this time only.

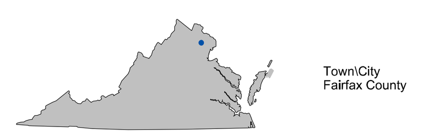
These plans are unfinished and unapproved and are not to be used for any type of construction or the acquisition of right of way. Preliminary easement for utility relocations are approximate only and subject to change as project design is finalized. Additional easements for utility relocations may be required beyond the proposed right-of-way shown on these plans.

*The noise evaluation is preliminary and a more detailed review will be completed during the final design stage. As such, noise barriers that are found to be feasible and reasonable during the preliminary noise analysis may not be found feasible and reasonable during the final design noise analysis. Conversely, noise barriers that were not considered feasible and reasonable may meet the established criteria and be recommended for construction

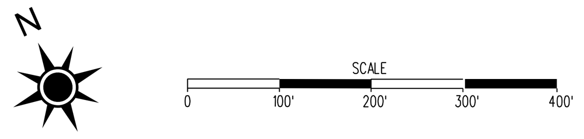
Legend

Existing Right of Way & Property Lines

Project Location



North Arrow & Scale



495 ExpressLanes NORTHERN EXTENSION

I-495 EXPRESS LANES NORTHERN EXTENSION

Arterial Segmentation for ENTRADA

DRAFT - FOR INFORMATION ONLY

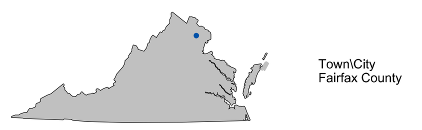
SHEET 2 OF 6

Notes

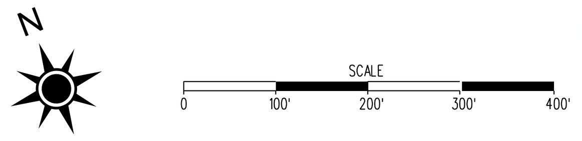
Legend

Existing Right of Way & Property Lines

Project Location



North Arrow & Scale



495 ExpressLanes NORTHERN EXTENSION

I-495 EXPRESS LANES NORTHERN EXTENSION

Arterial Segmentation for ENTRADA

Disclaimer

This preliminary design is based on the GIS information available at this time only.

These plans are unfinished and unapproved and are not to be used for any type of construction or the acquisition of right of way. Preliminary easement for utility relocations are approximate only and subject to change as project design is finalized. Additional easements for utility relocations may be required beyond the proposed right-of-way shown on these plans.

*The noise evaluation is preliminary and a more detailed review will be completed during the final design stage. As such, noise barriers that are found to be feasible and reasonable during the preliminary noise analysis may not be found feasible and reasonable during the final design noise analysis. Conversely, noise barriers that were not considered feasible and reasonable may meet the established criteria and be recommended for construction

DRAFT - FOR INFORMATION ONLY

SHEET 3 OF 6

Notes

Disclaimer

This preliminary design is based on the GIS information available at this time only.

These plans are unfinished and unapproved and are not to be used for any type of construction or the acquisition of right of way. Preliminary easement for utility relocations are approximate only and subject to change as project design is finalized. Additional easements for utility relocations may be required beyond the proposed right-of-way shown on these plans.

*The noise evaluation is preliminary and a more detailed review will be completed during the final design stage. As such, noise barriers that are found to be feasible and reasonable during the preliminary noise analysis may not be found feasible and reasonable during the final design noise analysis. Conversely, noise barriers that were not considered feasible and reasonable may meet the established criteria and be recommended for construction

Legend

— — Existing Right of Way & Property Lines

Project Location

Town/City
Fairfax County

North Arrow & Scale

SCALE
0 100' 200' 300' 400'

495 ExpressLanes
NORTHERN EXTENSION

I-495 EXPRESS LANES NORTHERN EXTENSION

Arterial Segmentation for ENTRADA

DRAFT - FOR INFORMATION ONLY

SHEET 4 OF 6

Notes

Disclaimer

This preliminary design is based on the GIS information available at this time only.

These plans are unfinished and unapproved and are not to be used for any type of construction or the acquisition of right of way. Preliminary easement for utility relocations are approximate only and subject to change as project design is finalized. Additional easements for utility relocations may be required beyond the proposed right-of-way shown on these plans.

*The noise evaluation is preliminary and a more detailed review will be completed during the final design stage. As such, noise barriers that are found to be feasible and reasonable during the preliminary noise analysis may not be found feasible and reasonable during the final design noise analysis. Conversely, noise barriers that were not considered feasible and reasonable may meet the established criteria and be recommended for construction

Legend

Existing Right of Way & Property Lines

Project Location

Town/City Fairfax County

North Arrow & Scale

N

SCALE 0 100' 200' 300' 400'

495 ExpressLanes NORTHERN EXTENSION

I-495 EXPRESS LANES NORTHERN EXTENSION

Arterial Segmentation for ENTRADA

DRAFT - FOR INFORMATION ONLY

SHEET 5 OF 6

Notes

Disclaimer

This preliminary design is based on the GIS information available at this time only.

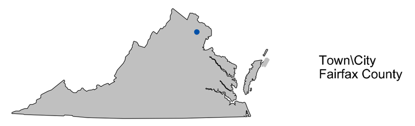
These plans are unfinished and unapproved and are not to be used for any type of construction or the acquisition of right of way. Preliminary easement for utility relocations are approximate only and subject to change as project design is finalized. Additional easements for utility relocations may be required beyond the proposed right-of-way shown on these plans.

*The noise evaluation is preliminary and a more detailed review will be completed during the final design stage. As such, noise barriers that are found to be feasible and reasonable during the preliminary noise analysis may not be found feasible and reasonable during the final design noise analysis. Conversely, noise barriers that were not considered feasible and reasonable may meet the established criteria and be recommended for construction

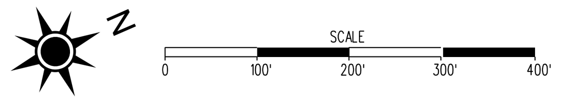
Legend

Existing Right of Way & Property Lines

Project Location



North Arrow & Scale



495 ExpressLanes NORTHERN EXTENSION

I-495 EXPRESS LANES NORTHERN EXTENSION

Arterial Segmentation for ENTRADA

DRAFT - FOR INFORMATION ONLY

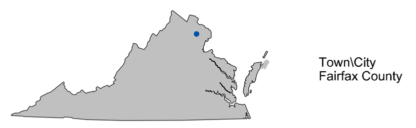
SHEET 6 OF 6

Notes

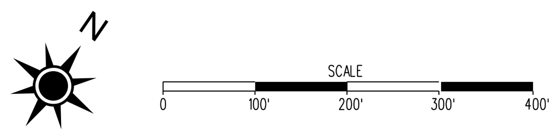
Legend

Existing Right of Way & Property Lines

Project Location



North Arrow & Scale



495 ExpressLanes NORTHERN EXTENSION

I-495 EXPRESS LANES NORTHERN EXTENSION

Arterial Segmentation for ENTRADA

Disclaimer

This preliminary design is based on the GIS information available at this time only.

These plans are unfinished and unapproved and are not to be used for any type of construction or the acquisition of right of way. Preliminary easement for utility relocations are approximate only and subject to change as project design is finalized. Additional easements for utility relocations may be required beyond the proposed right-of-way shown on these plans.

*The noise evaluation is preliminary and a more detailed review will be completed during the final design stage. As such, noise barriers that are found to be feasible and reasonable during the preliminary noise analysis may not be found feasible and reasonable during the final design noise analysis. Conversely, noise barriers that were not considered feasible and reasonable may meet the established criteria and be recommended for construction

DRAFT - FOR INFORMATION ONLY

SHEET 1 OF 9

Notes

Disclaimer

This preliminary design is based on the GIS information available at this time only.

These plans are unfinished and unapproved and are not to be used for any type of construction or the acquisition of right of way. Preliminary easement for utility relocations are approximate only and subject to change as project design is finalized. Additional easements for utility relocations may be required beyond the proposed right-of-way shown on these plans.

*The noise evaluation is preliminary and a more detailed review will be completed during the final design stage. As such, noise barriers that are found to be feasible and reasonable during the preliminary noise analysis may not be found feasible and reasonable during the final design noise analysis. Conversely, noise barriers that were not considered feasible and reasonable may meet the established criteria and be recommended for construction

Legend

Existing Right of Way & Property Lines

Project Location

North Arrow & Scale

495 ExpressLanes NORTHERN EXTENSION

I-495 EXPRESS LANES NORTHERN EXTENSION

Existing Segmentation for ENTRADA

DRAFT - FOR INFORMATION ONLY

SHEET 3 OF 9

Notes

Disclaimer

This preliminary design is based on the GIS information available at this time only.

These plans are unfinished and unapproved and are not to be used for any type of construction or the acquisition of right of way. Preliminary easement for utility relocations are approximate only and subject to change as project design is finalized. Additional easements for utility relocations may be required beyond the proposed right-of-way shown on these plans.

*The noise evaluation is preliminary and a more detailed review will be completed during the final design stage. As such, noise barriers that are found to be feasible and reasonable during the preliminary noise analysis may not be found feasible and reasonable during the final design noise analysis. Conversely, noise barriers that were not considered feasible and reasonable may meet the established criteria and be recommended for construction

Legend

Existing Right of Way & Property Lines

Project Location

Town/City
Fairfax County

North Arrow & Scale

495 ExpressLanes NORTHERN EXTENSION

I-495 EXPRESS LANES NORTHERN EXTENSION

Existing Segmentation for ENTRADA

DRAFT - FOR INFORMATION ONLY

SHEET 3 OF 9

Notes

Disclaimer

This preliminary design is based on the GIS information available at this time only.

These plans are unfinished and unapproved and are not to be used for any type of construction or the acquisition of right of way. Preliminary easement for utility relocations are approximate only and subject to change as project design is finalized. Additional easements for utility relocations may be required beyond the proposed right-of-way shown on these plans.

*The noise evaluation is preliminary and a more detailed review will be completed during the final design stage. As such, noise barriers that are found to be feasible and reasonable during the preliminary noise analysis may not be found feasible and reasonable during the final design noise analysis. Conversely, noise barriers that were not considered feasible and reasonable may meet the established criteria and be recommended for construction

Legend

Existing Right of Way & Property Lines

Project Location

North Arrow & Scale

495 ExpressLanes NORTHERN EXTENSION

I-495 EXPRESS LANES NORTHERN EXTENSION

Existing Segmentation for ENTRADA

DRAFT - FOR INFORMATION ONLY

SHEET 4 OF 9

Notes

Disclaimer

This preliminary design is based on the GIS information available at this time only.

These plans are unfinished and unapproved and are not to be used for any type of construction or the acquisition of right of way. Preliminary easement for utility relocations are approximate only and subject to change as project design is finalized. Additional easements for utility relocations may be required beyond the proposed right-of-way shown on these plans.

*The noise evaluation is preliminary and a more detailed review will be completed during the final design stage. As such, noise barriers that are found to be feasible and reasonable during the preliminary noise analysis may not be found feasible and reasonable during the final design noise analysis. Conversely, noise barriers that were not considered feasible and reasonable may meet the established criteria and be recommended for construction

Legend

Existing Right of Way & Property Lines

Project Location

North Arrow & Scale

495 ExpressLanes NORTHERN EXTENSION

I-495 EXPRESS LANES NORTHERN EXTENSION

Existing Segmentation for ENTRADA

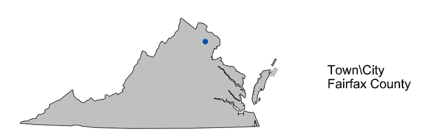
DRAFT - FOR INFORMATION ONLY

Notes

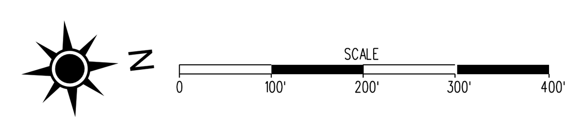
Legend

Existing Right of Way & Property Lines

Project Location



North Arrow & Scale



495 ExpressLanes NORTHERN EXTENSION

Disclaimer

This preliminary design is based on the GIS information available at this time only.

These plans are unfinished and unapproved and are not to be used for any type of construction or the acquisition of right of way. Preliminary easement for utility relocations are approximate only and subject to change as project design is finalized. Additional easements for utility relocations may be required beyond the proposed right-of-way shown on these plans.

*The noise evaluation is preliminary and a more detailed review will be completed during the final design stage. As such, noise barriers that are found to be feasible and reasonable during the preliminary noise analysis may not be found feasible and reasonable during the final design noise analysis. Conversely, noise barriers that were not considered feasible and reasonable may meet the established criteria and be recommended for construction

I-495 EXPRESS LANES NORTHERN EXTENSION

Existing Segmentation for ENTRADA

DRAFT - FOR INFORMATION ONLY

Notes

Disclaimer

This preliminary design is based on the GIS information available at this time only.

These plans are unfinished and unapproved and are not to be used for any type of construction or the acquisition of right of way. Preliminary easement for utility relocations are approximate only and subject to change as project design is finalized. Additional easements for utility relocations may be required beyond the proposed right-of-way shown on these plans.

*The noise evaluation is preliminary and a more detailed review will be completed during the final design stage. As such, noise barriers that are found to be feasible and reasonable during the preliminary noise analysis may not be found feasible and reasonable during the final design noise analysis. Conversely, noise barriers that were not considered feasible and reasonable may meet the established criteria and be recommended for construction

Legend

Existing Right of Way & Property Lines

Project Location

North Arrow & Scale

495 ExpressLanes NORTHERN EXTENSION

I-495 EXPRESS LANES NORTHERN EXTENSION

Existing Segmentation for ENTRADA

DRAFT - FOR INFORMATION ONLY

SHEET 7 OF 9

Notes

Disclaimer

This preliminary design is based on the GIS information available at this time only.

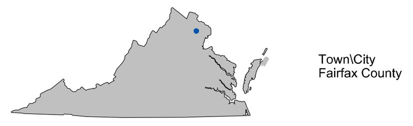
These plans are unfinished and unapproved and are not to be used for any type of construction or the acquisition of right of way. Preliminary easement for utility relocations are approximate only and subject to change as project design is finalized. Additional easements for utility relocations may be required beyond the proposed right-of-way shown on these plans.

*The noise evaluation is preliminary and a more detailed review will be completed during the final design stage. As such, noise barriers that are found to be feasible and reasonable during the preliminary noise analysis may not be found feasible and reasonable during the final design noise analysis. Conversely, noise barriers that were not considered feasible and reasonable may meet the established criteria and be recommended for construction

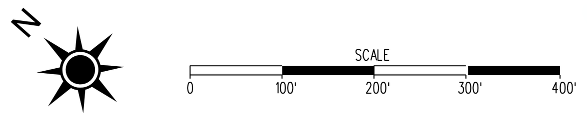
Legend

Existing Right of Way & Property Lines

Project Location



North Arrow & Scale



495 ExpressLanes NORTHERN EXTENSION

I-495 EXPRESS LANES NORTHERN EXTENSION

Existing Segmentation for ENTRADA

DRAFT - FOR INFORMATION ONLY

SHEET 8 OF 9

Notes

Disclaimer

This preliminary design is based on the GIS information available at this time only.

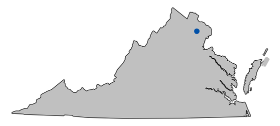
These plans are unfinished and unapproved and are not to be used for any type of construction or the acquisition of right of way. Preliminary easement for utility relocations are approximate only and subject to change as project design is finalized. Additional easements for utility relocations may be required beyond the proposed right-of-way shown on these plans.

*The noise evaluation is preliminary and a more detailed review will be completed during the final design stage. As such, noise barriers that are found to be feasible and reasonable during the preliminary noise analysis may not be found feasible and reasonable during the final design noise analysis. Conversely, noise barriers that were not considered feasible and reasonable may meet the established criteria and be recommended for construction

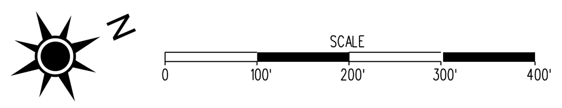
Legend

Existing Right of Way & Property Lines

Project Location



North Arrow & Scale



495 ExpressLanes NORTHERN EXTENSION

I-495 EXPRESS LANES NORTHERN EXTENSION

Existing Segmentation for ENTRADA

DRAFT - FOR INFORMATION ONLY

SHEET 9 OF 9

Notes

Disclaimer

This preliminary design is based on the GIS information available at this time only.

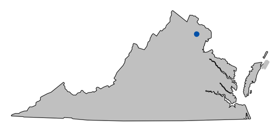
These plans are unfinished and unapproved and are not to be used for any type of construction or the acquisition of right of way. Preliminary easement for utility relocations are approximate only and subject to change as project design is finalized. Additional easements for utility relocations may be required beyond the proposed right-of-way shown on these plans.

*The noise evaluation is preliminary and a more detailed review will be completed during the final design stage. As such, noise barriers that are found to be feasible and reasonable during the preliminary noise analysis may not be found feasible and reasonable during the final design noise analysis. Conversely, noise barriers that were not considered feasible and reasonable may meet the established criteria and be recommended for construction

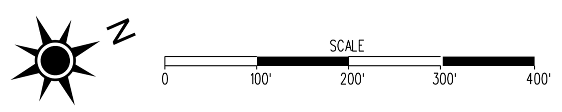
Legend

Existing Right of Way & Property Lines

Project Location



North Arrow & Scale



495 ExpressLanes NORTHERN EXTENSION

I-495 EXPRESS LANES NORTHERN EXTENSION

Existing Segmentation for ENTRADA

ENTRADA LINKS

2045 Build Alternative (12:00)

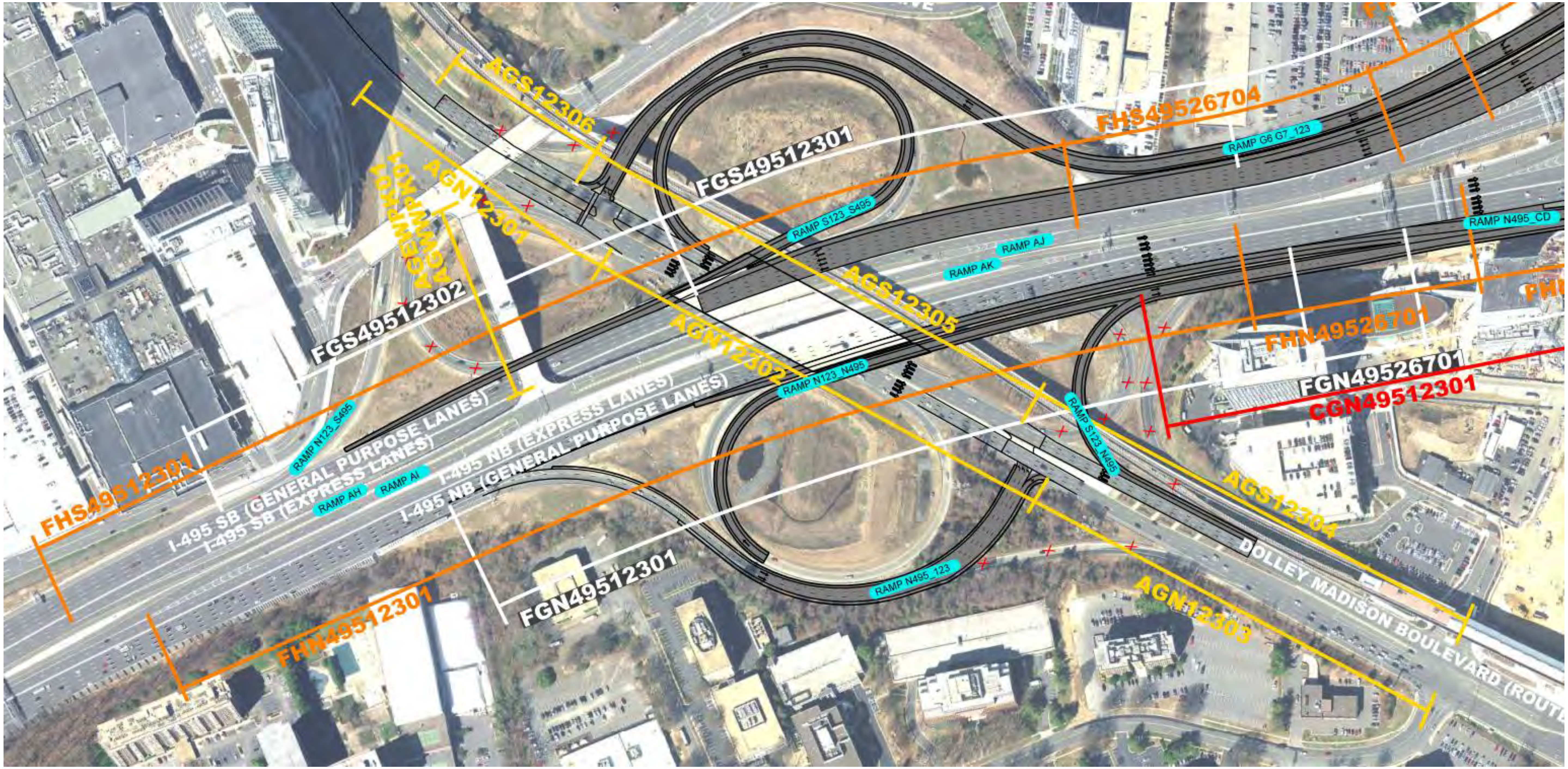
ENTRADA LINK	BUILD			BUILD		
	EB or NB Hourly Interrupted Speed (mph)	WB or SB Hourly Interrupted Speed (mph)	FFS Speed (two way) (mph)	EB or NB		
				Autos	Med	Heavy
I-495_FGN495GWP01	60.1	55.0	61.6	5440	386	323
I-495_FGN495GWP02	61.6	55.0	61.6	6433	405	308
I-495_FGN49512301	61.6	55.0	61.6	3396	307	287
I-495_FGN49519301	60.1	55.0	61.6	5455	360	324
I-495_FGN49519302	61.6	55.0	61.6	5815	384	317
I-495_FGN49526701	60.1	55.0	61.6	3396	307	287
I-495_FGN49526702	60.1	55.0	61.6	2336	211	198
I-495_FGN49526703	60.1	55.0	61.6	2721	190	168
I-495_FGN49526704	61.6	55.0	61.6	5933	415	367
I-495_FGN495CBP01	61.6	55.0	61.6	6852	256	256
I-495_FGS495GWP01	58.8	55.0	61.6	5178	1003	388
I-495_FGS49512301	61.6	55.0	61.6	4941	191	252
I-495_FGS49512302	55.2	55.0	61.6	5648	219	288
I-495_FGS49519301	60.1	55.0	61.6	5738	202	261
I-495_FGS49519302	61.6	55.0	61.6	5881	207	267
I-495_FGS49519303	61.6	55.0	61.6	6317	221	288
I-495_FGS49526701	61.6	55.0	61.6	6317	221	288
I-495_FGS49526702	61.6	55.0	61.6	5990	209	282
I-495_FGS49526703	57.6	55.0	61.6	4509	165	251
I-495_FGS49526704	58.4	55.0	61.6	4289	157	239
I-495_FGS49526705	60.1	55.0	61.6	3211	124	164
I-495 C-D Road_CGN49512301	56.6	55.0	61.6	1222	1	1
I-495 C-D Road_CGN49512302	57.3	55.0	61.6	2465	2	2
I-495 C-D Road_CGN49526701	55.0	55.0	61.6	3627	4	4
I-495 C-D Road_CGN49526702	55.0	55.0	61.6	3627	4	4
I-495 C-D Road_CGS495GWP01	57.1	55.0	61.6	262	18	0
I-495 C-D Road_CGS49526701	57.0	55.0	61.6	639	1	1
I-495 C-D Road_CGS49526702	55.0	55.0	61.6	1881	2	2
I-495 Express_FHN495GWP01	65.2	65.0	71.4	1703	2	2
I-495 Express_FHN495GWP02	65.0	65.0	71.4	2122	2	2
I-495 Express_FHN49512301	66.9	65.0	71.4	927	66	16
I-495 Express_FHN49526701	66.9	65.0	71.4	1096	76	17
I-495 Express_FHN49526702	66.9	65.0	71.4	1018	75	17
I-495 Express_FHN49526703	66.9	65.0	71.4	670	58	17
I-495 Express_FHN49526704	66.7	65.0	71.4	851	62	18
I-495 Express_FHN49526705	65.0	65.0	71.4	1738	2	2
I-495 Express_FHS495CBP01	65.0	65.0	71.4	2086	2	2
I-495 Express_FHS495GWP01	65.4	65.0	71.4	1622	2	2
I-495 Express_FHS49512301	66.6	65.0	71.4	904	51	17
I-495 Express_FHS49519301	68.0	65.0	71.4	1657	2	2
I-495 Express_FHS49526701	65.6	65.0	71.4	810	31	21
I-495 Express_FHS49526702	65.6	65.0	71.4	676	29	20
I-495 Express_FHS49526703	65.6	65.0	71.4	785	31	20
I-495 Express_FHS49526704	68.3	65.0	71.4	1049	54	18
I-495 Express Ramp_AH	50.0	45.0	50.0	134	11	0
I-495 Express Ramp_AI	50.0	45.0	50.0	169	11	0

ENTRADA LINK	BUILD			BUILD		
	EB or NB Hourly Interrupted Speed (mph)	WB or SB Hourly Interrupted Speed (mph)	FFS Speed (two way) (mph)	EB or NB		
				Autos	Med	Heavy
I-495 Express Ramp_AJ	50.0	45.0	50.0	149	0	0
I-495 Express Ramp_AK	50.0	45.0	50.0	174	11	0
I-495 Express Ramp_E1 GX_E3	35.0	35.0	35.0	734	1	1
I-495 Express Ramp_E3	30.0	30.0	30.0	80	0	0
I-495 Express Ramp_E3_N495	35.0	35.0	35.0	814	1	1
I-495 Express Ramp_E4	35.0	35.0	35.0	165	165	0
I-495 Express Ramp_E4-E2-XG	45.0	45.0	45.0	793	1	1
I-495 Express Ramp_EDAAR_H495	60.0	55.0	60.0	210	0	0
I-495 Express Ramp_EDTR_H495	60.0	55.0	60.0	323	0	0
I-495 Express Ramp_GWPXA	50.0	45.0	50.0	460	0	0
I-495 Express Ramp_GWPXB	50.0	45.0	50.0	419	0	0
I-495 Express Ramp_GWPXC	50.0	45.0	50.0	35	0	0
I-495 Express Ramp_GWPXD	50.0	45.0	50.0	31	0	0
I-495 Express Ramp_GX	35.0	35.0	35.0	429	0	0
I-495 Express Ramp_S495E2-XG	35.0	35.0	35.0	464	0	0
I-495 Express Ramp_XG	25.0	25.0	25.0	379	0	0
I-495 Ramp_A	35.0	35.0	39.7	80	0	0
I-495 Ramp_B	50.0	45.0	50.0	185	0	0
I-495 Ramp_C	45.0	45.0	45.0	348	17	0
I-495 Ramp_CD_R	50.0	45.0	50.0	135	0	0
I-495 Ramp_D2_N495	25.0	25.0	25.0	334	0	0
I-495 Ramp_E1	25.0	25.0	25.0	304	0	0
I-495 Ramp_E2	30.0	30.0	30.0	85	0	0
I-495 Ramp_G1	30.0	30.0	30.0	345	0	0
I-495 Ramp_G1_D2	45.0	45.0	45.0	184	0	0
I-495 Ramp_G1_DTR	45.0	45.0	45.0	155	0	0
I-495 Ramp_G2	45.0	45.0	45.0	958	1	1
I-495 Ramp_G2_G9	35.0	35.0	35.0	1078	1.0	1.0
I-495 Ramp_G3	45.0	45.0	45.0	2170	2.0	2.0
I-495 Ramp_G5	45.0	45.0	45.0	1461	50	44
I-495 Ramp_G6 G7_123	49.7	45.0	50.0	914	1	1
I-495 Ramp_G6	45.0	45.0	45.0	1582	2	2
I495 Ramp_G9	30.0	30.0	30.0	963	1	1
I-495 Ramp_G10	45.0	45.0	45.0	488	7	0
I-495 Ramp_G10-G3_CD	45.0	45.0	45.0	2664	3	3
I-495 Ramp_J	45.0	45.0	45.0	265	20	0
I-495 Ramp_M	35.0	35.0	39.7	135	0	0
I-495 Ramp_N	50.0	45.0	50.0	110	0	0
I-495 Ramp_N123_N495	39.5	35.0	39.7	783	1	1
I-495 Ramp_N123_S495	39.4	35.0	39.7	874	1	1
I-495 Ramp_N495_123	47.4	45.0	47.6	792	1	1
I-495 Ramp_N495_CD	45.0	45.0	45.0	1243	1	1
I-495 Ramp_N495_G2	45.0	45.0	45.0	2040	2	2
I-495 Ramp_O	35.0	35.0	35.0	487	77	11
I-495 Ramp_P	40.0	40.0	40.0	342	23	6
I-495 Ramp_Q	45.0	40.0	45.0	432	13	20

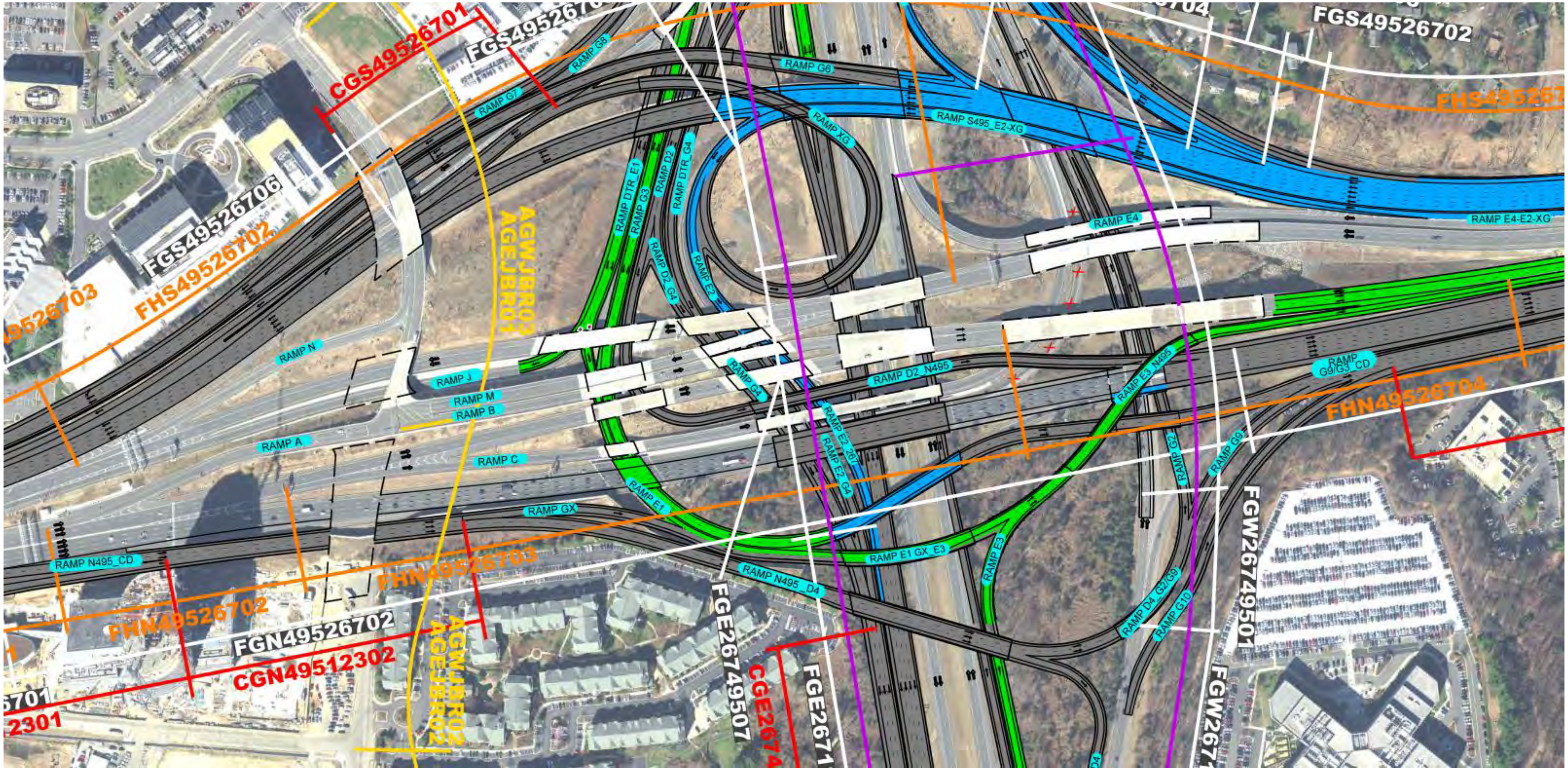
ENTRADA LINK	BUILD			BUILD		
	EB or NB Hourly Interrupted Speed (mph)	WB or SB Hourly Interrupted Speed (mph)	FFS Speed (two way) (mph)	EB or NB		
				Autos	Med	Heavy
I-495 Ramp_R	50.0	45.0	50.0	456	48	1
I-495 Ramp_S	50.0	45.0	50.0	160	0	0
I-495 Ramp_S123_N495	39.6	35.0	39.7	439	0	0
I-495 Ramp_S123_S495	39.5	35.0	39.7	769	1	1
I-495 Ramp_S495_R	50.0	45.0	50.0	369	0	0
I-495 Ramp_T	40.0	40.0	40.0	276	4	0
I-495 Ramp_U	35.0	35.0	35.0	790	4	1
I-495 Ramp_V	50.0	45.0	50.0	356	4	0
I-495 Ramp_W	20.0	20.0	20.0	961	29	1
VA-267_FGE26712301	58.6	55.0	61.6	565	23	6
VA-267_FGE26712302	57.1	55.0	61.6	562	24	9
VA-267_FGE26749501	56.6	55.0	61.6	3995	209	116
VA-267_FGE26749502	60.9	55.0	61.6	3699	194	103
VA-267_FGE26749503	60.6	55.0	61.6	4154	218	116
VA-267_FGE26749504	60.1	55.0	61.6	2615	487	96
VA-267_FGE26749505	58.6	55.0	61.6	963	47	14
VA-267_FGE26749506	57.1	55.0	61.6	338	16	5
VA-267_FGE26749507	57.1	55.0	61.6	484	24	7
VA-267_FGW26712301	57.1	55.0	61.6	1480	44	6
VA-267_FGW26712302	57.1	55.0	61.6	817	28	5
VA-267_FGW26712303	57.1	55.0	61.6	736	25	4
VA-267_FGW26712304	58.6	55.0	61.6	1243	62	19
VA-267_FGW26749501	57.1	55.0	61.6	763	50	17
VA-267_FGW26749502	57.1	55.0	61.6	1645	108	36
VA-267_FGW26749503	61.5	55.0	61.6	2280	95	69
VA-267_FGW26749504	61.2	55.0	61.6	3737	157	105
VA-267_FGW26749505	61.1	55.0	61.6	3440	141	109
DAAR Ramp_D1	45.0	45.0	45.0	260	0	0
DAAR Ramp_D3	45.0	45.0	45.0	235	0	0
DAAR Ramp_D4	35.0	35.0	35.0	115	0	0
DAAR Ramp_DAAR_D2	45.0	45.0	45.0	529	1	1
DTR Ramp_D2	45.0	45.0	45.0	660	31	24
DTR Ramp_D2_G4	35.0	35.0	35.0	388	0	0
DTR Ramp_DTR_E1	45.0	45.0	45.0	533	1	1
DTR Ramp_DTR_G4	45.0	45.0	45.0	664	1	1
DTR Ramp_E2_267	30.0	30.0	30.0	80	0	0
DTR Ramp_E2_G4	30.0	30.0	30.0	5	0	0
DTR Ramp_E267_G7-G8	45.0	45.0	45.0	1287	1	1
DTR Ramp_G4	35.0	35.0	35.0	1049	1	1
DTR Ramp_G4_N123	45.0	45.0	45.0	504	1	1
DTR Ramp_G4_S123	45.0	45.0	45.0	190	0	0
DTR Ramp_G7	45.0	45.0	45.0	45	0	0
DTR Ramp_G8	45.0	45.0	45.0	1236	1	1
DTR Ramp_WDTR_DAAR	60.0	55.0	60.0	309	0	0
VA-267 Ramp_AC	50.0	45.0	50.0	495	42	18
VA-267 Ramp_AD	25.0	25.0	25.0	668	11	1

ENTRADA LINK	BUILD			BUILD		
	EB or NB Hourly Interrupted Speed (mph)	WB or SB Hourly Interrupted Speed (mph)	FFS Speed (two way) (mph)	EB or NB		
				Autos	Med	Heavy
VA-267 Ramp_AE	25.0	25.0	25.0	499	6	1
VA-267 Ramp_AF	25.0	25.0	25.0	778	1	1
VA-267 Ramp_AG	25.0	25.0	25.0	150	0	0
VA-267 Ramp_S123_267	25.0	25.0	25.0	95	0	0
VA-267_CGE26749501	58.5	55.0	61.6	1054	1	1
DAAR_FGE267A01	56.4	55.0	61.6	1338	52	1
DAAR_FGE267A02	56.7	55.0	61.6	1136	44	1
DAAR_FGE267A03	58.5	55.0	61.6	1136	44	1
DAAR_FGE267A04	57.1	55.0	61.6	375	14	0
DAAR_FGW267A01	57.1	55.0	61.6	332	28	0
DAAR_FGW267A02	57.1	55.0	61.6	438	37	0
DAAR_FGW267A03	57.1	55.0	61.6	659	55	1
Balls Hill Road_AGNBHR01	35.0	35.0	39.7	204	4	1
Balls Hill Road_AGSBHR01	35.0	35.0	40.0	269	0	1
Chain Bridge Road_AGNCBR01	35.0	35.0	40.0	193	12	1
Chain Bridge Road_AGSCBR01	35.0	35.0	40.0	338	10	2
Jones Branch Connector_AGEJBR01	35.0	35.0	39.7	262	0	3
Jones Branch Connector_AGEJBR02	35.0	35.0	39.7	334	0	0
Jones Branch Connector_AGEJBR03	35.0	35.0	39.7	334	0	0
Jones Branch Connector_AGWJBR01	35.0	35.0	39.7	279	0	0
Jones Branch Connector_AGWJBR02	35.0	35.0	39.7	279	0	0
Jones Branch Connector_AGWJBR03	35.0	35.0	39.7	240	0	0
Lewinsville Road_AGE69401	35.0	35.0	40.0	524	16	4
Lewinsville Road_AGW69401	35.0	35.0	40.0	502	20	3
Old Dominion Drive_AGE73801	40.0	40.0	45.0	237	6	2
Old Dominion Drive_AGW73801	40.0	40.0	45.0	300	12	2
Route 123_AGN12301	35.0	35.0	39.7	2875	17	23
Route 123_AGN12302	35.0	35.0	40.0	2343	24	2
Route 123_AGN12303	35.0	35.0	39.7	2328	24	24
Route 123_AGN12304	35.0	35.0	40.0	3690	175	19
Route 123_AGN12305	35.0	35.0	39.7	3442	166	18
Route 123_AGN12306	35.0	35.0	40.0	3130	150	16
Route 123_AGS12301	35.0	35.0	39.7	1948	69	15
Route 123_AGS12302	35.0	35.0	40.0	2036	73	16
Route 123_AGS12303	35.0	35.0	39.7	1948	66	15
Route 123_AGS12304	35.0	35.0	39.7	2509	33	67
Route 123_AGS12305	35.0	35.0	39.7	2843	35	62
Route 123_AGS12306	35.0	35.0	39.7	3025	29	31
Georgetown Pike_AGE19301	35.0	35.0	39.7	472	14	3
Georgetown Pike_AGE19302	35.0	35.0	39.7	680	20	5
Georgetown Pike_AGE19303	35.0	35.0	39.7	777	39	4
Georgetown Pike_AGE19304	35.9	35.0	40.0	532	26	3
Georgetown Pike_AGW19301	36.1	35.0	40.0	412	15	3
Georgetown Pike_AGW19302	35.0	35.0	39.7	817	33	4
Georgetown Pike_AGW19303	35.0	35.0	39.7	703	21	6
Georgetown Pike_AGW19304	35.0	35.0	39.7	461	15	4

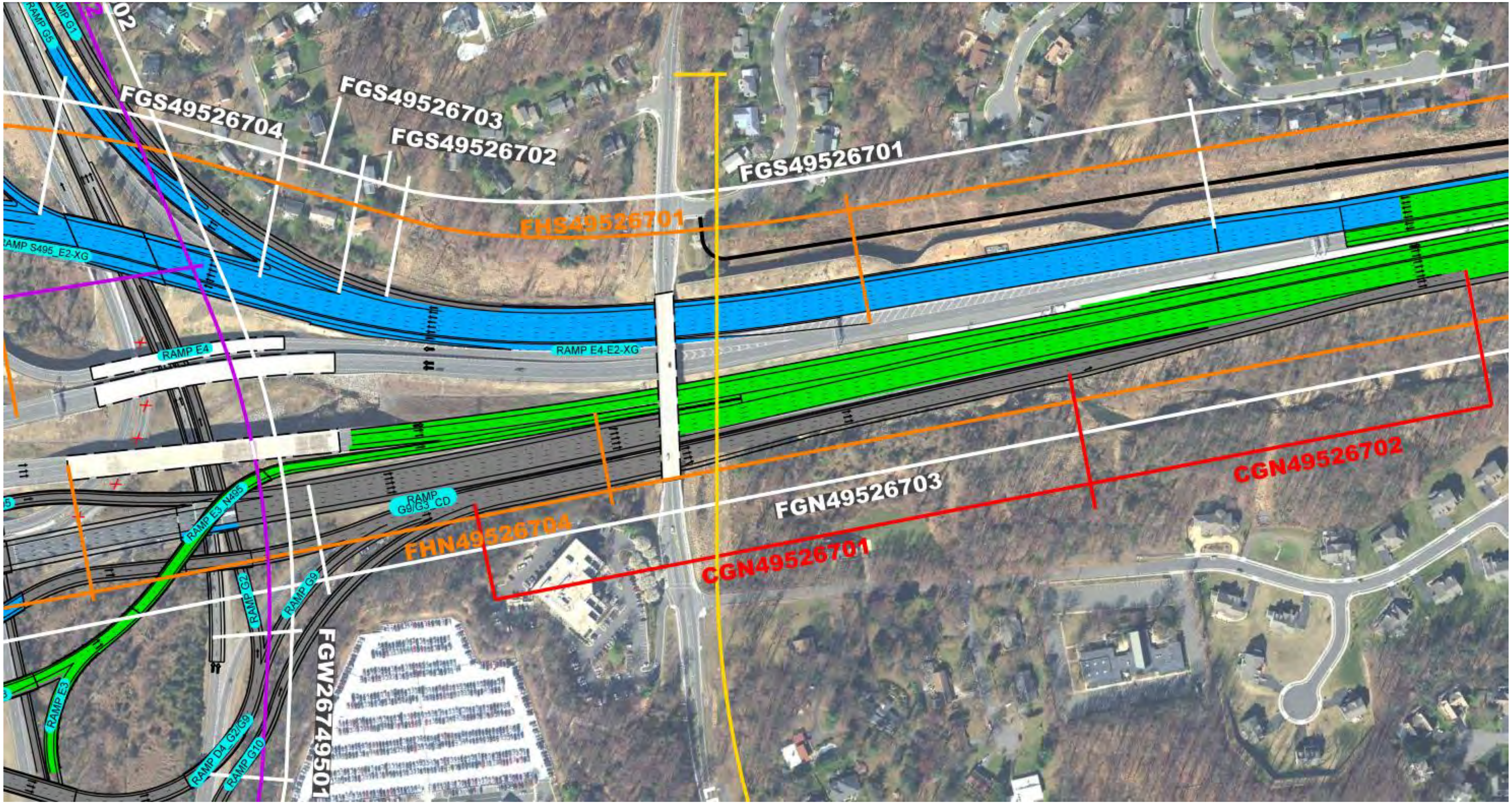
ENTRADA LINK	BUILD			BUILD		
	EB or NB Hourly Interrupted Speed (mph)	WB or SB Hourly Interrupted Speed (mph)	FFS Speed (two way) (mph)	EB or NB		
				Autos	Med	Heavy
George Washington Memorial Parkway_AGEGWP01	50.0	50.0	55.0	1894	23	2
George Washington Memorial Parkway_AGWGWP01	50.0	50.0	55.0	1767	16	2
Westpark Drive_AGEWPK01	35.0	35.0	39.7	328	22	0
Westpark Drive_AGWWPK01	35.0	35.0	39.7	254	40	0

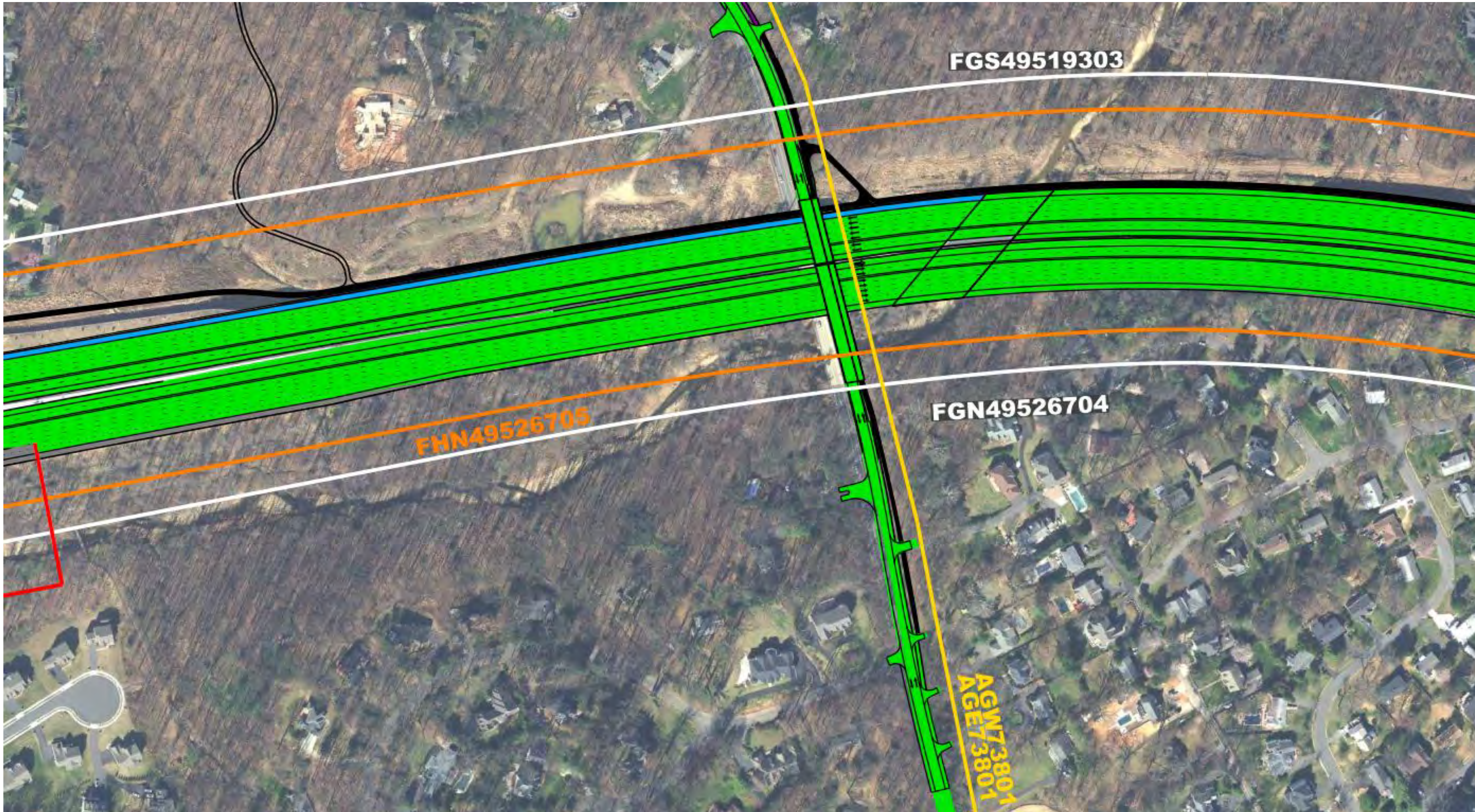


AGS12306
AGN12301
AGWPWP01
AGWPWP01
FGS49512301
FGS49512302
FHS49526704
RAMP G6 G7_123
RAMP S123_S495
RAMP AJ
RAMP AK
RAMP N495_CD
AGS12305
AGN12302
FHN49526701
FGN49526701
CGN49512301
RAMP N123_N495
RAMP S123_N495
RAMP N123_S495
I-495 SB (GENERAL PURPOSE LANES)
I-495 SB (EXPRESS LANES)
I-495 NB (EXPRESS LANES)
I-495 NB (GENERAL PURPOSE LANES)
RAMP AH
RAMP AI
FHS49512301
AGS12304
DOLLEY MADISON BOULEVARD (ROUTE
RAMP N495_123
FGN49512301
FHN49512301
AGN12303

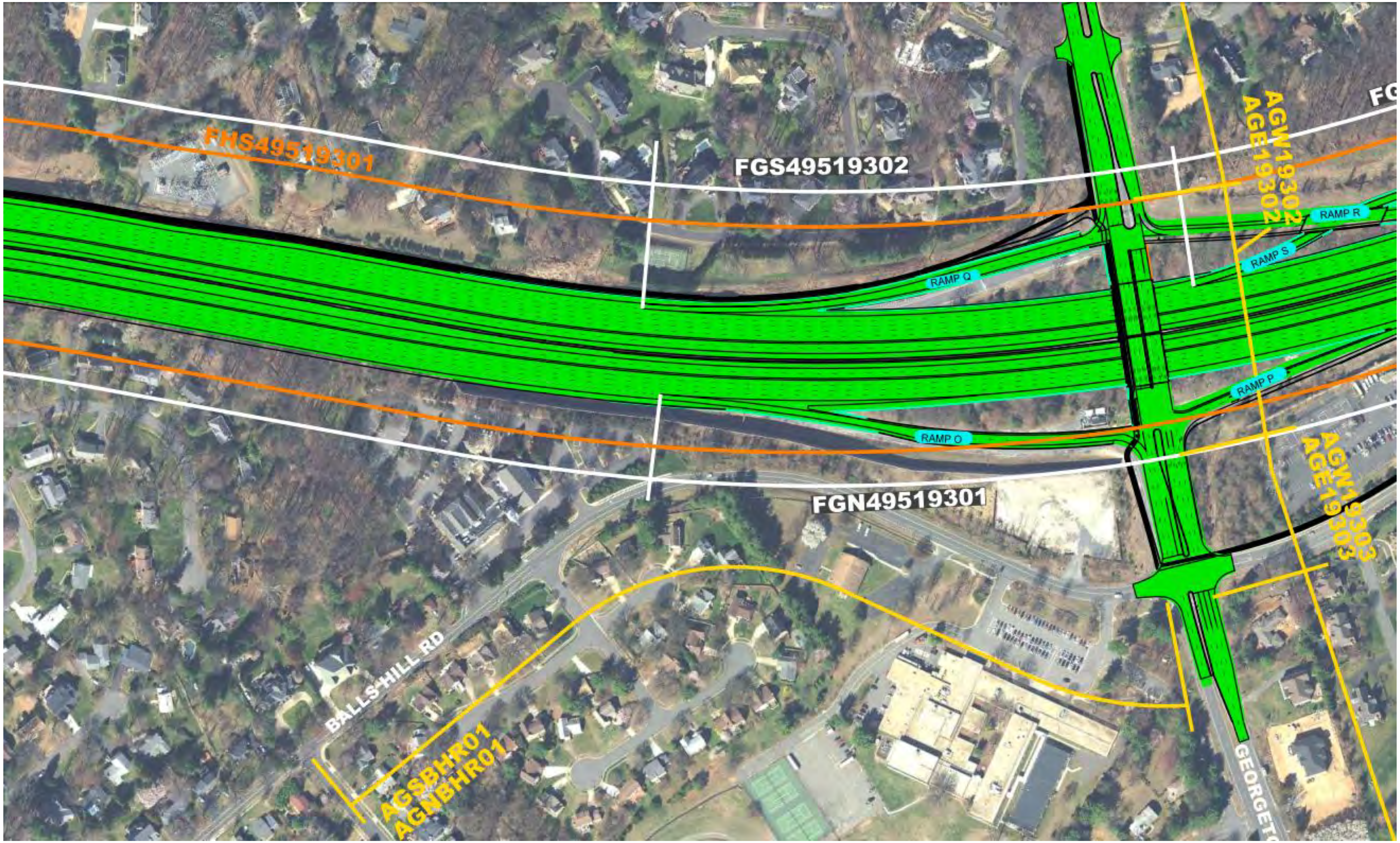


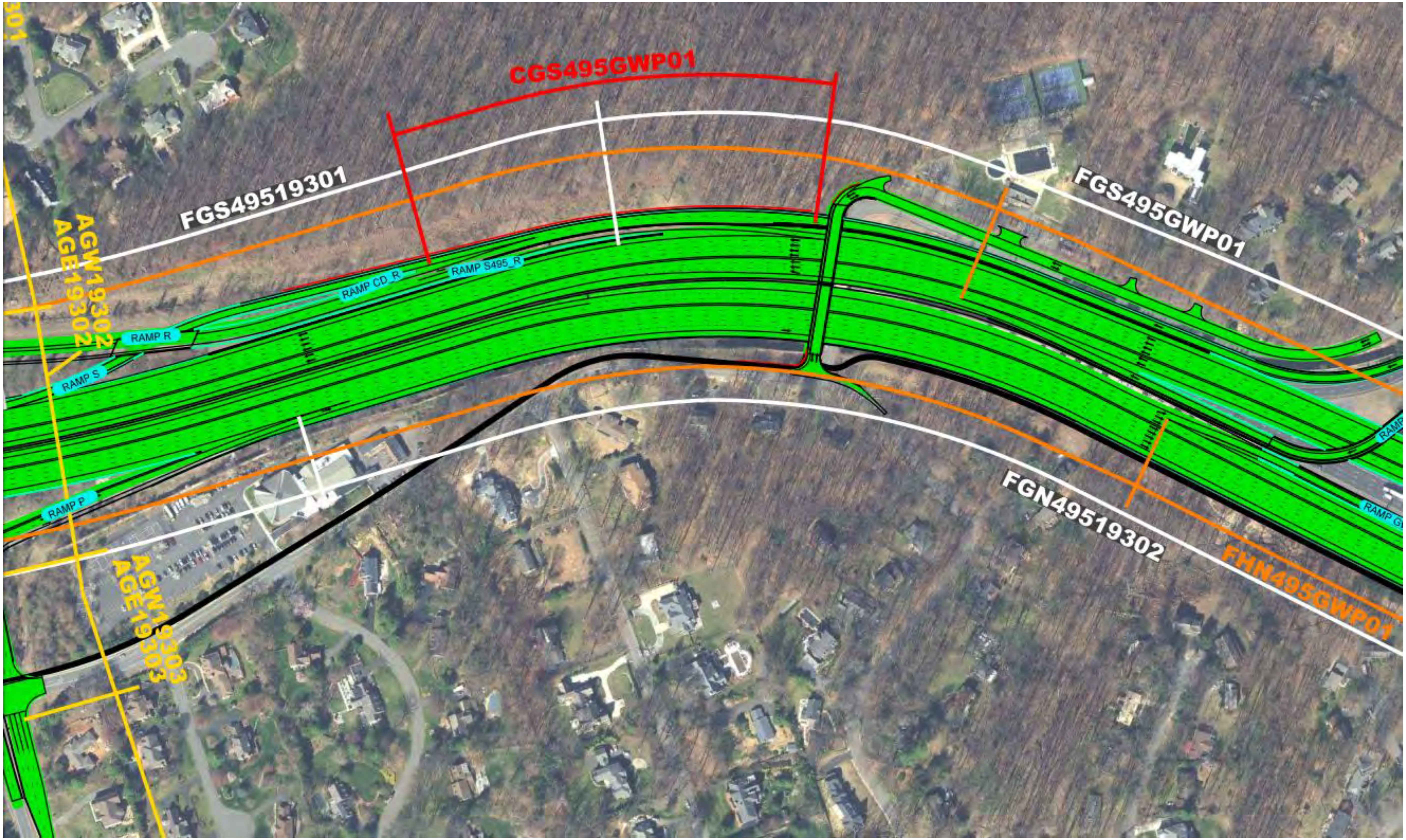
CGS49526701
FGS49526706
FHS49526702
FGS49526702
AGWJBR03
AGEJBR01
RAMP G6
RAMP G7
RAMP G8
RAMP XG
RAMP S495_E2-XG
RAMP E4
RAMP E4-E2-XG
RAMP N
RAMP J
RAMP M
RAMP B
RAMP A
RAMP C
RAMP GX
RAMP N495_CD
RAMP D2_N495
RAMP E3_N495
RAMP G9/G3_CD
RAMP E1
RAMP E1 GX_E3
RAMP E3
RAMP N495_D4
RAMP D4_G2/G9
RAMP G10
RAMP G9
RAMP CD
RAMP G4
RAMP E2
RAMP D2_G4
RAMP DTR_E1
RAMP G3
RAMP D2
RAMP DTR_G4
RAMP E2_G4
FHN49526704
FHN49526703
FHN49526702
FGN49526702
CGN49512302
AGWJBR02
AGEJBR02
FGE26749507
FGW26749501

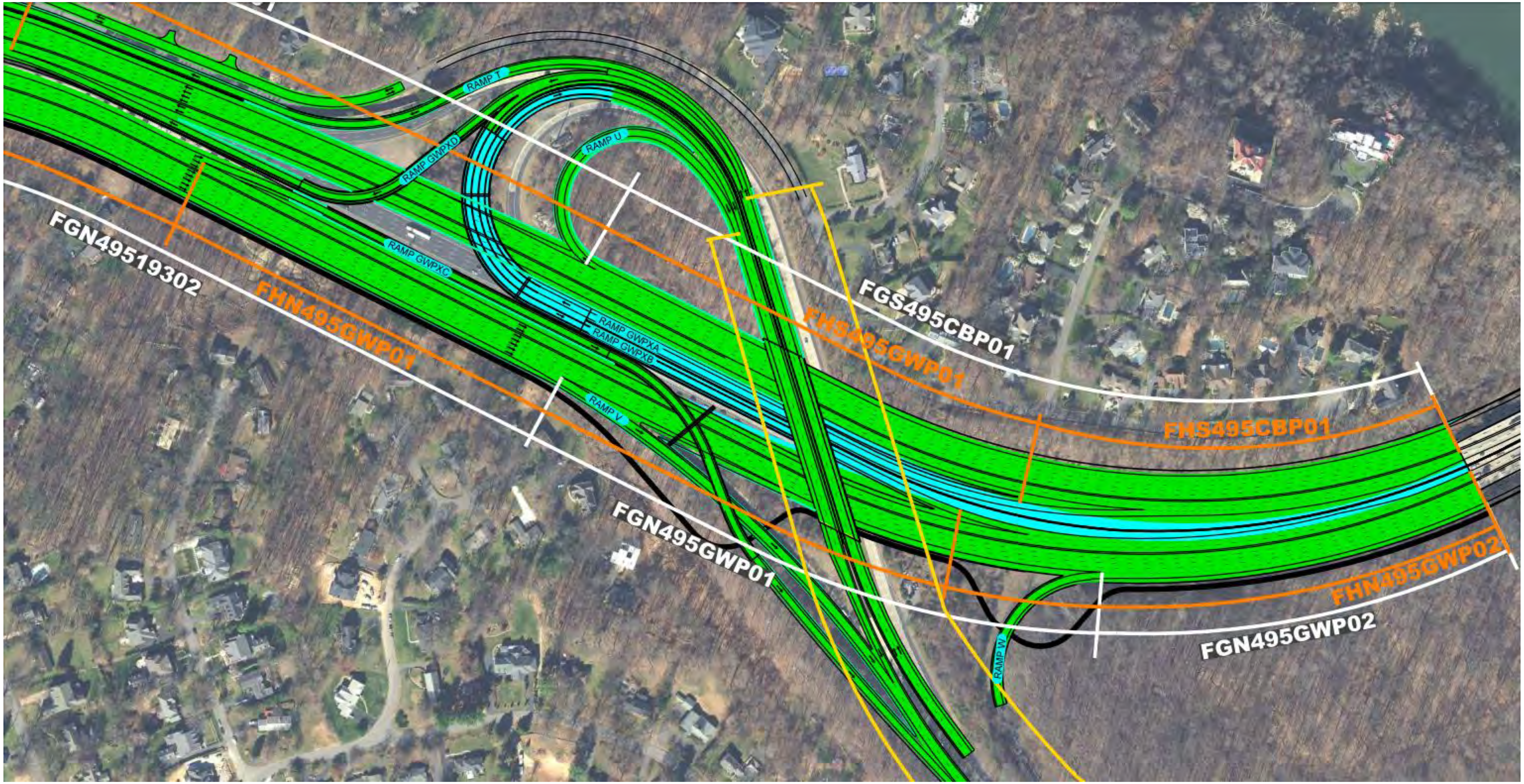

FGS49526704
FGS49526703
FGS49526702
FGS49526701
FHS49526701
RAMP S495_E2-XG
RAMP G5
RAMP G1
RAMP E4
RAMP E4-E2-XG
RAMP G9/G3_CD
RAMP E3_N495
RAMP G2
RAMP G9
RAMP E3
RAMP D4_G2/G9
RAMP G10
FGW26749501
FHN49526704
FGN49526703
CGN49526701
CGN49526702



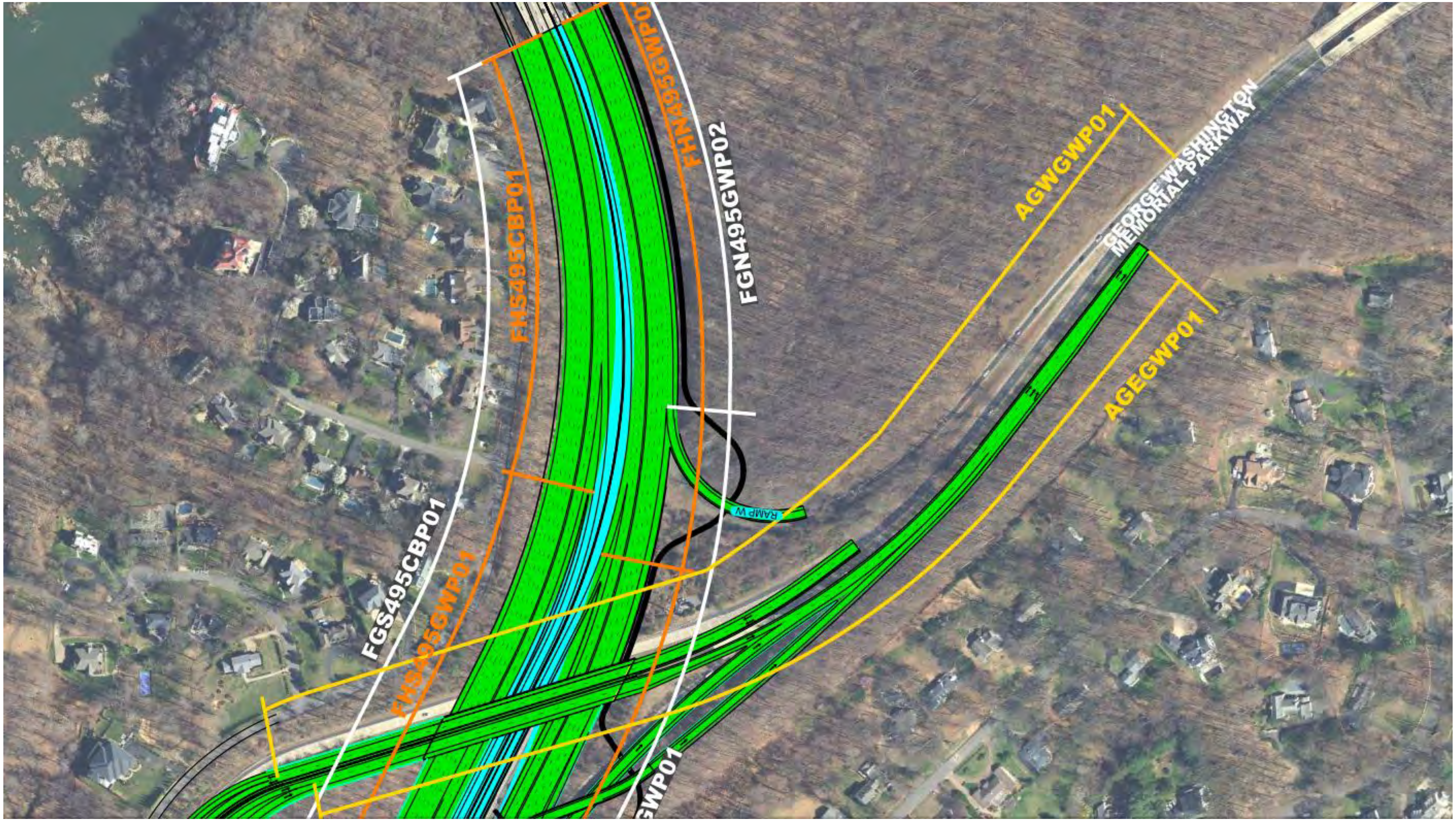
FGS49519303
FHN49526705
FGN49526704
AGW73801
AGE73801


FHS49519301
FGS49519302
FGN49519301
AGW19302
AGE19302
AGW19303
AGE19303
RAMP R
RAMP S
RAMP Q
RAMP P
RAMP O
BALLS HILL RD
AGSBHR01
AGNBHR01

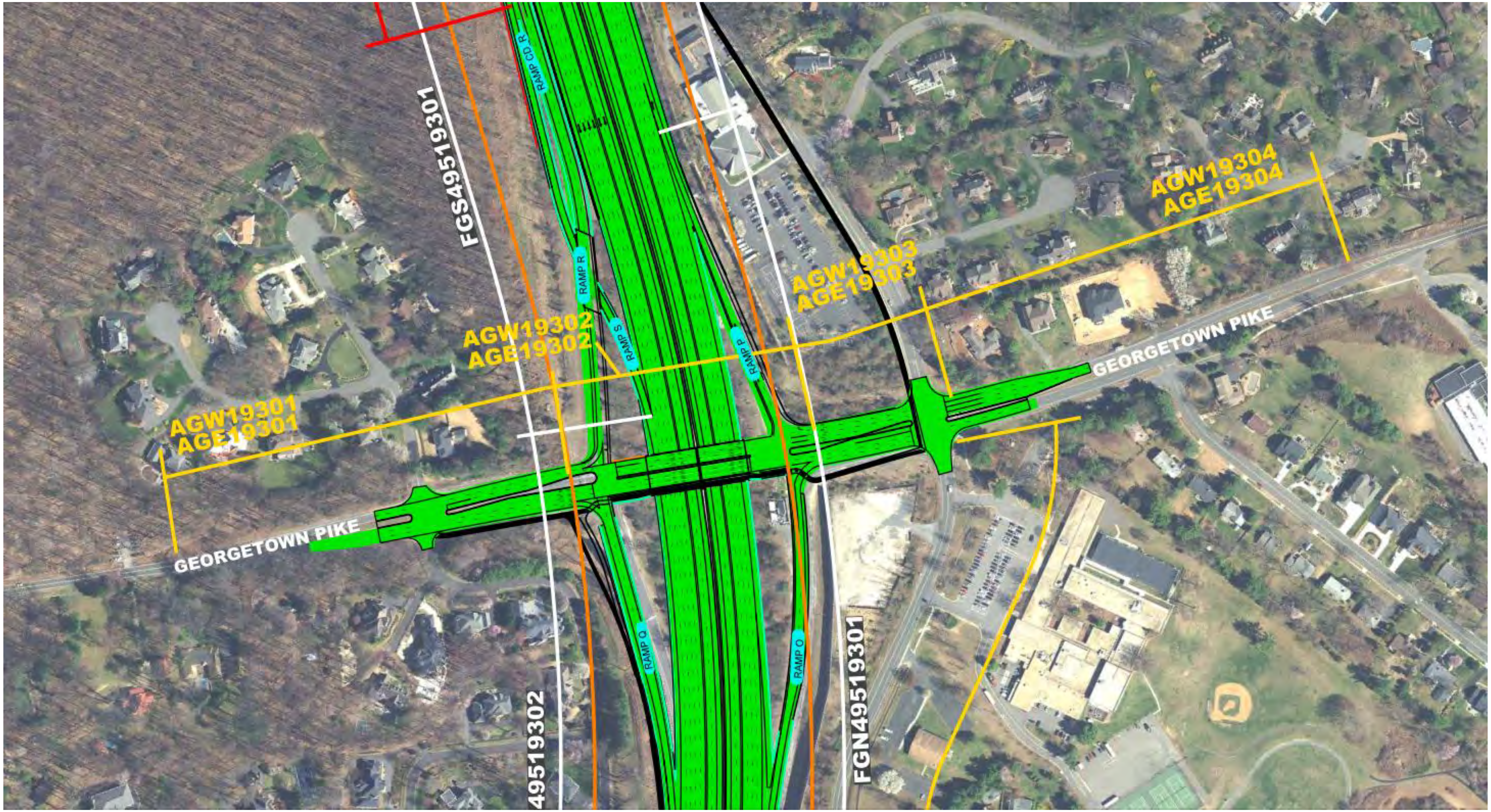

CGS495GWP01
FGS49519301
FGS495GWP01
AGW19302
AGE19302
RAMP CD_R
RAMP S495_R
RAMP R
RAMP S
RAMP P
AGW19303
AGE19303
FGN49519302
FHN495GWP01
RAMP G

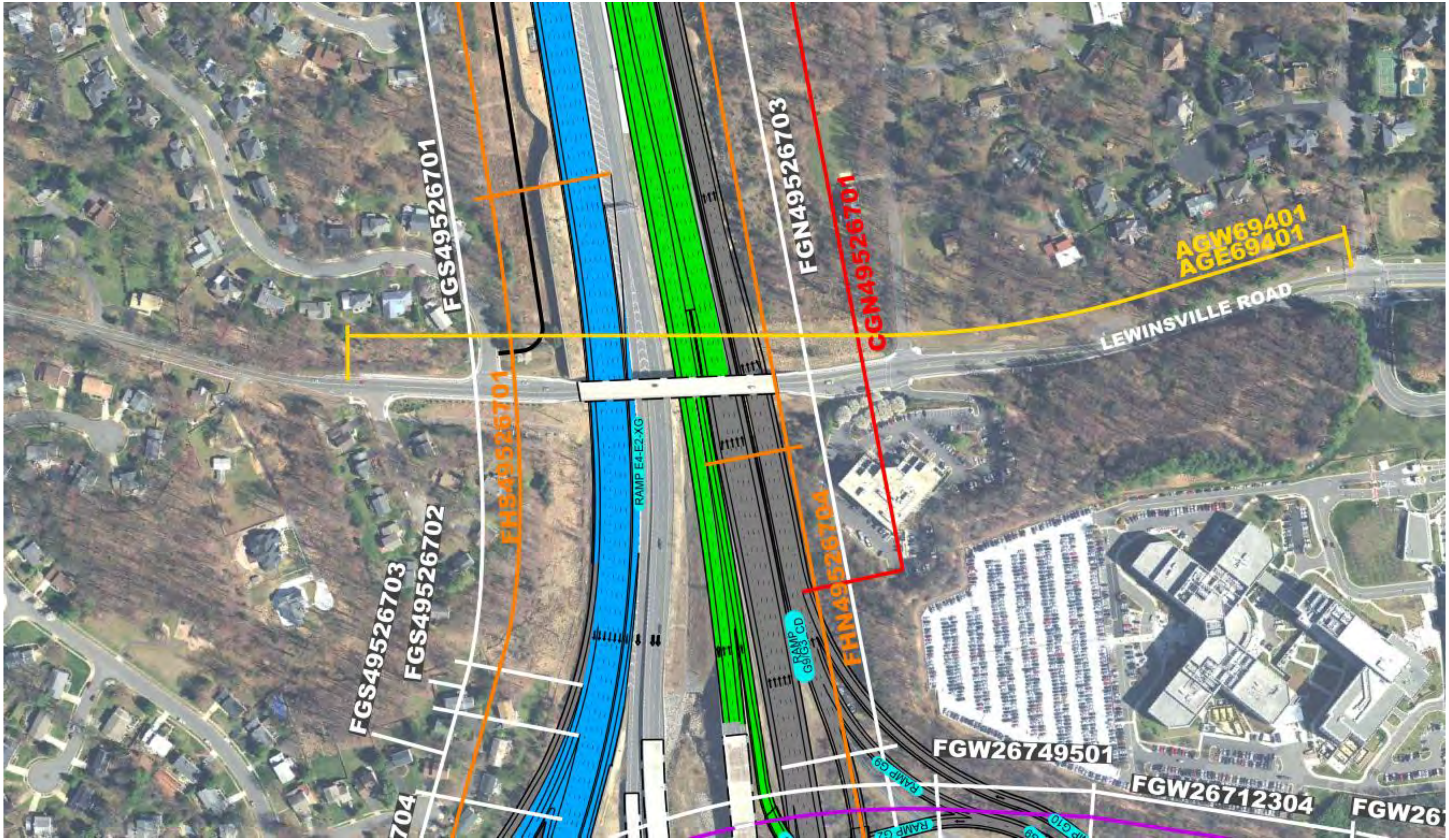


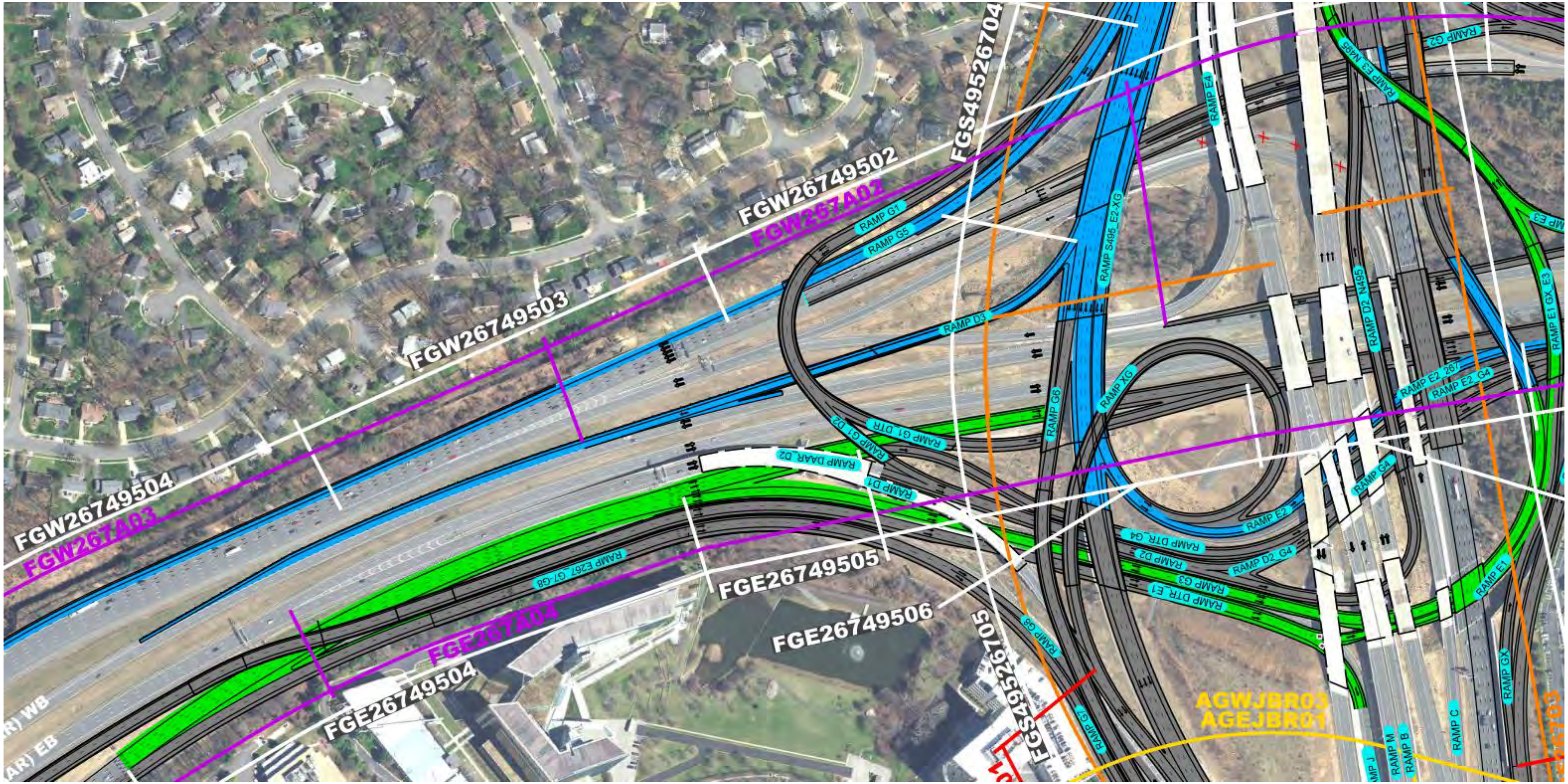
FGN49519302
FHN495GWP01
RAMP T
RAMP U
RAMP GWPXD
RAMP GWPXC
RAMP GWPXA
RAMP GWPXB
RAMP V
RAMP W
FGS495CBP01
FHS495GWP01
FHS495CBP01
FGN495GWP01
FHN495GWP02
FGN495GWP02

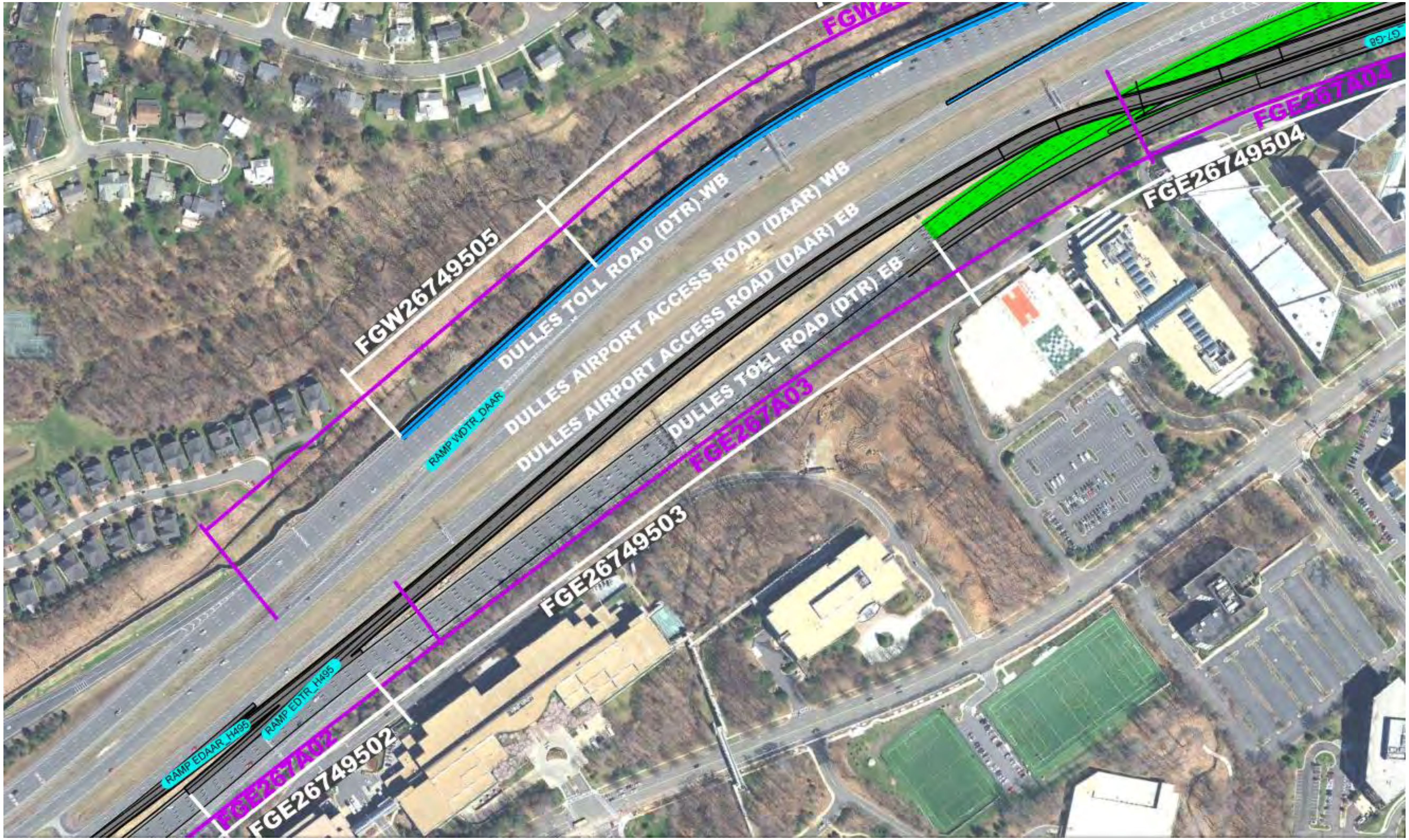


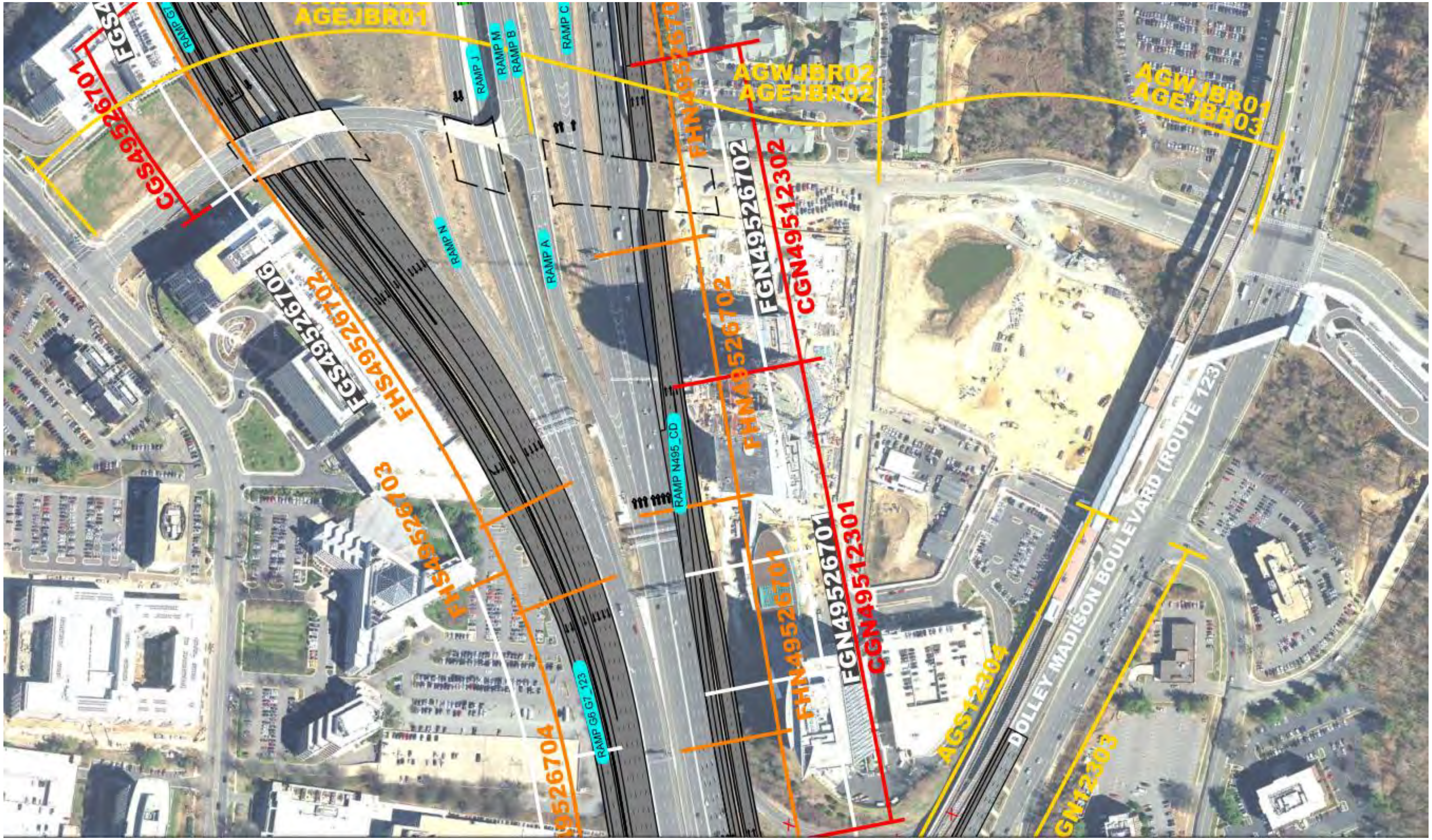
FGS495CBP01
FHS495CBP01
FHN495GWP02
FGN495GWP02
AGWGWP01
GEORGE WASHINGTON
MEMORIAL PARKWAY
AGEGWP01
RAMP W
FGS495CBP01
FHS495GWP01
GWP01


FGS49519301
RAMP CD R
RAMP R
RAMP S
RAMP P
RAMP Q
RAMP O
AGW19301
AGE19301
AGW19302
AGE19302
AGW19303
AGE19303
AGW19304
AGE19304
GEORGETOWN PIKE
GEORGETOWN PIKE
49519302
FGN49519301

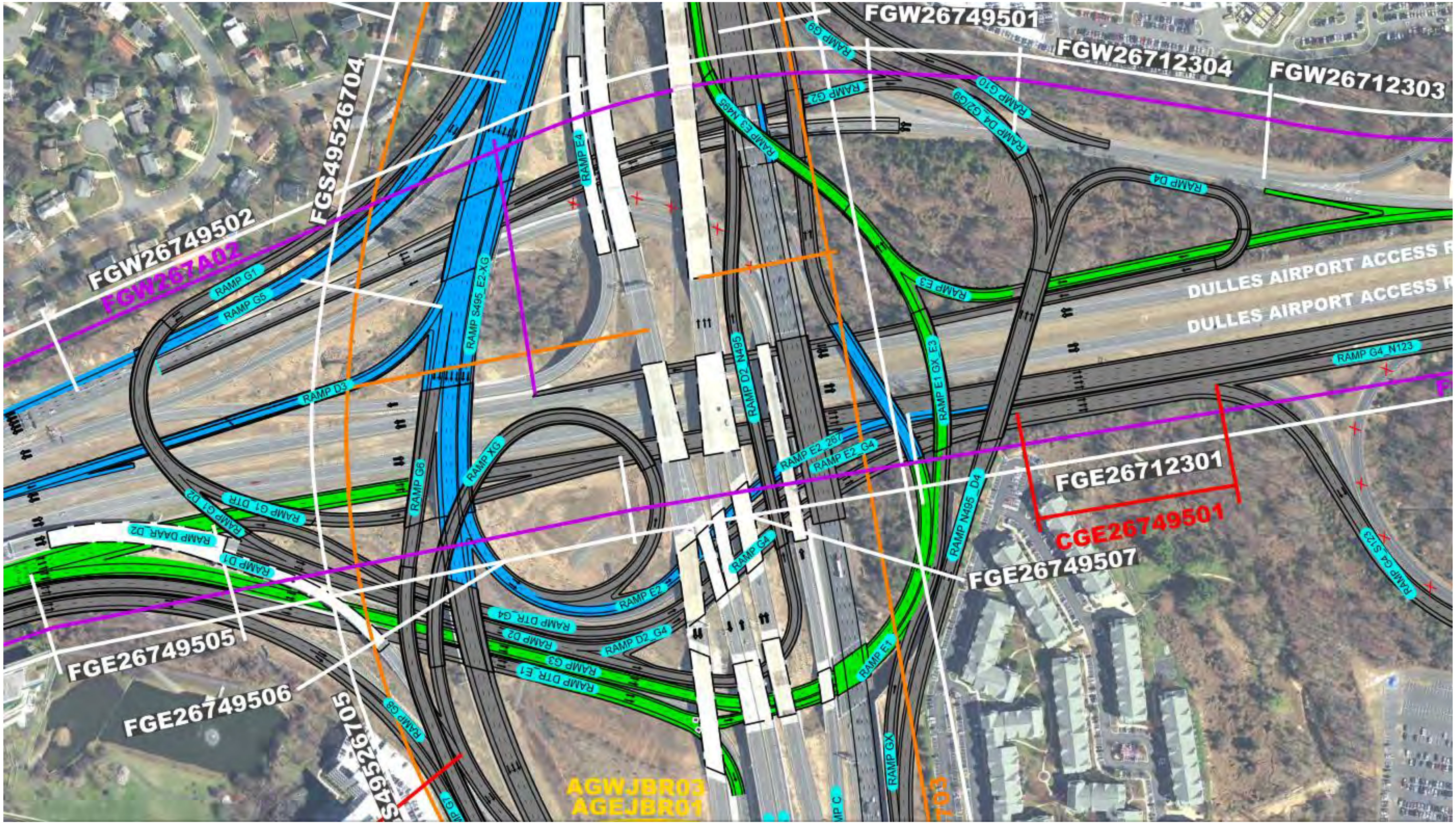

FGS495267O1
FGN495267O3
CGN495267O1
AGW69401
AGE69401
LEWINSVILLE ROAD
FHS495267O1
RAMP E4-E2-XG
FHN495267O4
FGS495267O3
FGS495267O2
RAMP G9G3 CD
FHN495267O4
FGW26749501
FGW26712304
RAMP G9

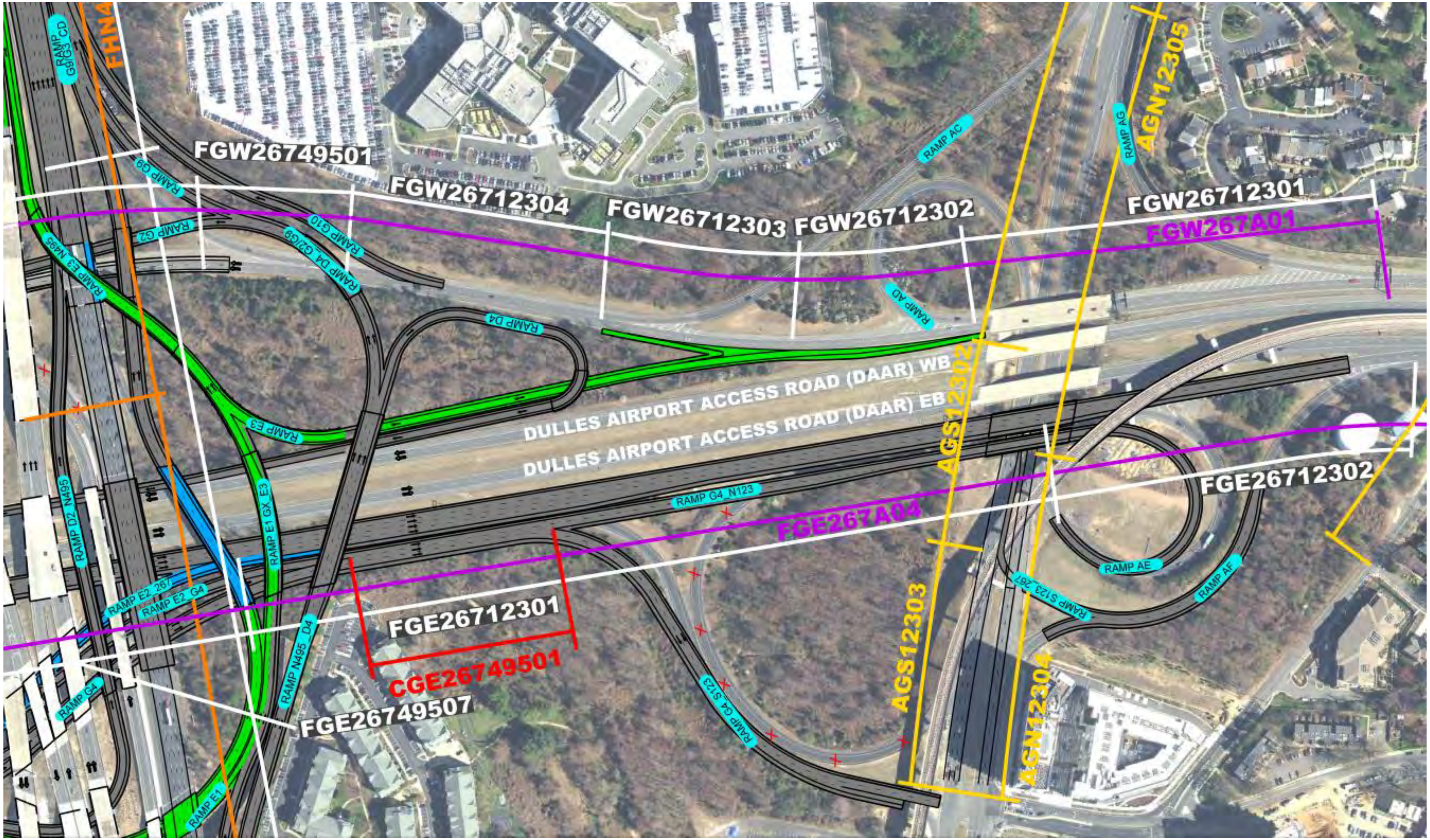

FGW26749502
FGW267A02
FGW26749503
FGW26749504
FGW267A03
FGS49526704
FGE26749505
FGE26749506
FGE267A04
FGE26749504
FGS49526705
AGWJBR03
AGEJBR01
RAMP G1
RAMP G5
RAMP D3
RAMP S495_E2-XG
RAMP E4
RAMP E3_N495
RAMP G2
RAMP E3
RAMP D2_N495
RAMP E1 GX_E3
RAMP E2_267
RAMP E2_G4
RAMP XG
RAMP G6
RAMP G1_DTR
RAMP DAAR_D2
RAMP D1
RAMP E267_G7-G8
RAMP E2
RAMP G4
RAMP DTR_G4
RAMP D2
RAMP D2_G4
RAMP G3
RAMP DTR_E1
RAMP E1
RAMP G8
RAMP G7
RAMP GX
RAMP C
RAMP M
RAMP B
RAMP J
(AR) WB
(AR) EB


FGW26749505
DULLES TOLL ROAD (DTR) WB
DULLES AIRPORT ACCESS ROAD (DAAR) WB
DULLES AIRPORT ACCESS ROAD (DAAR) EB
DULLES TOLL ROAD (DTR) EB
RAMP WDTR_DAAR
FGE26749504
FGE267A04
FGE267A03
FGE26749503
RAMP EDTR_H495
RAMP EDAAR_H495
FGE267A02
FGE26749502



AGEJBR01
AGWJBR02
AGEJBR02
AGWJBR01
AGEJBR03
RAMP J
RAMP M
RAMP B
RAMP C
RAMP N
RAMP A
RAMP N495_CD
RAMP G6 G7 123
CGS49526701
FGS49526706
FHS49526702
FHS49526703
FHN49526702
FGN49526702
CGN49512302
FHN49526701
FGN49526701
CGN49512301
AGS12304
GN12303
DOLLEY MADISON BOULEVARD (ROUTE 123)


FGW26749501
FGW26712304
FGW26712303
FGS495526704
FGW26749502
FGW267A02
DULLES AIRPORT ACCESS R
DULLES AIRPORT ACCESS R
FGE26712301
CGE26749501
FGE26749507
FGE26749505
FGE26749506
S495526705
AGWJBR03
AGEJBR01
RAMP G1
RAMP G5
RAMP D3
RAMP E4
RAMP S495_E2-XG
RAMP XG
RAMP G6
RAMP G9
RAMP G2
RAMP G10
RAMP D4_G2/G9
RAMP D4
RAMP E3
RAMP E3_N495
RAMP D2_N495
RAMP E1_GX_E3
RAMP E2_287
RAMP E2_G4
RAMP N495_D4
RAMP G4_N123
RAMP G4_S123
RAMP G4
RAMP E2
RAMP E1
RAMP GX
RAMP G1_D2
RAMP G1_DTR
RAMP DAAR_D2
RAMP D1
RAMP DTR_G4
RAMP D2
RAMP D2_G4
RAMP G3
RAMP DTR_E1
RAMP G8



FGW26749501
FGW26712304
FGW26712303
FGW26712302
FGW26712301
FGW267A01
FHN4
RAMP G9/G3_CD
RAMP G9
RAMP G2
RAMP G10
RAMP D4_G2/G9
RAMP E3_N495
RAMP AC
RAMP AD
RAMP AG
AGN12305
RAMP D4
RAMP E3
DULLES AIRPORT ACCESS ROAD (DAAR) WB
DULLES AIRPORT ACCESS ROAD (DAAR) EB
AGS12302
RAMP D2_N495
RAMP E1 GX_E3
RAMP G4_N123
FGE267A04
FGE26712302
RAMP AE
RAMP AF
RAMP S123_267
AGS12303
FGE26712301
CGE26749501
RAMP E2_267
RAMP E2_G4
RAMP N495_D4
RAMP G4
FGE26749507
RAMP G4_S123
AGN12304
RAMP E1

Appendix L: Alternative Mitigation Measures Response

COMMONWEALTH of VIRGINIA

DEPARTMENT OF TRANSPORTATION
1401 EAST BROAD STREET
RICHMOND, VIRGINIA 23219-2000

Stephen C. Brich, P.E.
COMMISSIONER

MEMORANDUM

DATE: September 13, 2019

TO: Josh Kozlowski

FROM: Abi Lerner, PE

PROJECT: UPC 113414 - I-495 Express Lanes Northern Extension Study

SUBJECT: HB 2025 Form Response

The 2009 General Assembly passed Chapter 120 (HB 2577, as amended by HB2025), which amends the Code of Virginia by adding in Article 15 of Chapter 1 of Title 33.1 a section numbered 33.1-223.2:21 (Effective October 1, 2014 Title § 33.2-276), relating to highway noise abatement.

House Bill 2025 States: Requires that whenever the Commonwealth Transportation Board or the Department plan for or undertake any highway construction or improvement project and such project includes or may include the requirement for the mitigation of traffic noise impacts, first consideration should be given to the use of noise reducing design and low noise pavement materials and techniques in lieu of construction of noise walls or sound barriers. Vegetative screening, such as the planting of appropriate conifers, in such a design would be utilized to act as a visual screen if visual screening is required.

In an effort to honor the intent of HB 2025 we are asking for your input (per Chapter VI of Materials Division's Manual of Instruction and Section 2B-3 Determination of Roadway Design of the VDOT Road Design manual (pages 2B-5 and 2B-6)). As part of the Noise Technical Report and technical files, we are seeking your professional opinion by providing comments for the project noted above. Please distribute this memorandum to the appropriate District staff and combine all responses into one response.

Should you have any questions, please contact me at (804) 371-6829. Thank you for your time and consideration regarding this request.

Comment: Is noise reducing design feasible in lieu of construction of noise walls or sound barriers? For example, the roadway alignment can be shifted away from noise sensitive receptors or the roadway can be placed in deep cut? (Location & Design to address)

Response: Noise reduction design is to a large extent not feasible. The project encompasses widening to accommodate an extension of the Express Lanes on I-495 along the existing alignment. This is a constrained environment and there are no feasible options to deviate from the existing alignment or introduce deep cuts for the roadway widening. However, wherever possible, roadway elements may be adjusted to reduce noise impacts.

Comment: Can the project support the use of low noise pavement in lieu of construction of noise walls or sound barriers? (Materials Division to address)

Response: The Virginia Department of Transportation is not authorized by the Federal Highway Administration to use "quiet pavement" at this time as a form of noise mitigation. Upon completion of the Quiet Pavement Pilot Program and approval from FHWA, the use of "quiet pavement" will be given additional consideration. (Virginia Department of Transportation)

Comment: Can landscaping be utilized to act as a visual screen if visual screening is required? (Location & Design to address)

Response: Landscaping may be utilized as a visual screen at selected locations if required. The design team will evaluate options where visual screening through landscaping may be accommodated.

Appendix M: Predicted Noise Barrier Insertion Loss (Table)

Appendix M: Predicted Noise Barrier Insertion Loss (Build Alternative)

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors	Predicted Noise Levels L_{eq} (dB(A))		Predicted Insertion Loss*
				Build Alternative (2045) No Barrier	Build Alternative (2045) With Barrier	
Barrier C						
C13	B	Residential	1	62	57	5
C16	B	Residential	1	59	56	3
C17	B	Residential	1	67	58	9
C19	B	Residential	1	59	56	3
C45	B	Residential	1	68	61	8
C46	C	Recreational	1	69	60	10
C47	C	Recreational	1	70	60	11
C48	C	Recreational	1	73	58	15
C49	C	Recreational	1	74	57	16
C50	C	Recreational	1	73	57	16
C51	C	Recreational	1	72	58	14
C52	C	Recreational	1	72	60	12
C53	C	Recreational	1	68	59	9
C54	C	Recreational	1	65	60	5
C55	C	Recreational	1	64	63	1
Barrier G						
G01	B	Residential	1	57	57	0
G02	B	Residential	1	58	57	1
G03	B	Residential	1	62	59	4
G04	B	Residential	1	66	60	6
G05	B	Residential	1	67	61	6
G06	B	Residential	1	66	62	5
G07	B	Residential	1	57	56	1
G08	B	Residential	1	60	58	2
G09	B	Residential	1	60	58	2
Barrier O						
O01	C	Recreational	1	69	62	7
O02	C	Recreational	1	64	57	7
O03	C	Recreational	1	71	65	6
O09	C	Recreational	1	59	54	5

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors	Predicted Noise Levels L_{eq} (dB(A))		Predicted Insertion Loss*
				Build Alternative (2045) No Barrier	Build Alternative (2045) With Barrier	
O10	C	Recreational	1	54	50	4
O11	C	Recreational	1	65	60	6
O12	C	Recreational	1	60	56	5
O13	C	Recreational	1	57	52	6
O14	C	Recreational	1	70	61	9
O15	C	Recreational	1	63	56	8
O16	C	Recreational	1	59	52	7
O17	C	Recreational	1	63	55	8
O18	C	Recreational	1	57	50	7
O19	C	Recreational	1	71	66	6
O20	C	Recreational	1	70	63	8
Barrier S						
K01	B	Residential	1	70	70	0
K02	B	Residential	1	69	69	0
K03	B	Residential	1	65	65	0
S01	B	Residential	1	67	64	4
S02	B	Residential	1	67	67	0
Barrier U						
U01B	B	Residential	1	70	53	18
U01C	B	Residential	1	70	55	16
U01D	B	Residential	1	70	60	11
U02C	B	Residential	2	70	56	15
U02D	B	Residential	2	70	61	9
U03C	B	Residential	2	70	57	13
U03D	B	Residential	2	70	62	9
U04C	B	Residential	2	62	53	9
U04D	B	Residential	2	63	60	3
U05C	B	Residential	1	70	63	7
U05D	B	Residential	1	71	65	5
U10C	B	Residential	1	68	53	15
U10D	B	Residential	1	68	61	7
U10E	B	Residential	1	69	66	3
U10F	B	Residential	1	69	67	2

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors	Predicted Noise Levels L_{eq} (dB(A))		Predicted Insertion Loss*
				Build Alternative (2045) No Barrier	Build Alternative (2045) With Barrier	
U10G	B	Residential	1	69	67	1
U10H	B	Residential	1	69	68	1
U10I	B	Residential	1	69	68	1
U10J	B	Residential	1	69	68	1
U11C	B	Residential	2	63	53	11
U11D	B	Residential	2	64	60	4
U11E	B	Residential	2	64	63	2
U11F	B	Residential	2	65	63	1
U11G	B	Residential	2	65	64	1
U11H	B	Residential	2	65	64	1
U11I	B	Residential	2	65	64	1
U11J	B	Residential	2	65	64	1

(XX)	Indicates noise impact (NAC Only)
(XX)	Indicates impacted and benefit of 5 to 7 dB(A)
(XX)	Indicates impacted and benefit of 7 dB(A) or more
(XX)	Indicates not impacted and benefit of 5 dB(A) or more
*	Predicted IL may be different due to rounding

Appendix N: In-Kind Noise Barrier Extension Results

Appendix N: In-Kind Noise Barrier Extension Results

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors	Predicted Noise Levels L_{eq} (dB(A))		Predicted Insertion Loss*	Predicted Noise Levels L_{eq} (dB(A))	Predicted Insertion Loss* (With In-Kind Barrier Extension / Modification)
				Build Alternative (2045) No Existing Barrier	Build Alternative (2045) With Existing Barrier		Build Alternative (2045) (Existing Barrier With In-Kind Extension / Modification)	
Barrier 9 (EXT)								
D01	B	Residential	1	57	57	0	57	0
D02	B	Residential	1	61	61	0	61	0
D03	B	Residential	1	55	55	0	55	1
D04	B	Residential	1	51	51	0	50	1
D05	B	Residential	1	63	63	0	63	0
D06	B	Residential	1	66	66	0	60	7
D07	B	Residential	1	62	62	0	62	0
D08	B	Residential	1	63	63	0	59	4
D09	B	Residential	1	67	67	0	60	8
D10	B	Residential	1	64	64	0	63	1
D11	B	Residential	1	63	62	1	59	5
D12	B	Residential	1	51	51	0	51	0
D13	B	Residential	1	62	60	3	57	5
D14	B	Residential	1	57	57	0	57	1
D15	B	Residential	1	57	57	1	56	1
D16	B	Residential	1	56	55	2	54	2
D17	B	Residential	1	52	48	4	49	3
D18	B	Residential	1	56	52	3	51	4
D19	B	Residential	1	59	56	3	54	5
D20	B	Residential	1	60	57	3	55	5
F01	B	Residential	1	64	61	4	58	6
F02	B	Residential	1	64	59	5	57	8
F03	B	Residential	1	63	59	4	57	7
F04	B	Residential	1	66	58	8	57	9
F05	B	Residential	1	55	53	2	52	3
F06	B	Residential	1	63	59	5	58	5
F07	B	Residential	1	70	61	10	61	10
F08	B	Residential	1	69	62	7	61	7
F09	B	Residential	1	64	58	6	58	6
F10	B	Residential	1	68	61	7	61	7

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors	Predicted Noise Levels L_{eq} (dB(A))		Predicted Insertion Loss*	Predicted Noise Levels L_{eq} (dB(A))	Predicted Insertion Loss* (With In-Kind Barrier Extension / Modification)
				Build Alternative (2045) No Existing Barrier	Build Alternative (2045) With Existing Barrier		Build Alternative (2045) (Existing Barrier With In-Kind Extension / Modification)	
F11	B	Residential	1	76	63	12	63	12
F12	B	Residential	1	75	63	12	63	12
F13	B	Residential	1	72	61	10	61	10
F14	B	Residential	1	67	59	8	59	8
F15	B	Residential	1	67	57	10	57	10
F16	B	Residential	1	75	62	13	62	13
F17	B	Residential	1	70	59	11	59	11
F18	B	Residential	1	64	54	10	54	10
F19	B	Residential	1	76	63	13	63	13
F20	B	Residential	1	69	56	13	56	13
F21	B	Residential	1	70	58	12	58	12
F22	B	Residential	1	70	58	12	58	12
F23	B	Residential	1	65	55	11	55	11
F24	B	Residential	1	67	56	11	56	11
F25	B	Residential	1	65	56	9	56	9
F26	B	Residential	1	65	57	8	57	8
F27	B	Residential	1	71	60	11	60	11
F28	B	Residential	1	66	60	6	60	6
F29	B	Residential	1	73	62	12	62	12
F30	B	Residential	1	63	57	6	57	6
F31	B	Residential	1	61	60	1	60	1
F32	B	Residential	1	63	62	2	62	2
F33	B	Residential	1	56	55	2	55	2
F34	B	Residential	1	65	63	2	63	2
F36	B	Residential	1	58	56	1	56	1
F37	B	Residential	1	63	62	1	62	1
F48	B	Residential	1	58	55	3	53	5
F49	B	Residential	1	63	53	11	53	11
F50	B	Residential	1	64	53	11	53	11
F51	B	Residential	1	66	54	12	54	12
F52	B	Residential	1	61	52	9	52	9
F53	B	Residential	1	64	56	7	56	7
F54	B	Residential	1	59	55	5	55	5
F55	B	Residential	1	59	55	4	55	4
F56	B	Residential	1	56	53	3	53	3

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors	Predicted Noise Levels L_{eq} (dB(A))		Predicted Insertion Loss*	Predicted Noise Levels L_{eq} (dB(A))	Predicted Insertion Loss* (With In-Kind Barrier Extension / Modification)
				Build Alternative (2045) No Existing Barrier	Build Alternative (2045) With Existing Barrier		Build Alternative (2045) (Existing Barrier With In-Kind Extension / Modification)	
F57	B	Residential	1	57	54	3	54	3
Barrier 10 (EXT)								
C20	B	Residential	1	54	53	1	51	3
C21	B	Residential	1	62	60	2	55	7
C22	B	Residential	1	54	53	1	51	3
C23	B	Residential	1	58	56	2	54	5
C24	B	Residential	1	68	63	4	60	8
C25	B	Residential	1	66	60	5	58	8
C26	B	Residential	1	71	64	7	62	9
C27	B	Residential	1	55	52	3	51	4
E01	B	Residential	1	64	59	5	58	6
E02	B	Residential	1	75	65	10	63	12
E03	B	Residential	1	69	62	7	60	9
E04	C	Recreational	1	64	61	4	58	6
E05	C	Recreational	1	64	60	5	58	6
E06	C	Recreational	1	66	62	4	60	6
E07	C	Recreational	1	70	65	4	63	6
E08	C	Recreational	1	68	64	4	62	6
E09	C	Recreational	1	57	56	1	55	2
E10	C	Recreational	1	74	68	6	65	8
E11	C	Recreational	1	65	62	3	61	4
E12	C	Recreational	1	61	59	3	57	4
E13	C	Recreational	1	72	67	5	65	7
E14	C	Recreational	1	70	66	4	64	6
E15	C	Recreational	1	62	60	2	58	4
E16	C	Recreational	1	60	59	1	59	1
E17	C	Recreational	1	65	64	1	60	5
E18	C	Recreational	1	61	60	0	60	1
E19	C	Recreational	1	66	66	0	61	5
E20	C	Recreational	1	68	67	1	62	5
E21	C	Recreational	1	68	68	0	62	6
E22	C	Recreational	1	69	69	0	63	6
E23	C	Recreational	1	70	70	0	62	8
E24	C	Recreational	1	69	69	0	64	5
E25	C	Recreational	1	60	60	0	58	2

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors	Predicted Noise Levels L_{eq} (dB(A))		Predicted Insertion Loss*	Predicted Noise Levels L_{eq} (dB(A))	Predicted Insertion Loss* (With In-Kind Barrier Extension / Modification)
				Build Alternative (2045) No Existing Barrier	Build Alternative (2045) With Existing Barrier		Build Alternative (2045) (Existing Barrier With In-Kind Extension / Modification)	
E26	C	Recreational	1	57	57	0	55	2
E27	C	Recreational	1	56	56	0	55	1
E28	C	Recreational	1	65	61	3	59	6
E29	C	Recreational	1	63	60	3	58	5
E30	C	Recreational	1	56	55	1	54	2
E31	C	Recreational	1	57	55	3	53	4
E32	C	Recreational	1	66	66	0	60	6
E33	C	Recreational	1	56	56	0	55	1
E34	C	Recreational	1	57	57	1	55	2
E35	C	Recreational	1	60	57	3	56	4
E36	C	Recreational	1	61	58	3	56	5
E37	C	Recreational	1	60	58	2	56	4
E38	C	Recreational	1	55	55	0	54	1
E39	C	Recreational	1	56	56	0	55	1
E40	C	Recreational	1	55	55	0	54	1
E41	C	Recreational	1	54	54	0	53	1
E42	C	Recreational	1	53	52	0	51	1
E43	C	Recreational	1	51	51	0	50	1
E44	C	Recreational	1	50	50	0	49	2
E45	C	Recreational	1	65	61	4	59	6
E46	C	Recreational	1	64	61	3	59	5
E47	C	Recreational	1	63	60	3	58	5
E48	C	Recreational	1	76	76	0	65	11
E49	C	Recreational	1	78	78	0	65	13
E50	C	Recreational	1	78	78	0	63	15
E51	C	Recreational	1	77	77	0	62	14
E52	C	Recreational	1	74	74	0	61	13
E53	C	Recreational	1	69	69	0	60	9
E54	C	Recreational	1	67	67	0	59	8
C34	C	Recreational	1	65	65	0	58	7
C35	C	Recreational	1	63	63	0	57	5
C36	C	Recreational	1	60	60	0	56	4
C37	C	Recreational	1	58	58	0	55	4
C38	C	Recreational	1	57	57	0	54	4
C39	C	Recreational	1	56	56	0	53	3

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors	Predicted Noise Levels L_{eq} (dB(A))		Predicted Insertion Loss*	Predicted Noise Levels L_{eq} (dB(A))	Predicted Insertion Loss* (With In-Kind Barrier Extension / Modification)
				Build Alternative (2045) No Existing Barrier	Build Alternative (2045) With Existing Barrier		Build Alternative (2045) (Existing Barrier With In-Kind Extension / Modification)	
C40	C	Recreational	1	55	55	0	53	2
Barrier 13B (EXT)								
J01	B	Residential	1	72	67	5	60	12
J02	B	Residential	1	74	67	7	61	13
J03	B	Residential	1	71	66	5	64	8
J04	B	Residential	1	71	67	4	65	6
J05	B	Residential	1	74	65	9	63	10
J06	B	Residential	1	61	55	6	54	7
J07	B	Residential	1	72	64	8	64	8
J08	B	Residential	1	65	60	5	59	5
J09	B	Residential	1	63	59	4	59	4
J10	B	Residential	1	63	60	3	59	4
J11	B	Residential	1	74	65	9	65	9
J12	B	Residential	1	63	60	3	60	3
J13	B	Residential	1	62	60	3	59	3
J14	B	Residential	1	74	64	10	64	10
J15	B	Residential	1	62	60	2	59	2
J16	B	Residential	1	73	63	10	63	10
J17	B	Residential	1	60	58	2	57	3
J18	B	Residential	1	61	59	1	59	2
J19	B	Residential	1	73	63	10	63	10
J20	B	Residential	1	61	59	2	59	2
J21	B	Residential	1	73	63	10	63	10
J22	B	Residential	1	60	55	5	54	5
J23	B	Residential	1	73	63	10	63	10
J24	B	Residential	1	72	62	10	62	10
J25	B	Residential	1	63	53	10	53	10
J26	B	Residential	1	70	59	11	59	11
J27	B	Residential	1	67	56	11	56	11
J28	B	Residential	1	65	54	11	54	11
J29	B	Residential	1	66	55	11	55	11
J30	B	Residential	1	68	57	11	57	11
J31	B	Residential	1	71	60	11	60	11
J32	B	Residential	1	63	56	7	56	7
J33	B	Residential	1	65	56	9	56	9

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors	Predicted Noise Levels L_{eq} (dB(A))		Predicted Insertion Loss*	Predicted Noise Levels L_{eq} (dB(A))	Predicted Insertion Loss* (With In-Kind Barrier Extension / Modification)
				Build Alternative (2045) No Existing Barrier	Build Alternative (2045) With Existing Barrier		Build Alternative (2045) (Existing Barrier With In-Kind Extension / Modification)	
J34	B	Residential	1	74	63	11	63	11
J35	B	Residential	1	70	59	11	59	11
J36	B	Residential	1	65	55	10	55	10
J37	B	Residential	1	68	57	11	57	11
J38	B	Residential	1	69	59	11	59	11
J39	B	Residential	1	65	60	4	60	4
J40	B	Residential	1	68	65	3	65	3
J41	B	Residential	1	60	58	2	58	2
J42	B	Residential	1	62	53	9	53	9
J43	B	Residential	1	62	59	3	59	3
J44	B	Residential	1	64	54	10	54	10
J45	B	Residential	1	59	53	6	53	6
J46	B	Residential	1	61	54	7	54	7
J47	B	Residential	1	62	53	10	53	10
J48	B	Residential	1	64	53	11	53	11
J49	B	Residential	1	60	55	4	55	5
J50	B	Residential	1	65	59	6	58	7
AA1	B	Residential	1	62	62	1	62	1
AA2	B	Residential	1	65	61	4	59	6
AA3	B	Residential	1	65	62	4	60	6
AA4	B	Residential	1	69	65	4	63	6
AA5	B	Residential	1	66	66	1	65	2
AA6	B	Residential	1	71	68	3	65	6
AA7	B	Residential	1	70	69	2	66	5
Barrier 12A2 (EXT)								
Q01A	B	Residential	2	65	65	0	57	9
Q01B	B	Residential	2	66	66	0	59	8
Q01C	B	Residential	2	67	67	0	62	5
Q01D	B	Residential	2	67	67	0	63	5
Q02A	B	Residential	2	63	63	0	56	8
Q02B	B	Residential	2	64	64	0	57	7
Q02C	B	Residential	2	65	65	0	61	4
Q02D	B	Residential	2	65	65	0	62	3
Q03A	B	Residential	2	62	62	0	55	7
Q03B	B	Residential	2	63	63	0	57	6

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors	Predicted Noise Levels L_{eq} (dB(A))		Predicted Insertion Loss*	Predicted Noise Levels L_{eq} (dB(A))	Predicted Insertion Loss* (With In-Kind Barrier Extension / Modification)
				Build Alternative (2045) No Existing Barrier	Build Alternative (2045) With Existing Barrier		Build Alternative (2045) (Existing Barrier With In-Kind Extension / Modification)	
Q03C	B	Residential	2	63	63	0	60	3
Q03D	B	Residential	2	64	64	0	61	3
Q05A	B	Residential	2	63	62	1	55	8
Q05B	B	Residential	2	65	64	1	58	6
Q05C	B	Residential	2	68	66	2	59	9
Q05D	B	Residential	2	69	68	2	61	9
Q06A	B	Residential	2	57	56	1	50	7
Q06B	B	Residential	2	59	57	1	53	6
Q06C	B	Residential	2	63	60	3	55	8
Q06D	B	Residential	2	65	63	2	57	8
Q07A	B	Residential	2	54	54	1	49	6
Q07B	B	Residential	2	55	54	1	49	5
Q07C	B	Residential	2	58	57	1	51	7
Q07D	B	Residential	2	60	59	1	53	8
Q11A	B	Residential	2	59	58	1	53	7
Q11B	B	Residential	2	62	61	1	55	7
Q11C	B	Residential	2	66	63	2	56	9
Q11D	B	Residential	2	67	65	2	59	9
Q12A	B	Residential	2	55	55	0	50	5
Q12B	B	Residential	2	58	58	0	52	6
Q12C	B	Residential	2	60	60	0	54	6
Q12D	B	Residential	2	61	61	0	55	7
Q13A	B	Residential	2	53	52	0	49	3
Q13B	B	Residential	2	55	55	0	51	5
Q13C	B	Residential	2	57	57	0	52	5
Q13D	B	Residential	2	59	58	0	53	5
Q18A	B	Residential	1	60	54	6	54	7
Q18B	B	Residential	1	64	56	8	55	10
Q18C	B	Residential	1	70	59	11	57	13
Q18D	B	Residential	1	71	61	10	59	12
Q19A	B	Residential	1	61	53	9	53	8
Q19B	B	Residential	1	65	53	12	53	12
Q19C	B	Residential	1	70	56	14	56	14
Q19D	B	Residential	1	71	58	12	58	12
Q20	C	Recreational	1	60	52	9	51	9

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors	Predicted Noise Levels L_{eq} (dB(A))		Predicted Insertion Loss*	Predicted Noise Levels L_{eq} (dB(A))	Predicted Insertion Loss* (With In-Kind Barrier Extension / Modification)
				Build Alternative (2045) No Existing Barrier	Build Alternative (2045) With Existing Barrier		Build Alternative (2045) (Existing Barrier With In-Kind Extension / Modification)	
Q21A	B	Residential	1	61	52	9	51	10
Q21B	B	Residential	1	68	53	14	52	16
Q21C	B	Residential	1	69	56	14	55	15
Q21D	B	Residential	1	70	59	11	59	11
Q22A	B	Residential	1	59	50	10	50	10
Q22B	B	Residential	1	65	50	15	50	15
Q22C	B	Residential	1	67	53	15	53	15
Q22D	B	Residential	1	68	57	11	57	11
Q23A	B	Residential	4	58	49	9	49	9
Q23B	B	Residential	4	63	48	14	48	14
Q23C	B	Residential	4	66	50	15	50	15
Q23D	B	Residential	4	67	54	12	54	12
Q41A	B	Residential	2	66	56	10	56	10
Q41B	B	Residential	2	72	58	14	57	15
Q41C	B	Residential	2	73	61	12	60	12
Q41D	B	Residential	2	73	66	7	65	7
Q42A	B	Residential	2	67	57	10	57	10
Q42B	B	Residential	2	72	59	13	59	14
Q42C	B	Residential	2	73	62	11	62	11
Q42D	B	Residential	2	73	68	6	67	6
Q43A	B	Residential	2	69	57	12	57	12
Q43B	B	Residential	2	73	59	14	59	14
Q43C	B	Residential	2	73	63	11	63	11
Q43D	B	Residential	2	74	69	4	67	7
Q44A	B	Residential	2	67	57	10	57	10
Q44B	B	Residential	2	70	59	11	59	11
Q44C	B	Residential	2	71	62	9	62	9
Q44D	B	Residential	2	71	66	5	66	5
Q45A	B	Residential	2	69	59	10	59	10
Q45B	B	Residential	2	71	61	11	61	11
Q45C	B	Residential	2	72	64	8	64	8
Q45D	B	Residential	2	72	69	3	66	6
Q46A	B	Residential	4	69	59	10	59	10
Q46B	B	Residential	4	71	62	9	62	9
Q46C	B	Residential	4	72	65	6	65	6

Receiver Number	NAC	Land Use	No. of Represent-ative Receptors	Predicted Noise Levels L_{eq} (dB(A))		Predicted Insertion Loss*	Predicted Noise Levels L_{eq} (dB(A))	Predicted Insertion Loss* (With In-Kind Barrier Extension / Modification)
				Build Alternative (2045) No Existing Barrier	Build Alternative (2045) With Existing Barrier		Build Alternative (2045) (Existing Barrier With In-Kind Extension / Modification)	
Q46D	B	Residential	4	72	69	3	67	5
Q47A	B	Residential	4	68	59	9	59	9
Q47B	B	Residential	4	71	62	9	62	9
Q47C	B	Residential	4	72	65	7	65	7
Q47D	B	Residential	4	72	69	3	67	5
Q48A	B	Residential	3	68	58	9	58	9
Q48B	B	Residential	3	71	62	9	62	9
Q48C	B	Residential	3	72	66	6	66	6
Q48D	B	Residential	3	72	69	3	68	5

(XX)	Indicates noise impact (NAC Only)
(XX)	Indicates impacted and benefit of 5 to 7 dB(A)
(XX)	Indicates impacted and benefit of 7 dB(A) or more
(XX)	Indicates not impacted and benefit of 5 dB(A) or more
(XX)	Not considered for as benefit because roadway has line of sight with receptor
*	Predicted IL may be different due to rounding

Appendix O: Warranted, Feasible and Reasonable Worksheets

Appendix O: Warranted, Feasible and Reasonable Worksheets

VDOT Highway Traffic Noise Abatement
Warranted, Feasible, and Reasonable Worksheet

Note: Not all questions apply depending on the design phase which may cause differing answers between preliminary and final design phase. Answers to the questions may change depending on the design phase of the project.

Date:	27-Dec-19
Project No. and UPC:	113414
County:	Fairfax
District:	NOVA
Barrier System ID:	Barrier C
Community Name and/or CNE#	CNE C
Noise Abatement Category(s)	NAC B/C
Design phase:	Preliminary design

Warranted

1		Community Documentation (if applicable)	
	a.	Date community was permitted. (Per 23CFR 772 this is the date the building permit was issued).	
	b.	Date of approval for the Categorical Exclusion (CE), Record of Decision (ROD), or Finding of No Significant Impact (FONSI):	
	c.	Does the date in 1.a precede the date in 1.b? If yes, proceed to Warranted Item 2. If no, consideration of noise abatement is not warranted. Proceed to “Decision” block and answer “no” to warranted question. As the reason for this decision, state that “Community was permitted after the date of approval of CE, ROD, or FONSI, as appropriate.”	Yes
2		Criteria requiring consideration of noise abatement	
	a.	Project causes design year noise levels to approach or exceed the Noise Abatement Criteria?	Yes
	b.	Project causes a substantial noise increase of 10 dB(A) or more?	No

Feasibility

1		Impacted receptor units	
	a.	Number of impacted receptor units:	10
	b.	Number of impacted receptor units receiving 5 dB(A) or more insertion loss (IL):	10
	c.	Percentage of impacted receptor units receiving 5 dB(A) or more IL	100%
	d.	Is the percentage 50 or greater?	Yes
2		Will placement of the noise barrier cause engineering or safety conflicts, e.g drainage issues or site distance issues?	NA
3		Will placement of the noise barrier restrict access to vehicular or pedestrian travel?	NA
4		Will placement of the noise barrier conflict with existing utility locations?	NA

	Reasonableness	
1	**Surface Area (Square foot)-Benefit Factors**	
a.	Surface Area (Total square foot) of the proposed noise barrier. (ft^2)	18,793 SF
b.	Impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	10
c.	Non-impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	2
d.	Total number of benefited receptors.	12
e.	Surface Area per benefited receptor unit. (ft^2/BR)	1,566 SF/BR
f.	Is (1e) less than or equal to the maximum square feet per benefited receptor (MaxSF/BR) value of 1600?	Yes
g.	Does the barrier provide an IL of at least 7 dB(A) for at least one impacted receptor in the design year?	Yes
2	**Additional Noise Barrier Details**	
a.	Length of the proposed noise barrier. (ft)	1,036 ft
b.	Height range of the proposed noise barrier. (ft)	10-22
c.	Average height of the proposed noise barrier. (ft)	18 ft
d.	Cost per square foot. ($/$ft^2$)	$42.0
e.	Total Barrier Cost ($)	$789,306
f.	Barrier Material	NA
3	**Community Desires Related to the Barrier**	
	Do at least 50 percent of the benefited receptor unit owner(s) and renters desire the noise barrier? If yes, continue to "decision" block. If no, the barrier can be considered not to be reasonable. Proceed to “decision” block and answer “no” to reasonableness question. As the reason for this decision, state that “The majority of the impacted receptor unit owners do not desire the barrier.”	Yes

Decision	
Is the Noise Barrier(s) WARRANTED?	Yes
Is the Noise Barrier(s) FEASIBLE?	Yes
Is the Noise Barrier(s) REASONABLE?	Yes

Additional Reasons for Decision:

VDOT Highway Traffic Noise Abatement
Warranted, Feasible, and Reasonable Worksheet

Note: Not all questions apply depending on the design phase which may cause differing answers between preliminary and final design phase. Answers to the questions may change depending on the design phase of the project.

Date:	2-Sep-19
Project No. and UPC:	113414
County:	Fairfax
District:	NOVA
Barrier System ID:	Barrier 9 (EXT)
Community Name and/or CNE#	CNE D/F
Noise Abatement Category(s)	NAC B
Design phase:	Preliminary design

Warranted

1	Community Documentation (if applicable)	
a.	Date community was permitted. (Per 23CFR 772 this is the date the building permit was issued).	
b.	Date of approval for the Categorical Exclusion (CE), Record of Decision (ROD), or Finding of No Significant Impact (FONSI):	
c.	Does the date in 1.a precede the date in 1.b? If yes, proceed to Warranted Item 2. If no, consideration of noise abatement is not warranted. Proceed to “Decision” block and answer “no” to warranted question. As the reason for this decision, state that “Community was permitted after the date of approval of CE, ROD, or FONSI, as appropriate.”	Yes
2	Criteria requiring consideration of noise abatement	
a.	Project causes design year noise levels to approach or exceed the Noise Abatement Criteria?	Yes
b.	Project causes a substantial noise increase of 10 dB(A) or more?	No

Feasibility

1	Impacted receptor units	
a.	Number of impacted receptor units:	33
b.	Number of impacted receptor units receiving 5 dB(A) or more insertion loss (IL):	33
c.	Percentage of impacted receptor units receiving 5 dB(A) or more IL	100%
d.	Is the percentage 50 or greater?	Yes
2	Will placement of the noise barrier cause engineering or safety conflicts, e.g drainage issues or site distance issues?	NA
3	Will placement of the noise barrier restrict access to vehicular or pedestrian travel?	NA
4	Will placement of the noise barrier conflict with existing utility locations?	NA

	Reasonableness	
1	**Surface Area (Square foot)-Benefit Factors**	
a.	Surface Area (Total square foot) of the proposed noise barrier. (ft^2)	73,365 SF
b.	Impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	33
c.	Non-impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	9
d.	Total number of benefited receptors.	42
e.	Surface Area per benefited receptor unit. (ft^2/BR)	1,747 SF/BR
f.	Is (1e) less than or equal to the maximum square feet per benefited receptor (MaxSF/BR) value of 1600?	No
g.	Does the barrier provide an IL of at least 7 dB(A) for at least one impacted receptor in the design year?	Yes
2	**Additional Noise Barrier Details**	
a.	Length of the proposed noise barrier. (ft)	3,648 ft
b.	Height range of the proposed noise barrier. (ft)	14-24
c.	Average height of the proposed noise barrier. (ft)	20 ft
d.	Cost per square foot. ($/$ft^2$)	$42.0
e.	Total Barrier Cost ($)	$3,081,330
f.	Barrier Material	NA
3	**Community Desires Related to the Barrier**	
	Do at least 50 percent of the benefited receptor unit owner(s) and renters desire the noise barrier? If yes, continue to "decision" block. If no, the barrier can be considered not to be reasonable. Proceed to “decision” block and answer “no” to reasonableness question. As the reason for this decision, state that “The majority of the impacted receptor unit owners do not desire the barrier.”	Yes

Decision	
Is the Noise Barrier(s) WARRANTED?	Yes
Is the Noise Barrier(s) FEASIBLE?	Yes
Is the Noise Barrier(s) REASONABLE?	No

Additional Reasons for Decision:

VDOT Highway Traffic Noise Abatement
Warranted, Feasible, and Reasonable Worksheet

Note: Not all questions apply depending on the design phase which may cause differing answers between preliminary and final design phase. Answers to the questions may change depending on the design phase of the project.

Date:	27-Dec-19
Project No. and UPC:	113414
County:	Fairfax
District:	NOVA
Barrier System ID:	Barrier 10 (EXT)
Community Name and/or CNE#	CNE E
Noise Abatement Category(s)	NAC B/C
Design phase:	Preliminary design

		Warranted	
1		Community Documentation (if applicable)	
	a.	Date community was permitted. (Per 23CFR 772 this is the date the building permit was issued).	
	b.	Date of approval for the Categorical Exclusion (CE), Record of Decision (ROD), or Finding of No Significant Impact (FONSI):	
	c.	Does the date in 1.a precede the date in 1.b? If yes, proceed to Warranted Item 2. If no, consideration of noise abatement is not warranted. Proceed to “Decision” block and answer “no” to warranted question. As the reason for this decision, state that “Community was permitted after the date of approval of CE, ROD, or FONSI, as appropriate.”	Yes
2		Criteria requiring consideration of noise abatement	
	a.	Project causes design year noise levels to approach or exceed the Noise Abatement Criteria?	Yes
	b.	Project causes a substantial noise increase of 10 dB(A) or more?	No

		Feasibility	
1		Impacted receptor units	
	a.	Number of impacted receptor units:	21
	b.	Number of impacted receptor units receiving 5 dB(A) or more insertion loss (IL):	21
	c.	Percentage of impacted receptor units receiving 5 dB(A) or more IL	100%
	d.	Is the percentage 50 or greater?	Yes
2		Will placement of the noise barrier cause engineering or safety conflicts, e.g drainage issues or site distance issues?	
3		Will placement of the noise barrier restrict access to vehicular or pedestrian travel?	
4		Will placement of the noise barrier conflict with existing utility locations?	

		Reasonableness	
1		**Surface Area (Square foot)-Benefit Factors**	
	a.	Surface Area (Total square foot) of the proposed noise barrier. (ft^2)	39,458 SF
	b.	Surface Area to be added to existing barrier (Barrier Modification). (ft^2)	22,067 SF
	c.	Demolition Factor (ft^2)	0 SF
	d.	Impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	21
	e.	Non-impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	12
	f.	Total number of benefited receptors.	33
	g.	Surface Area per benefited receptor unit. (ft^2/BR)	669 SF/BR
	h.	Is (1e) less than or equal to the maximum square feet per benefited receptor (MaxSF/BR) value of 1600?	Yes
	i.	Does the barrier provide an IL of at least 7 dB(A) for at least one impacted receptor in the design year?	Yes

2		**Additional Noise Barrier Details**	
	a.	Length of the proposed noise barrier. (ft)	2,446 ft
	b.	Height range of the proposed noise barrier. (ft)	8-26
	c.	Average height of the proposed noise barrier. (ft)	16 ft
	d.	Cost per square foot. (\$/ft^2)	$42/SF
	e.	Total Barrier Cost ($)	$1,657,236
	f.	Barrier Material	NA
3		**Community Desires Related to the Barrier**	
		Do at least 50 percent of the benefited receptor unit owner(s) and renters desire the noise barrier? If yes, continue to "decision" block. If no, the barrier can be considered not to be reasonable. Proceed to “decision” block and answer “no” to reasonableness question. As the reason for this decision, state that “The majority of the impacted receptor unit owners do not desire the barrier.”	Yes
		Decision	
		Is the Noise Barrier(s) WARRANTED?	Yes
		Is the Noise Barrier(s) FEASIBLE?	Yes
		Is the Noise Barrier(s) REASONABLE?	Yes
		Additional Reasons for Decision:	

VDOT Highway Traffic Noise Abatement
Warranted, Feasible, and Reasonable Worksheet

Note: Not all questions apply depending on the design phase which may cause differing answers between preliminary and final design phase. Answers to the questions may change depending on the design phase of the project.

Date:	2-Sep-19
Project No. and UPC:	113414
County:	Fairfax
District:	NOVA
Barrier System ID:	Barrier System G
Community Name and/or CNE#	CNE G
Noise Abatement Category(s)	NAC B
Design phase:	Preliminary design

Warranted

1	Community Documentation (if applicable)	
a.	Date community was permitted. (Per 23CFR 772 this is the date the building permit was issued).	
b.	Date of approval for the Categorical Exclusion (CE), Record of Decision (ROD), or Finding of No Significant Impact (FONSI):	
c.	Does the date in 1.a precede the date in 1.b? If yes, proceed to Warranted Item 2. If no, consideration of noise abatement is not warranted. Proceed to "Decision" block and answer "no" to warranted question. As the reason for this decision, state that "Community was permitted after the date of approval of CE, ROD, or FONSI, as appropriate."	Yes
2	Criteria requiring consideration of noise abatement	
a.	Project causes design year noise levels to approach or exceed the Noise Abatement Criteria?	Yes
b.	Project causes a substantial noise increase of 10 dB(A) or more?	No

Feasibility

1	Impacted receptor units	
a.	Number of impacted receptor units:	3
b.	Number of impacted receptor units receiving 5 dB(A) or more insertion loss (IL):	3
c.	Percentage of impacted receptor units receiving 5 dB(A) or more IL	100%
d.	Is the percentage 50 or greater?	Yes
2	Will placement of the noise barrier cause engineering or safety conflicts, e.g drainage issues or site distance issues?	NA
3	Will placement of the noise barrier restrict access to vehicular or pedestrian travel?	NA
4	Will placement of the noise barrier conflict with existing utility locations?	NA

Reasonableness

1	**Surface Area (Square foot)-Benefit Factors**	
a.	Surface Area (Total square foot) of the proposed noise barrier. (ft^2)	16,623 SF
b.	Impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	3
c.	Non-impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	0
d.	Total number of benefited receptors.	3
e.	Surface Area per benefited receptor unit. (ft^2/BR)	5,541 SF/BR
f.	Is (1e) less than or equal to the maximum square feet per benefited receptor (MaxSF/BR) value of 1600?	No
g.	Does the barrier provide an IL of at least 7 dB(A) for at least one impacted receptor in the design year?	Yes
2	**Additional Noise Barrier Details**	
a.	Length of the proposed noise barrier. (ft)	1,303 ft
b.	Height range of the proposed noise barrier. (ft)	6-22
c.	Average height of the proposed noise barrier. (ft)	13 ft
d.	Cost per square foot. ($/ft^2$)	$42.0
e.	Total Barrier Cost ($)	$698,166
f.	Barrier Material	NA
3	**Community Desires Related to the Barrier**	
	Do at least 50 percent of the benefited receptor unit owner(s) and renters desire the noise barrier? If yes, continue to "decision" block. If no, the barrier can be considered not to be reasonable. Proceed to “decision” block and answer “no” to reasonableness question. As the reason for this decision, state that “The majority of the impacted receptor unit owners do not desire the barrier.”	Yes

Decision

Is the Noise Barrier(s) WARRANTED?	Yes
Is the Noise Barrier(s) FEASIBLE?	Yes
Is the Noise Barrier(s) REASONABLE?	No

Additional Reasons for Decision:

VDOT Highway Traffic Noise Abatement
Warranted, Feasible, and Reasonable Worksheet

Note: Not all questions apply depending on the design phase which may cause differing answers between preliminary and final design phase. Answers to the questions may change depending on the design phase of the project.

Date:	21-Oct-19
Project No. and UPC:	113414
County:	Fairfax
District:	NOVA
Barrier System ID:	Barrier 13B (EXT)
Community Name and/or CNE#	CNE J/AA
Noise Abatement Category(s)	NAC B
Design phase:	Preliminary design

Warranted

1	Community Documentation (if applicable)	
a.	Date community was permitted. (Per 23CFR 772 this is the date the building permit was issued).	
b.	Date of approval for the Categorical Exclusion (CE), Record of Decision (ROD), or Finding of No Significant Impact (FONSI):	
c.	Does the date in 1.a precede the date in 1.b? If yes, proceed to Warranted Item 2. If no, consideration of noise abatement is not warranted. Proceed to “Decision” block and answer “no” to warranted question. As the reason for this decision, state that “Community was permitted after the date of approval of CE, ROD, or FONSI, as appropriate.”	Yes
2	Criteria requiring consideration of noise abatement	
a.	Project causes design year noise levels to approach or exceed the Noise Abatement Criteria?	Yes
b.	Project causes a substantial noise increase of 10 dB(A) or more?	No

Feasibility

1	Impacted receptor units	
a.	Number of impacted receptor units:	6
b.	Number of impacted receptor units receiving 5 dB(A) or more insertion loss (IL):	6
c.	Percentage of impacted receptor units receiving 5 dB(A) or more IL	100%
d.	Is the percentage 50 or greater?	Yes
2	Will placement of the noise barrier cause engineering or safety conflicts, e.g drainage issues or site distance issues?	
3	Will placement of the noise barrier restrict access to vehicular or pedestrian travel?	
4	Will placement of the noise barrier conflict with existing utility locations?	

Reasonableness

1 **Surface Area (Square foot)-Benefit Factors**

a.	Surface Area (Total square foot) of the proposed noise barrier. (ft^2)	99,706 SF
b.	Surface Area to be added to existing barrier (Barrier Modification). (ft^2)	12,082 SF
c.	Demolition Factor (ft^2)	0 SF
d.	Impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	6
e.	Non-impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	3
f.	Total number of benefited receptors.	9
g.	Surface Area per benefited receptor unit. (ft^2/BR)	1,342 SF/BR
h.	Is (1e) less than or equal to the maximum square feet per benefited receptor (MaxSF/BR) value of 1600?	Yes
i.	Does the barrier provide an IL of at least 7 dB(A) for at least one impacted receptor in the design year?	Yes

2 **Additional Noise Barrier Details**

a.	Length of the proposed noise barrier. (ft)	4,177 ft
b.	Height range of the proposed noise barrier. (ft)	12-34
c.	Average height of the proposed noise barrier. (ft)	24 ft
d.	Cost per square foot. ($/$ft^2$)	$42/SF
e.	Total Barrier Cost ($)	$4,187,652
f.	Barrier Material	NA

3 **Community Desires Related to the Barrier**

Do at least 50 percent of the benefited receptor unit owner(s) and renters desire the noise barrier? If yes, continue to "decision" block. If no, the barrier can be considered not to be reasonable. Proceed to “decision” block and answer “no” to reasonableness question. As the reason for this decision, state that “The majority of the impacted receptor unit owners do not desire the barrier.” — Yes

Decision

Is the Noise Barrier(s) WARRANTED?	Yes
Is the Noise Barrier(s) FEASIBLE?	Yes
Is the Noise Barrier(s) REASONABLE?	Yes

Additional Reasons for Decision:

VDOT Highway Traffic Noise Abatement
Warranted, Feasible, and Reasonable Worksheet

Note: Not all questions apply depending on the design phase which may cause differing answers between preliminary and final design phase. Answers to the questions may change depending on the design phase of the project.

Date:	2-Sep-19
Project No. and UPC:	113414
County:	Fairfax
District:	NOVA
Barrier System ID:	Barrier System O
Community Name and/or CNE#	CNE O
Noise Abatement Category(s)	NAC B,C
Design phase:	Preliminary design

	Warranted	
1	Community Documentation (if applicable)	
a.	Date community was permitted. (Per 23CFR 772 this is the date the building permit was issued).	
b.	Date of approval for the Categorical Exclusion (CE), Record of Decision (ROD), or Finding of No Significant Impact (FONSI):	
c.	Does the date in 1.a precede the date in 1.b? If yes, proceed to Warranted Item 2. If no, consideration of noise abatement is not warranted. Proceed to "Decision" block and answer "no" to warranted question. As the reason for this decision, state that "Community was permitted after the date of approval of CE, ROD, or FONSI, as appropriate."	Yes
2	Criteria requiring consideration of noise abatement	
a.	Project causes design year noise levels to approach or exceed the Noise Abatement Criteria?	Yes
b.	Project causes a substantial noise increase of 10 dB(A) or more?	No

	Feasibility	
1	Impacted receptor units	
a.	Number of impacted receptor units:	5
b.	Number of impacted receptor units receiving 5 dB(A) or more insertion loss (IL):	5
c.	Percentage of impacted receptor units receiving 5 dB(A) or more IL	100%
d.	Is the percentage 50 or greater?	Yes
2	Will placement of the noise barrier cause engineering or safety conflicts, e.g drainage issues or site distance issues?	NA
3	Will placement of the noise barrier restrict access to vehicular or pedestrian travel?	NA
4	Will placement of the noise barrier conflict with existing utility locations?	NA

Reasonableness

1	**Surface Area (Square foot)-Benefit Factors**	
a.	Surface Area (Total square foot) of the proposed noise barrier. (ft^2)	35,302 SF
b.	Impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	5
c.	Non-impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	9
d.	Total number of benefited receptors.	14
e.	Surface Area per benefited receptor unit. (ft^2/BR)	2,522 SF/BR
f.	Is (1e) less than or equal to the maximum square feet per benefited receptor (MaxSF/BR) value of 1600?	No
g.	Does the barrier provide an IL of at least 7 dB(A) for at least one impacted receptor in the design year?	Yes
2	**Additional Noise Barrier Details**	
a.	Length of the proposed noise barrier. (ft)	1,713 ft
b.	Height range of the proposed noise barrier. (ft)	10-30
c.	Average height of the proposed noise barrier. (ft)	19 ft
d.	Cost per square foot. ($/$ft^2$)	$42.0
e.	Total Barrier Cost ($)	$1,482,684
f.	Barrier Material	NA
3	**Community Desires Related to the Barrier**	
	Do at least 50 percent of the benefited receptor unit owner(s) and renters desire the noise barrier? If yes, continue to "decision" block. If no, the barrier can be considered not to be reasonable. Proceed to “decision” block and answer “no” to reasonableness question. As the reason for this decision, state that “The majority of the impacted receptor unit owners do not desire the barrier.”	Yes

Decision

Is the Noise Barrier(s) WARRANTED?	Yes
Is the Noise Barrier(s) FEASIBLE?	Yes
Is the Noise Barrier(s) REASONABLE?	No

Additional Reasons for Decision:

VDOT Highway Traffic Noise Abatement
Warranted, Feasible, and Reasonable Worksheet

Note: Not all questions apply depending on the design phase which may cause differing answers between preliminary and final design phase. Answers to the questions may change depending on the design phase of the project.

Date:	21-Oct-19
Project No. and UPC:	113414
County:	Fairfax
District:	NOVA
Barrier System ID:	Barrier 12A2 (EXT)
Community Name and/or CNE#	CNE Q
Noise Abatement Category(s)	NAC B
Design phase:	Preliminary design

Warranted

1	Community Documentation (if applicable)	
a.	Date community was permitted. (Per 23CFR 772 this is the date the building permit was issued).	
b.	Date of approval for the Categorical Exclusion (CE), Record of Decision (ROD), or Finding of No Significant Impact (FONSI):	
c.	Does the date in 1.a precede the date in 1.b? If yes, proceed to Warranted Item 2. If no, consideration of noise abatement is not warranted. Proceed to “Decision” block and answer “no” to warranted question. As the reason for this decision, state that “Community was permitted after the date of approval of CE, ROD, or FONSI, as appropriate.”	Yes
2	Criteria requiring consideration of noise abatement	
a.	Project causes design year noise levels to approach or exceed the Noise Abatement Criteria?	Yes
b.	Project causes a substantial noise increase of 10 dB(A) or more?	No

Feasibility

1	Impacted receptor units	
a.	Number of impacted receptor units:	29
b.	Number of impacted receptor units receiving 5 dB(A) or more insertion loss (IL):	29
c.	Percentage of impacted receptor units receiving 5 dB(A) or more IL	100%
d.	Is the percentage 50 or greater?	Yes
2	Will placement of the noise barrier cause engineering or safety conflicts, e.g drainage issues or site distance issues?	
3	Will placement of the noise barrier restrict access to vehicular or pedestrian travel?	
4	Will placement of the noise barrier conflict with existing utility locations?	

Reasonableness

1 **Surface Area (Square foot)-Benefit Factors**

a.	Surface Area (Total square foot) of the proposed noise barrier. (ft^2)	61,211 SF
b.	Surface Area to be added to existing barrier (Barrier Modification). (ft^2)	28,706 SF
c.	Demolition Factor (ft^2)	0 SF
d.	Impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	29
e.	Non-impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	48
f.	Total number of benefited receptors.	77
g.	Surface Area per benefited receptor unit. (ft^2/BR)	373 SF/BR
h.	Is (1e) less than or equal to the maximum square feet per benefited receptor (MaxSF/BR) value of 1600?	Yes
i.	Does the barrier provide an IL of at least 7 dB(A) for at least one impacted receptor in the design year?	Yes

2 **Additional Noise Barrier Details**

a.	Length of the proposed noise barrier. (ft)	2,636 ft
b.	Height range of the proposed noise barrier. (ft)	10-30
c.	Average height of the proposed noise barrier. (ft)	23 ft
d.	Cost per square foot. ($/$ft^2$)	$42/SF
e.	Total Barrier Cost ($)	$2,570,862
f.	Barrier Material	NA

3 **Community Desires Related to the Barrier**

Do at least 50 percent of the benefited receptor unit owner(s) and renters desire the noise barrier? If yes, continue to "decision" block. If no, the barrier can be considered not to be reasonable. Proceed to "decision" block and answer "no" to reasonableness question. As the reason for this decision, state that "The majority of the impacted receptor unit owners do not desire the barrier." — Yes

Decision

Is the Noise Barrier(s) WARRANTED?	Yes
Is the Noise Barrier(s) FEASIBLE?	Yes
Is the Noise Barrier(s) REASONABLE?	Yes

Additional Reasons for Decision:

VDOT Highway Traffic Noise Abatement
Warranted, Feasible, and Reasonable Worksheet

Note: Not all questions apply depending on the design phase which may cause differing answers between preliminary and final design phase. Answers to the questions may change depending on the design phase of the project.

Date:	2-Sep-19
Project No. and UPC:	113414
County:	Fairfax
District:	NOVA
Barrier System ID:	Barrier S
Community Name and/or CNE#	CNE S
Noise Abatement Category(s)	NAC B
Design phase:	Preliminary design

Warranted

1	Community Documentation (if applicable)	
a.	Date community was permitted. (Per 23CFR 772 this is the date the building permit was issued).	
b.	Date of approval for the Categorical Exclusion (CE), Record of Decision (ROD), or Finding of No Significant Impact (FONSI):	
c.	Does the date in 1.a precede the date in 1.b? If yes, proceed to Warranted Item 2. If no, consideration of noise abatement is not warranted. Proceed to “Decision” block and answer “no” to warranted question. As the reason for this decision, state that “Community was permitted after the date of approval of CE, ROD, or FONSI, as appropriate.”	Yes
2	Criteria requiring consideration of noise abatement	
a.	Project causes design year noise levels to approach or exceed the Noise Abatement Criteria?	Yes
b.	Project causes a substantial noise increase of 10 dB(A) or more?	No

Feasibility

1	Impacted receptor units	
a.	Number of impacted receptor units:	2
b.	Number of impacted receptor units receiving 5 dB(A) or more insertion loss (IL):	0
c.	Percentage of impacted receptor units receiving 5 dB(A) or more IL	0%
d.	Is the percentage 50 or greater?	No
2	Will placement of the noise barrier cause engineering or safety conflicts, e.g drainage issues or site distance issues?	NA
3	Will placement of the noise barrier restrict access to vehicular or pedestrian travel?	NA
4	Will placement of the noise barrier conflict with existing utility locations?	NA

Reasonableness

1 **Surface Area (Square foot)-Benefit Factors**

a.	Surface Area (Total square foot) of the proposed noise barrier. (ft^2)	10,322 SF
b.	Impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	0
c.	Non-impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	0
d.	Total number of benefited receptors.	0
e.	Surface Area per benefited receptor unit. (ft^2/BR)	#DIV/0!
f.	Is (1e) less than or equal to the maximum square feet per benefited receptor (MaxSF/BR) value of 1600?	#DIV/0!
g.	Does the barrier provide an IL of at least 7 dB(A) for at least one impacted receptor in the design year?	No

2 **Additional Noise Barrier Details**

a.	Length of the proposed noise barrier. (ft)	343 ft
b.	Height range of the proposed noise barrier. (ft)	30
c.	Average height of the proposed noise barrier. (ft)	30 ft
d.	Cost per square foot. ($/ft^2$)	$42.0
e.	Total Barrier Cost ($)	$433,524
f.	Barrier Material	NA

3 **Community Desires Related to the Barrier**

Do at least 50 percent of the benefited receptor unit owner(s) and renters desire the noise barrier? If yes, continue to "decision" block. If no, the barrier can be considered not to be reasonable. Proceed to “decision” block and answer “no” to reasonableness question. As the reason for this decision, state that “The majority of the impacted receptor unit owners do not desire the barrier.” — Yes

Decision

Is the Noise Barrier(s) WARRANTED?	Yes
Is the Noise Barrier(s) FEASIBLE?	No
Is the Noise Barrier(s) REASONABLE?	NA

Additional Reasons for Decision:

VDOT Highway Traffic Noise Abatement
Warranted, Feasible, and Reasonable Worksheet

Note: Not all questions apply depending on the design phase which may cause differing answers between preliminary and final design phase. Answers to the questions may change depending on the design phase of the project.

Date:	27-Dec-19
Project No. and UPC:	113414
County:	Fairfax
District:	NOVA
Barrier System ID:	Barrier System U
Community Name and/or CNE#	CNE U
Noise Abatement Category(s)	NAC B
Design phase:	Preliminary design

Warranted

1		Community Documentation (if applicable)	
	a.	Date community was permitted. (Per 23CFR 772 this is the date the building permit was issued).	
	b.	Date of approval for the Categorical Exclusion (CE), Record of Decision (ROD), or Finding of No Significant Impact (FONSI):	
	c.	Does the date in 1.a precede the date in 1.b? If yes, proceed to Warranted Item 2. If no, consideration of noise abatement is not warranted. Proceed to "Decision" block and answer "no" to warranted question. As the reason for this decision, state that "Community was permitted after the date of approval of CE, ROD, or FONSI, as appropriate."	Yes
2		Criteria requiring consideration of noise abatement	
	a.	Project causes design year noise levels to approach or exceed the Noise Abatement Criteria?	Yes
	b.	Project causes a substantial noise increase of 10 dB(A) or more?	No

Feasibility

1		Impacted receptor units	
	a.	Number of impacted receptor units:	15
	b.	Number of impacted receptor units receiving 5 dB(A) or more insertion loss (IL):	15
	c.	Percentage of impacted receptor units receiving 5 dB(A) or more IL	100%
	d.	Is the percentage 50 or greater?	Yes
2		Will placement of the noise barrier cause engineering or safety conflicts, e.g drainage issues or site distance issues?	Yes
3		Will placement of the noise barrier restrict access to vehicular or pedestrian travel?	No
4		Will placement of the noise barrier conflict with existing utility locations?	Yes

	Reasonableness		
1	**Surface Area (Square foot)-Benefit Factors**		
	a.	Surface Area (Total square foot) of the proposed noise barrier. (ft^2)	22,612 SF
	b.	Impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	15
	c.	Non-impacted noise sensitive receptor(s) receiving 5 dB(A) IL or more.	4
	d.	Total number of benefited receptors.	19
	e.	Surface Area per benefited receptor unit. (ft^2/BR)	1,190 SF/BR
	f.	Is (1e) less than or equal to the maximum square feet per benefited receptor (MaxSF/BR) value of 1600?	Yes
	g.	Does the barrier provide an IL of at least 7 dB(A) for at least one impacted receptor in the design year?	Yes
2	**Additional Noise Barrier Details**		
	a.	Length of the proposed noise barrier. (ft)	784 ft
	b.	Height range of the proposed noise barrier. (ft)	20-30
	c.	Average height of the proposed noise barrier. (ft)	29 ft
	d.	Cost per square foot. ($\$/ft^2$)	$42.0
	e.	Total Barrier Cost ($)	$949,704
	f.	Barrier Material	NA
3	**Community Desires Related to the Barrier**		
		Do at least 50 percent of the benefited receptor unit owner(s) and renters desire the noise barrier? If yes, continue to "decision" block. If no, the barrier can be considered not to be reasonable. Proceed to “decision” block and answer “no” to reasonableness question. As the reason for this decision, state that “The majority of the impacted receptor unit owners do not desire the barrier.”	Yes

Decision	
Is the Noise Barrier(s) WARRANTED?	Yes
Is the Noise Barrier(s) FEASIBLE?	No
Is the Noise Barrier(s) REASONABLE?	NA

Additional Reasons for Decision:
See Appendix Q - Noise Barrier Constructibility Memo

Appendix P: List of Preparers/Reviewers

- Paul Kohler (Jacobs) – Project Manager / Reviewer
- Josh Kozlowski (WRA) – Lead Document Preparer and Modeler
- Megan Comer (WRA) – Noise Modeling and GIS
- Kim Glinkin (WRA) – Document Support / Quality Control and Reviewer
- Rob Miller (Jacobs) – Quality Assurance and TNM file reviewer
- Bill Minor (WRA) – Noise Monitoring and TNM Validation
- Emily Drahos (WRA) – Noise Monitoring
- Ralph Tuck (WRA) – Noise Monitoring

Appendix Q: Noise Barrier Constructibility Memo

ATCS®

CLIENT ▪ EMPLOYEE ▪ COMPANY ▪ COMMUNITY

Memo

To:	Abraham Lerner
From:	Robert McDowell, P.E. RSM
cc:	Young Kim, P.E.
Date:	December 9, 2019
Re:	I-495 Express Lanes, NEXT Study UPC 113414, Project No. 0495-029-419 Noise Barrier U-2 Feasibility Study

Proposed Conditions

Barrier System U was evaluated to provide noise mitigation for impacted residences at the Haden Apartment Complex. Barrier System U consists of two barriers, U-1 and U-2, with panel heights ranging from 20 to 30 feet and a total length of 784 feet, resulting in a total surface area of 22,612 square feet. Noise Barrier U-2 is proposed along Dolley Madison Blvd. (Rte. 123) from Anderson Road (Rte. 3547) to the existing ramp to Rte. 267 EB as part of the I-495 Express Lanes, NEXT project. The preliminary noise study determined the barrier system to be feasible (based on acoustic performance) and reasonable. Due to the limited space available to place the Barrier U-2 and the visual confirmation of engineering conflicts, the project team assessed the feasibility of constructing the barrier system in the proposed location.

Existing Conditions

The property adjacent to the site is a 14-story apartment building at the corner of Dolley Madison Blvd. and Anderson Road. From the back of the curb along Dolley Madison Blvd, there is a 16' wide grass buffer, a 9' wide stormwater management swale, a 10' wide sidewalk, and a 9' wide landscaped area. As indicated by handholes/manholes in the area as well as paint markings, there are VDOT ITS facilities, Dominion electric, and Level 3 fiber optic in the grass buffer strip and Qwest fiber optic under the sidewalk. There is also signal equipment, a Dominion streetlight, an overhead sign structure, and ground mounted signs in the grass buffer. The swale area contains trees and PVC cleanout pipes and treats the storm water running off the roadway through five curb breaks. On the day of the site visit, there was also ongoing construction along Dolley Madison Blvd installing a new sidewalk and crosswalk across the existing ramp to Rte. 267.

Cost Estimate
The original preliminary cost of noise barriers U1 and U2 provided in the noise report was estimated to be $949,704. Considering the drainage, utility, ITS, and signing impacts, the cost of constructing the noise barriers, including preliminary engineering, will increase $1.5 million to a total cost of $2.5 million.

Recommendation
Construction of the proposed Noise Barrier U-2 would require the relocation of existing underground electric, fiber optic, and ITS utilities, and impact the existing streetlight and overhead sign structure. A new closed drainage system would be needed to replace the existing curb breaks and a new bioretention facility would be required for stormwater treatment to replace the existing swale. The noise barrier would also obstruct drivers' sight distance along the ramp to Rte. 267 and would reduce pedestrian safety at the new crosswalk being installed across the ramp. Based on these conclusions, Noise Barrier U-2 is not feasible to construct. Without the individual Barrier U-2, Barrier U-1 would not be feasible and reasonable on its own, consequently eliminating the entire Barrier System U from consideration.