

APPENDIX G – NOISE MODELING RESULTS

RESULTS: SOUND LEVELS

<Project Name?>

EIP
GHH

2 January 2008
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS

PROJECT/CONTRACT:

<Project Name?>

RUN:

Lincoln East Existing Franklin

BARRIER DESIGN:

INPUT HEIGHTS

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

ATMOSPHERICS:

68 deg F, 50% RH

Receiver												
Name	No.	#DUs	Existing LAeq1h	No Barrier				With Barrier				
				LAeq1h		Increase over existing		Type Impact	Calculated LAeq1h	Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n Sub'l Inc			Calculated	Goal	Calculated minus Goal
			dB	dB	dB	dB		dB	dB	dB	dB	
1946 Franklin (Curb)	1	1	0.0	65.7	66	65.7	10	----	65.7	0.0	8	-8.0
1046 Franklin (Home)	2	1	0.0	63.4	66	63.4	10	----	63.4	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction		
		Min	Avg	Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

RESULTS: SOUND LEVELS

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PROJECT/CONTRACT:

<Project Name?>

RUN:

Lincoln East Existing Lincoln

BARRIER DESIGN:

INPUT HEIGHTS

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

ATMOSPHERICS:

68 deg F, 50% RH

Receiver												
Name	No.	#DUs	Existing LAeq1h	No Barrier					With Barrier			
				LAeq1h		Increase over existing		Type Impact	Calculated LAeq1h	Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n			Calculated	Goal	Calculated minus Goal
			dB	dB	dB	dB	dB	dB	dB	dB	dB	dB
1946 Franklin (Curb)	1	1	0.0	66.5	66	66.5	10	Snd Lvl	66.5	0.0	8	-8.0
1946 Franklin (Home)	2	1	0.0	61.4	66	61.4	10	----	61.4	0.0	8	-8.0
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		2	0.0	0.0	0.0							
All Impacted		1	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

RESULTS: SOUND LEVELS

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PROJECT/CONTRACT:

<Project Name?>

RUN:

Lincoln East Existing Bogue

BARRIER DESIGN:

INPUT HEIGHTS

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

ATMOSPHERICS:

68 deg F, 50% RH

Receiver												
Name	No.	#DUs	Existing LAeq1h	No Barrier					With Barrier			
				LAeq1h		Increase over existing		Type Impact	Calculated LAeq1h	Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n Sub'l Inc			Calculated	Goal	Calculated minus Goal
			dB	dB	dB	dB	dB		dB	dB	dB	dB
2101 Bogue (Curb)	1	1	0.0	65.7	66	65.7	10	----	65.7	0.0	8	-8.0
2101 Bogue (Home)	2	1	0.0	61.1	66	61.1	10	----	61.1	0.0	8	-8.0
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		2	0.0	0.0	0.0							
All Impacted		0	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

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PROJECT/CONTRACT:

<Project Name?>

RUN:

Lincoln East Existing Margarita

BARRIER DESIGN:

INPUT HEIGHTS

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

ATMOSPHERICS:

68 deg F, 50% RH

Receiver												
Name	No.	#DUs	Existing LAeq1h	No Barrier					With Barrier			
				LAeq1h		Increase over existing		Type Impact	Calculated LAeq1h	Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n Sub'l Inc			Calculated	Goal	Calculated minus Goal
			dB	dB	dB	dB	dB		dB	dB	dB	dB
2515 Toyon (Curb)	1	1	0.0	61.8	66	61.8	10	----	61.8	0.0	8	-8.0
2515 Toyon (Home)	2	1	0.0	55.9	66	55.9	10	----	55.9	0.0	8	-8.0
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		2	0.0	0.0	0.0							
All Impacted		0	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

RESULTS: SOUND LEVELS

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PROJECT/CONTRACT:

<Project Name?>

RUN:

Lincoln East Existing Washington N Frankl

BARRIER DESIGN:

INPUT HEIGHTS

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

ATMOSPHERICS:

68 deg F, 50% RH

Receiver												
Name	No.	#DUs	Existing LAeq1h	No Barrier					With Barrier			
				LAeq1h		Increase over existing		Type Impact	Calculated LAeq1h	Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n Sub'l Inc			Calculated	Goal	Calculated minus Goal
			dB	dB	dB	dB	dB		dB	dB	dB	dB
691 Washington (Home)	2	1	0.0	64.1	66	64.1	10	----	64.1	0.0	8	-8.0
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		1	0.0	0.0	0.0							
All Impacted		0	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

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PROJECT/CONTRACT:

<Project Name?>

RUN:

Lincoln East Existing Lincoln Wash

BARRIER DESIGN:

INPUT HEIGHTS

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

ATMOSPHERICS:

68 deg F, 50% RH

Receiver												
Name	No.	#DUs	Existing LAeq1h	No Barrier					With Barrier			
				LAeq1h		Increase over existing		Type Impact	Calculated LAeq1h	Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n Sub'l Inc			Calculated	Goal	Calculated minus Goal
			dB	dB	dB	dB	dB		dB	dB	dB	dB
2875 Lincoln (Home)	2	1	0.0	65.2	66	65.2	10	----	65.2	0.0	8	-8.0
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		1	0.0	0.0	0.0							
All Impacted		0	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

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RUN:

Lincoln East Existing Washington

BARRIER DESIGN:

INPUT HEIGHTS

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

ATMOSPHERICS:

68 deg F, 50% RH

Receiver												
Name	No.	#DUs	Existing LAeq1h	No Barrier				With Barrier				
				LAeq1h		Increase over existing		Type Impact	Calculated LAeq1h	Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n Sub'l Inc			Calculated	Goal	Calculated minus Goal
			dB	dB	dB	dB	dB	dB	dB	dB	dB	dB
Washington (Home)	2	1	0.0	62.8	66	62.8	10	----	62.8	0.0	8	-8.0
Dwelling Units		# DUs	Noise Reduction									
			Min	Avg	Max							
			dB	dB	dB							
All Selected		1	0.0	0.0	0.0							
All Impacted		0	0.0	0.0	0.0							
All that meet NR Goal		0	0.0	0.0	0.0							

Noise Levels at Residential Receptors	Setback from curb	from CL	Model Leq	Cal Fac	Existing		Existing + Project		Cumulative	
					Cal Adj Leq	Cal Adj Ldn	Traf Vol Ratio	Cal Adj Ldn	Traf Vol Ratio	Cal Adj Ldn
Residential on Franklin E of Harding										
1946 Harding	22	57	63.4	2.3	65.7	63.7	2.9	68.4	2.2	67.1
1958 Harding	44	79								
1972 Harding	25	60								
1932 Harding	33	68								
Residential on Lincoln E of Sanborn										
2101 Lincoln	46	64								
2098 Lincoln	40	58								
2085 Lincoln	50	68								
2078 Lincoln	40	58	61.4	2.6	64.0	62.0	3.8	67.8	2.9	66.6
Residential on Bogue E of Sanborn										
1986 Sanborn	38	56								
2108 Bogue	44	62								
2101 Bogue	38	56	61.1	3.7	64.8	62.8	3.0	67.6	3.0	67.5
2100 Bogue	42	60								
Residential on El Margarita N of Franklin										
351 El Margarita	62	82								
2515 Toyon	49	69	55.9	4.5	60.4	58.4	2.3	62.1	0.7	56.7
Residential on Washington N of Franklin										
691 Washington		70	64.1	3.3	67.4	65.4	1.7	67.7	1.5	67.2
Residential on Lincoln E of Washington										
2875 Lincoln		24	65.2	3.3	68.5	66.5	2.2	69.9	7.0	74.9
Residential on Washington N of Bogue										
Home		100	62.8	3.3	66.1	64.1	1.4	65.5	1.1	64.4