

**Appendix H:
Noise Supporting Information**

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Project Number: 2648.0014
 Project Name: Scannell Properties Project
 Test Personnel: Spencer P.

Sheet ___ of ___

Noise Measurement Survey

Site Number: ST-1 Date: 9/17 Time: From 12:49 To 1:04

Site Location: NE corner of Richmond Parkway & Parr Blvd.; SW most corner of the project site

Primary Noise Sources: Traffic on Richmond Parkway and Parr Blvd.

Measurement Results

	dB(A)
Leq	67.8
Lmax	84.2
Lmin	54.2
L5	72.9
L10	71.4
L50	65.2
L90	58.7
Ldn	
CNEL	

Observed Noise Sources/Events

Time	Noise Source/Event	dB(A)

Comments: _____

Equipment: LXT-1
 Settings: A-Weighted Other

Measured Difference: 0.00 dB(A)
 Slow Fast Windscreen

Atmospheric Conditions:

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)
8.9	2.1	72.2	60%
Comments: <u>Cloudy day w/ some wind</u>			

Project Number: 2648.0014
 Project Name: Scannell Properties
 Test Personnel: _____

Sheet ___ of ___

Noise Measurement Survey

Site Number: ST-2 Date: 9/17 Time: From 1:32 To 1:47

Site Location:
Far NE side of the project site, on westernmost portion of
Protectocoat Lane

Primary Noise Sources: Traffic on Richmond Parkway

Measurement Results

	dBA
Leq	58.1
Lmax	65.4
Lmin	49.4
L5	62.0
L10	61.2
L50	56.8
L90	52.0
Ldn	
CNEL	

Observed Noise Sources/Events

Time	Noise Source/Event	dBA

Comments: _____

Equipment: LXT-1
 Settings: A-Weighted Other

Measured Difference: 0.00 dBA
 Slow Fast Windscreen

Atmospheric Conditions:

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)
8.9	2.1	72.2	60%
Comments: <u>Cloudy day w/ some wind</u>			

Project Number: 2648.0014
 Project Name: Scannell Properties Project
 Test Personnel: Spencer R.

Sheet ___ of ___

Noise Measurement Survey

Site Number: ST-3 Date: 9/17 Time: From 1:10 To 1:25

Site Location: SE corner of the project site, 20 feet to center of Parr Blvd.

Primary Noise Sources: Traffic on Parr Blvd.

Measurement Results

	dB(A)
Leq	68.6
Lmax	87.0
Lmin	49.5
L5	74.6
L10	72.3
L50	59.2
L90	51.7
Ldn	
CNEL	

Observed Noise Sources/Events

Time	Noise Source/Event	dB(A)

Comments: _____

Equipment: LXT-1
 Settings: A-Weighted Other

Measured Difference: 0.00 dB(A)
 Slow Fast Windscreen

Atmospheric Conditions:

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)
8.9	2.1	72.2	60%
Comments: <u>Cloudy day w/ some wind</u>			

TABLE Existing-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/01/2020
ROADWAY SEGMENT: Richmond Parkway - north of Parr Boulevard
NOTES: Scannell Project - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 31000 SPEED (MPH): 50 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	---	-----
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 70.96

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
84.6	176.4	377.2	811.1

TABLE Existing-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/01/2020
ROADWAY SEGMENT: Parr Boulevard - Richmond Parkway to Fred Jackson Way
NOTES: Scannell Project - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3300 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	---	-----
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.93

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	0.0	0.0	102.0

TABLE Existing-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/01/2020
ROADWAY SEGMENT: Richmond Parkway - south of Parr Boulevard
NOTES: Scannell Project - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 33200 SPEED (MPH): 50 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	---	-----
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 71.26

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
88.2	184.5	394.7	849.0

TABLE Existing-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/01/2020
ROADWAY SEGMENT: Fred Jackson Way - south of Parr Boulevard
NOTES: Scannell Project - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7500 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	---	-----
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.50

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	0.0	81.9	176.1

TABLE Existing with Scannell Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/01/2020
ROADWAY SEGMENT: Richmond Parkway - north of Parr Boulevard
NOTES: Scannell Project - Existing with Scannell Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 32200 SPEED (MPH): 50 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	
DAY	NIGHT
---	-----
AUTOS	
88.08	9.34
M-TRUCKS	
1.65	0.19
H-TRUCKS	
0.66	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 71.13

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
86.6	180.8	386.8	831.9

TABLE Existing with Scannell Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/01/2020

ROADWAY SEGMENT: Parr Boulevard - Richmond Parkway to Fred Jackson Way

NOTES: Scannell Project - Existing with Scannell Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7200 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	---	-----
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.32

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	0.0	79.7	171.3

TABLE Existing with Scannell Project-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/01/2020
ROADWAY SEGMENT: Richmond Parkway - south of Parr Boulevard
NOTES: Scannell Project - Existing with Scannell Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 35900 SPEED (MPH): 50 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	
DAY	NIGHT
---	-----
AUTOS	
88.08	9.34
M-TRUCKS	
1.65	0.19
H-TRUCKS	
0.66	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 71.60

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
92.6	194.2	415.8	894.4

TABLE Existing with Scannell Project-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/01/2020
ROADWAY SEGMENT: Fred Jackson Way - south of Parr Boulevard
NOTES: Scannell Project - Existing with Scannell Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7600 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	---	-----
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.56

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	0.0	82.6	177.6

TABLE Cumulative without Scannell Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/01/2020
ROADWAY SEGMENT: Richmond Parkway - north of Parr Boulevard
NOTES: Scannell Project - Cumulative without Scannell Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 45900 SPEED (MPH): 50 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	---	-----
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 72.67

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
108.1	228.3	489.6	1053.5

TABLE Cumulative without Scannell Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/01/2020

ROADWAY SEGMENT: Parr Boulevard - Richmond Parkway to Fred Jackson Way

NOTES: Scannell Project - Cumulative without Scannell Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5700 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	---	-----
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.31

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	0.0	68.3	146.7

TABLE Cumulative without Scannell Project-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/01/2020
ROADWAY SEGMENT: Richmond Parkway - south of Parr Boulevard
NOTES: Scannell Project - Cumulative without Scannell Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 49000 SPEED (MPH): 50 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	---	-----
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 72.95

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
112.7	238.3	511.3	1100.4

TABLE Cumulative without Scannell Project-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/01/2020
ROADWAY SEGMENT: Fred Jackson Way - south of Parr Boulevard
NOTES: Scannell Project - Cumulative without Scannell Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9100 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	---	-----
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.34

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	0.0	93.1	200.3

TABLE Cumulative with Scannell Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/01/2020
ROADWAY SEGMENT: Richmond Parkway - north of Parr Boulevard
NOTES: Scannell Project - Cumulative with Scannell Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 47100 SPEED (MPH): 50 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	
DAY	NIGHT
---	-----
AUTOS	
88.08	9.34
M-TRUCKS	
1.65	0.19
H-TRUCKS	
0.66	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 72.78

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
109.9	232.2	498.0	1071.8

TABLE Cumulative with Scannell Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/01/2020

ROADWAY SEGMENT: Parr Boulevard - Richmond Parkway to Fred Jackson Way

NOTES: Scannell Project - Cumulative with Scannell Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9500 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	---	-----
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.53

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	0.0	95.8	206.1

TABLE Cumulative with Scannell Project-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/01/2020
ROADWAY SEGMENT: Richmond Parkway - south of Parr Boulevard
NOTES: Scannell Project - Cumulative with Scannell Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 51700 SPEED (MPH): 50 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	---	-----
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 73.18

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
116.6	246.9	529.9	1140.4

TABLE Cumulative with Scannell Project-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/01/2020
ROADWAY SEGMENT: Fred Jackson Way - south of Parr Boulevard
NOTES: Scannell Project - Cumulative with Scannell Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9200 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	
DAY	NIGHT
---	-----
AUTOS	
88.08	9.34
M-TRUCKS	
1.65	0.19
H-TRUCKS	
0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.39

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	0.0	93.8	201.7
