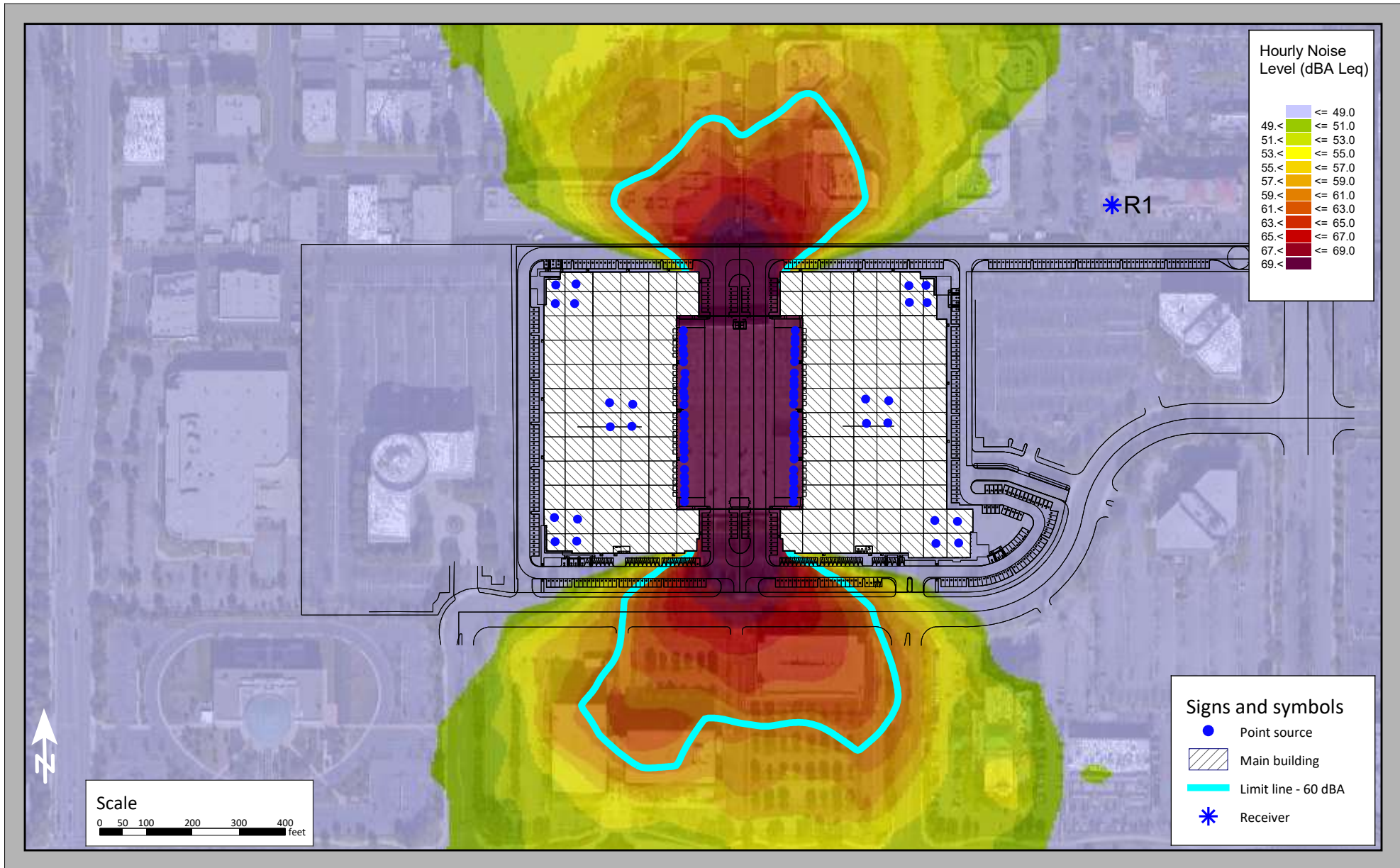


Goodman Commerce Center

Project No. CCP2201.03

Project Operational Noise Levels



Noise Measurement Survey – 24 HR

Project Number: CCP2201.03

Test Personnel: Kevin Nguyendo

Project Name: Goodman Commerce

Equipment: Spark 706RC (SN:905)

Site Number: LT-1 Date: 9/1/2022

Time: From 11:00 a.m. To 11:00 a.m.

Site Location: Northwest corner of 5757 Plaza Dr #100, Cypress, CA 90630 just south of 5626 Corporate Ave, Cypress, CA 90630 on a light pole.

Primary Noise Sources: Generally quiet with rare parking lot activity noise.

Comments: _____

Greater than 7 foot tall wall nearby

Photo:



Long-Term (24-Hour) Noise Level Measurement Results at LT-1

Start Time	Date	Noise Level (dBA)		
		L _{eq}	L _{max}	L _{min}
11:00 AM	9/1/22	61.8	76.1	54.3
12:00 PM	9/1/22	63.4	75.6	53.2
1:00 PM	9/1/22	64.5	76.2	58.6
2:00 PM	9/1/22	64.4	77.1	59.7
3:00 PM	9/1/22	64.0	78.3	59.3
4:00 PM	9/1/22	61.9	73.1	53.8
5:00 PM	9/1/22	58.2	75.7	48.6
6:00 PM	9/1/22	57.3	73.9	48.2
7:00 PM	9/1/22	54.2	68.7	48.9
8:00 PM	9/1/22	53.3	73.0	47.2
9:00 PM	9/1/22	54.7	72.8	46.4
10:00 PM	9/1/22	49.7	67.0	45.9
11:00 PM	9/1/22	47.8	61.4	45.4
12:00 AM	9/2/22	47.5	65.9	44.0
1:00 AM	9/2/22	45.0	59.4	42.9
2:00 AM	9/2/22	45.3	64.8	42.1
3:00 AM	9/2/22	47.0	68.7	42.5
4:00 AM	9/2/22	54.1	74.3	44.8
5:00 AM	9/2/22	56.2	71.3	47.7
6:00 AM	9/2/22	60.1	76.0	52.9
7:00 AM	9/2/22	57.5	70.9	51.4
8:00 AM	9/2/22	60.8	77.6	55.1
9:00 AM	9/2/22	61.6	74.5	58.1
10:00 AM	9/2/22	68.4	77.5	59.5

Source: Compiled by LSA Associates, Inc. (2022).

dBA = A-weighted decibel

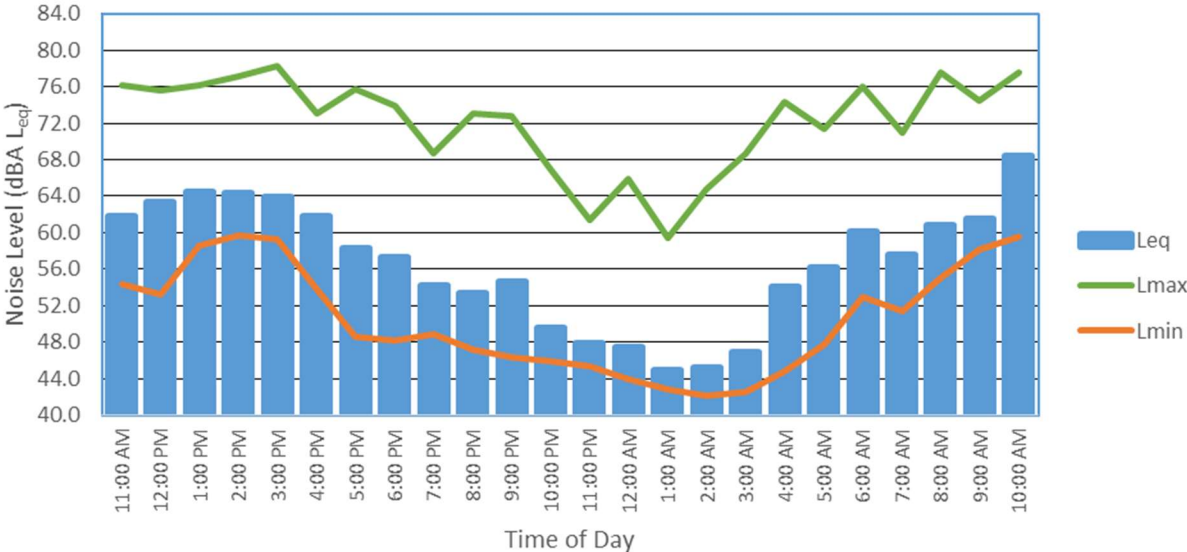
L_{eq} = equivalent continuous sound level

L_{max} = maximum instantaneous noise level

L_{min} = minimum measured sound level

Long-Term (24-Hour) Noise Level Measurement

LT-1



Noise Measurement Survey – 24 HR

Project Number: CCP2201.03
Project Name: Goodman Commerce

Test Personnel: Kevin Nguyendo
Equipment: Spark 706RC (SN:907)

Site Number: LT-2 Date: 9/1/2022

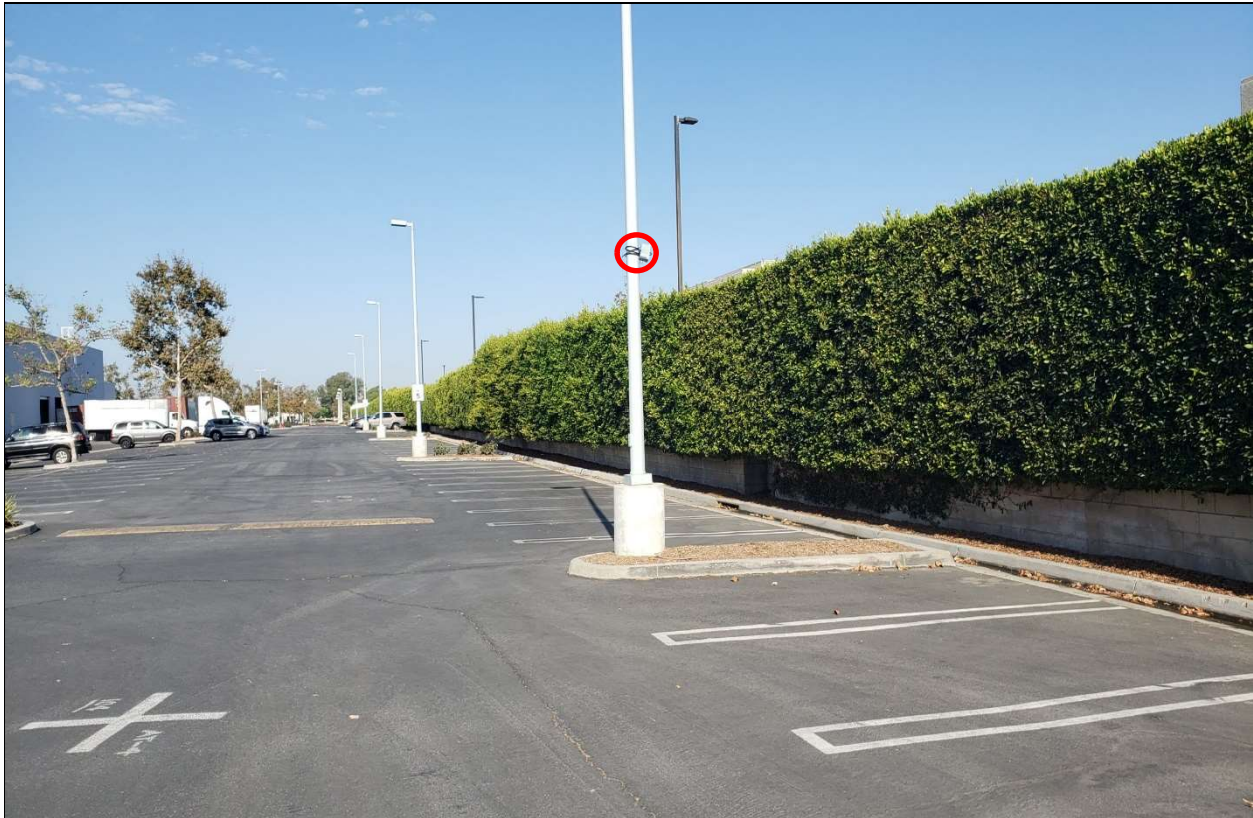
Time: From 11:00 a.m. To 11:00 a.m.

Site Location: Northeast corner of 5757 Plaza Dr #100, Cypress, CA 90630 near a parking lot Light pole.

Primary Noise Sources: Generally quiet with rare parking lot activity noise.

Comments: Greater than 7 foot tall wall nearby

Photo:



Long-Term (24-Hour) Noise Level Measurement Results at LT-2

Start Time	Date	Noise Level (dBA)		
		L _{eq}	L _{max}	L _{min}
11:00 AM	9/1/22	52.9	68.6	49.1
12:00 PM	9/1/22	53.8	69.6	49.2
1:00 PM	9/1/22	53.8	72.4	49.4
2:00 PM	9/1/22	52.4	60.9	49.7
3:00 PM	9/1/22	52.7	67.6	49.5
4:00 PM	9/1/22	52.6	64.5	49.3
5:00 PM	9/1/22	51.2	62.8	48.4
6:00 PM	9/1/22	51.3	64.4	48.0
7:00 PM	9/1/22	52.2	74.6	47.5
8:00 PM	9/1/22	52.0	67.9	47.7
9:00 PM	9/1/22	52.5	66.7	46.8
10:00 PM	9/1/22	49.5	62.7	45.1
11:00 PM	9/1/22	47.2	57.4	43.9
12:00 AM	9/2/22	49.2	58.4	44.3
1:00 AM	9/2/22	46.3	54.5	42.1
2:00 AM	9/2/22	45.5	62.6	41.8
3:00 AM	9/2/22	44.7	55.7	42.1
4:00 AM	9/2/22	48.3	61.5	43.9
5:00 AM	9/2/22	50.6	61.8	47.2
6:00 AM	9/2/22	52.3	70.5	48.7
7:00 AM	9/2/22	52.3	72.2	49.3
8:00 AM	9/2/22	53.0	72.0	48.7
9:00 AM	9/2/22	51.6	66.4	48.0
10:00 AM	9/2/22	52.9	66.1	47.7

Source: Compiled by LSA Associates, Inc. (2022).

dBA = A-weighted decibel

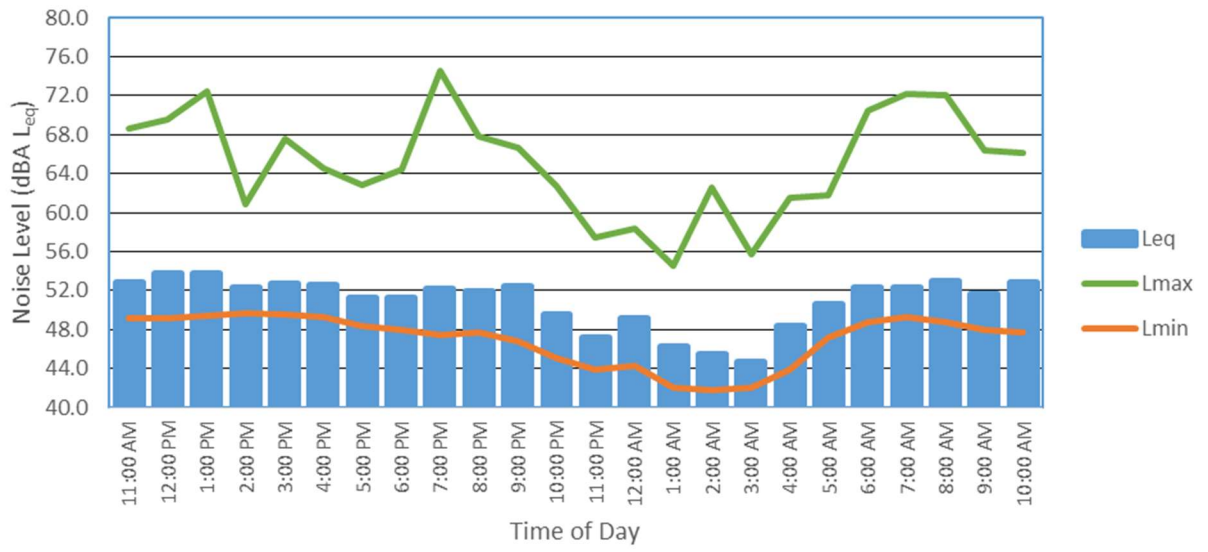
L_{eq} = equivalent continuous sound level

L_{max} = maximum instantaneous noise level

L_{min} = minimum measured sound level

Long-Term (24-Hour) Noise Level Measurement

LT-2



Noise Measurement Survey – 24 HR

Project Number: CCP2201.03
Project Name: Goodman Commerce

Test Personnel: Kevin Nguyendo
Equipment: Spark 706RC (SN:908)

Site Number: LT-3 Date: 9/1/2022

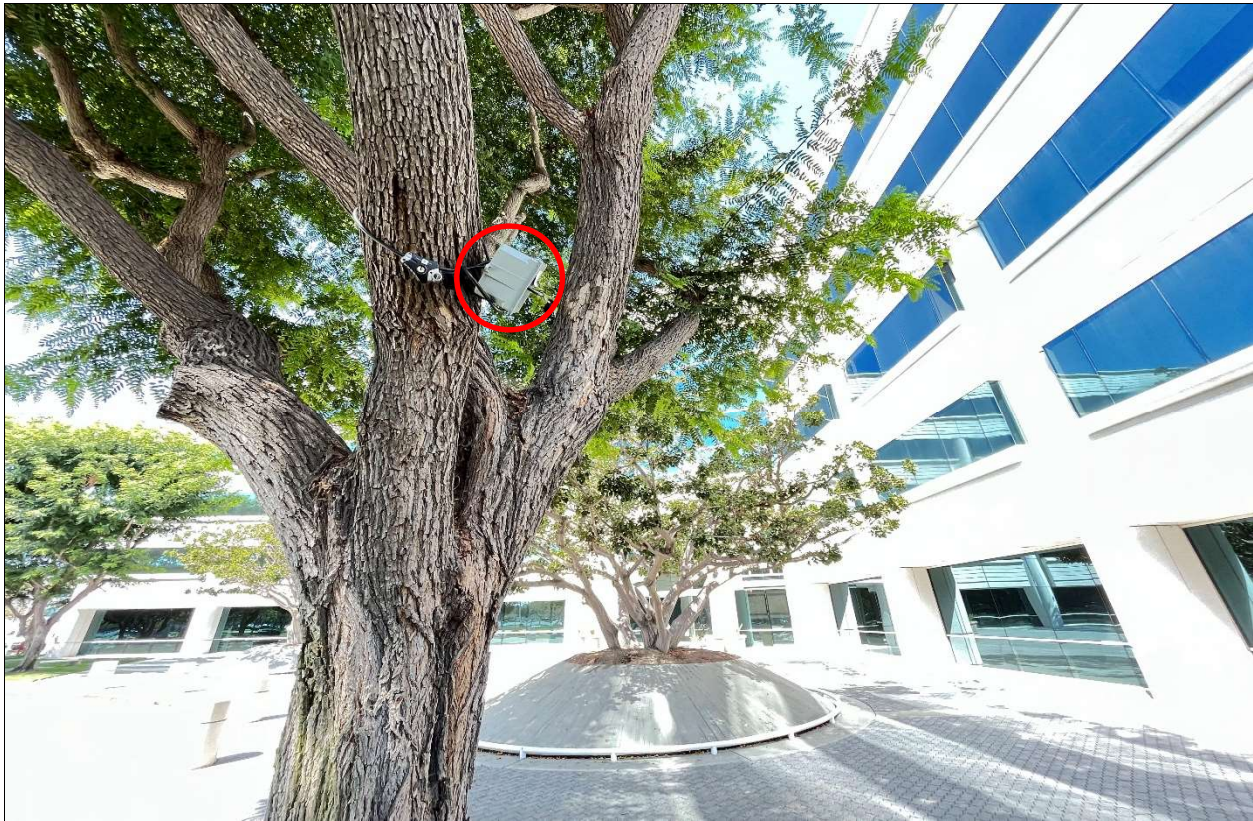
Time: From 11:00 a.m. To 11:00 a.m.

Site Location: East of the building entrance at 5665 Plaza Dr, Cypress, CA 90630 on a nearby tree.

Primary Noise Sources: Faint parking lot activity noise

Comments: _____

Photo:



Long-Term (24-Hour) Noise Level Measurement Results at LT-3

Start Time	Date	Noise Level (dBA)		
		L _{eq}	L _{max}	L _{min}
11:00 AM	9/1/22	54.5	64.7	48.8
12:00 PM	9/1/22	54.2	69.1	48.7
1:00 PM	9/1/22	52.9	67.6	48.8
2:00 PM	9/1/22	52.6	65.5	48.7
3:00 PM	9/1/22	52.3	63.5	48.3
4:00 PM	9/1/22	51.9	62.9	46.8
5:00 PM	9/1/22	53.3	63.5	49.1
6:00 PM	9/1/22	52.9	67.9	48.4
7:00 PM	9/1/22	51.8	66.3	48.4
8:00 PM	9/1/22	51.4	66.4	48.7
9:00 PM	9/1/22	51.1	64.2	46.7
10:00 PM	9/1/22	50.1	63.6	46.5
11:00 PM	9/1/22	48.4	60.1	45.2
12:00 AM	9/2/22	47.1	57.1	44.7
1:00 AM	9/2/22	45.7	52.9	43.0
2:00 AM	9/2/22	45.8	62.7	43.0
3:00 AM	9/2/22	47.2	61.9	43.1
4:00 AM	9/2/22	50.4	62.6	45.7
5:00 AM	9/2/22	51.5	64.7	48.2
6:00 AM	9/2/22	53.3	64.4	49.6
7:00 AM	9/2/22	53.1	61.5	50.4
8:00 AM	9/2/22	56.5	64.2	49.6
9:00 AM	9/2/22	54.6	64.5	49.3
10:00 AM	9/2/22	54.4	66.7	49.2

Source: Compiled by LSA Associates, Inc. (2022).

dBA = A-weighted decibel

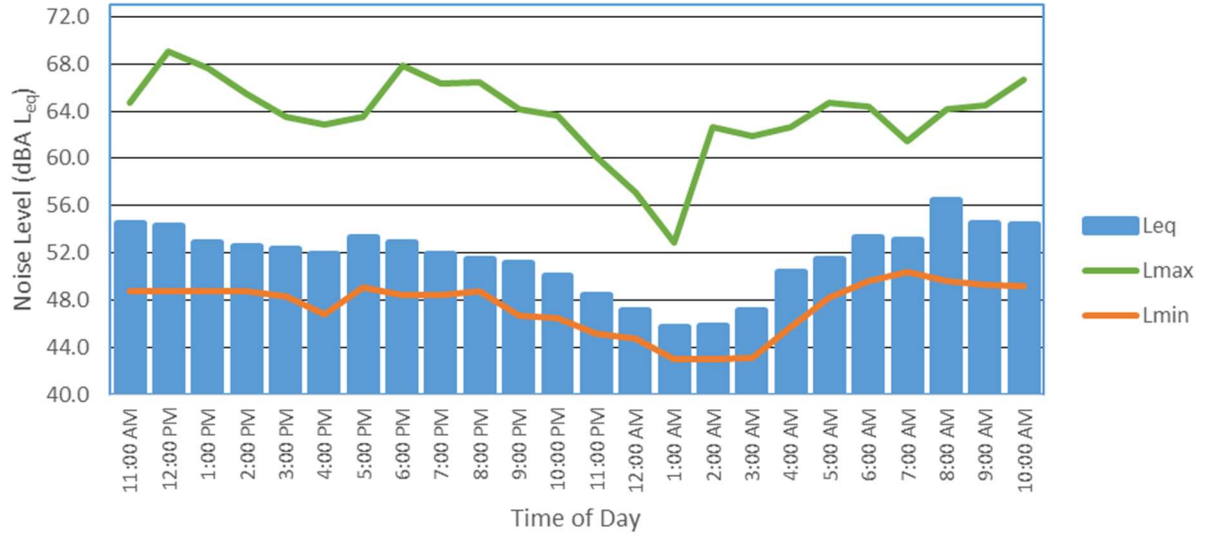
L_{eq} = equivalent continuous sound level

L_{max} = maximum instantaneous noise level

L_{min} = minimum measured sound level

Long-Term (24-Hour) Noise Level Measurement

LT-3



Noise Measurement Survey – 24 HR

Project Number: CCP2201.03
Project Name: Goodman Commerce

Test Personnel: Kevin Nguyendo
Equipment: Spark 705RC (SN:632)

Site Number: LT-4 Date: 9/1/2022

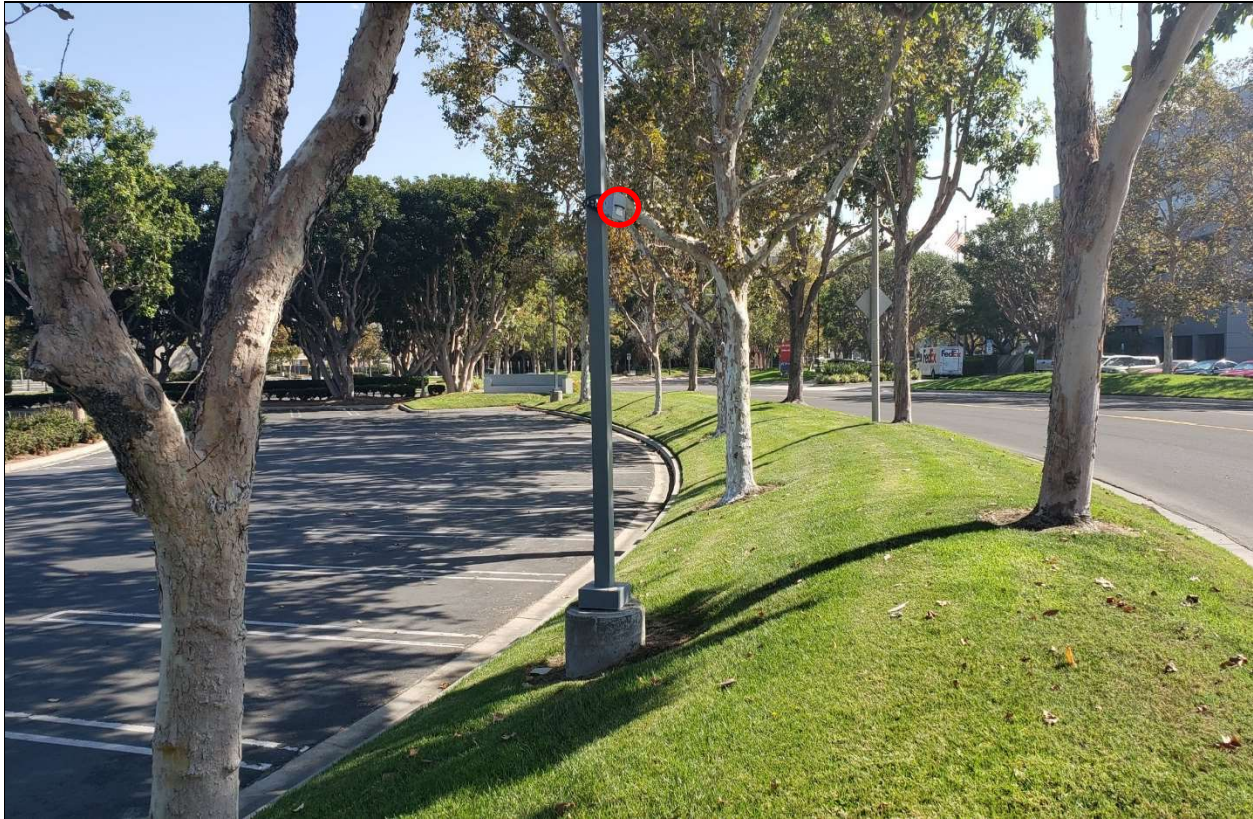
Time: From 11:00 a.m. To 11:00 a.m.

Site Location: Southeast corner of 5757 Plaza Dr #100, Cypress, CA 90630 on a pole.

Primary Noise Sources: Generally quiet with rare parking lot activity noise.

Comments: _____

Photo:



Long-Term (24-Hour) Noise Level Measurement Results at LT-4

Start Time	Date	Noise Level (dBA)		
		L _{eq}	L _{max}	L _{min}
11:00 AM	9/1/22	55.0	69.8	48.4
12:00 PM	9/1/22	56.4	71.5	48.8
1:00 PM	9/1/22	55.4	69.4	49.2
2:00 PM	9/1/22	55.1	72.5	49.0
3:00 PM	9/1/22	54.6	69.5	48.2
4:00 PM	9/1/22	54.7	70.4	47.6
5:00 PM	9/1/22	54.8	68.5	47.5
6:00 PM	9/1/22	53.3	69.5	47.7
7:00 PM	9/1/22	53.1	70.5	47.8
8:00 PM	9/1/22	52.2	71.5	47.4
9:00 PM	9/1/22	53.1	70.5	47.1
10:00 PM	9/1/22	50.4	63.1	47.0
11:00 PM	9/1/22	48.0	60.9	45.3
12:00 AM	9/2/22	48.0	65.0	45.0
1:00 AM	9/2/22	46.6	61.9	44.0
2:00 AM	9/2/22	46.2	61.3	44.2
3:00 AM	9/2/22	49.1	66.5	44.1
4:00 AM	9/2/22	49.9	69.0	45.5
5:00 AM	9/2/22	52.6	69.2	48.7
6:00 AM	9/2/22	53.2	71.3	48.0
7:00 AM	9/2/22	54.4	70.2	50.1
8:00 AM	9/2/22	55.8	71.7	48.0
9:00 AM	9/2/22	54.1	71.5	46.5
10:00 AM	9/2/22	54.3	72.0	46.8

Source: Compiled by LSA Associates, Inc. (2022).

dBA = A-weighted decibel

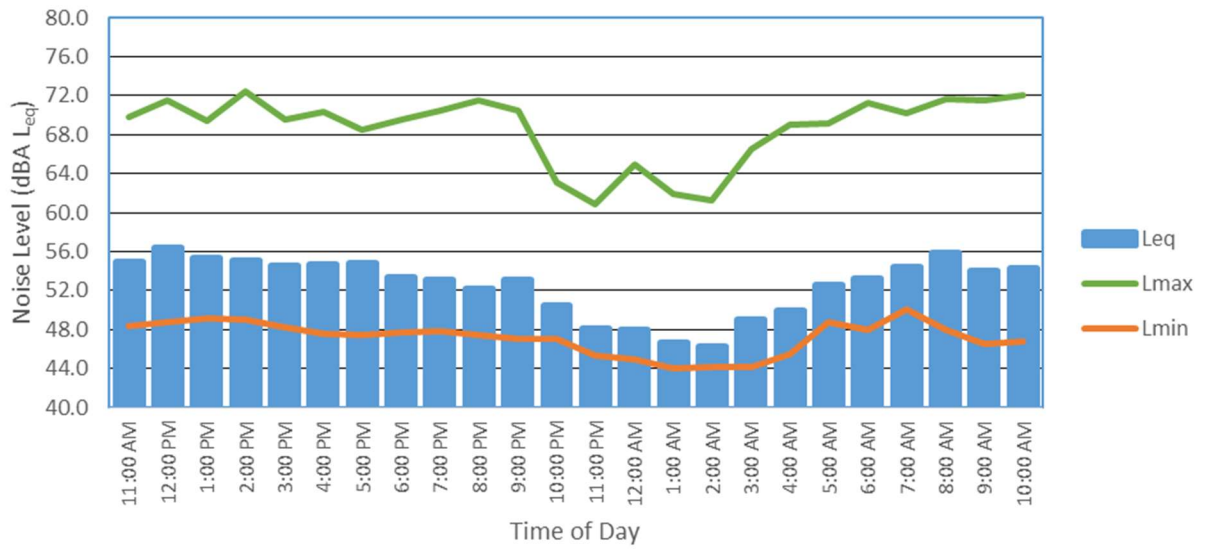
L_{eq} = equivalent continuous sound level

L_{max} = maximum instantaneous noise level

L_{min} = minimum measured sound level

Long-Term (24-Hour) Noise Level Measurement

LT-4



Construction Calculations

Phase: Demolition

Equipment	Quantity	Reference (dBA) 50 ft Lmax	Usage Factor ¹	Distance to Receptor (ft)	Ground Effects	Noise Level (dBA)	
						Lmax	Leq
Concrete Saw	1	90	20	50	0.5	90	83
Excavator	3	81	40	50	0.5	81	82
Dozer	2	82	40	50	0.5	82	81
Combined at 50 feet						91	87

Phase: Site Preparation

Equipment	Quantity	Reference (dBA) 50 ft Lmax	Usage Factor ¹	Distance to Receptor (ft)	Ground Effects	Noise Level (dBA)	
						Lmax	Leq
Dozer	3	82	40	50	0.5	82	83
Tractor	4	84	40	50	0.5	84	86
Combined at 50 feet						86	88
Combined at Receptor 450 feet						67	69
Combined at Receptor 600 feet						65	66
Combined at Receptor 900 feet						61	63

Phase: Grading

Equipment	Quantity	Reference (dBA) 50 ft Lmax	Usage Factor ¹	Distance to Receptor (ft)	Ground Effects	Noise Level (dBA)	
						Lmax	Leq
Excavator	2	81	40	50	0.5	81	80
Grader	1	85	40	50	0.5	85	81
Dozer	1	82	40	50	0.5	82	78
Scraper	2	84	40	50	0.5	84	83
Tractor	2	84	40	50	0.5	84	83
Combined at 50 feet						90	88
Combined at Receptor 450 feet						71	69
Combined at Receptor 910 feet						65	63
Combined at Receptor 990 feet						64	62

Phase: Building Construction

Equipment	Quantity	Reference (dBA) 50 ft Lmax	Usage Factor ¹	Distance to Receptor (ft)	Ground Effects	Noise Level (dBA)	
						Lmax	Leq
Crane	1	81	16	50	0.5	81	73
Man Lift	3	75	20	50	0.5	75	73
Generator	1	81	50	50	0.5	81	78
Tractor	3	84	40	50	0.5	84	85
Welder / Torch	1	74	40	50	0.5	74	70
Combined at 50 feet						87	86

Phase: Paving

Equipment	Quantity	Reference (dBA) 50 ft Lmax	Usage Factor ¹	Distance to Receptor (ft)	Ground Effects	Noise Level (dBA)	
						Lmax	Leq
Paver	2	77	50	50	0.5	77	77
All Other Equipment > 5 HP	2	85	50	50	0.5	85	85
Roller	2	80	20	50	0.5	80	76
Combined at 50 feet						87	86

Phase: Architectural Coating

Equipment	Quantity	Reference (dBA) 50 ft Lmax	Usage Factor ¹	Distance to Receptor (ft)	Ground Effects	Noise Level (dBA)	
						Lmax	Leq
Compressor (air)	1	78	40	50	0.5	78	74
Combined at 50 feet						78	74

Sources: RCNM

¹ - Percentage of time that a piece of equipment is operating at full power.

dBA – A-weighted Decibels

Lmax- Maximum Level

Leq- Equivalent Level

TABLE Existing - Without Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/02/2022
ROADWAY SEGMENT: Katella Avenue between Douglas Drive and Valley View Street
NOTES: Goodman Commerce Center Project - Existing - Without Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 34740 SPEED (MPH): 45 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 45 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 69.62

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
90.8	175.7	368.6	789.3

TABLE Existing - Without Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/02/2022
ROADWAY SEGMENT: Douglas Drive North of Katella Avenue
NOTES: Goodman Commerce Center Project - Existing - Without Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 890 SPEED (MPH): 25 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 48.34

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	0.0

TABLE Existing - Without Project-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/02/2022
ROADWAY SEGMENT: Plaza Drive West of McDonnell Drive
NOTES: Goodman Commerce Center Project - Existing - Without Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 650 SPEED (MPH): 25 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 46.97

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	0.0

TABLE Existing - Without Project-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/02/2022

ROADWAY SEGMENT: Plaza Drive between McDonnell Drive and Valley View Street

NOTES: Goodman Commerce Center Project - Existing - Without Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 790 SPEED (MPH): 25 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 47.82

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	0.0

TABLE Existing - Without Project-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/02/2022

ROADWAY SEGMENT: McDonnell Drive Between Katella Avenue and Plaza Drive

NOTES: Goodman Commerce Center Project - Existing - Without Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 280 SPEED (MPH): 25 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 35 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 43.03

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	0.0

TABLE Existing - Without Project-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/02/2022
ROADWAY SEGMENT: Valley View Street North of Katella Avenue
NOTES: Goodman Commerce Center Project - Existing - Without Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 34360 SPEED (MPH): 45 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 55 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 69.13

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
95.6	177.2	367.0	783.6

TABLE Existing - With Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/02/2022

ROADWAY SEGMENT: Katella Avenue between Douglas Drive and Valley View Street

NOTES: Goodman Commerce Center Project - Existing - With Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 34750 SPEED (MPH): 45 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 45 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 69.62

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
90.8	175.7	368.7	789.5

TABLE Existing - With Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/02/2022
ROADWAY SEGMENT: Douglas Drive North of Katella Avenue
NOTES: Goodman Commerce Center Project - Existing - With Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1000 SPEED (MPH): 25 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 48.84

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	0.0

TABLE Existing - With Project-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/02/2022
ROADWAY SEGMENT: Plaza Drive West of McDonnell Drive
NOTES: Goodman Commerce Center Project - Existing - With Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 770 SPEED (MPH): 25 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 47.71

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	0.0

TABLE Existing - With Project-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/02/2022
ROADWAY SEGMENT: Plaza Drive between McDonnell Drive and Valley View Street
NOTES: Goodman Commerce Center Project - Existing - With Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1000 SPEED (MPH): 25 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 48.84

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	0.0

TABLE Existing - With Project-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/02/2022

ROADWAY SEGMENT: McDonnell Drive Between Katella Avenue and Plaza Drive

NOTES: Goodman Commerce Center Project - Existing - With Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 290 SPEED (MPH): 25 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 35 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 43.18

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	0.0

TABLE Existing - With Project-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/02/2022
ROADWAY SEGMENT: Valley View Street North of Katella Avenue
NOTES: Goodman Commerce Center Project - Existing - With Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 34570 SPEED (MPH): 45 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 55 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 69.15

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
95.9	177.9	368.5	786.8

TABLE Cumulative - Without Project - 2024-01
 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/02/2022

ROADWAY SEGMENT: Katella Avenue between Douglas Drive and Valley View Street

NOTES: Goodman Commerce Center Project - Cumulative - Without Project - 2024

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 37570 SPEED (MPH): 45 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 45 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 69.96

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
94.5	184.5	388.1	831.5

TABLE Cumulative - Without Project - 2024-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/02/2022

ROADWAY SEGMENT: Douglas Drive North of Katella Avenue

NOTES: Goodman Commerce Center Project - Cumulative - Without Project - 2024

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 920 SPEED (MPH): 25 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 48.48

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	0.0

TABLE Cumulative - Without Project - 2024-03
 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/02/2022
 ROADWAY SEGMENT: Plaza Drive West of McDonnell Drive
 NOTES: Goodman Commerce Center Project - Cumulative - Without Project - 2024

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 680 SPEED (MPH): 25 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 47.17

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	0.0

TABLE Cumulative - Without Project - 2024-04
 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/02/2022

ROADWAY SEGMENT: Plaza Drive between McDonnell Drive and Valley View Street

NOTES: Goodman Commerce Center Project - Cumulative - Without Project - 2024

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 820 SPEED (MPH): 25 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 47.98

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	0.0

TABLE Cumulative - Without Project - 2024-05
 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/02/2022
 ROADWAY SEGMENT: McDonnell Drive Between Katella Avenue and Plaza Drive
 NOTES: Goodman Commerce Center Project - Cumulative - Without Project - 2024

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 280 SPEED (MPH): 25 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 35 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 43.03

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	0.0

TABLE Cumulative - Without Project - 2024-06
 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/02/2022
 ROADWAY SEGMENT: Valley View Street North of Katella Avenue
 NOTES: Goodman Commerce Center Project - Cumulative - Without Project - 2024

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 36080 SPEED (MPH): 45 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 55 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 69.34

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
97.7	182.5	378.9	809.4

TABLE Cumulative - With Project - 2024-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/02/2022

ROADWAY SEGMENT: Katella Avenue between Douglas Drive and Valley View Street

NOTES: Goodman Commerce Center Project - Cumulative - With Project - 2024

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 37580 SPEED (MPH): 45 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 45 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 69.96

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
94.5	184.5	388.1	831.6

TABLE Cumulative - With Project - 2024-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/02/2022

ROADWAY SEGMENT: Douglas Drive North of Katella Avenue

NOTES: Goodman Commerce Center Project - Cumulative - With Project - 2024

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1130 SPEED (MPH): 25 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 49.37

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	0.0

TABLE Cumulative - With Project - 2024-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/02/2022

ROADWAY SEGMENT: Plaza Drive West of McDonnell Drive

NOTES: Goodman Commerce Center Project - Cumulative - With Project - 2024

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 800 SPEED (MPH): 25 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 47.87

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	0.0

TABLE Cumulative - With Project - 2024-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/02/2022

ROADWAY SEGMENT: Plaza Drive between McDonnell Drive and Valley View Street

NOTES: Goodman Commerce Center Project - Cumulative - With Project - 2024

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1020 SPEED (MPH): 25 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 48.93

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	0.0

TABLE Cumulative - With Project - 2024-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/02/2022

ROADWAY SEGMENT: McDonnell Drive Between Katella Avenue and Plaza Drive

NOTES: Goodman Commerce Center Project - Cumulative - With Project - 2024

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 280 SPEED (MPH): 25 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 35 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 43.03

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
0.0	0.0	0.0	0.0

TABLE Cumulative - With Project - 2024-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 11/02/2022

ROADWAY SEGMENT: Valley View Street North of Katella Avenue

NOTES: Goodman Commerce Center Project - Cumulative - With Project - 2024

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 36290 SPEED (MPH): 45 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
	---	-----	-----
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 55 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 69.37

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
-----	-----	-----	-----
98.0	183.2	380.4	812.5
