
APPENDIX A

SHORT-TERM NOISE LEVEL MEASUREMENT SURVEY SHEETS

Project Number: NPD2001
Project Name: Sunset Crossroads
Test Personnel: Corey Knips



Noise Measurement Survey

Site Number: ST-1 Date: 11/23/21 Time: From 3:52 p.m. To 4:12 p.m.

Site Location: North edge of project site, near first utility pole to the east of the westernmost ravine.

Primary Noise Sources: Traffic on I-10, wind

Measurement Results

| | dBA |
|-------------------|-------|
| L _{eq} | 54.9 |
| L _{max} | 61.9 |
| L _{min} | 50.1 |
| L _{peak} | 106.1 |
| L ₂ | 58.3 |
| L ₈ | 56.8 |
| L ₂₅ | 55.6 |
| L ₅₀ | 54.4 |
| L ₉₀ | 52.4 |
| L ₉₉ | 51.0 |
| SEL | 85.6 |

Comments: _____

Equipment: Larson Davis 831 SLM Stored File: 505

Atmospheric Conditions:

| Maximum Wind Velocity (mph) | Average Wind Velocity (mph) | Temperature (F) | Relative Humidity (%) | Comments |
|-----------------------------|-----------------------------|-----------------|-----------------------|----------|
| 14.0 | 7.2 | 63.7 | 36.6 | |

Project Number: NPD2001
Project Name: Sunset Crossroads
Test Personnel: Corey Knips



Noise Measurement Survey

Site Number: ST-2 Date: 11/23/21 Time: From 3:19 p.m. To 3:39 p.m.

Site Location: Near northeast corner of project site, south of large tree
near I-10

Primary Noise Sources: Traffic on I-10

Measurement Results

| | dBA |
|-------------------|-------|
| L _{eq} | 52.7 |
| L _{max} | 62.2 |
| L _{min} | 47.8 |
| L _{peak} | 111.1 |
| L ₂ | 56.7 |
| L ₈ | 54.8 |
| L ₂₅ | 53.3 |
| L ₅₀ | 52.1 |
| L ₉₀ | 50.1 |
| L ₉₉ | 48.9 |
| SEL | 83.5 |

Comments: _____

Equipment: Larson Davis 831 SLM Stored File: .504

Atmospheric Conditions:

| Maximum Wind Velocity (mph) | Average Wind Velocity (mph) | Temperature (F) | Relative Humidity (%) | Comments |
|-----------------------------|-----------------------------|-----------------|-----------------------|------------------|
| 14.0 | 7.2 | 63.7 | 36.6 | wind from the SW |

Project Number: NPD2001
Project Name: Sunset Crossings
Test Personnel: Corey Knips



Noise Measurement Survey

Site Number: ST-3 Date: 11/23/21 Time: From 1:25 p.m. To 1:45 p.m.

Site Location: Northeast corner of Sunset Avenue and Westward Avenue, approximately 16 feet east of Sunset Avenue pavement and 22 feet north of Westward Avenue pavement

Primary Noise Sources: Wind, very light traffic on Sunset Avenue and Westward Avenue

Measurement Results

| | dB(A) |
|-------------------|-------|
| L _{eq} | 55.6 |
| L _{max} | 68.8 |
| L _{min} | 41.2 |
| L _{peak} | 109.9 |
| L ₂ | 63.8 |
| L ₈ | 59.6 |
| L ₂₅ | 55.9 |
| L ₅₀ | 52.2 |
| L ₉₀ | 47.0 |
| L ₉₉ | 42.2 |
| SEL | 86.5 |

Comments: Wind is only 5-8 mph near the ground, but palm tree fronds about 50 feet high are blowing around like it is 20+ mph up there
Filtered out tractor idling on other side of intersection for 2-3 minutes and dirt bikes and four-wheelers in parking lot.

Equipment: Larson Davis 831 SLM Stored File: 501

Atmospheric Conditions:

| Maximum Wind Velocity (mph) | Average Wind Velocity (mph) | Temperature (F) | Relative Humidity (%) | Comments |
|-----------------------------|-----------------------------|-----------------|-----------------------|----------|
| 11.0 | 5.7 | 72.9 | 18.2 | |

Project Number: NPD2001
Project Name: Sunset Crossroads
Test Personnel: Corey Knips



Noise Measurement Survey

Site Number: ST-4 Date: 11/23/21 Time: From 2:00 p.m. To 2:20 p.m.

Site Location: Northwest corner of Sunset Avenue and Bobcat Road, at
southeast corner of project site. Approximately 40 feet west of Sunset
Avenue

Primary Noise Sources: Wind, very light traffic on Sunset Avenue, one vehicle
on Bob Cat Road

Measurement Results

| | dBA |
|-------------------|--------------|
| L _{eq} | <u>48.3</u> |
| L _{max} | <u>65.4</u> |
| L _{min} | <u>33.3</u> |
| L _{peak} | <u>113.8</u> |
| L ₂ | <u>56.8</u> |
| L ₈ | <u>51.9</u> |
| L ₂₅ | <u>46.3</u> |
| L ₅₀ | <u>42.3</u> |
| L ₉₀ | <u>37.5</u> |
| L ₉₉ | <u>34.0</u> |
| SEL | <u>79.4</u> |

Comments: Filtered out several 4-wheelers and a dirt bike (several different events)
Gusts of wind up to 14 mph (≈ 50 dBA⁺)

Equipment: Larson Davis 831 SLM Stored File: 502

Atmospheric Conditions:

| Maximum Wind Velocity (mph) | Average Wind Velocity (mph) | Temperature (F) | Relative Humidity (%) | Comments |
|-----------------------------|-----------------------------|-----------------|-----------------------|----------|
| <u>14.2</u> | <u>6.5</u> | <u>73.3</u> | <u>23.2</u> | |

Project Number: NPD2001
Project Name: Sunset Crossroads
Test Personnel: Corey Knips



Noise Measurement Survey

Site Number: ST-5 Date: 11/23/21 Time: From 2:38 p.m. To 2:58 p.m.

Site Location: South edge of project site, near the west end of Bob Cat Road

Primary Noise Sources: Wind, faint aircraft noise

Measurement Results

| | dBA |
|-------------------|--------------|
| L _{eq} | <u>43.1</u> |
| L _{max} | <u>55.3</u> |
| L _{min} | <u>33.7</u> |
| L _{peak} | <u>107.7</u> |
| L ₂ | <u>49.8</u> |
| L ₈ | <u>46.9</u> |
| L ₂₅ | <u>43.7</u> |
| L ₅₀ | <u>40.9</u> |
| L ₉₀ | <u>36.5</u> |
| L ₉₉ | <u>34.4</u> |
| SEL | <u>73.9</u> |

Comments: Filtered out aircraft noise

Equipment: Larson Davis 831 SLM Stored File: .503

Atmospheric Conditions:

| Maximum Wind Velocity (mph) | Average Wind Velocity (mph) | Temperature (F) | Relative Humidity (%) | Comments |
|-----------------------------|-----------------------------|-----------------|-----------------------|----------|
| <u>13.3</u> | <u>7.4</u> | <u>69.9</u> | <u>29.8</u> | |

APPENDIX C

FHWA HIGHWAY TRAFFIC NOISE MODEL PRINTOUTS (OPERATIONS)

TABLE Existing No Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Highland Springs Avenue North of 6th Street/Ramsey
Street

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 22300 SPEED (MPH): 35 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): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.17

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 87.2 | 182.1 | 389.5 |

TABLE Existing No Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Highland Springs Avenue Between 6th Street/Ramsey Street
and I-10 WB Ramps

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 30300 SPEED (MPH): 35 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): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.50

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 105.5 | 222.7 | 477.5 |

TABLE Existing No Project-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Highland Springs Avenue Between I-10 WB Ramps and I-10
EB Ramps

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 33450 SPEED (MPH): 35 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): 18 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.36

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 54.1 | 111.3 | 237.3 | 509.9 |

TABLE Existing No Project-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Highland Springs Avenue South of I-10 EB Ramps

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 41500 SPEED (MPH): 35 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): 37 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.10

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 69.4 | 131.9 | 275.2 | 588.5 |

TABLE Existing No Project-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Highland Springs Avenue North of 1st Street/Sun Lakes
Boulevard

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 15400 SPEED (MPH): 35 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): 43 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.49

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 78.2 | 147.2 | 306.3 |

TABLE Existing No Project-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Highland Springs Avenue Between 1st Street/Sun Lakes
Boulevard and Potero Boulevard

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7700 SPEED (MPH): 35 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): 28 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.30

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 93.1 | 193.3 |

TABLE Existing No Project-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Highland Springs Avenue South of Potero Boulevard

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4850 SPEED (MPH): 35 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): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.55

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 69.6 | 142.7 |

TABLE Existing No Project-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Highland Home Road Between Driveway 1 and Sun Lakes
Boulevard/Westward Avenue

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 0 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 22.59

| 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 No Project-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Highland Home Road South of Sun Lakes Boulevard/Westward Avenue

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 150 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 44.35

| 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 No Project-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Sunset Avenue North of Ramsey Street

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 11700 SPEED (MPH): 40 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): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.79

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 71.9 | 148.0 | 315.4 |

TABLE Existing No Project-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Sunset Avenue Between Ramsey Street and I-10 WB Ramps

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13275 SPEED (MPH): 35 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): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.92

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 64.0 | 129.9 | 276.1 |

TABLE Existing No Project-12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Sunset Avenue Between I-10 WB Ramps and I-10 EB Ramps

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9650 SPEED (MPH): 35 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): 21 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.74

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 105.4 | 223.5 |

TABLE Existing No Project-13
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Sunset Avenue Between I-10 EB Ramps and Driveway 19

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4075 SPEED (MPH): 35 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): 12 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.71

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 59.4 | 125.9 |

TABLE Existing No Project-14
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 19 and Lincoln Street

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4100 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.32

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 58.8 | 126.1 |

TABLE Existing No Project-15
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Sunset Avenue Between Lincoln Street and Westward Avenue

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1575 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 56.17

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 66.8 |

TABLE Existing No Project-16
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Sunset Avenue Between Westward Avenue and Driveway 20

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 250 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 48.17

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

TABLE Existing No Project-17
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 20 and Driveway 21

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 250 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 48.17

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

TABLE Existing No Project-18
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 21 and Driveway 22

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 250 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 48.17

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

TABLE Existing No Project-19
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 22 and Bobcat Road

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 250 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 48.17

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

TABLE Existing No Project-20
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: 6th Street West of Highland Springs Road

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 18300 SPEED (MPH): 35 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): 42 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.28

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 84.5 | 163.4 | 342.8 |

TABLE Existing No Project-21
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Ramsey Street East of Highland Springs Road

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 16850 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): 42 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.62

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 113.0 | 229.8 | 488.5 |

TABLE Existing No Project-22
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Ramsey Street West of Highland Home Road

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13900 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): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.43

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 97.1 | 201.2 | 429.6 |

TABLE Existing No Project-23
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Ramsey Street East of Highland Home Road

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12450 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): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.95

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 90.9 | 187.3 | 399.3 |

TABLE Existing No Project-24
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Ramsey Street West of Sunset Avenue

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13750 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): 31 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.32

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 96.8 | 199.9 | 426.5 |

TABLE Existing No Project-25
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Ramsey Street East of Sunset Avenue

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13100 SPEED (MPH): 40 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): 26 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.15

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 77.6 | 159.5 | 340.0 |

TABLE Existing No Project-26
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: 1st Street West of Highland Springs Road

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9350 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): 32 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.59

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 77.8 | 156.0 | 330.5 |

TABLE Existing No Project-27
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Sun Lakes Boulevard East of Highland Springs Road

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7300 SPEED (MPH): 35 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): 32 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.83

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 91.5 | 187.3 |

TABLE Existing No Project-28
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Sun Lakes Boulevard West of Highland Home Road

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 150 SPEED (MPH): 35 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): 28 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 44.19

| 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 No Project-29
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Lincoln Street East of Sunset Avenue

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2300 SPEED (MPH): 40 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.23

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 106.7 |

TABLE Existing No Project-30
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Westward Avenue East of Sunset Avenue

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 900 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 53.74

| 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 No Project-31
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 5 and Driveway 8

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 0 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 22.59

| 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 No Project-32
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 8 and Driveway 12

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 0 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 22.59

| 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 No Project-33
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 12 and Driveway 18

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 0 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 22.59

| 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 No Project-34
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/21/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 18 and Sunset Avenue

NOTES: Sunset Crossroads - Existing No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 0 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 22.59

| 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 + Phase 1a-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Highland Springs Avenue North of 6th Street/Ramsey
Street

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 22550 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.53 | 12.57 | 9.34 |
| M-TRUCKS | 1.54 | 0.09 | 0.19 |
| H-TRUCKS | 0.63 | 0.02 | 0.09 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.28

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 88.5 | 185.0 | 395.8 |

TABLE Existing + Phase 1a-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Highland Springs Avenue Between 6th Street/Ramsey Street
and I-10 WB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 30650 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.53 | 12.57 | 9.34 |
| M-TRUCKS | 1.54 | 0.09 | 0.19 |
| H-TRUCKS | 0.63 | 0.02 | 0.09 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.61

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 107.2 | 226.3 | 485.4 |

TABLE Existing + Phase 1a-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Highland Springs Avenue Between I-10 WB Ramps and I-10
EB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 34050 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.19 | 12.52 | 9.30 |
| M-TRUCKS | 1.57 | 0.09 | 0.19 |
| H-TRUCKS | 0.99 | 0.03 | 0.12 |

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.93

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 58.5 | 121.2 | 258.8 | 556.4 |

TABLE Existing + Phase 1a-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Highland Springs Avenue South of I-10 EB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 42300 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.31 | 12.54 | 9.31 |
| M-TRUCKS | | | |
| | 1.55 | 0.09 | 0.19 |
| H-TRUCKS | | | |
| | 0.87 | 0.03 | 0.11 |

ACTIVE HALF-WIDTH (FT): 37 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.54

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 72.9 | 140.4 | 294.0 | 629.4 |

TABLE Existing + Phase 1a-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Highland Springs Avenue North of 1st Street/Sun Lakes Boulevard

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 16200 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 74.99 | 12.48 | 9.27 |
| M-TRUCKS | | | |
| | 1.54 | 0.09 | 0.19 |
| H-TRUCKS | | | |
| | 1.24 | 0.04 | 0.16 |

ACTIVE HALF-WIDTH (FT): 43 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.58

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 88.5 | 172.0 | 361.3 |

TABLE Existing + Phase 1a-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Highland Springs Avenue Between 1st Street/Sun Lakes
Boulevard and Potero Boulevard

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7950 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.57 | 12.58 | 9.35 |
| M-TRUCKS | 1.51 | 0.09 | 0.19 |
| H-TRUCKS | 0.62 | 0.03 | 0.06 |

ACTIVE HALF-WIDTH (FT): 28 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.30

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 93.2 | 193.4 |

TABLE Existing + Phase 1a-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Highland Springs Avenue South of Potero Boulevard

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5000 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.58 | 12.58 | 9.34 |
| M-TRUCKS | 1.52 | 0.08 | 0.18 |
| H-TRUCKS | 0.62 | 0.02 | 0.08 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.64

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 70.4 | 144.6 |

TABLE Existing + Phase 1a-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Highland Home Road Between Driveway 1 and Sun Lakes
Boulevard/Westward Avenue

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 0 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 22.59

| 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 + Phase 1a-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Highland Home Road South of Sun Lakes Boulevard/Westward Avenue

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 150 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.33 | 12.67 | 9.33 |
| M-TRUCKS | 1.33 | 0.00 | 0.00 |
| H-TRUCKS | 0.67 | 0.00 | 0.67 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 47.26

| 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 + Phase 1a-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue North of Ramsey Street

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 11900 SPEED (MPH): 40 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.55 | 12.58 | 9.34 |
| M-TRUCKS | | | |
| | 1.54 | 0.09 | 0.18 |
| H-TRUCKS | | | |
| | 0.63 | 0.02 | 0.07 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.78

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 71.8 | 147.7 | 314.8 |

TABLE Existing + Phase 1a-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue Between Ramsey Street and I-10 WB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13625 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.56 | 12.58 | 9.35 |
| M-TRUCKS | | | |
| | 1.52 | 0.09 | 0.18 |
| H-TRUCKS | | | |
| | 0.62 | 0.02 | 0.08 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.00

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 64.6 | 131.4 | 279.4 |

TABLE Existing + Phase 1a-12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue Between I-10 WB Ramps and I-10 EB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12700 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 70.83 | 11.79 | 8.76 |
| M-TRUCKS | | | |
| | 1.70 | 0.10 | 0.20 |
| H-TRUCKS | | | |
| | 5.72 | 0.18 | 0.72 |

ACTIVE HALF-WIDTH (FT): 21 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.48

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 57.6 | 117.5 | 249.9 | 536.7 |

TABLE Existing + Phase 1a-13
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue Between I-10 EB Ramps and Driveway 19

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9850 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 67.45 | 11.22 | 8.35 |
| M-TRUCKS | 1.54 | 0.09 | 0.19 |
| H-TRUCKS | 9.65 | 0.30 | 1.21 |

ACTIVE HALF-WIDTH (FT): 12 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 69.83

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 60.4 | 128.1 | 274.9 | 591.8 |

TABLE Existing + Phase 1a-14
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 19 and Lincoln Street

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9850 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 67.48 | 11.23 | 8.35 |
| M-TRUCKS | | | |
| | 1.54 | 0.09 | 0.19 |
| H-TRUCKS | | | |
| | 9.61 | 0.30 | 1.21 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 70.40

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 59.5 | 127.6 | 274.7 | 591.5 |

TABLE Existing + Phase 1a-15
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue Between Lincoln Street and Westward Avenue

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7700 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 65.30 | 10.88 | 8.08 |
| M-TRUCKS | 1.47 | 0.08 | 0.18 |
| H-TRUCKS | 12.11 | 0.38 | 1.52 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 70.16

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 57.3 | 123.0 | 264.6 | 569.9 |

TABLE Existing + Phase 1a-16
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue Between Westward Avenue and Driveway 20

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 650 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 70.92 | 11.69 | 8.77 |
| M-TRUCKS | | | |
| | 1.23 | 0.00 | 0.00 |
| H-TRUCKS | | | |
| | 6.31 | 0.15 | 0.93 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 57.29

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 79.3 |

TABLE Existing + Phase 1a-17
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 20 and Driveway 21

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 500 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 68.14 | 11.22 | 8.42 |
| M-TRUCKS | 1.60 | 0.00 | 0.20 |
| H-TRUCKS | 9.02 | 0.20 | 1.20 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 57.29

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 79.3 |

TABLE Existing + Phase 1a-18
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 21 and Driveway 22

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 250 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.60 | 12.40 | 9.20 |
| M-TRUCKS | | | |
| | 1.60 | 0.00 | 0.00 |
| H-TRUCKS | | | |
| | 0.80 | 0.00 | 0.40 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 49.70

| 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 + Phase 1a-19
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 22 and Bobcat Road

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 250 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.60 | 12.40 | 9.20 |
| M-TRUCKS | | | |
| | 1.60 | 0.00 | 0.00 |
| H-TRUCKS | | | |
| | 0.80 | 0.00 | 0.40 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 49.70

| 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 + Phase 1a-20
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: 6th Street West of Highland Springs Road

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 18450 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.53 | 12.57 | 9.34 |
| M-TRUCKS | | | |
| | 1.54 | 0.09 | 0.19 |
| H-TRUCKS | | | |
| | 0.63 | 0.02 | 0.09 |

ACTIVE HALF-WIDTH (FT): 42 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.38

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 85.4 | 165.6 | 347.6 |

TABLE Existing + Phase 1a-21
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Ramsey Street East of Highland Springs Road

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 16850 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): 42 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.62

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 113.0 | 229.8 | 488.5 |

TABLE Existing + Phase 1a-22
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Ramsey Street West of Highland Home Road

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13900 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): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.43

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 97.1 | 201.2 | 429.6 |

TABLE Existing + Phase 1a-23
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Ramsey Street East of Highland Home Road

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12550 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): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.99

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 91.3 | 188.2 | 401.4 |

TABLE Existing + Phase 1a-24
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Ramsey Street West of Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13850 SPEED (MPH): 45 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.53 | 12.57 | 9.34 |
| M-TRUCKS | | | |
| | 1.55 | 0.09 | 0.19 |
| H-TRUCKS | | | |
| | 0.64 | 0.02 | 0.07 |

ACTIVE HALF-WIDTH (FT): 31 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.30

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 96.5 | 199.2 | 425.0 |

TABLE Existing + Phase 1a-25
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Ramsey Street East of Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13100 SPEED (MPH): 40 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): 26 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.15

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 77.6 | 159.5 | 340.0 |

TABLE Existing + Phase 1a-26
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: 1st Street West of Highland Springs Road

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9500 SPEED (MPH): 45 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.54 | 12.57 | 9.34 |
| M-TRUCKS | | | |
| | 1.54 | 0.08 | 0.19 |
| H-TRUCKS | | | |
| | 0.63 | 0.02 | 0.09 |

ACTIVE HALF-WIDTH (FT): 32 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.70

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 78.9 | 158.5 | 335.9 |

TABLE Existing + Phase 1a-27
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sun Lakes Boulevard East of Highland Springs Road

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8450 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 74.59 | 12.42 | 9.23 |
| M-TRUCKS | | | |
| | 1.47 | 0.09 | 0.18 |
| H-TRUCKS | | | |
| | 1.75 | 0.05 | 0.22 |

ACTIVE HALF-WIDTH (FT): 32 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.90

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 63.3 | 122.0 | 255.6 |

TABLE Existing + Phase 1a-28
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sun Lakes Boulevard West of Highland Home Road

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1450 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 70.28 | 11.72 | 8.69 |
| M-TRUCKS | | | |
| | 0.83 | 0.07 | 0.07 |
| H-TRUCKS | | | |
| | 7.17 | 0.21 | 0.96 |

ACTIVE HALF-WIDTH (FT): 28 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.31

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 71.2 | 143.9 |

TABLE Existing + Phase 1a-29
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Lincoln Street East of Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2650 SPEED (MPH): 40 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.77 | 12.60 | 9.40 |
| M-TRUCKS | | | |
| | 1.36 | 0.08 | 0.15 |
| H-TRUCKS | | | |
| | 0.57 | 0.00 | 0.07 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.60

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 52.7 | 113.0 |

TABLE Existing + Phase 1a-30
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Westward Avenue East of Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 900 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 53.74

| 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 + Phase 1a-31
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 5 and Driveway 8

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 0 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 22.59

| 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 + Phase 1a-32
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 8 and Driveway 12

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 0 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 22.59

| 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 + Phase 1a-33
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 12 and Driveway 18

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 0 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 22.59

| 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 + Phase 1a-34
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 18 and Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1a

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 0 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 22.59

| 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 + Phase 1b-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Highland Springs Avenue North of 6th Street/Ramsey
Street

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 22550 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.53 | 12.57 | 9.34 |
| M-TRUCKS | 1.54 | 0.09 | 0.19 |
| H-TRUCKS | 0.63 | 0.02 | 0.09 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.28

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 88.5 | 185.0 | 395.8 |

TABLE Existing + Phase 1b-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Highland Springs Avenue Between 6th Street/Ramsey Street
and I-10 WB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 30650 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.53 | 12.57 | 9.34 |
| M-TRUCKS | 1.54 | 0.09 | 0.19 |
| H-TRUCKS | 0.63 | 0.02 | 0.09 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.61

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 107.2 | 226.3 | 485.4 |

TABLE Existing + Phase 1b-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Highland Springs Avenue Between I-10 WB Ramps and I-10
EB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 33900 SPEED (MPH): 35 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): 18 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.42

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 54.5 | 112.3 | 239.4 | 514.4 |

TABLE Existing + Phase 1b-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Highland Springs Avenue South of I-10 EB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 42000 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.53 | 12.58 | 9.34 |
| M-TRUCKS | 1.54 | 0.09 | 0.19 |
| H-TRUCKS | 0.63 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 37 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.14

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 69.8 | 132.7 | 276.9 | 592.3 |

TABLE Existing + Phase 1b-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Highland Springs Avenue North of 1st Street/Sun Lakes
Boulevard

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 15900 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.57 | 12.58 | 9.35 |
| M-TRUCKS | 1.51 | 0.09 | 0.18 |
| H-TRUCKS | 0.62 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 43 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.59

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 79.1 | 149.3 | 310.9 |

TABLE Existing + Phase 1b-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Highland Springs Avenue Between 1st Street/Sun Lakes
Boulevard and Potero Boulevard

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7950 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.57 | 12.58 | 9.35 |
| M-TRUCKS | | | |
| | 1.51 | 0.09 | 0.19 |
| H-TRUCKS | | | |
| | 0.62 | 0.03 | 0.06 |

ACTIVE HALF-WIDTH (FT): 28 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.30

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 93.2 | 193.4 |

TABLE Existing + Phase 1b-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Highland Springs Avenue South of Potero Boulevard

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5000 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.58 | 12.58 | 9.34 |
| M-TRUCKS | 1.52 | 0.08 | 0.18 |
| H-TRUCKS | 0.62 | 0.02 | 0.08 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.64

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 70.4 | 144.6 |

TABLE Existing + Phase 1b-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Highland Home Road Between Driveway 1 and Sun Lakes
Boulevard/Westward Avenue

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 0 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 22.59

| 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 + Phase 1b-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Highland Home Road South of Sun Lakes Boulevard/Westward Avenue

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 150 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.33 | 12.67 | 9.33 |
| M-TRUCKS | 1.33 | 0.00 | 0.00 |
| H-TRUCKS | 0.67 | 0.00 | 0.67 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 47.26

| 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 + Phase 1b-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue North of Ramsey Street

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 11900 SPEED (MPH): 40 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.55 | 12.58 | 9.34 |
| M-TRUCKS | | | |
| | 1.54 | 0.09 | 0.18 |
| H-TRUCKS | | | |
| | 0.63 | 0.02 | 0.07 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.78

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 71.8 | 147.7 | 314.8 |

TABLE Existing + Phase 1b-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue Between Ramsey Street and I-10 WB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13625 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.56 | 12.58 | 9.35 |
| M-TRUCKS | | | |
| | 1.52 | 0.09 | 0.18 |
| H-TRUCKS | | | |
| | 0.62 | 0.02 | 0.08 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.00

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 64.6 | 131.4 | 279.4 |

TABLE Existing + Phase 1b-12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue Between I-10 WB Ramps and I-10 EB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13350 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 72.72 | 12.10 | 8.99 |
| M-TRUCKS | | | |
| | 1.46 | 0.09 | 0.17 |
| H-TRUCKS | | | |
| | 3.87 | 0.12 | 0.48 |

ACTIVE HALF-WIDTH (FT): 21 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.46

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 101.2 | 214.2 | 459.7 |

TABLE Existing + Phase 1b-13
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue Between I-10 EB Ramps and Driveway 19

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 11125 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 67.68 | 11.27 | 8.38 |
| M-TRUCKS | | | |
| | 1.49 | 0.09 | 0.19 |
| H-TRUCKS | | | |
| | 9.44 | 0.30 | 1.16 |

ACTIVE HALF-WIDTH (FT): 12 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 70.24

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 64.2 | 136.4 | 292.9 | 630.6 |

TABLE Existing + Phase 1b-14
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 19 and Lincoln Street

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 11150 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 67.70 | 11.27 | 8.38 |
| M-TRUCKS | | | |
| | 1.49 | 0.09 | 0.19 |
| H-TRUCKS | | | |
| | 9.42 | 0.30 | 1.16 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 70.83

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 63.5 | 136.2 | 293.2 | 631.5 |

TABLE Existing + Phase 1b-15
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue Between Lincoln Street and Westward Avenue

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9025 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 65.89 | 10.97 | 8.15 |
| M-TRUCKS | 1.40 | 0.08 | 0.18 |
| H-TRUCKS | 11.53 | 0.35 | 1.45 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 70.66

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 61.9 | 132.9 | 285.9 | 615.8 |

TABLE Existing + Phase 1b-16
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue Between Westward Avenue and Driveway 20

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7650 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 64.23 | 10.69 | 7.95 |
| M-TRUCKS | | | |
| | 1.37 | 0.08 | 0.17 |
| H-TRUCKS | | | |
| | 13.41 | 0.42 | 1.68 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 70.50

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 60.4 | 129.6 | 278.8 | 600.5 |

TABLE Existing + Phase 1b-17
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 20 and Driveway 21

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7375 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 63.97 | 10.64 | 7.91 |
| M-TRUCKS | 1.37 | 0.08 | 0.16 |
| H-TRUCKS | 13.72 | 0.42 | 1.73 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 70.43

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 59.8 | 128.2 | 276.0 | 594.4 |

TABLE Existing + Phase 1b-18
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 21 and Driveway 22

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7250 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 64.05 | 10.65 | 7.92 |
| M-TRUCKS | | | |
| | 1.37 | 0.08 | 0.17 |
| H-TRUCKS | | | |
| | 13.64 | 0.43 | 1.69 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 70.31

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 58.7 | 125.8 | 270.8 | 583.2 |

TABLE Existing + Phase 1b-19
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 22 and Bobcat Road

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 6150 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 63.14 | 10.50 | 7.80 |
| M-TRUCKS | 1.45 | 0.08 | 0.18 |
| H-TRUCKS | 14.55 | 0.46 | 1.84 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 69.88

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 55.0 | 117.9 | 253.8 | 546.5 |

TABLE Existing + Phase 1b-20
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: 6th Street West of Highland Springs Road

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 18450 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.53 | 12.57 | 9.34 |
| M-TRUCKS | | | |
| | 1.54 | 0.09 | 0.19 |
| H-TRUCKS | | | |
| | 0.63 | 0.02 | 0.09 |

ACTIVE HALF-WIDTH (FT): 42 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.38

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 85.4 | 165.6 | 347.6 |

TABLE Existing + Phase 1b-21
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Ramsey Street East of Highland Springs Road

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 16850 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): 42 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.62

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 113.0 | 229.8 | 488.5 |

TABLE Existing + Phase 1b-22
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Ramsey Street West of Highland Home Road

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13900 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): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.43

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 97.1 | 201.2 | 429.6 |

TABLE Existing + Phase 1b-23
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Ramsey Street East of Highland Home Road

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12550 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): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.99

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 91.3 | 188.2 | 401.4 |

TABLE Existing + Phase 1b-24
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Ramsey Street West of Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13850 SPEED (MPH): 45 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.53 | 12.57 | 9.34 |
| M-TRUCKS | | | |
| | 1.55 | 0.09 | 0.19 |
| H-TRUCKS | | | |
| | 0.64 | 0.02 | 0.07 |

ACTIVE HALF-WIDTH (FT): 31 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.30

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 96.5 | 199.2 | 425.0 |

TABLE Existing + Phase 1b-25
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Ramsey Street East of Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13100 SPEED (MPH): 40 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): 26 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.15

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 77.6 | 159.5 | 340.0 |

TABLE Existing + Phase 1b-26
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: 1st Street West of Highland Springs Road

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9500 SPEED (MPH): 45 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.54 | 12.57 | 9.34 |
| M-TRUCKS | | | |
| | 1.54 | 0.08 | 0.19 |
| H-TRUCKS | | | |
| | 0.63 | 0.02 | 0.09 |

ACTIVE HALF-WIDTH (FT): 32 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.70

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 78.9 | 158.5 | 335.9 |

TABLE Existing + Phase 1b-27
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sun Lakes Boulevard East of Highland Springs Road

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7400 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.53 | 12.58 | 9.35 |
| M-TRUCKS | 1.54 | 0.09 | 0.19 |
| H-TRUCKS | 0.64 | 0.01 | 0.07 |

ACTIVE HALF-WIDTH (FT): 32 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.79

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 91.1 | 186.4 |

TABLE Existing + Phase 1b-28
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sun Lakes Boulevard West of Highland Home Road

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 150 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.33 | 12.67 | 9.33 |
| M-TRUCKS | | | |
| | 1.33 | 0.00 | 0.00 |
| H-TRUCKS | | | |
| | 0.67 | 0.00 | 0.67 |

ACTIVE HALF-WIDTH (FT): 28 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 46.78

| 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 + Phase 1b-29
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Lincoln Street East of Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2650 SPEED (MPH): 40 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.77 | 12.60 | 9.40 |
| M-TRUCKS | | | |
| | 1.36 | 0.08 | 0.15 |
| H-TRUCKS | | | |
| | 0.57 | 0.00 | 0.07 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.60

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 52.7 | 113.0 |

TABLE Existing + Phase 1b-30
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Westward Avenue East of Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 900 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 53.74

| 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 + Phase 1b-31
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 5 and Driveway 8

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1400 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 59.79 | 9.93 | 7.36 |
| M-TRUCKS | | | |
| | 1.71 | 0.07 | 0.21 |
| H-TRUCKS | | | |
| | 18.07 | 0.57 | 2.29 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.26

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 92.0 | 197.9 |

TABLE Existing + Phase 1b-32
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 8 and Driveway 12

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3400 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 61.24 | 10.18 | 7.56 |
| M-TRUCKS | | | |
| | 1.62 | 0.09 | 0.21 |
| H-TRUCKS | | | |
| | 16.53 | 0.53 | 2.04 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.71

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 72.6 | 156.0 | 335.8 |

TABLE Existing + Phase 1b-33
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 12 and Driveway 18

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4825 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 60.75 | 10.11 | 7.52 |
| M-TRUCKS | | | |
| | 1.62 | 0.08 | 0.21 |
| H-TRUCKS | | | |
| | 17.03 | 0.54 | 2.14 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.38

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 93.7 | 201.6 | 434.1 |

TABLE Existing + Phase 1b-34
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 18 and Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1b

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5900 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 62.62 | 10.42 | 7.74 |
| M-TRUCKS | | | |
| | 1.44 | 0.08 | 0.19 |
| H-TRUCKS | | | |
| | 15.13 | 0.47 | 1.91 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.79

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 99.8 | 214.6 | 462.1 |

TABLE Existing + Phase 1-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Highland Springs Avenue North of 6th Street/Ramsey Street

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 22550 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.53 | 12.57 | 9.34 |
| M-TRUCKS | 1.54 | 0.09 | 0.19 |
| H-TRUCKS | 0.63 | 0.02 | 0.09 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.28

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 88.5 | 185.0 | 395.8 |

TABLE Existing + Phase 1-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Highland Springs Avenue Between 6th Street/Ramsey Street
and I-10 WB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 30650 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.53 | 12.57 | 9.34 |
| M-TRUCKS | 1.54 | 0.09 | 0.19 |
| H-TRUCKS | 0.63 | 0.02 | 0.09 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.61

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 107.2 | 226.3 | 485.4 |

TABLE Existing + Phase 1-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Highland Springs Avenue Between I-10 WB Ramps and I-10
EB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 34050 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.36 | 12.54 | 9.32 |
| M-TRUCKS | 1.55 | 0.09 | 0.19 |
| H-TRUCKS | 0.82 | 0.03 | 0.10 |

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.70

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 56.7 | 117.1 | 249.9 | 537.3 |

TABLE Existing + Phase 1-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Highland Springs Avenue South of I-10 EB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 42300 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.34 | 12.54 | 9.32 |
| M-TRUCKS | | | |
| | 1.55 | 0.09 | 0.19 |
| H-TRUCKS | | | |
| | 0.84 | 0.03 | 0.10 |

ACTIVE HALF-WIDTH (FT): 37 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.46

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 72.3 | 138.8 | 290.5 | 621.7 |

TABLE Existing + Phase 1-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Highland Springs Avenue North of 1st Street/Sun Lakes
Boulevard

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 16200 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.07 | 12.50 | 9.28 |
| M-TRUCKS | 1.54 | 0.09 | 0.19 |
| H-TRUCKS | 1.16 | 0.04 | 0.13 |

ACTIVE HALF-WIDTH (FT): 43 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.37

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 86.3 | 166.8 | 349.9 |

TABLE Existing + Phase 1-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Highland Springs Avenue Between 1st Street/Sun Lakes
Boulevard and Potero Boulevard

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7950 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.57 | 12.58 | 9.35 |
| M-TRUCKS | 1.51 | 0.09 | 0.19 |
| H-TRUCKS | 0.62 | 0.03 | 0.06 |

ACTIVE HALF-WIDTH (FT): 28 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.30

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 93.2 | 193.4 |

TABLE Existing + Phase 1-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Highland Springs Avenue South of Potero Boulevard

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5000 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.58 | 12.58 | 9.34 |
| M-TRUCKS | | | |
| | 1.52 | 0.08 | 0.18 |
| H-TRUCKS | | | |
| | 0.62 | 0.02 | 0.08 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.64

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 70.4 | 144.6 |

TABLE Existing + Phase 1-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Highland Home Road Between Driveway 1 and Sun Lakes
Boulevard/Westward Avenue

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 0 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 22.59

| 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 + Phase 1-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Highland Home Road South of Sun Lakes Boulevard/Westward Avenue

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 150 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.33 | 12.67 | 9.33 |
| M-TRUCKS | 1.33 | 0.00 | 0.00 |
| H-TRUCKS | 0.67 | 0.00 | 0.67 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 47.26

| 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 + Phase 1-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue North of Ramsey Street

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 11900 SPEED (MPH): 40 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.55 | 12.58 | 9.34 |
| M-TRUCKS | 1.54 | 0.09 | 0.18 |
| H-TRUCKS | 0.63 | 0.02 | 0.07 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.78

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 71.8 | 147.7 | 314.8 |

TABLE Existing + Phase 1-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue Between Ramsey Street and I-10 WB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13625 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.56 | 12.58 | 9.35 |
| M-TRUCKS | | | |
| | 1.52 | 0.09 | 0.18 |
| H-TRUCKS | | | |
| | 0.62 | 0.02 | 0.08 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.00

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 64.6 | 131.4 | 279.4 |

TABLE Existing + Phase 1-12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue Between I-10 WB Ramps and I-10 EB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12700 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 72.69 | 12.10 | 8.99 |
| M-TRUCKS | | | |
| | 1.51 | 0.09 | 0.18 |
| H-TRUCKS | | | |
| | 3.85 | 0.12 | 0.47 |

ACTIVE HALF-WIDTH (FT): 21 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.22

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 97.6 | 206.5 | 442.9 |

TABLE Existing + Phase 1-13
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue Between I-10 EB Ramps and Driveway 19

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9825 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 67.25 | 11.20 | 8.32 |
| M-TRUCKS | | | |
| | 1.60 | 0.09 | 0.20 |
| H-TRUCKS | | | |
| | 9.83 | 0.31 | 1.20 |

ACTIVE HALF-WIDTH (FT): 12 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 69.84

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 60.5 | 128.3 | 275.4 | 592.9 |

TABLE Existing + Phase 1-14
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 19 and Lincoln Street

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9850 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 67.27 | 11.20 | 8.31 |
| M-TRUCKS | | | |
| | 1.59 | 0.09 | 0.20 |
| H-TRUCKS | | | |
| | 9.81 | 0.30 | 1.23 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 70.47

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 60.1 | 129.0 | 277.5 | 597.7 |

TABLE Existing + Phase 1-15
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue Between Lincoln Street and Westward Avenue

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7700 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 65.00 | 10.82 | 8.04 |
| M-TRUCKS | 1.55 | 0.09 | 0.19 |
| H-TRUCKS | 12.38 | 0.38 | 1.55 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 70.24

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 58.0 | 124.5 | 267.9 | 576.9 |

TABLE Existing + Phase 1-16
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue Between Westward Avenue and Driveway 20

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4050 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 61.23 | 10.18 | 7.57 |
| M-TRUCKS | 1.70 | 0.10 | 0.20 |
| H-TRUCKS | 16.42 | 0.52 | 2.08 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.55

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 96.2 | 206.8 | 445.3 |

TABLE Existing + Phase 1-17
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 20 and Driveway 21

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3950 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 60.61 | 10.08 | 7.49 |
| M-TRUCKS | 1.77 | 0.10 | 0.20 |
| H-TRUCKS | 17.06 | 0.53 | 2.16 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.58

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 96.7 | 207.9 | 447.8 |

TABLE Existing + Phase 1-18
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 21 and Driveway 22

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3800 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 60.42 | 10.05 | 7.47 |
| M-TRUCKS | | | |
| | 1.76 | 0.11 | 0.21 |
| H-TRUCKS | | | |
| | 17.25 | 0.55 | 2.18 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.46

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 94.9 | 204.1 | 439.4 |

TABLE Existing + Phase 1-19
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 22 and Bobcat Road

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3250 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 59.97 | 9.97 | 7.42 |
| M-TRUCKS | | | |
| | 1.85 | 0.09 | 0.22 |
| H-TRUCKS | | | |
| | 17.69 | 0.55 | 2.24 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.88

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 86.9 | 186.7 | 402.1 |

TABLE Existing + Phase 1-20
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: 6th Street West of Highland Springs Road

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 18450 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.53 | 12.57 | 9.34 |
| M-TRUCKS | | | |
| | 1.54 | 0.09 | 0.19 |
| H-TRUCKS | | | |
| | 0.63 | 0.02 | 0.09 |

ACTIVE HALF-WIDTH (FT): 42 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.38

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 85.4 | 165.6 | 347.6 |

TABLE Existing + Phase 1-21
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Ramsey Street East of Highland Springs Road

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 16850 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): 42 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.62

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 113.0 | 229.8 | 488.5 |

TABLE Existing + Phase 1-22
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Ramsey Street West of Highland Home Road

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13900 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): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.43

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 97.1 | 201.2 | 429.6 |

TABLE Existing + Phase 1-23
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Ramsey Street East of Highland Home Road

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12550 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): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.99

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 91.3 | 188.2 | 401.4 |

TABLE Existing + Phase 1-24
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Ramsey Street West of Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13850 SPEED (MPH): 45 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.53 | 12.57 | 9.34 |
| M-TRUCKS | | | |
| | 1.55 | 0.09 | 0.19 |
| H-TRUCKS | | | |
| | 0.64 | 0.02 | 0.07 |

ACTIVE HALF-WIDTH (FT): 31 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.30

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 96.5 | 199.2 | 425.0 |

TABLE Existing + Phase 1-25
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Ramsey Street East of Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13100 SPEED (MPH): 40 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): 26 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.15

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 77.6 | 159.5 | 340.0 |

TABLE Existing + Phase 1-26
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: 1st Street West of Highland Springs Road

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9500 SPEED (MPH): 45 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.54 | 12.57 | 9.34 |
| M-TRUCKS | 1.54 | 0.08 | 0.19 |
| H-TRUCKS | 0.63 | 0.02 | 0.09 |

ACTIVE HALF-WIDTH (FT): 32 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.70

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 78.9 | 158.5 | 335.9 |

TABLE Existing + Phase 1-27
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sun Lakes Boulevard East of Highland Springs Road

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8450 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 74.72 | 12.44 | 9.24 |
| M-TRUCKS | | | |
| | 1.46 | 0.08 | 0.18 |
| H-TRUCKS | | | |
| | 1.65 | 0.05 | 0.18 |

ACTIVE HALF-WIDTH (FT): 32 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.64

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 61.5 | 117.7 | 246.0 |

TABLE Existing + Phase 1-28
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Sun Lakes Boulevard West of Highland Home Road

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1450 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 70.88 | 11.80 | 8.76 |
| M-TRUCKS | 0.76 | 0.07 | 0.07 |
| H-TRUCKS | 6.56 | 0.21 | 0.89 |

ACTIVE HALF-WIDTH (FT): 28 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.04

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 68.8 | 138.2 |

TABLE Existing + Phase 1-29
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Lincoln Street East of Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2650 SPEED (MPH): 40 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.77 | 12.60 | 9.40 |
| M-TRUCKS | | | |
| | 1.36 | 0.08 | 0.15 |
| H-TRUCKS | | | |
| | 0.57 | 0.00 | 0.07 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.60

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 52.7 | 113.0 |

TABLE Existing + Phase 1-30
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Westward Avenue East of Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 900 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 53.74

| 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 + Phase 1-31
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 5 and Driveway 8

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 750 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 63.87 | 10.67 | 7.87 |
| M-TRUCKS | 1.33 | 0.13 | 0.13 |
| H-TRUCKS | 13.87 | 0.40 | 1.73 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.44

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 51.5 | 110.3 |

TABLE Existing + Phase 1-32
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 8 and Driveway 12

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1700 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 59.71 | 9.94 | 7.35 |
| M-TRUCKS | | | |
| | 1.76 | 0.12 | 0.24 |
| H-TRUCKS | | | |
| | 18.06 | 0.59 | 2.23 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.06

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 104.0 | 223.8 |

TABLE Existing + Phase 1-33
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 12 and Driveway 18

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2450 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 57.43 | 9.55 | 7.10 |
| M-TRUCKS | | | |
| | 1.96 | 0.12 | 0.24 |
| H-TRUCKS | | | |
| | 20.41 | 0.65 | 2.54 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.15

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 66.7 | 143.2 | 308.2 |

TABLE Existing + Phase 1-34
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/13/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 18 and Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3000 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 58.67 | 9.77 | 7.27 |
| M-TRUCKS | 1.87 | 0.10 | 0.23 |
| H-TRUCKS | 19.10 | 0.60 | 2.39 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.77

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 73.3 | 157.5 | 339.0 |

TABLE Existing + Phase 1+2-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue North of 6th Street/Ramsey Street

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 23200 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.59 | 12.58 | 9.35 |
| M-TRUCKS | 1.50 | 0.09 | 0.18 |
| H-TRUCKS | 0.62 | 0.02 | 0.07 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.24

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 87.9 | 183.8 | 393.3 |

TABLE Existing + Phase 1+2-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue Between 6th Street/Ramsey Street
and I-10 WB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 31575 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.59 | 12.58 | 9.35 |
| M-TRUCKS | 1.50 | 0.09 | 0.18 |
| H-TRUCKS | 0.61 | 0.02 | 0.08 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.64

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 107.6 | 227.2 | 487.3 |

TABLE Existing + Phase 1+2-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue Between I-10 WB Ramps and I-10
EB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 34550 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.22 | 12.52 | 9.31 |
| M-TRUCKS | 1.55 | 0.09 | 0.19 |
| H-TRUCKS | 0.97 | 0.03 | 0.12 |

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.98

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 58.9 | 122.1 | 260.8 | 560.6 |

TABLE Existing + Phase 1+2-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue South of I-10 EB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 42400 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.32 | 12.54 | 9.32 |
| M-TRUCKS | | | |
| | 1.55 | 0.09 | 0.19 |
| H-TRUCKS | | | |
| | 0.86 | 0.03 | 0.10 |

ACTIVE HALF-WIDTH (FT): 37 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.48

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 72.5 | 139.2 | 291.5 | 623.9 |

TABLE Existing + Phase 1+2-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue North of 1st Street/Sun Lakes Boulevard

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 16300 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.02 | 12.49 | 9.28 |
| M-TRUCKS | 1.53 | 0.09 | 0.18 |
| H-TRUCKS | 1.22 | 0.04 | 0.15 |

ACTIVE HALF-WIDTH (FT): 43 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.53

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 87.9 | 170.7 | 358.3 |

TABLE Existing + Phase 1+2-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue Between 1st Street/Sun Lakes
Boulevard and Potero Boulevard

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8575 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.71 | 12.61 | 9.36 |
| M-TRUCKS | 1.40 | 0.08 | 0.17 |
| H-TRUCKS | 0.57 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 28 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.65

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 97.9 | 204.0 |

TABLE Existing + Phase 1+2-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue South of Potero Boulevard

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5300 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.68 | 12.60 | 9.36 |
| M-TRUCKS | | | |
| | 1.43 | 0.08 | 0.17 |
| H-TRUCKS | | | |
| | 0.58 | 0.02 | 0.08 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.83

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 72.3 | 148.9 |

TABLE Existing + Phase 1+2-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Home Road Between Driveway 1 and Sun Lakes
Boulevard/Westward Avenue

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 0 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 22.59

| 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 + Phase 1+2-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Home Road South of Sun Lakes Boulevard/Westward Avenue

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 150 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.33 | 12.67 | 9.33 |
| M-TRUCKS | 1.33 | 0.00 | 0.00 |
| H-TRUCKS | 0.67 | 0.00 | 0.67 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 47.26

| 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 + Phase 1+2-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue North of Ramsey Street

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12550 SPEED (MPH): 40 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.64 | 12.60 | 9.36 |
| M-TRUCKS | | | |
| | 1.46 | 0.09 | 0.18 |
| H-TRUCKS | | | |
| | 0.60 | 0.02 | 0.05 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.86

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 72.6 | 149.4 | 318.6 |

TABLE Existing + Phase 1+2-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Ramsey Street and I-10 WB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14550 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.69 | 12.60 | 9.36 |
| M-TRUCKS | 1.42 | 0.08 | 0.17 |
| H-TRUCKS | 0.58 | 0.02 | 0.08 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.22

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 66.5 | 135.8 | 288.9 |

TABLE Existing + Phase 1+2-12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between I-10 WB Ramps and I-10 EB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 17100 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 70.37 | 11.71 | 8.70 |
| M-TRUCKS | 1.47 | 0.09 | 0.18 |
| H-TRUCKS | 6.47 | 0.20 | 0.81 |

ACTIVE HALF-WIDTH (FT): 21 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 70.13

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 72.3 | 150.4 | 321.5 | 691.3 |

TABLE Existing + Phase 1+2-13
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between I-10 EB Ramps and Driveway 19

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 17675 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 64.65 | 10.76 | 7.99 |
| M-TRUCKS | | | |
| | 1.60 | 0.09 | 0.20 |
| H-TRUCKS | | | |
| | 12.73 | 0.40 | 1.58 |

ACTIVE HALF-WIDTH (FT): 12 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 73.36

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 102.5 | 219.7 | 472.6 | 1017.8 |

TABLE Existing + Phase 1+2-14
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 19 and Lincoln Street

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 16350 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 64.93 | 10.81 | 8.03 |
| M-TRUCKS | 1.60 | 0.09 | 0.20 |
| H-TRUCKS | 12.41 | 0.39 | 1.54 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 73.51

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 95.5 | 205.5 | 442.4 | 952.9 |

TABLE Existing + Phase 1+2-15
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Lincoln Street and Westward Avenue

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8975 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 64.63 | 10.75 | 8.00 |
| M-TRUCKS | | | |
| | 1.54 | 0.09 | 0.19 |
| H-TRUCKS | | | |
| | 12.80 | 0.40 | 1.60 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 71.02

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 65.4 | 140.5 | 302.3 | 651.1 |

TABLE Existing + Phase 1+2-16
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Westward Avenue and Driveway 20

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4050 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 61.23 | 10.18 | 7.57 |
| M-TRUCKS | 1.70 | 0.10 | 0.20 |
| H-TRUCKS | 16.42 | 0.52 | 2.08 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.55

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 96.2 | 206.8 | 445.3 |

TABLE Existing + Phase 1+2-17
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 20 and Driveway 21

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3950 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 60.61 | 10.08 | 7.49 |
| M-TRUCKS | 1.77 | 0.10 | 0.20 |
| H-TRUCKS | 17.06 | 0.53 | 2.16 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.58

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 96.7 | 207.9 | 447.8 |

TABLE Existing + Phase 1+2-18
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 21 and Driveway 22

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3800 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 60.42 | 10.05 | 7.47 |
| M-TRUCKS | 1.76 | 0.11 | 0.21 |
| H-TRUCKS | 17.25 | 0.55 | 2.18 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.46

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 94.9 | 204.1 | 439.4 |

TABLE Existing + Phase 1+2-19
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 22 and Bobcat Road

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3250 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 59.97 | 9.97 | 7.42 |
| M-TRUCKS | | | |
| | 1.85 | 0.09 | 0.22 |
| H-TRUCKS | | | |
| | 17.69 | 0.55 | 2.24 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.88

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 86.9 | 186.7 | 402.1 |

TABLE Existing + Phase 1+2-20
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: 6th Street West of Highland Springs Road

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 18750 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.56 | 12.58 | 9.34 |
| M-TRUCKS | | | |
| | 1.52 | 0.09 | 0.19 |
| H-TRUCKS | | | |
| | 0.62 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 42 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.37

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 85.3 | 165.5 | 347.3 |

TABLE Existing + Phase 1+2-21
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Ramsey Street East of Highland Springs Road

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 16850 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): 42 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.62

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 113.0 | 229.8 | 488.5 |

TABLE Existing + Phase 1+2-22
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Ramsey Street West of Highland Home Road

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13900 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): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.43

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 97.1 | 201.2 | 429.6 |

TABLE Existing + Phase 1+2-23
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Ramsey Street East of Highland Home Road

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12900 SPEED (MPH): 45 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.58 | 12.58 | 9.35 |
| M-TRUCKS | | | |
| | 1.50 | 0.09 | 0.19 |
| H-TRUCKS | | | |
| | 0.62 | 0.02 | 0.07 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.04

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 91.9 | 189.6 | 404.4 |

TABLE Existing + Phase 1+2-24
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Ramsey Street West of Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14150 SPEED (MPH): 45 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.57 | 12.58 | 9.34 |
| M-TRUCKS | | | |
| | 1.52 | 0.08 | 0.18 |
| H-TRUCKS | | | |
| | 0.62 | 0.02 | 0.09 |

ACTIVE HALF-WIDTH (FT): 31 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.46

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 98.6 | 204.1 | 435.6 |

TABLE Existing + Phase 1+2-25
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Ramsey Street East of Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13100 SPEED (MPH): 40 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): 26 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.15

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 77.6 | 159.5 | 340.0 |

TABLE Existing + Phase 1+2-26
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: 1st Street West of Highland Springs Road

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9800 SPEED (MPH): 45 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.60 | 12.58 | 9.35 |
| M-TRUCKS | | | |
| | 1.49 | 0.08 | 0.18 |
| H-TRUCKS | | | |
| | 0.61 | 0.02 | 0.09 |

ACTIVE HALF-WIDTH (FT): 32 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.80

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 79.9 | 160.9 | 341.1 |

TABLE Existing + Phase 1+2-27
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sun Lakes Boulevard East of Highland Springs Road

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9450 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 74.20 | 12.35 | 9.18 |
| M-TRUCKS | | | |
| | 1.38 | 0.08 | 0.17 |
| H-TRUCKS | | | |
| | 2.31 | 0.06 | 0.27 |

ACTIVE HALF-WIDTH (FT): 32 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.85

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 70.9 | 140.0 | 295.3 |

TABLE Existing + Phase 1+2-28
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sun Lakes Boulevard West of Highland Home Road

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2750 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 70.63 | 11.75 | 8.73 |
| M-TRUCKS | | | |
| | 0.73 | 0.04 | 0.07 |
| H-TRUCKS | | | |
| | 6.91 | 0.22 | 0.92 |

ACTIVE HALF-WIDTH (FT): 28 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.96

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 102.2 | 213.6 |

TABLE Existing + Phase 1+2-29
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Lincoln Street East of Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3450 SPEED (MPH): 40 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 76.20 | 12.67 | 9.42 |
| M-TRUCKS | 1.04 | 0.06 | 0.12 |
| H-TRUCKS | 0.43 | 0.00 | 0.06 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.47

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 60.2 | 129.1 |

TABLE Existing + Phase 1+2-30
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Westward Avenue East of Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 900 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 53.74

| 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 + Phase 1+2-31
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 5 and Driveway 8

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 750 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 63.87 | 10.67 | 7.87 |
| M-TRUCKS | 1.33 | 0.13 | 0.13 |
| H-TRUCKS | 13.87 | 0.40 | 1.73 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.44

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 51.5 | 110.3 |

TABLE Existing + Phase 1+2-32
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 8 and Driveway 12

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1700 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 59.71 | 9.94 | 7.35 |
| M-TRUCKS | | | |
| | 1.76 | 0.12 | 0.24 |
| H-TRUCKS | | | |
| | 18.06 | 0.59 | 2.23 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.06

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 104.0 | 223.8 |

TABLE Existing + Phase 1+2-33
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 12 and Driveway 18

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2450 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 57.43 | 9.55 | 7.10 |
| M-TRUCKS | | | |
| | 1.96 | 0.12 | 0.24 |
| H-TRUCKS | | | |
| | 20.41 | 0.65 | 2.54 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.15

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 66.7 | 143.2 | 308.2 |

TABLE Existing + Phase 1+2-34
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 18 and Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1+2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3000 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 58.67 | 9.77 | 7.27 |
| M-TRUCKS | 1.87 | 0.10 | 0.23 |
| H-TRUCKS | 19.10 | 0.60 | 2.39 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.77

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 73.3 | 157.5 | 339.0 |

TABLE Existing + Phase 1+2+3-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue North of 6th Street/Ramsey Street

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 23250 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.59 | 12.58 | 9.35 |
| M-TRUCKS | 1.50 | 0.09 | 0.18 |
| H-TRUCKS | 0.62 | 0.02 | 0.07 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.25

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 88.1 | 184.1 | 393.8 |

TABLE Existing + Phase 1+2+3-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue Between 6th Street/Ramsey Street
and I-10 WB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 31650 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.60 | 12.58 | 9.35 |
| M-TRUCKS | 1.49 | 0.09 | 0.18 |
| H-TRUCKS | 0.61 | 0.02 | 0.08 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.65

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 107.7 | 227.5 | 487.9 |

TABLE Existing + Phase 1+2+3-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue Between I-10 WB Ramps and I-10
EB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 34700 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.22 | 12.52 | 9.30 |
| M-TRUCKS | 1.55 | 0.09 | 0.19 |
| H-TRUCKS | 0.98 | 0.03 | 0.12 |

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 69.01

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 59.1 | 122.5 | 261.7 | 562.7 |

TABLE Existing + Phase 1+2+3-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue South of I-10 EB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 42600 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.29 | 12.53 | 9.31 |
| M-TRUCKS | | | |
| | 1.55 | 0.09 | 0.19 |
| H-TRUCKS | | | |
| | 0.90 | 0.03 | 0.11 |

ACTIVE HALF-WIDTH (FT): 37 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.58

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 73.4 | 141.4 | 296.2 | 634.1 |

TABLE Existing + Phase 1+2+3-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue North of 1st Street/Sun Lakes Boulevard

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 16500 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 74.94 | 12.48 | 9.27 |
| M-TRUCKS | 1.53 | 0.09 | 0.19 |
| H-TRUCKS | 1.30 | 0.04 | 0.16 |

ACTIVE HALF-WIDTH (FT): 43 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.69

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 89.6 | 174.8 | 367.4 |

TABLE Existing + Phase 1+2+3-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue Between 1st Street/Sun Lakes
Boulevard and Potero Boulevard

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8625 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.72 | 12.60 | 9.37 |
| M-TRUCKS | 1.39 | 0.08 | 0.17 |
| H-TRUCKS | 0.57 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 28 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.68

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 98.2 | 204.7 |

TABLE Existing + Phase 1+2+3-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue South of Potero Boulevard

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5300 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.68 | 12.60 | 9.36 |
| M-TRUCKS | | | |
| | 1.43 | 0.08 | 0.17 |
| H-TRUCKS | | | |
| | 0.58 | 0.02 | 0.08 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.83

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 72.3 | 148.9 |

TABLE Existing + Phase 1+2+3-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Home Road Between Driveway 1 and Sun Lakes
Boulevard/Westward Avenue

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 0 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 22.59

| 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 + Phase 1+2+3-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Home Road South of Sun Lakes Boulevard/Westward Avenue

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 150 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.33 | 12.67 | 9.33 |
| M-TRUCKS | 1.33 | 0.00 | 0.00 |
| H-TRUCKS | 0.67 | 0.00 | 0.67 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 47.26

| 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 + Phase 1+2+3-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue North of Ramsey Street

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12600 SPEED (MPH): 40 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.66 | 12.60 | 9.36 |
| M-TRUCKS | | | |
| | 1.45 | 0.09 | 0.17 |
| H-TRUCKS | | | |
| | 0.60 | 0.02 | 0.05 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.86

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 72.5 | 149.4 | 318.5 |

TABLE Existing + Phase 1+2+3-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Ramsey Street and I-10 WB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14625 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 74.54 | 12.41 | 9.22 |
| M-TRUCKS | | | |
| | 1.73 | 0.10 | 0.21 |
| H-TRUCKS | | | |
| | 1.55 | 0.05 | 0.19 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.60

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 80.4 | 167.1 | 357.0 |

TABLE Existing + Phase 1+2+3-12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between I-10 WB Ramps and I-10 EB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 17800 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 70.75 | 11.78 | 8.75 |
| M-TRUCKS | | | |
| | 1.43 | 0.08 | 0.17 |
| H-TRUCKS | | | |
| | 6.09 | 0.19 | 0.76 |

ACTIVE HALF-WIDTH (FT): 21 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 70.09

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 71.9 | 149.6 | 319.7 | 687.5 |

TABLE Existing + Phase 1+2+3-13
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between I-10 EB Ramps and Driveway 19

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 19075 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 65.31 | 10.87 | 8.08 |
| M-TRUCKS | 1.67 | 0.10 | 0.21 |
| H-TRUCKS | 11.90 | 0.38 | 1.48 |

ACTIVE HALF-WIDTH (FT): 12 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 73.45

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 104.0 | 222.9 | 479.6 | 1032.8 |

TABLE Existing + Phase 1+2+3-14
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 19 and Lincoln Street

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 17725 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 65.54 | 10.90 | 8.11 |
| M-TRUCKS | 1.67 | 0.10 | 0.21 |
| H-TRUCKS | 11.64 | 0.37 | 1.46 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 73.65

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 97.7 | 210.1 | 452.4 | 974.3 |

TABLE Existing + Phase 1+2+3-15
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Lincoln Street and Westward Avenue

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 10225 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 65.59 | 10.92 | 8.11 |
| M-TRUCKS | | | |
| | 1.68 | 0.10 | 0.21 |
| H-TRUCKS | | | |
| | 11.59 | 0.35 | 1.45 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 71.23

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 67.5 | 145.0 | 312.1 | 672.3 |

TABLE Existing + Phase 1+2+3-16
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Westward Avenue and Driveway 20

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4050 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 61.23 | 10.18 | 7.57 |
| M-TRUCKS | 1.70 | 0.10 | 0.20 |
| H-TRUCKS | 16.42 | 0.52 | 2.08 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.55

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 96.2 | 206.8 | 445.3 |

TABLE Existing + Phase 1+2+3-17
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 20 and Driveway 21

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3950 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 60.61 | 10.08 | 7.49 |
| M-TRUCKS | 1.77 | 0.10 | 0.20 |
| H-TRUCKS | 17.06 | 0.53 | 2.16 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.58

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 96.7 | 207.9 | 447.8 |

TABLE Existing + Phase 1+2+3-18
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 21 and Driveway 22

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3800 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 60.42 | 10.05 | 7.47 |
| M-TRUCKS | | | |
| | 1.76 | 0.11 | 0.21 |
| H-TRUCKS | | | |
| | 17.25 | 0.55 | 2.18 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.46

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 94.9 | 204.1 | 439.4 |

TABLE Existing + Phase 1+2+3-19
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 22 and Bobcat Road

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3250 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 59.97 | 9.97 | 7.42 |
| M-TRUCKS | | | |
| | 1.85 | 0.09 | 0.22 |
| H-TRUCKS | | | |
| | 17.69 | 0.55 | 2.24 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.88

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 86.9 | 186.7 | 402.1 |

TABLE Existing + Phase 1+2+3-20
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: 6th Street West of Highland Springs Road

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 18800 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.56 | 12.58 | 9.35 |
| M-TRUCKS | | | |
| | 1.52 | 0.09 | 0.19 |
| H-TRUCKS | | | |
| | 0.62 | 0.02 | 0.07 |

ACTIVE HALF-WIDTH (FT): 42 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.32

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 84.8 | 164.1 | 344.4 |

TABLE Existing + Phase 1+2+3-21
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Ramsey Street East of Highland Springs Road

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 16850 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): 42 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.62

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 113.0 | 229.8 | 488.5 |

TABLE Existing + Phase 1+2+3-22
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Ramsey Street West of Highland Home Road

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13900 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): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.43

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 97.1 | 201.2 | 429.6 |

TABLE Existing + Phase 1+2+3-23
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Ramsey Street East of Highland Home Road

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12900 SPEED (MPH): 45 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.58 | 12.58 | 9.35 |
| M-TRUCKS | | | |
| | 1.50 | 0.09 | 0.19 |
| H-TRUCKS | | | |
| | 0.62 | 0.02 | 0.07 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.04

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 91.9 | 189.6 | 404.4 |

TABLE Existing + Phase 1+2+3-24
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Ramsey Street West of Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14200 SPEED (MPH): 45 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.58 | 12.58 | 9.35 |
| M-TRUCKS | | | |
| | 1.51 | 0.08 | 0.18 |
| H-TRUCKS | | | |
| | 0.62 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 31 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.42

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 98.1 | 202.9 | 433.1 |

TABLE Existing + Phase 1+2+3-25
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Ramsey Street East of Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13100 SPEED (MPH): 40 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): 26 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.15

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 77.6 | 159.5 | 340.0 |

TABLE Existing + Phase 1+2+3-26
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: 1st Street West of Highland Springs Road

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9800 SPEED (MPH): 45 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.60 | 12.58 | 9.35 |
| M-TRUCKS | | | |
| | 1.49 | 0.08 | 0.18 |
| H-TRUCKS | | | |
| | 0.61 | 0.02 | 0.09 |

ACTIVE HALF-WIDTH (FT): 32 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.80

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 79.9 | 160.9 | 341.1 |

TABLE Existing + Phase 1+2+3-27
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sun Lakes Boulevard East of Highland Springs Road

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9750 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 74.60 | 12.43 | 9.23 |
| M-TRUCKS | | | |
| | 1.34 | 0.08 | 0.16 |
| H-TRUCKS | | | |
| | 1.88 | 0.05 | 0.23 |

ACTIVE HALF-WIDTH (FT): 32 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.58

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 68.6 | 134.7 | 283.6 |

TABLE Existing + Phase 1+2+3-28
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sun Lakes Boulevard West of Highland Home Road

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3050 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 73.03 | 12.16 | 9.05 |
| M-TRUCKS | | | |
| | 0.56 | 0.03 | 0.07 |
| H-TRUCKS | | | |
| | 4.39 | 0.13 | 0.58 |

ACTIVE HALF-WIDTH (FT): 28 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.90

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 88.1 | 182.1 |

TABLE Existing + Phase 1+2+3-29
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Lincoln Street East of Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3550 SPEED (MPH): 40 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 76.23 | 12.68 | 9.44 |
| M-TRUCKS | | | |
| | 1.01 | 0.06 | 0.11 |
| H-TRUCKS | | | |
| | 0.42 | 0.00 | 0.05 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.50

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 60.4 | 129.6 |

TABLE Existing + Phase 1+2+3-30
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Westward Avenue East of Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 900 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 53.74

| 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 + Phase 1+2+3-31
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 5 and Driveway 8

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 550 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 64.05 | 10.58 | 7.85 |
| M-TRUCKS | 1.28 | 0.00 | 0.18 |
| H-TRUCKS | 13.87 | 0.36 | 1.83 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.20

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 91.2 |

TABLE Existing + Phase 1+2+3-32
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 8 and Driveway 12

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1700 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 59.71 | 9.94 | 7.35 |
| M-TRUCKS | | | |
| | 1.76 | 0.12 | 0.24 |
| H-TRUCKS | | | |
| | 18.06 | 0.59 | 2.23 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.06

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 104.0 | 223.8 |

TABLE Existing + Phase 1+2+3-33
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 12 and Driveway 18

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2450 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 57.43 | 9.55 | 7.10 |
| M-TRUCKS | | | |
| | 1.96 | 0.12 | 0.24 |
| H-TRUCKS | | | |
| | 20.41 | 0.65 | 2.54 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.15

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 66.7 | 143.2 | 308.2 |

TABLE Existing + Phase 1+2+3-34
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 18 and Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1+2+3

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3000 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 58.67 | 9.77 | 7.27 |
| M-TRUCKS | 1.87 | 0.10 | 0.23 |
| H-TRUCKS | 19.10 | 0.60 | 2.39 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.77

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 73.3 | 157.5 | 339.0 |

TABLE Existing + Phase 1+2+3+4-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue North of 6th Street/Ramsey Street

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 23300 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.60 | 12.58 | 9.35 |
| M-TRUCKS | 1.49 | 0.09 | 0.18 |
| H-TRUCKS | 0.61 | 0.02 | 0.08 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.32

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 88.9 | 186.0 | 398.0 |

TABLE Existing + Phase 1+2+3+4-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue Between 6th Street/Ramsey Street
and I-10 WB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 31750 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.60 | 12.59 | 9.35 |
| M-TRUCKS | 1.49 | 0.09 | 0.18 |
| H-TRUCKS | 0.61 | 0.02 | 0.07 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.59

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 106.9 | 225.6 | 483.8 |

TABLE Existing + Phase 1+2+3+4-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue Between I-10 WB Ramps and I-10
EB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 34800 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.17 | 12.51 | 9.30 |
| M-TRUCKS | | | |
| | 1.55 | 0.09 | 0.19 |
| H-TRUCKS | | | |
| | 1.02 | 0.03 | 0.14 |

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 69.16

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 60.4 | 125.4 | 268.0 | 576.2 |

TABLE Existing + Phase 1+2+3+4-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue South of I-10 EB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 42750 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.26 | 12.53 | 9.31 |
| M-TRUCKS | | | |
| | 1.55 | 0.09 | 0.19 |
| H-TRUCKS | | | |
| | 0.93 | 0.03 | 0.11 |

ACTIVE HALF-WIDTH (FT): 37 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.62

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 73.6 | 142.1 | 297.7 | 637.4 |

TABLE Existing + Phase 1+2+3+4-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue North of 1st Street/Sun Lakes Boulevard

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 16650 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 74.86 | 12.46 | 9.25 |
| M-TRUCKS | 1.54 | 0.09 | 0.19 |
| H-TRUCKS | 1.39 | 0.04 | 0.18 |

ACTIVE HALF-WIDTH (FT): 43 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.89

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 91.7 | 179.7 | 378.4 |

TABLE Existing + Phase 1+2+3+4-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue Between 1st Street/Sun Lakes
Boulevard and Potero Boulevard

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8675 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.73 | 12.61 | 9.37 |
| M-TRUCKS | 1.38 | 0.08 | 0.17 |
| H-TRUCKS | 0.56 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 28 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.69

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 98.4 | 205.2 |

TABLE Existing + Phase 1+2+3+4-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue South of Potero Boulevard

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5350 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.69 | 12.61 | 9.36 |
| M-TRUCKS | | | |
| | 1.42 | 0.07 | 0.17 |
| H-TRUCKS | | | |
| | 0.58 | 0.02 | 0.08 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.87

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 72.6 | 149.6 |

TABLE Existing + Phase 1+2+3+4-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Home Road Between Driveway 1 and Sun Lakes
Boulevard/Westward Avenue

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 350 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 77.43 | 12.86 | 9.71 |
| M-TRUCKS | 0.00 | 0.00 | 0.00 |
| H-TRUCKS | 0.00 | 0.00 | 0.00 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 45.75

| 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 + Phase 1+2+3+4-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Home Road South of Sun Lakes Boulevard/Westward Avenue

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 150 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.33 | 12.67 | 9.33 |
| M-TRUCKS | 1.33 | 0.00 | 0.00 |
| H-TRUCKS | 0.67 | 0.00 | 0.67 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 47.26

| 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 + Phase 1+2+3+4-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue North of Ramsey Street

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12650 SPEED (MPH): 40 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.66 | 12.60 | 9.36 |
| M-TRUCKS | | | |
| | 1.45 | 0.09 | 0.17 |
| H-TRUCKS | | | |
| | 0.59 | 0.02 | 0.06 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.93

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 73.3 | 151.0 | 322.1 |

TABLE Existing + Phase 1+2+3+4-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Ramsey Street and I-10 WB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14725 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 74.52 | 12.41 | 9.21 |
| M-TRUCKS | | | |
| | 1.72 | 0.10 | 0.21 |
| H-TRUCKS | | | |
| | 1.58 | 0.05 | 0.20 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.70

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 81.5 | 169.4 | 362.1 |

TABLE Existing + Phase 1+2+3+4-12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between I-10 WB Ramps and I-10 EB Ramps

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 18125 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 70.43 | 11.72 | 8.71 |
| M-TRUCKS | | | |
| | 1.51 | 0.09 | 0.18 |
| H-TRUCKS | | | |
| | 6.37 | 0.20 | 0.79 |

ACTIVE HALF-WIDTH (FT): 21 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 70.32

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 74.2 | 154.8 | 330.9 | 711.7 |

TABLE Existing + Phase 1+2+3+4-13
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between I-10 EB Ramps and Driveway 19

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 20225 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 65.22 | 10.86 | 8.07 |
| M-TRUCKS | 1.74 | 0.10 | 0.22 |
| H-TRUCKS | 11.94 | 0.37 | 1.48 |

ACTIVE HALF-WIDTH (FT): 12 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 73.71

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 108.2 | 232.0 | 499.2 | 1075.0 |

TABLE Existing + Phase 1+2+3+4-14
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 19 and Lincoln Street

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 18925 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 65.41 | 10.89 | 8.09 |
| M-TRUCKS | 1.73 | 0.10 | 0.22 |
| H-TRUCKS | 11.72 | 0.36 | 1.48 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 73.97

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 102.6 | 220.7 | 475.3 | 1023.8 |

TABLE Existing + Phase 1+2+3+4-15
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Lincoln Street and Westward Avenue

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 10525 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 65.61 | 10.92 | 8.11 |
| M-TRUCKS | 1.75 | 0.10 | 0.22 |
| H-TRUCKS | 11.50 | 0.36 | 1.43 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 71.33

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 68.5 | 147.2 | 316.8 | 682.3 |

TABLE Existing + Phase 1+2+3+4-16
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Westward Avenue and Driveway 20

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4050 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 61.52 | 10.22 | 7.60 |
| M-TRUCKS | 1.70 | 0.10 | 0.20 |
| H-TRUCKS | 16.12 | 0.52 | 2.02 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.46

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 94.8 | 204.0 | 439.2 |

TABLE Existing + Phase 1+2+3+4-17
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 20 and Driveway 21

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3950 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 60.67 | 10.10 | 7.49 |
| M-TRUCKS | 1.77 | 0.10 | 0.20 |
| H-TRUCKS | 16.98 | 0.53 | 2.16 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.58

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 96.6 | 207.7 | 447.2 |

TABLE Existing + Phase 1+2+3+4-18
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 21 and Driveway 22

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3800 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 60.42 | 10.05 | 7.47 |
| M-TRUCKS | 1.76 | 0.11 | 0.21 |
| H-TRUCKS | 17.25 | 0.55 | 2.18 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.46

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 94.9 | 204.1 | 439.4 |

TABLE Existing + Phase 1+2+3+4-19
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 22 and Bobcat Road

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3250 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 59.97 | 9.97 | 7.42 |
| M-TRUCKS | | | |
| | 1.85 | 0.09 | 0.22 |
| H-TRUCKS | | | |
| | 17.69 | 0.55 | 2.24 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.88

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 86.9 | 186.7 | 402.1 |

TABLE Existing + Phase 1+2+3+4-20
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: 6th Street West of Highland Springs Road

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 18800 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.56 | 12.58 | 9.35 |
| M-TRUCKS | | | |
| | 1.52 | 0.09 | 0.19 |
| H-TRUCKS | | | |
| | 0.62 | 0.02 | 0.07 |

ACTIVE HALF-WIDTH (FT): 42 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.32

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 84.8 | 164.1 | 344.4 |

TABLE Existing + Phase 1+2+3+4-21
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Ramsey Street East of Highland Springs Road

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 16850 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): 42 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.62

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 113.0 | 229.8 | 488.5 |

TABLE Existing + Phase 1+2+3+4-22
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Ramsey Street West of Highland Home Road

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13900 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): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.43

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 97.1 | 201.2 | 429.6 |

TABLE Existing + Phase 1+2+3+4-23
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Ramsey Street East of Highland Home Road

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12950 SPEED (MPH): 45 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.58 | 12.59 | 9.35 |
| M-TRUCKS | | | |
| | 1.50 | 0.08 | 0.19 |
| H-TRUCKS | | | |
| | 0.62 | 0.02 | 0.07 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.05

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 92.1 | 189.9 | 405.1 |

TABLE Existing + Phase 1+2+3+4-24
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Ramsey Street West of Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14200 SPEED (MPH): 45 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.58 | 12.58 | 9.35 |
| M-TRUCKS | 1.51 | 0.08 | 0.18 |
| H-TRUCKS | 0.62 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 31 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.42

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 98.1 | 202.9 | 433.1 |

TABLE Existing + Phase 1+2+3+4-25
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Ramsey Street East of Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13100 SPEED (MPH): 40 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): 26 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.15

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 77.6 | 159.5 | 340.0 |

TABLE Existing + Phase 1+2+3+4-26
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: 1st Street West of Highland Springs Road

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9850 SPEED (MPH): 45 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.61 | 12.59 | 9.35 |
| M-TRUCKS | | | |
| | 1.48 | 0.08 | 0.18 |
| H-TRUCKS | | | |
| | 0.61 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 32 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.77

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 79.6 | 160.1 | 339.5 |

TABLE Existing + Phase 1+2+3+4-27
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sun Lakes Boulevard East of Highland Springs Road

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 10000 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 74.50 | 12.41 | 9.22 |
| M-TRUCKS | | | |
| | 1.32 | 0.08 | 0.16 |
| H-TRUCKS | | | |
| | 2.01 | 0.06 | 0.24 |

ACTIVE HALF-WIDTH (FT): 32 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.81

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 70.6 | 139.2 | 293.6 |

TABLE Existing + Phase 1+2+3+4-28
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sun Lakes Boulevard West of Highland Home Road

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

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

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 72.82 | 12.12 | 9.00 |
| M-TRUCKS | 0.64 | 0.03 | 0.06 |
| H-TRUCKS | 4.58 | 0.15 | 0.60 |

ACTIVE HALF-WIDTH (FT): 28 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.37

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 94.0 | 195.4 |

TABLE Existing + Phase 1+2+3+4-29
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Lincoln Street East of Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3600 SPEED (MPH): 40 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 76.23 | 12.69 | 9.44 |
| M-TRUCKS | | | |
| | 1.00 | 0.06 | 0.11 |
| H-TRUCKS | | | |
| | 0.42 | 0.00 | 0.05 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.56

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 61.0 | 130.8 |

TABLE Existing + Phase 1+2+3+4-30
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Westward Avenue East of Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 900 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 53.74

| 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 + Phase 1+2+3+4-31
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 5 and Driveway 8

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 750 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 63.87 | 10.67 | 7.87 |
| M-TRUCKS | 1.33 | 0.13 | 0.13 |
| H-TRUCKS | 13.87 | 0.40 | 1.73 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.44

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 51.5 | 110.3 |

TABLE Existing + Phase 1+2+3+4-32
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 8 and Driveway 12

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1700 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 59.71 | 9.94 | 7.35 |
| M-TRUCKS | | | |
| | 1.76 | 0.12 | 0.24 |
| H-TRUCKS | | | |
| | 18.06 | 0.59 | 2.23 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.06

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 104.0 | 223.8 |

TABLE Existing + Phase 1+2+3+4-33
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 12 and Driveway 18

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2450 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 57.43 | 9.55 | 7.10 |
| M-TRUCKS | | | |
| | 1.96 | 0.12 | 0.24 |
| H-TRUCKS | | | |
| | 20.41 | 0.65 | 2.54 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.15

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 66.7 | 143.2 | 308.2 |

TABLE Existing + Phase 1+2+3+4-34
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 18 and Sunset Avenue

NOTES: Sunset Crossroads - Existing + Phase 1+2+3+4

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3000 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 58.67 | 9.77 | 7.27 |
| M-TRUCKS | 1.87 | 0.10 | 0.23 |
| H-TRUCKS | 19.10 | 0.60 | 2.39 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.77

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 73.3 | 157.5 | 339.0 |

TABLE 2027 No Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Highland Springs Avenue North of 6th Street/Ramsey Street

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 25150 SPEED (MPH): 35 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): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.69

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 93.9 | 197.0 | 421.9 |

TABLE 2027 No Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Highland Springs Avenue Between 6th Street/Ramsey Street
and I-10 WB Ramps

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 34100 SPEED (MPH): 35 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): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.02

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 56.9 | 113.7 | 240.7 | 516.4 |

TABLE 2027 No Project-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Highland Springs Avenue Between I-10 WB Ramps and I-10
EB Ramps

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 37700 SPEED (MPH): 35 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): 18 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.88

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 58.1 | 120.3 | 256.8 | 552.2 |

TABLE 2027 No Project-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Highland Springs Avenue South of I-10 EB Ramps

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 46750 SPEED (MPH): 35 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): 37 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.61

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 73.6 | 142.0 | 297.5 | 637.0 |

TABLE 2027 No Project-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Highland Springs Avenue North of 1st Street/Sun Lakes Boulevard

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 17350 SPEED (MPH): 35 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): 43 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.00

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 82.8 | 158.4 | 331.1 |

TABLE 2027 No Project-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Highland Springs Avenue Between 1st Street/Sun Lakes
Boulevard and Potero Boulevard

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8700 SPEED (MPH): 35 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): 28 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.83

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 100.3 | 209.4 |

TABLE 2027 No Project-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Highland Springs Avenue South of Potero Boulevard

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5450 SPEED (MPH): 35 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): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.05

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 74.5 | 153.9 |

TABLE 2027 No Project-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Highland Home Road Between Driveway 1 and Sun Lakes
Boulevard/Westward Avenue

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 0 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 22.59

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

TABLE 2027 No Project-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Highland Home Road South of Sun Lakes Boulevard/Westward Avenue

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 150 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 44.35

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

TABLE 2027 No Project-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Sunset Avenue North of Ramsey Street

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13150 SPEED (MPH): 40 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): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.30

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 77.1 | 159.6 | 340.8 |

TABLE 2027 No Project-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Sunset Avenue Between Ramsey Street and I-10 WB Ramps

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14950 SPEED (MPH): 35 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): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.44

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 68.5 | 140.3 | 298.7 |

TABLE 2027 No Project-12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Sunset Avenue Between I-10 WB Ramps and I-10 EB Ramps

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 10850 SPEED (MPH): 35 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): 21 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.25

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 55.9 | 113.6 | 241.5 |

TABLE 2027 No Project-13
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Sunset Avenue Between I-10 EB Ramps and Driveway 19

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4475 SPEED (MPH): 35 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): 12 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.12

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 63.1 | 134.0 |

TABLE 2027 No Project-14
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 19 and Lincoln Street

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4475 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.70

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 62.3 | 133.7 |

TABLE 2027 No Project-15
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Sunset Avenue Between Lincoln Street and Westward Avenue

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1800 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 56.75

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 73.0 |

TABLE 2027 No Project-16
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Sunset Avenue Between Westward Avenue and Driveway 20

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 475 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 50.96

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

TABLE 2027 No Project-17
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 20 and Driveway 21

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 650 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 52.32

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

TABLE 2027 No Project-18
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 21 and Driveway 22

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 650 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 52.32

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

TABLE 2027 No Project-19
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 22 and Bobcat Road

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 475 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 50.96

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

TABLE 2027 No Project-20
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: 6th Street West of Highland Springs Road

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 20650 SPEED (MPH): 35 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): 42 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.81

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 89.9 | 176.3 | 371.1 |

TABLE 2027 No Project-21
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Ramsey Street East of Highland Springs Road

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 19000 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): 42 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.14

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 67.4 | 121.1 | 248.3 | 528.8 |

TABLE 2027 No Project-22
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Ramsey Street West of Highland Home Road

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 15650 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): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.95

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 104.4 | 217.4 | 464.7 |

TABLE 2027 No Project-23
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Ramsey Street East of Highland Home Road

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14000 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): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.46

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 97.5 | 202.1 | 431.6 |

TABLE 2027 No Project-24
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023
ROADWAY SEGMENT: Ramsey Street West of Sunset Avenue
NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 15450 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): 31 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.83

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 103.8 | 215.7 | 460.8 |

TABLE 2027 No Project-25
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023
ROADWAY SEGMENT: Ramsey Street East of Sunset Avenue
NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14750 SPEED (MPH): 40 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): 26 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.67

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 83.2 | 172.3 | 367.8 |

TABLE 2027 No Project-26
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: 1st Street West of Highland Springs Road

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 10550 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): 32 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.12

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 83.2 | 168.6 | 357.9 |

TABLE 2027 No Project-27
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Sun Lakes Boulevard East of Highland Springs Road

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8200 SPEED (MPH): 35 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): 32 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.33

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 98.0 | 202.0 |

TABLE 2027 No Project-28
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Sun Lakes Boulevard West of Highland Home Road

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 900 SPEED (MPH): 35 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): 28 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 51.97

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

TABLE 2027 No Project-29
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Lincoln Street East of Sunset Avenue

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2550 SPEED (MPH): 40 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.68

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 53.3 | 114.3 |

TABLE 2027 No Project-30
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023
ROADWAY SEGMENT: Westward Avenue East of Sunset Avenue
NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1000 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 54.19

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

TABLE 2027 No Project-31
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 5 and Driveway 8

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 0 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 22.59

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

TABLE 2027 No Project-32
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 8 and Driveway 12

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 0 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 22.59

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

TABLE 2027 No Project-33
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 12 and Driveway 18

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 0 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 22.59

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

TABLE 2027 No Project-34
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 18 and Sunset Avenue

NOTES: Sunset Crossroads - 2027 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 0 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 22.59

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

TABLE 2027 + Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue North of 6th Street/Ramsey Street

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 26100 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.58 | 12.58 | 9.35 |
| M-TRUCKS | 1.50 | 0.09 | 0.18 |
| H-TRUCKS | 0.62 | 0.02 | 0.08 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.82

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 95.5 | 200.7 | 429.8 |

TABLE 2027 + Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue Between 6th Street/Ramsey Street
and I-10 WB Ramps

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 35550 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.59 | 12.58 | 9.35 |
| M-TRUCKS | 1.50 | 0.09 | 0.18 |
| H-TRUCKS | 0.61 | 0.02 | 0.08 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.15

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 57.9 | 116.0 | 245.7 | 527.2 |

TABLE 2027 + Project-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue Between I-10 WB Ramps and I-10
EB Ramps

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 39050 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.21 | 12.52 | 9.30 |
| M-TRUCKS | 1.55 | 0.09 | 0.19 |
| H-TRUCKS | 0.98 | 0.03 | 0.13 |

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 69.58

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 64.0 | 133.6 | 285.6 | 614.3 |

TABLE 2027 + Project-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue South of I-10 EB Ramps

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 48000 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.28 | 12.53 | 9.31 |
| M-TRUCKS | | | |
| | 1.55 | 0.09 | 0.19 |
| H-TRUCKS | | | |
| | 0.90 | 0.03 | 0.12 |

ACTIVE HALF-WIDTH (FT): 37 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 69.16

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 78.5 | 153.7 | 323.4 | 693.0 |

TABLE 2027 + Project-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue North of 1st Street/Sun Lakes Boulevard

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 18600 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 74.93 | 12.47 | 9.26 |
| M-TRUCKS | 1.55 | 0.09 | 0.19 |
| H-TRUCKS | 1.31 | 0.04 | 0.16 |

ACTIVE HALF-WIDTH (FT): 43 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.22

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 95.5 | 188.7 | 398.0 |

TABLE 2027 + Project-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue Between 1st Street/Sun Lakes
Boulevard and Potero Boulevard

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9650 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.70 | 12.61 | 9.37 |
| M-TRUCKS | 1.41 | 0.08 | 0.18 |
| H-TRUCKS | 0.58 | 0.02 | 0.05 |

ACTIVE HALF-WIDTH (FT): 28 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.98

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 102.6 | 214.3 |

TABLE 2027 + Project-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue South of Potero Boulevard

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5950 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.67 | 12.60 | 9.36 |
| M-TRUCKS | | | |
| | 1.43 | 0.08 | 0.17 |
| H-TRUCKS | | | |
| | 0.59 | 0.02 | 0.08 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.34

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 77.6 | 160.7 |

TABLE 2027 + Project-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Home Road Between Driveway 1 and Sun Lakes
Boulevard/Westward Avenue

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 350 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 77.43 | 12.86 | 9.71 |
| M-TRUCKS | 0.00 | 0.00 | 0.00 |
| H-TRUCKS | 0.00 | 0.00 | 0.00 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 45.75

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

TABLE 2027 + Project-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Home Road South of Sun Lakes Boulevard/Westward Avenue

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 150 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.33 | 12.67 | 9.33 |
| M-TRUCKS | 1.33 | 0.00 | 0.00 |
| H-TRUCKS | 0.67 | 0.00 | 0.67 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 47.26

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

TABLE 2027 + Project-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue North of Ramsey Street

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14100 SPEED (MPH): 40 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.65 | 12.60 | 9.35 |
| M-TRUCKS | 1.45 | 0.09 | 0.18 |
| H-TRUCKS | 0.60 | 0.02 | 0.06 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.42

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 78.4 | 162.6 | 347.3 |

TABLE 2027 + Project-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Ramsey Street and I-10 WB Ramps

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 16400 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 74.62 | 12.42 | 9.23 |
| M-TRUCKS | 1.71 | 0.10 | 0.21 |
| H-TRUCKS | 1.48 | 0.05 | 0.18 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.01

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 85.2 | 177.7 | 380.1 |

TABLE 2027 + Project-12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between I-10 WB Ramps and I-10 EB Ramps

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 19650 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 70.64 | 11.76 | 8.74 |
| M-TRUCKS | | | |
| | 1.51 | 0.09 | 0.19 |
| H-TRUCKS | | | |
| | 6.12 | 0.19 | 0.76 |

ACTIVE HALF-WIDTH (FT): 21 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 70.54

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 76.6 | 160.2 | 342.7 | 737.0 |

TABLE 2027 + Project-13
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between I-10 EB Ramps and Driveway 19

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 20625 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 65.42 | 10.89 | 8.10 |
| M-TRUCKS | 1.73 | 0.10 | 0.22 |
| H-TRUCKS | 11.72 | 0.36 | 1.46 |

ACTIVE HALF-WIDTH (FT): 12 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 73.74

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 108.6 | 232.9 | 501.1 | 1079.1 |

TABLE 2027 + Project-14
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 19 and Lincoln Street

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 19275 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 65.61 | 10.93 | 8.12 |
| M-TRUCKS | 1.73 | 0.10 | 0.22 |
| H-TRUCKS | 11.51 | 0.36 | 1.42 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 73.94

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 102.2 | 219.8 | 473.2 | 1019.2 |

TABLE 2027 + Project-15
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Lincoln Street and Westward Avenue

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 10750 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 65.81 | 10.95 | 8.14 |
| M-TRUCKS | 1.74 | 0.10 | 0.21 |
| H-TRUCKS | 11.27 | 0.35 | 1.43 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 71.38

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 69.1 | 148.4 | 319.4 | 687.8 |

TABLE 2027 + Project-16
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Westward Avenue and Driveway 20

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4275 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 62.25 | 10.36 | 7.69 |
| M-TRUCKS | 1.68 | 0.09 | 0.21 |
| H-TRUCKS | 15.29 | 0.49 | 1.94 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.52

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 95.7 | 205.8 | 443.2 |

TABLE 2027 + Project-17
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 20 and Driveway 21

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2850 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 62.03 | 10.34 | 7.68 |
| M-TRUCKS | 1.75 | 0.11 | 0.21 |
| H-TRUCKS | 15.47 | 0.48 | 1.93 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.76

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 73.2 | 157.3 | 338.7 |

TABLE 2027 + Project-18
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 21 and Driveway 22

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4200 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 61.85 | 10.30 | 7.66 |
| M-TRUCKS | 1.74 | 0.12 | 0.21 |
| H-TRUCKS | 15.66 | 0.50 | 1.96 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.51

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 95.5 | 205.5 | 442.5 |

TABLE 2027 + Project-19
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 22 and Bobcat Road

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3425 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 61.00 | 10.16 | 7.53 |
| M-TRUCKS | | | |
| | 1.81 | 0.09 | 0.23 |
| H-TRUCKS | | | |
| | 16.55 | 0.53 | 2.10 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.87

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 86.6 | 186.2 | 401.0 |

TABLE 2027 + Project-20
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: 6th Street West of Highland Springs Road

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 21100 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.55 | 12.58 | 9.35 |
| M-TRUCKS | 1.53 | 0.09 | 0.18 |
| H-TRUCKS | 0.63 | 0.02 | 0.07 |

ACTIVE HALF-WIDTH (FT): 42 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.81

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 89.9 | 176.2 | 371.0 |

TABLE 2027 + Project-21
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Ramsey Street East of Highland Springs Road

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 19000 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): 42 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.14

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 67.4 | 121.1 | 248.3 | 528.8 |

TABLE 2027 + Project-22
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Ramsey Street West of Highland Home Road

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 15650 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): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.95

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 104.4 | 217.4 | 464.7 |

TABLE 2027 + Project-23
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Ramsey Street East of Highland Home Road

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14500 SPEED (MPH): 45 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.57 | 12.59 | 9.35 |
| M-TRUCKS | | | |
| | 1.50 | 0.09 | 0.19 |
| H-TRUCKS | | | |
| | 0.62 | 0.02 | 0.07 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.54

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 98.6 | 204.6 | 437.0 |

TABLE 2027 + Project-24
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Ramsey Street West of Sunset Avenue

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 15950 SPEED (MPH): 45 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.57 | 12.58 | 9.35 |
| M-TRUCKS | | | |
| | 1.51 | 0.09 | 0.18 |
| H-TRUCKS | | | |
| | 0.62 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 31 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.94

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 105.4 | 219.1 | 468.2 |

TABLE 2027 + Project-25
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023
ROADWAY SEGMENT: Ramsey Street East of Sunset Avenue
NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14750 SPEED (MPH): 40 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): 26 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.67

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 83.2 | 172.3 | 367.8 |

TABLE 2027 + Project-26
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: 1st Street West of Highland Springs Road

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 11000 SPEED (MPH): 45 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.59 | 12.58 | 9.35 |
| M-TRUCKS | | | |
| | 1.50 | 0.08 | 0.18 |
| H-TRUCKS | | | |
| | 0.62 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 32 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.26

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 84.8 | 172.1 | 365.6 |

TABLE 2027 + Project-27
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sun Lakes Boulevard East of Highland Springs Road

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 10900 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 74.59 | 12.42 | 9.23 |
| M-TRUCKS | | | |
| | 1.34 | 0.07 | 0.17 |
| H-TRUCKS | | | |
| | 1.89 | 0.06 | 0.23 |

ACTIVE HALF-WIDTH (FT): 32 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.10

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 73.1 | 145.1 | 306.5 |

TABLE 2027 + Project-28
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sun Lakes Boulevard West of Highland Home Road

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4050 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 73.33 | 12.20 | 9.06 |
| M-TRUCKS | 0.81 | 0.05 | 0.10 |
| H-TRUCKS | 3.85 | 0.12 | 0.48 |

ACTIVE HALF-WIDTH (FT): 28 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.70

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 98.5 | 205.3 |

TABLE 2027 + Project-29
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023
ROADWAY SEGMENT: Lincoln Street East of Sunset Avenue
NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3900 SPEED (MPH): 40 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 76.22 | 12.70 | 9.41 |
| M-TRUCKS | 1.03 | 0.05 | 0.13 |
| H-TRUCKS | 0.41 | 0.03 | 0.02 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.80

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 63.2 | 135.6 |

TABLE 2027 + Project-30
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Westward Avenue East of Sunset Avenue

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1000 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 54.19

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

TABLE 2027 + Project-31
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 5 and Driveway 8

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 750 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 63.87 | 10.67 | 7.87 |
| M-TRUCKS | 1.33 | 0.13 | 0.13 |
| H-TRUCKS | 13.87 | 0.40 | 1.73 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.44

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 51.5 | 110.3 |

TABLE 2027 + Project-32
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 8 and Driveway 12

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1700 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 59.71 | 9.94 | 7.35 |
| M-TRUCKS | | | |
| | 1.76 | 0.12 | 0.24 |
| H-TRUCKS | | | |
| | 18.06 | 0.59 | 2.23 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.06

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 104.0 | 223.8 |

TABLE 2027 + Project-33
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 12 and Driveway 18

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2450 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 57.43 | 9.55 | 7.10 |
| M-TRUCKS | | | |
| | 1.96 | 0.12 | 0.24 |
| H-TRUCKS | | | |
| | 20.41 | 0.65 | 2.54 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.15

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 66.7 | 143.2 | 308.2 |

TABLE 2027 + Project-34
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 18 and Sunset Avenue

NOTES: Sunset Crossroads - 2027 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3000 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 58.67 | 9.77 | 7.27 |
| M-TRUCKS | 1.87 | 0.10 | 0.23 |
| H-TRUCKS | 19.10 | 0.60 | 2.39 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.77

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 73.3 | 157.5 | 339.0 |

TABLE 2045 No Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Highland Springs Avenue North of 6th Street/Ramsey Street

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 25150 SPEED (MPH): 35 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): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.69

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 93.9 | 197.0 | 421.9 |

TABLE 2045 No Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Highland Springs Avenue Between 6th Street/Ramsey Street
and I-10 WB Ramps

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 34100 SPEED (MPH): 35 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): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.02

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 56.9 | 113.7 | 240.7 | 516.4 |

TABLE 2045 No Project-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Highland Springs Avenue Between I-10 WB Ramps and I-10
EB Ramps

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 37700 SPEED (MPH): 35 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): 18 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.88

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 58.1 | 120.3 | 256.8 | 552.2 |

TABLE 2045 No Project-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Highland Springs Avenue South of I-10 EB Ramps

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 46750 SPEED (MPH): 35 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): 37 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.61

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 73.6 | 142.0 | 297.5 | 637.0 |

TABLE 2045 No Project-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Highland Springs Avenue North of 1st Street/Sun Lakes Boulevard

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 17400 SPEED (MPH): 35 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): 43 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.02

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 82.9 | 158.6 | 331.7 |

TABLE 2045 No Project-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Highland Springs Avenue Between 1st Street/Sun Lakes
Boulevard and Potero Boulevard

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 10850 SPEED (MPH): 35 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): 28 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.79

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 58.9 | 115.1 | 242.0 |

TABLE 2045 No Project-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Highland Springs Avenue South of Potero Boulevard

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 10300 SPEED (MPH): 35 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): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.82

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 55.5 | 110.5 | 233.5 |

TABLE 2045 No Project-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Highland Home Road Between Driveway 1 and Sun Lakes
Boulevard/Westward Avenue

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 0 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 22.59

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

TABLE 2045 No Project-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Highland Home Road South of Sun Lakes Boulevard/Westward Avenue

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 0 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 22.59

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

TABLE 2045 No Project-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Sunset Avenue North of Ramsey Street

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13150 SPEED (MPH): 40 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): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.30

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 77.1 | 159.6 | 340.8 |

TABLE 2045 No Project-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Sunset Avenue Between Ramsey Street and I-10 WB Ramps

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 15850 SPEED (MPH): 35 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): 24 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.69

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 70.9 | 145.7 | 310.5 |

TABLE 2045 No Project-12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Sunset Avenue Between I-10 WB Ramps and I-10 EB Ramps

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 10850 SPEED (MPH): 35 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): 21 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.25

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 55.9 | 113.6 | 241.5 |

TABLE 2045 No Project-13
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Sunset Avenue Between I-10 EB Ramps and Driveway 19

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4950 SPEED (MPH): 35 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): 12 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.56

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 67.3 | 143.2 |

TABLE 2045 No Project-14
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 19 and Lincoln Street

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4950 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.14

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 66.6 | 142.9 |

TABLE 2045 No Project-15
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Sunset Avenue Between Lincoln Street and Westward Avenue

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4700 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.91

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 64.3 | 138.1 |

TABLE 2045 No Project-16
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Sunset Avenue Between Westward Avenue and Driveway 20

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1850 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 56.87

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 74.4 |

TABLE 2045 No Project-17
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 20 and Driveway 21

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1850 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 56.87

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 74.4 |

TABLE 2045 No Project-18
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 21 and Driveway 22

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1850 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 56.87

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 74.4 |

TABLE 2045 No Project-19
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 22 and Bobcat Road

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1075 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 54.51

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 52.0 |

TABLE 2045 No Project-20
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: 6th Street West of Highland Springs Road

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 20650 SPEED (MPH): 35 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): 42 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.81

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 89.9 | 176.3 | 371.1 |

TABLE 2045 No Project-21
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Ramsey Street East of Highland Springs Road

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 19000 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): 42 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.14

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 67.4 | 121.1 | 248.3 | 528.8 |

TABLE 2045 No Project-22
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Ramsey Street West of Highland Home Road

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 16300 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): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.12

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 107.0 | 223.2 | 477.5 |

TABLE 2045 No Project-23
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Ramsey Street East of Highland Home Road

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 15200 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): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.82

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 102.5 | 213.3 | 455.8 |

TABLE 2045 No Project-24
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Ramsey Street West of Sunset Avenue

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 15450 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): 31 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.83

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 103.8 | 215.7 | 460.8 |

TABLE 2045 No Project-25
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Ramsey Street East of Sunset Avenue

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14750 SPEED (MPH): 40 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): 26 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.67

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 83.2 | 172.3 | 367.8 |

TABLE 2045 No Project-26
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: 1st Street West of Highland Springs Road

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 10550 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): 32 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.12

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 83.2 | 168.6 | 357.9 |

TABLE 2045 No Project-27
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Sun Lakes Boulevard East of Highland Springs Road

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8200 SPEED (MPH): 35 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): 32 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.33

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 98.0 | 202.0 |

TABLE 2045 No Project-28
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Sun Lakes Boulevard West of Highland Home Road

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3150 SPEED (MPH): 35 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): 28 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 57.42

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 109.1 |

TABLE 2045 No Project-29
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Lincoln Street East of Sunset Avenue

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2550 SPEED (MPH): 40 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.68

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 53.3 | 114.3 |

TABLE 2045 No Project-30
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023
ROADWAY SEGMENT: Westward Avenue East of Sunset Avenue
NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1850 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 56.87

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 74.4 |

TABLE 2045 No Project-31
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 5 and Driveway 8

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 0 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 22.59

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

TABLE 2045 No Project-32
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 8 and Driveway 12

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 0 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 22.59

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

TABLE 2045 No Project-33
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 12 and Driveway 18

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 0 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 22.59

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

TABLE 2045 No Project-34
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/22/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 18 and Sunset Avenue

NOTES: Sunset Crossroads - 2045 No Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 0 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 22.59

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

TABLE 2045 + Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue North of 6th Street/Ramsey Street

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 26100 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.58 | 12.58 | 9.35 |
| M-TRUCKS | 1.50 | 0.09 | 0.18 |
| H-TRUCKS | 0.62 | 0.02 | 0.08 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.82

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 95.5 | 200.7 | 429.8 |

TABLE 2045 + Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue Between 6th Street/Ramsey Street
and I-10 WB Ramps

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 35550 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.59 | 12.58 | 9.35 |
| M-TRUCKS | | | |
| | 1.50 | 0.09 | 0.18 |
| H-TRUCKS | | | |
| | 0.61 | 0.02 | 0.08 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.15

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 57.9 | 116.0 | 245.7 | 527.2 |

TABLE 2045 + Project-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue Between I-10 WB Ramps and I-10
EB Ramps

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 39050 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.21 | 12.52 | 9.30 |
| M-TRUCKS | 1.55 | 0.09 | 0.19 |
| H-TRUCKS | 0.98 | 0.03 | 0.13 |

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 69.58

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 64.0 | 133.6 | 285.6 | 614.3 |

TABLE 2045 + Project-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue South of I-10 EB Ramps

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 48000 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.28 | 12.53 | 9.31 |
| M-TRUCKS | 1.55 | 0.09 | 0.19 |
| H-TRUCKS | 0.90 | 0.03 | 0.12 |

ACTIVE HALF-WIDTH (FT): 37 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 69.16

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 78.5 | 153.7 | 323.4 | 693.0 |

TABLE 2045 + Project-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue North of 1st Street/Sun Lakes Boulevard

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 18650 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 74.93 | 12.47 | 9.26 |
| M-TRUCKS | 1.54 | 0.09 | 0.19 |
| H-TRUCKS | 1.30 | 0.04 | 0.18 |

ACTIVE HALF-WIDTH (FT): 43 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.33

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 96.8 | 191.8 | 404.9 |

TABLE 2045 + Project-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue Between 1st Street/Sun Lakes
Boulevard and Potero Boulevard

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 11800 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.67 | 12.60 | 9.36 |
| M-TRUCKS | 1.43 | 0.08 | 0.18 |
| H-TRUCKS | 0.58 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 28 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.07

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 60.9 | 119.9 | 252.6 |

TABLE 2045 + Project-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Springs Avenue South of Potero Boulevard

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 10750 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.60 | 12.59 | 9.35 |
| M-TRUCKS | | | |
| | 1.50 | 0.08 | 0.19 |
| H-TRUCKS | | | |
| | 0.61 | 0.02 | 0.06 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.83

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 55.6 | 110.7 | 234.0 |

TABLE 2045 + Project-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Home Road Between Driveway 1 and Sun Lakes
Boulevard/Westward Avenue

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 350 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 77.43 | 12.86 | 9.71 |
| M-TRUCKS | | | |
| | 0.00 | 0.00 | 0.00 |
| H-TRUCKS | | | |
| | 0.00 | 0.00 | 0.00 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 45.75

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

TABLE 2045 + Project-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Highland Home Road South of Sun Lakes Boulevard/Westward Avenue

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 0 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 22.59

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

TABLE 2045 + Project-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue North of Ramsey Street

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14100 SPEED (MPH): 40 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 75.65 | 12.60 | 9.35 |
| M-TRUCKS | 1.45 | 0.09 | 0.18 |
| H-TRUCKS | 0.60 | 0.02 | 0.06 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.42

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 78.4 | 162.6 | 347.3 |

TABLE 2045 + Project-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Ramsey Street and I-10 WB Ramps

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 17250 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 74.70 | 12.43 | 9.23 |
| M-TRUCKS | | | |
| | 1.69 | 0.10 | 0.20 |
| H-TRUCKS | | | |
| | 1.41 | 0.04 | 0.20 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.27

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 88.3 | 184.7 | 395.1 |

TABLE 2045 + Project-12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between I-10 WB Ramps and I-10 EB Ramps

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 19650 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 70.64 | 11.76 | 8.74 |
| M-TRUCKS | | | |
| | 1.51 | 0.09 | 0.19 |
| H-TRUCKS | | | |
| | 6.12 | 0.19 | 0.76 |

ACTIVE HALF-WIDTH (FT): 21 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 70.54

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 76.6 | 160.2 | 342.7 | 737.0 |

TABLE 2045 + Project-13
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between I-10 EB Ramps and Driveway 19

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 21100 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 65.65 | 10.93 | 8.12 |
| M-TRUCKS | 1.72 | 0.09 | 0.21 |
| H-TRUCKS | 11.47 | 0.36 | 1.45 |

ACTIVE HALF-WIDTH (FT): 12 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 73.79

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 109.4 | 234.6 | 504.7 | 1087.0 |

TABLE 2045 + Project-14
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 19 and Lincoln Street

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 19775 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 65.85 | 10.96 | 8.15 |
| M-TRUCKS | 1.72 | 0.10 | 0.21 |
| H-TRUCKS | 11.25 | 0.35 | 1.41 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 74.00

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 103.0 | 221.6 | 477.2 | 1027.7 |

TABLE 2045 + Project-15
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Lincoln Street and Westward Avenue

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13650 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 67.88 | 11.30 | 8.40 |
| M-TRUCKS | | | |
| | 1.70 | 0.10 | 0.21 |
| H-TRUCKS | | | |
| | 9.01 | 0.29 | 1.11 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 71.57

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 71.1 | 152.7 | 328.6 | 707.7 |

TABLE 2045 + Project-16
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Westward Avenue and Driveway 20

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5650 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 65.48 | 10.90 | 8.10 |
| M-TRUCKS | 1.66 | 0.11 | 0.21 |
| H-TRUCKS | 11.73 | 0.37 | 1.44 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.67

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 98.0 | 210.7 | 453.8 |

TABLE 2045 + Project-17
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 20 and Driveway 21

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5500 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 65.01 | 10.84 | 8.04 |
| M-TRUCKS | 1.71 | 0.11 | 0.22 |
| H-TRUCKS | 12.22 | 0.36 | 1.49 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.69

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 98.2 | 211.2 | 454.8 |

TABLE 2045 + Project-18
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 21 and Driveway 22

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5350 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 64.94 | 10.82 | 8.04 |
| M-TRUCKS | | | |
| | 1.70 | 0.11 | 0.22 |
| H-TRUCKS | | | |
| | 12.28 | 0.37 | 1.52 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.62

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 97.2 | 209.0 | 450.0 |

TABLE 2045 + Project-19
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 22 and Bobcat Road

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4025 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 63.16 | 10.51 | 7.80 |
| M-TRUCKS | 1.79 | 0.10 | 0.22 |
| H-TRUCKS | 14.18 | 0.45 | 1.79 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.96

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 87.9 | 189.1 | 407.1 |

TABLE 2045 + Project-20
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: 6th Street West of Highland Springs Road

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 21100 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.55 | 12.58 | 9.35 |
| M-TRUCKS | | | |
| | 1.53 | 0.09 | 0.18 |
| H-TRUCKS | | | |
| | 0.63 | 0.02 | 0.07 |

ACTIVE HALF-WIDTH (FT): 42 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.81

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 89.9 | 176.2 | 371.0 |

TABLE 2045 + Project-21
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Ramsey Street East of Highland Springs Road

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 19000 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): 42 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.14

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 67.4 | 121.1 | 248.3 | 528.8 |

TABLE 2045 + Project-22
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Ramsey Street West of Highland Home Road

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 16300 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): 30 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.12

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 107.0 | 223.2 | 477.5 |

TABLE 2045 + Project-23
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Ramsey Street East of Highland Home Road

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 15700 SPEED (MPH): 45 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.57 | 12.59 | 9.35 |
| M-TRUCKS | | | |
| | 1.51 | 0.09 | 0.18 |
| H-TRUCKS | | | |
| | 0.62 | 0.02 | 0.07 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.87

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 103.3 | 215.0 | 459.6 |

TABLE 2045 + Project-24
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Ramsey Street West of Sunset Avenue

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 15950 SPEED (MPH): 45 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.57 | 12.58 | 9.35 |
| M-TRUCKS | | | |
| | 1.51 | 0.09 | 0.18 |
| H-TRUCKS | | | |
| | 0.62 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 31 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.94

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 105.4 | 219.1 | 468.2 |

TABLE 2045 + Project-25
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023
ROADWAY SEGMENT: Ramsey Street East of Sunset Avenue
NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14750 SPEED (MPH): 40 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): 26 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.67

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 83.2 | 172.3 | 367.8 |

TABLE 2045 + Project-26
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: 1st Street West of Highland Springs Road

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 11000 SPEED (MPH): 45 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 75.59 | 12.58 | 9.35 |
| M-TRUCKS | | | |
| | 1.50 | 0.08 | 0.18 |
| H-TRUCKS | | | |
| | 0.62 | 0.02 | 0.08 |

ACTIVE HALF-WIDTH (FT): 32 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.26

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 84.8 | 172.1 | 365.6 |

TABLE 2045 + Project-27
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sun Lakes Boulevard East of Highland Springs Road

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 10900 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 74.59 | 12.42 | 9.23 |
| M-TRUCKS | | | |
| | 1.34 | 0.07 | 0.17 |
| H-TRUCKS | | | |
| | 1.89 | 0.06 | 0.23 |

ACTIVE HALF-WIDTH (FT): 32 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.10

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 73.1 | 145.1 | 306.5 |

TABLE 2045 + Project-28
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Sun Lakes Boulevard West of Highland Home Road

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 6300 SPEED (MPH): 35 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 74.11 | 12.33 | 9.16 |
| M-TRUCKS | | | |
| | 1.08 | 0.06 | 0.13 |
| H-TRUCKS | | | |
| | 2.70 | 0.10 | 0.33 |

ACTIVE HALF-WIDTH (FT): 28 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.71

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 58.4 | 113.8 | 239.2 |

TABLE 2045 + Project-29
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Lincoln Street East of Sunset Avenue

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3900 SPEED (MPH): 40 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 76.22 | 12.70 | 9.41 |
| M-TRUCKS | | | |
| | 1.03 | 0.05 | 0.13 |
| H-TRUCKS | | | |
| | 0.41 | 0.03 | 0.02 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.80

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 63.2 | 135.6 |

TABLE 2045 + Project-30
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023
ROADWAY SEGMENT: Westward Avenue East of Sunset Avenue
NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1850 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 56.87

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 74.4 |

TABLE 2045 + Project-31
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 5 and Driveway 8

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 750 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 63.87 | 10.67 | 7.87 |
| M-TRUCKS | 1.33 | 0.13 | 0.13 |
| H-TRUCKS | 13.87 | 0.40 | 1.73 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.44

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 51.5 | 110.3 |

TABLE 2045 + Project-32
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 8 and Driveway 12

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1700 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 59.71 | 9.94 | 7.35 |
| M-TRUCKS | | | |
| | 1.76 | 0.12 | 0.24 |
| H-TRUCKS | | | |
| | 18.06 | 0.59 | 2.23 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.06

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 104.0 | 223.8 |

TABLE 2045 + Project-33
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 12 and Driveway 18

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2450 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | | | |
| | 57.43 | 9.55 | 7.10 |
| M-TRUCKS | | | |
| | 1.96 | 0.12 | 0.24 |
| H-TRUCKS | | | |
| | 20.41 | 0.65 | 2.54 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.15

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 66.7 | 143.2 | 308.2 |

TABLE 2045 + Project-34
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/24/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 18 and Sunset Avenue

NOTES: Sunset Crossroads - 2045 + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3000 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | | |
|----------|----------------------------------|---------|-------|
| | DAY | EVENING | NIGHT |
| | --- | ----- | ----- |
| AUTOS | 58.67 | 9.77 | 7.27 |
| M-TRUCKS | 1.87 | 0.10 | 0.23 |
| H-TRUCKS | 19.10 | 0.60 | 2.39 |

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

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.77

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 73.3 | 157.5 | 339.0 |

APPENDIX D

FHWA HIGHWAY TRAFFIC NOISE MODEL PRINTOUTS (CONSTRUCTION)

TABLE Construction Traffic-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/05/2023

ROADWAY SEGMENT: Highland Springs Avenue North of 1st Street/Sun Lakes
Boulevard

NOTES: Sunset Crossroads - Construction Traffic

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 16525 SPEED (MPH): 35 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): 43 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.79

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 80.9 | 153.7 | 320.7 |

TABLE Construction Traffic-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/05/2023

ROADWAY SEGMENT: Highland Springs Avenue Between 1st Street/Sun Lakes
Boulevard and Potero Boulevard

NOTES: Sunset Crossroads - Construction Traffic

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8825 SPEED (MPH): 35 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): 28 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.89

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 101.2 | 211.4 |

TABLE Construction Traffic-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/05/2023

ROADWAY SEGMENT: Sun Lakes Boulevard East of Highland Springs Road

NOTES: Sunset Crossroads - Construction Traffic

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8425 SPEED (MPH): 35 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): 32 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.45

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 99.5 | 205.6 |

TABLE Construction Traffic-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/05/2023

ROADWAY SEGMENT: Sun Lakes Boulevard West of Highland Home Road

NOTES: Sunset Crossroads - Construction Traffic

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1275 SPEED (MPH): 35 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): 28 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 53.49

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 64.1 |

TABLE Construction Traffic-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/05/2023

ROADWAY SEGMENT: Sunset Avenue Between I-10 EB Ramps and Driveway 19

NOTES: Sunset Crossroads - Construction Traffic

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3200 SPEED (MPH): 35 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): 12 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.66

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 107.4 |

TABLE Construction Traffic-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/05/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 19 and Lincoln Street

NOTES: Sunset Crossroads - Construction Traffic

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3225 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.28

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 107.5 |

TABLE Construction Traffic-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/05/2023

ROADWAY SEGMENT: Sunset Avenue Between Lincoln Street and Westward Avenue

NOTES: Sunset Crossroads - Construction Traffic

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2700 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.51

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 95.5 |

TABLE Construction Traffic-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/05/2023

ROADWAY SEGMENT: Sunset Avenue Between Westward Avenue and Driveway 20

NOTES: Sunset Crossroads - Construction Traffic

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1375 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 55.58

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 61.1 |

TABLE Construction Traffic-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/05/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 20 and Driveway 21

NOTES: Sunset Crossroads - Construction Traffic

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1375 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 55.58

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 61.1 |

TABLE Construction Traffic-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/05/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 21 and Driveway 22

NOTES: Sunset Crossroads - Construction Traffic

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1375 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 55.58

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 61.1 |

TABLE Construction Traffic-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/05/2023

ROADWAY SEGMENT: Sunset Avenue Between Driveway 22 and Bobcat Road

NOTES: Sunset Crossroads - Construction Traffic

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1375 SPEED (MPH): 35 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 55.58

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL | | | |
|---|---------|---------|---------|
| 70 CNEL | 65 CNEL | 60 CNEL | 55 CNEL |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 61.1 |

TABLE Construction Traffic-12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/05/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 5 and Driveway 8

NOTES: Sunset Crossroads - Construction Traffic

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1125 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 53.10

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

TABLE Construction Traffic-13
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/05/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 8 and Driveway 12

NOTES: Sunset Crossroads - Construction Traffic

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1125 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 53.10

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

TABLE Construction Traffic-14
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/05/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 12 and Driveway 18

NOTES: Sunset Crossroads - Construction Traffic

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1125 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 53.10

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

TABLE Construction Traffic-15
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/05/2023

ROADWAY SEGMENT: Bobcat Road Between Driveway 18 and Sunset Avenue

NOTES: Sunset Crossroads - Construction Traffic

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1125 SPEED (MPH): 30 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): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 53.10

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

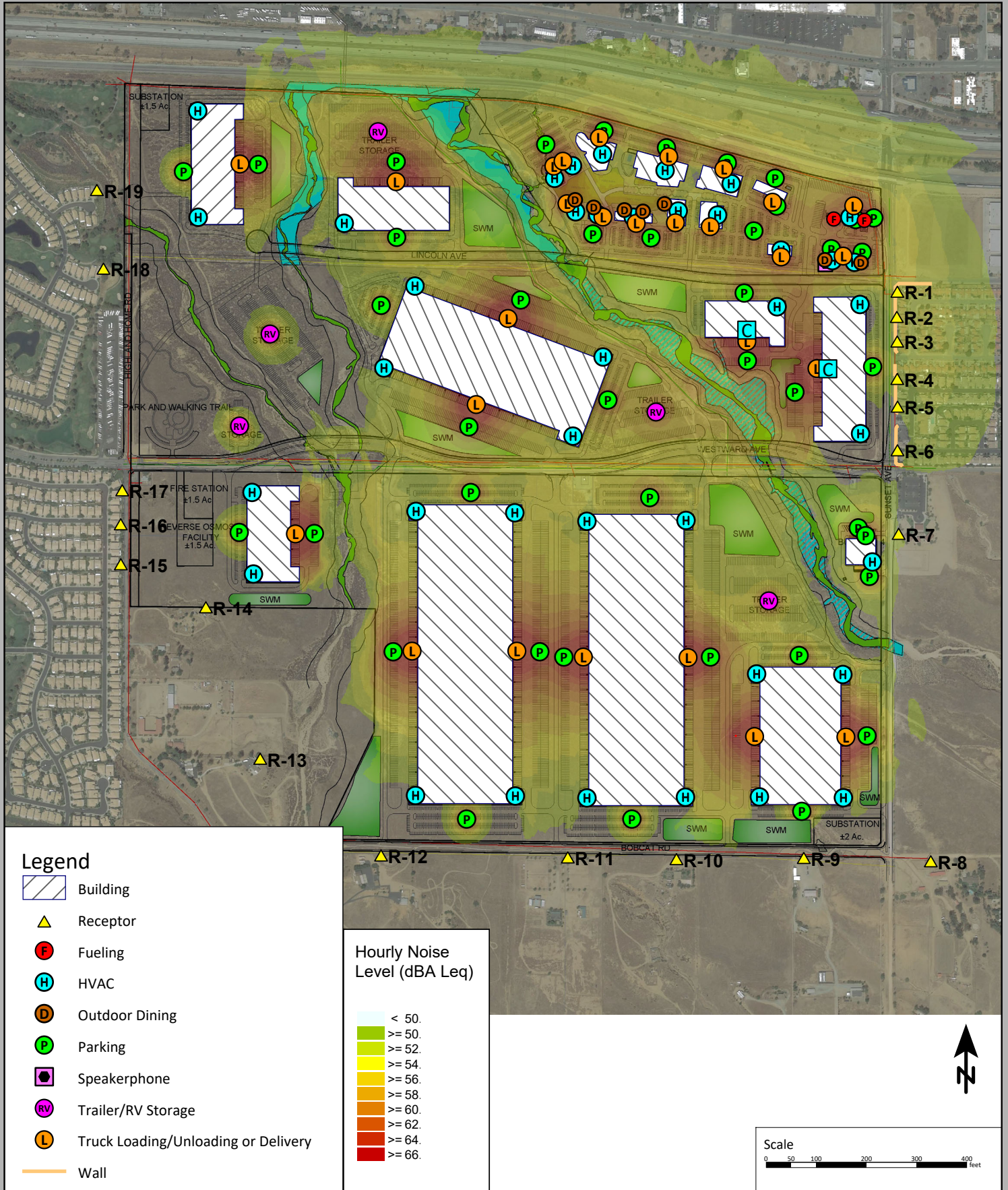
APPENDIX E

SOUNDPLAN PRINTOUTS

Sunset Crossroads

Project No. NPD2001

Project Operational Noise Levels - Daytime



Sunset Crossroads

Project No. NPD2001

Project Operational Noise Levels - Nighttime

