

## Appendix E: Noise Supporting Information

THIS PAGE INTENTIONALLY LEFT BLANK

## **E.1 - Additional Rooms Noise Memo**

THIS PAGE INTENTIONALLY LEFT BLANK



## Memo

**Date:** April 2, 2019

**To:** John-Paul Harries, Senior Planner, City of Cotati

**From:** Phil Ault, FirstCarbon Solutions

**Subject:** Cotati Hotel—Additional Rooms—Noise

---

As requested, we have reviewed the sketch dated March 21, 2019, that shows the location of eight additional rooms on the northwest wing (two rooms per floor). We understand that the two rooms on the lower floor of the northeast wing will be removed. As such, the revisions would add a total of six hotel rooms to the hotel. We understand that the revisions will not affect the parking or area of the landscaping, other than there will no longer be a bocce court.

We have reviewed the changes relative to that which was analyzed in our noise impact analysis. The addition of six rooms to the hotel would not materially alter the findings of the construction noise analysis, as they would be located within the same footprint previously evaluated. Moreover, the six rooms would result in 50 additional daily trips, which would represent a *de minimis* increase in traffic noise when averaged over a 24-hour period. Thus, the conclusions in the Mitigated Negative Declaration remain relevant and no additional analysis is warranted.

THIS PAGE INTENTIONALLY LEFT BLANK

## **E.2 - Noise Data**

THIS PAGE INTENTIONALLY LEFT BLANK

TABLE Existing-01  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/18/2018  
ROADWAY SEGMENT: California State Route 116 - U.S. Route 101 SB  
Off-Ramp to Old Redwood Highway  
NOTES: - Existing

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 23600      SPEED (MPH): 25      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

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

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

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.17

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn -----	65 Ldn -----	60 Ldn -----	55 Ldn -----
0.0	0.0	107.7	224.7

TABLE Existing-02  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/18/2018  
ROADWAY SEGMENT: Old Redwood Highway - California State Route 116  
to Saint Joseph Way  
NOTES: - Existing

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 12600      SPEED (MPH): 30      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

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

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

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.66

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn -----	65 Ldn -----	60 Ldn -----	55 Ldn -----
0.0	0.0	93.4	195.9

TABLE Existing-03  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/18/2018  
ROADWAY SEGMENT: Old Redwood Highway - Saint Joseph Way to  
Parking Lot Driveway  
NOTES: - Existing

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 20600      SPEED (MPH): 30      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

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

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

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.79

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn -----	65 Ldn -----	60 Ldn -----	55 Ldn -----
0.0	62.9	127.5	270.8

TABLE Existing-04  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/18/2018  
ROADWAY SEGMENT: U.S. Route 101 - South of California State Route 116  
NOTES: - Existing

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 103000      SPEED (MPH): 65      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

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

ACTIVE HALF-WIDTH (FT): 36      SITE CHARACTERISTICS: SOFT

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 78.35

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn -----	65 Ldn -----	60 Ldn -----	55 Ldn -----
283.5	606.9	1305.4	2811.0

TABLE Existing + Project-01  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/18/2018  
ROADWAY SEGMENT: California State Route 116 - U.S. Route 101 SB  
Off-Ramp to Old Redwood Highway  
NOTES: - Existing + Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 24000      SPEED (MPH): 25      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

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

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

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.24

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn -----	65 Ldn -----	60 Ldn -----	55 Ldn -----
0.0	0.0	108.8	227.2

TABLE Existing + Project-02  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/18/2018  
ROADWAY SEGMENT: Old Redwood Highway - California State Route 116  
to Saint Joseph Way  
NOTES: - Existing + Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 13400      SPEED (MPH): 30      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

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

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

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.92

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn -----	65 Ldn -----	60 Ldn -----	55 Ldn -----
0.0	0.0	97.0	204.0

TABLE Existing + Project-03  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/18/2018  
ROADWAY SEGMENT: Old Redwood Highway - Saint Joseph Way to  
Parking Lot Driveway  
NOTES: - Existing + Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 21100      SPEED (MPH): 30      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

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

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

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.90

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn -----	65 Ldn -----	60 Ldn -----	55 Ldn -----
0.0	63.8	129.5	275.1

TABLE Existing + Project-04  
 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/18/2018  
 ROADWAY SEGMENT: U.S. Route 101 - South of California State Route 116  
 NOTES: - Existing + Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 103000      SPEED (MPH): 65      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

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

ACTIVE HALF-WIDTH (FT): 36      SITE CHARACTERISTICS: SOFT

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 78.35

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn -----	65 Ldn -----	60 Ldn -----	55 Ldn -----
283.5	606.9	1305.4	2811.0

TABLE Cumulative-01  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/18/2018  
ROADWAY SEGMENT: California State Route 116 - U.S. Route 101 SB  
Off-Ramp to Old Redwood Highway  
NOTES: - Cumulative

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 34500      SPEED (MPH): 25      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

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

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

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.82

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn -----	65 Ldn -----	60 Ldn -----	55 Ldn -----
0.0	68.7	136.5	288.4

TABLE Cumulative-02  
 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/18/2018  
 ROADWAY SEGMENT: Old Redwood Highway - California State Route 116  
 to Saint Joseph Way  
 NOTES: - Cumulative

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 28500      SPEED (MPH): 30      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

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

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

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.20

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn -----	65 Ldn -----	60 Ldn -----	55 Ldn -----
0.0	76.1	157.3	335.8

TABLE Cumulative-03  
 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/18/2018  
 ROADWAY SEGMENT: Old Redwood Highway - Saint Joseph Way to  
 Parking Lot Driveway  
 NOTES: - Cumulative

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 28000      SPEED (MPH): 30      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

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

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

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.12

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn -----	65 Ldn -----	60 Ldn -----	55 Ldn -----
0.0	75.3	155.5	331.8

TABLE Cumulative-04  
 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/18/2018  
 ROADWAY SEGMENT: U.S. Route 101 - South of California State Route 116  
 NOTES: - Cumulative

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 103000      SPEED (MPH): 65      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

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

ACTIVE HALF-WIDTH (FT): 36      SITE CHARACTERISTICS: SOFT

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 78.35

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn -----	65 Ldn -----	60 Ldn -----	55 Ldn -----
283.5	606.9	1305.4	2811.0

TABLE Cumulative + Project-01  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/18/2018  
ROADWAY SEGMENT: California State Route 116 - U.S. Route 101 SB  
Off-Ramp to Old Redwood Highway  
NOTES: - Cumulative + Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 35100      SPEED (MPH): 25      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

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

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

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.89

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn -----	65 Ldn -----	60 Ldn -----	55 Ldn -----
0.0	69.4	138.0	291.7

TABLE Cumulative + Project-02  
 FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/18/2018  
 ROADWAY SEGMENT: Old Redwood Highway - California State Route 116  
 to Saint Joseph Way  
 NOTES: - Cumulative + Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 29400      SPEED (MPH): 30      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

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

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

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.34

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn -----	65 Ldn -----	60 Ldn -----	55 Ldn -----
0.0	77.5	160.5	342.8

TABLE Cumulative + Project-03  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/18/2018  
ROADWAY SEGMENT: Old Redwood Highway - Saint Joseph Way to  
Parking Lot Driveway  
NOTES: - Cumulative + Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 28600      SPEED (MPH): 30      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

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

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

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.22

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn -----	65 Ldn -----	60 Ldn -----	55 Ldn -----
0.0	76.2	157.7	336.5

TABLE Cumulative + Project-04  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 06/18/2018  
ROADWAY SEGMENT: U.S. Route 101 - South of California State Route 116  
NOTES: - Cumulative + Project

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 103000      SPEED (MPH): 65      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

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

ACTIVE HALF-WIDTH (FT): 36      SITE CHARACTERISTICS: SOFT

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 78.35

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn -----	65 Ldn -----	60 Ldn -----	55 Ldn -----
283.5	606.9	1305.4	2811.0