Appendix H
Noise

FHWA Traffic Noise Modeling

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                       FHWA Existing Roadway Noise
                   * * * * CASE INFORMATION * * * *

             * * * * Results calculated with TNM Version 2.5 * * * * *

        Existing Roadway Noise

            * * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

        Automobile volume (v/h):                         997.5
        Average automobile speed (mph):                  55.0
        Medium truck volume (v/h):                       26.3
        Average medium truck speed (mph):                55.0
        Heavy truck volume (v/h):                        26.3
        Average heavy truck speed (mph):                 55.0
        Bus volume (v/h):                                0.0
        Average bus speed (mph):                         0.0
        Motorcycle volume (v/h):                         0.0
        Average Motorcycle speed (mph):                  0.0


               * * * * TERRAIN SURFACE INFORMATION * * * *

        Terrain surface:                      soft


              * * * * RECEIVER INFORMATION * * * *

        DESCRIPTION OF RECEIVER #    1

        Project site

        Distance from center of 12-ft wide, single lane roadway (ft):     984.0
        A-weighted Hourly Equivalent Sound Level without Barrier (dBA):    43.6

        DESCRIPTION OF RECEIVER #    2

    Roadside

        Distance from center of 12-ft wide, single lane roadway (ft):     100.0
        A-weighted Hourly Equivalent Sound Level without Barrier (dBA):    63.8
```

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                  FHWA Existing Plus Project Noise Output 110619
                    * * * * CASE INFORMATION * * * *


           * * * * Results calculated with TNM Version 2.5 * * * *


Revised run with Increased peak hour volume

        * * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *


Automobile volume (v/h):                               1040.3
Average automobile speed (mph):                        55.0
Medium truck volume (v/h):                             27.4
Average medium truck speed (mph):                      55.0
Heavy truck volume (v/h):                              27.4
Average heavy truck speed (mph):                       55.0
Bus volume (v/h):                                      0.0
Average bus speed (mph):                               0.0
Motorcycle volume (v/h):                               0.0
Average Motorcycle speed (mph):                        0.0



            * * * * TERRAIN SURFACE INFORMATION * * * *


Terrain surface:                       soft



           * * * * RECEIVER INFORMATION * * * *


DESCRIPTION OF RECEIVER #   1

Project Stie

Distance from center of 12-ft wide, single lane roadway (ft):    984.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):  43.7

DESCRIPTION OF RECEIVER #   2

Roadside

Distance from center of 12-ft wide, single lane roadway (ft):    100.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):  64.0
```

```
                        FHWA Noise Output Cumulative
                   * * * * CASE INFORMATION * * * *

          * * * * Results calculated with TNM Version 2.5 * * * * *

       Cumulative Noise levels (existing plus project plus Tierra Vi Lodge

          * * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

       Automobile volume (v/h):                          1125.7
       Average automobile speed (mph):                   55.0
       Medium truck volume (v/h):                        29.6
       Average medium truck speed (mph):                 55.0
       Heavy truck volume (v/h):                         29.6
       Average heavy truck speed (mph):                  55.0
       Bus volume (v/h):                                 0.0
       Average bus speed (mph):                          0.0
       Motorcycle volume (v/h):                          0.0
       Average Motorcycle speed (mph):                   0.0


             * * * * TERRAIN SURFACE INFORMATION * * * *

       Terrain surface:                       soft


              * * * * RECEIVER INFORMATION * * * *

       DESCRIPTION OF RECEIVER #    1

       Project Stie

       Distance from center of 12-ft wide, single lane roadway (ft):    984.0
       A-weighted Hourly Equivalent Sound Level without Barrier (dBA):  44.1

       DESCRIPTION OF RECEIVER #    2

       Roadside

       Distance from center of 12-ft wide, single lane roadway (ft):    100.0
       A-weighted Hourly Equivalent Sound Level without Barrier (dBA):  64.3
```