

# Appendix E

## Noise Barrier Analysis

Table E-1: List of Noise Barrier Sections Shown by Nearest Cross Street

# DENVER RTD



## Noise Barrier Sections



**WB Total**  
**Length: 14,245**  
**EB Total**  
**Length: 13,287**  
**Total Length: 27,532**

No.	Approximate Streets	Track	Height [ft]	Length [ft]
1	Near Knox Ct	WB	6	325
2	Meade to Perry	WB	6	880
3	Perry to Quitman	WB	6	495
4	Sheridan to Benton	WB	6	780
5	Near Lamar	EB	6	525
6	Pierce to Lamar	EB	6	1250
7	Pierce to Newland	WB	6	530
8	Near Marshall	WB	6	350
9	Near Pierce	WB	6	325
10	Saulsbury to Reed	WB	6	385
11	Upham to Saulsbury	WB	6	610
12	Wadsworth to Upham	WB	6	840
13	Saulsbury to Pierce	EB	6	935
14	Wadsworth to Teller	EB	6	1175
15	Zephyr to Wadsworth	WB	6	800
16	Carr to Zephyr	WB	6	1500
17	Zephyr to Wadsworth	EB	6	595
18	Ammons to Zephyr	EB	6	485
19	Carr to Ammons	EB	6	925
20	Estes to Cody	WB	6	760
21	Garrison to Estes	WB	6	1270
22	Estes to Carr	EB	6	1260
23	Garrison to Estes	EB	6	1270
24	Holland to Garrison	WB	6	610
25	Near Holland	WB	6	160
26	Kipling to Pikeview	WB	6	550
27	Holland to Garrison	EB	6	610
28	Independence to Holland	EB	6	610
29	Pikeview to Independence	EB	6	610
30	Kipling to Pikeview	EB	6	475
31	Moore to Kipling	WB	6	1675
32	Nelson to Moore	WB	6	175
33	Near Nelson	WB	6	125
34	Near Oak	WB	6	100
33	Near Nelson	WB	6	125
34	Near Nelson	WB	6	125
35	Moore to Kipling	EB	6	1600
36	Near Nelson	EB	6	332
37	Oak to Nelson	EB	6	630
38	Near Ulysses (Mountainside Estates)	WB	2	1150

Table E-2: Comparison of L<sub>DN</sub> Levels for Impacted Receptors with those for 6 Foot Barriers

L<sub>DN</sub> from Transit Vehicle and Warning Gong/Bells



IMPACTS w/o Barrier:	218
IMPACTS with Barrier:	31



Receptor No.	L <sub>DN</sub> w/o Barrier	L <sub>DN</sub> w/ Barrier	Moderate Impact Level	Severe Impact Level
13	68	<b>61</b>	58	64
14	60	53	58	63
15	60	52	58	63
20	59	51	57	63
21	57	50	57	63
26	62	54	57	63
28	61	53	57	62
29	62	55	57	62
31	64	56	56	62
35	58	51	56	62
36	61	54	56	62
37	57	49	56	62
38	58	51	56	62
102	63	56	58	64
104	62	55	58	64
105	58	51	58	64
107	61	54	58	64
108	64	57	58	64
112	61	54	58	63
113	60	53	58	63
114	62	54	58	63
115	60	52	58	63
116	63	55	58	63
117	60	53	58	63
118	63	55	58	63
119	62	55	58	63
120	61	53	57	63
122	59	51	57	63
123	58	50	57	63
124	59	51	57	63
125	60	53	57	63
128	61	53	57	63
130	61	53	57	63
131	59	52	57	62

Note: L<sub>dn</sub> noise levels shown in bold (with the 6-foot high noise barrier) indicate receptors that are still impacted (moderate impact) after mitigation.

Receptor No.	L <sub>DN</sub> w/o Barrier	L <sub>DN</sub> w/ Barrier	Moderate Impact Level	Severe Impact Level
132	60	53	57	62
133	60	53	57	62
135	60	53	56	62
136	59	52	56	62
137	60	53	56	62
138	61	54	56	62
139	60	53	56	62
140	60	53	56	62
141	60	53	56	62
143	63	55	55	61
146	62	54	55	61
147	56	49	55	61
148	60	52	55	61
149	61	54	55	61
150	61	53	55	61
151	62	55	55	61
152	61	53	55	61
153	60	53	55	61
154	59	51	56	61
155	61	53	56	61
161	60	53	56	62
162	61	54	56	62
163	60	53	56	62
164	59	52	56	62
165	58	50	56	62
166	62	54	56	62
169	56	49	56	62
170	61	54	56	62
171	62	55	56	62
172	60	53	56	62
173	59	51	56	62
175	60	52	56	62
176	59	51	56	62
177	60	53	56	62
182	62	55	56	62
183	62	54	56	62
185	59	51	56	62
186	65	<b>58</b>	56	62
189	58	50	56	62
193	61	54	56	62
194	60	52	56	62
195	58	51	56	62
200	60	53	56	62
201	62	55	56	62

Receptor No.	L <sub>DN</sub> w/o Barrier	L <sub>DN</sub> w/ Barrier	Moderate Impact Level	Severe Impact Level
202	64	<b>56</b>	56	62
203	59	51	56	62
205	61	54	56	62
206	57	50	56	62
213	62	55	56	62
214	57	50	56	62
216	58	50	56	62
220	60	52	56	62
221	60	52	56	62
222	61	53	56	62
223	60	52	56	62
224	62	54	56	62
226	61	54	56	62
227	63	55	56	61
228	59	51	56	61
229	59	51	56	61
230	59	51	56	61
231	61	53	56	61
232	59	51	56	61
234	60	52	56	61
235	56	48	56	61
237	56	48	55	61
238	58	50	55	61
239	59	52	55	61
240	56	49	55	61
242	61	53	55	61
243	60	53	55	61
246	65	<b>58</b>	55	61
247	63	<b>56</b>	55	61
250	64	<b>56</b>	55	61
251	68	<b>60</b>	55	61
252	65	<b>58</b>	55	61
254	59	51	55	61
255	60	52	55	61
256	57	50	55	61
257	60	53	55	61
258	58	50	55	61
259	58	50	55	61
260	62	<b>55</b>	55	61
261	63	<b>55</b>	55	61
262	63	<b>55</b>	55	61

Receptor No.	L <sub>DN</sub> w/o Barrier	L <sub>DN</sub> w/ Barrier	Moderate Impact Level	Severe Impact Level
263	60	53	55	61
264	63	<b>56</b>	55	61
265	60	52	55	61
266	64	<b>57</b>	54	60
268	59	52	54	60
269	63	<b>55</b>	54	60
270	59	51	54	60
271	59	52	54	60
272	58	51	55	61
273	60	53	55	61
277	65	<b>57</b>	55	61
278	64	<b>57</b>	55	61
279	60	53	55	61
280	56	49	55	61
281	61	54	55	61
282	56	49	55	61
287	60	52	60	66
288	60	52	59	66
290	61	54	59	65
291	59	51	58	65
292	59	52	58	64
293	58	51	58	64
294	59	51	57	64
295	59	51	57	63
297	59	52	57	63
298	58	51	56	62
299	57	50	56	62
300	59	52	56	62
301	58	50	56	62
306	57	49	55	61
307	57	49	55	61
308	63	<b>56</b>	55	61
311	57	50	54	60
312	58	50	54	60
313	58	50	54	60
314	57	49	54	60
317	57	49	54	60
318	57	49	54	60
319	57	50	54	60
320	58	51	54	60

Receptor No.	L <sub>DN</sub> w/o Barrier	L <sub>DN</sub> w/ Barrier	Moderate Impact Level	Severe Impact Level
321	62	<b>55</b>	54	60
322	65	<b>57</b>	54	60
323	65	<b>57</b>	54	60
324	66	<b>59</b>	54	60
325	62	<b>55</b>	54	60
326	60	53	54	60
327	59	52	54	60
328	58	51	54	60
329	59	52	54	60
330	60	53	55	61
331	63	<b>56</b>	56	61
332	63	55	56	62
333	61	53	57	63
334	63	55	58	63
336	65	58	59	65
473	58	53	57	63
474	58	53	57	63
475	57	52	57	63
476	57	52	57	63
477	58	53	57	63
478	58	53	57	63
479	58	53	57	63
480	58	53	57	63
481	58	53	57	63
482	57	52	57	63
1002 (M2)	59	52	55	61
1003 (M3)	64	57	58	63
1004 (M4)	61	54	55	61
1005 (M5)	61	53	55	61
1006 (M6)	63	<b>56</b>	55	61
1007 (M7)	60	53	55	61
1008 (M8)	62	54	55	61
1009 (M9)	66	<b>58</b>	55	61
1010 (M10)	63	<b>55</b>	54	60
1012 (M12)	60	53	58	64
1014 (M14)	62	<b>55</b>	54	60
1018 (M18)	60	55	56	62
2001	58	51	57	63
2002	61	54	56	61
2003	60	52	56	61
2004	61	54	55	61
2005	66	<b>58</b>	56	62
2006	62	54	56	62
2007	62	54	56	62
2008	62	55	56	62
2009	62	55	56	62

Receptor No.	L <sub>DN</sub> w/o Barrier	L <sub>DN</sub> w/ Barrier	Moderate Impact Level	Severe Impact Level
2010	61	54	56	62
2011	65	<b>58</b>	55	61
2012	58	50	55	61
2013	58	50	55	61
2014	58	51	55	61
2015	60	52	55	61
2016	60	53	55	60
2017	59	51	58	64
2018	64	<b>56</b>	54	60
2021	61	54	55	61
2022	60	53	56	61
3001	64	<b>57</b>	56	62
3002	62	<b>54</b>	57	63