

**Table 4-13 Amended Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route H**

<b>Segment Combinations: Sub 3 – 5-14-54-17-28-29-40</b>			
<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
1	Single Family Residence	267	40
2	Single Family Residence	220	40
3	Single Family Residence	141	40
4	Single Family Residence	194	40
5	Single Family Residence	128	40
6	Single Family Residence	187	40
7	Single Family Residence	290	40
9	Single Family Residence	167	29
10	Single Family Residence	197	29
13	Single Family Residence	164	29
23	Single Family Residence	191	17
24	Single Family Residence	94	17
25	Single Family Residence	97	17
26	Single Family Residence	84	17
27	Single Family Residence	70	17
28	Single Family Residence	147	17
29	Single Family Residence	170	17
30	Single Family Residence	238	17
31	Single Family Residence	273	17
32	Single Family Residence	233	17
33	Single Family Residence	195	17
34	Single Family Residence	189	17
35	Single Family Residence	189	17
36	Single Family Residence	142	17
37	Single Family Residence	146	17
38	Single Family Residence	152	17
39	Single Family Residence	235	17
40	Single Family Residence	297	17
41	Single Family Residence	158	17
42	Single Family Residence	305	17
58	Single Family Residence	229	5
67	Single Family Residence	232	14
69	Single Family Residence	208	14
70	Single Family Residence	206	14
71	Single Family Residence	251	14
72	Single Family Residence	204	14
73	Single Family Residence	244	14
74	Single Family Residence	228	14
75	Single Family Residence	230	14

**Table 4-13 Amended Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route H**

<b>Segment Combinations: Sub 3 – 5-14-54-17-28-29-40</b>			
<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
76	Single Family Residence	260	14
77	Single Family Residence	267	14
78	Single Family Residence	169	14
79	Single Family Residence	215	54
80	Single Family Residence	202	54
81	Single Family Residence	82	54
82	Single Family Residence	251	54
83	Single Family Residence	207	54
84	Single Family Residence	214	54
85	Single Family Residence	158	54
86	Single Family Residence	162	54
87	Single Family Residence	300	54
88	Single Family Residence	122	54
89	Single Family Residence	134	54
90	Single Family Residence	284	54
91	Single Family Residence	223	54
92	Single Family Residence	264	54
93	Single Family Residence	200	54
94	Single Family Residence	224	54
95	Single Family Residence	279	54
178	Single Family Residence	213	54
186	Single Family Residence	288	40
301	Boerne Stage Field	7,210	29
--	Boerne Stage Maverick-Altgelt Ranch and Fenstermaker-Fromme Farm National Register Historic District	50	28

<sup>1</sup> Due to the potential horizontal inaccuracies of the aerial photography and data utilized, all habitable structures within 310' have been identified.

<sup>2</sup> Nearest Alternate Route Segment to sensitive cultural resource sites are not provided for protection of the sites.

**Table 4-14 Amended Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route I1**

**Segment Combinations: Sub 3 – 5-14-54-20-36-42a-46-46b**

<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
15	Single Family Residence	174	46
16	Single Family Residence	162	46b
58	Single Family Residence	229	5
67	Single Family Residence	232	14
69	Single Family Residence	208	14
70	Single Family Residence	206	14
71	Single Family Residence	251	14
72	Single Family Residence	204	14
73	Single Family Residence	244	14
74	Single Family Residence	228	14
75	Single Family Residence	230	14
76	Single Family Residence	260	14
77	Single Family Residence	267	14
78	Single Family Residence	169	14
79	Single Family Residence	215	54
80	Single Family Residence	202	54
81	Single Family Residence	82	54
82	Single Family Residence	251	54
83	Single Family Residence	207	54
84	Single Family Residence	214	54
85	Single Family Residence	158	54
86	Single Family Residence	162	54
87	Single Family Residence	300	54
88	Single Family Residence	122	54
89	Single Family Residence	134	54
90	Single Family Residence	284	54
91	Single Family Residence	223	54
92	Single Family Residence	264	54
93	Single Family Residence	200	54
94	Single Family Residence	224	54
95	Single Family Residence	279	54
96	Single Family Residence	280	20
97	Single Family Residence	195	20
98	Single Family Residence	241	20
99	Single Family Residence	241	20
100	Single Family Residence	244	20
101	Single Family Residence	265	20
102	Single Family Residence	266	20
103	Single Family Residence	263	20

**Table 4-14 Amended Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route I1**

**Segment Combinations: Sub 3 – 5-14-54-20-36-42a-46-46b**

<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
104	Single Family Residence	211	20
105	Single Family Residence	255	20
178	Single Family Residence	213	54
200	Commercial-Guard House	227	36
301	Boerne Stage Field	10,720	42a
501	CellTex Site Services, Ltd.	482	36
701	Heidemann Cemetery	593	36
901	Heidemann Ranch Historic District	98	36
--	41BX1923	329	--
--	41BX1924	86	--

<sup>1</sup> Due to the potential horizontal inaccuracies of the aerial photography and data utilized, all habitable structures within 310' have been identified.

<sup>2</sup> Nearest Alternate Route Segment to sensitive cultural resource sites are not provided for protection of the sites.

**Table 4-15 Amended Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route J1**

**Segment Combinations: Sub 3 – 5-14-54-20-36-42a-46a-49a**

<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
58	Single Family Residence	229	5
67	Single Family Residence	232	14
69	Single Family Residence	208	14
70	Single Family Residence	206	14
71	Single Family Residence	251	14
72	Single Family Residence	204	14
73	Single Family Residence	244	14
74	Single Family Residence	228	14
75	Single Family Residence	230	14
76	Single Family Residence	260	14
77	Single Family Residence	267	14
78	Single Family Residence	169	14
79	Single Family Residence	215	54
80	Single Family Residence	202	54
81	Single Family Residence	82	54
82	Single Family Residence	251	54
83	Single Family Residence	207	54
84	Single Family Residence	214	54
85	Single Family Residence	158	54
86	Single Family Residence	162	54
87	Single Family Residence	300	54
88	Single Family Residence	122	54
89	Single Family Residence	134	54
90	Single Family Residence	284	54
91	Single Family Residence	223	54
92	Single Family Residence	264	54
93	Single Family Residence	200	54
94	Single Family Residence	224	54
95	Single Family Residence	279	54
96	Single Family Residence	280	20
97	Single Family Residence	195	20
98	Single Family Residence	241	20
99	Single Family Residence	241	20
100	Single Family Residence	244	20
101	Single Family Residence	265	20
102	Single Family Residence	266	20
103	Single Family Residence	263	20
104	Single Family Residence	211	20
105	Single Family Residence	255	20

**Table 4-15 Amended Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route J1**

**Segment Combinations: Sub 3 – 5-14-54-20-36-42a-46a-49a**

<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
178	Single Family Residence	213	54
200	Commercial-Guard House	227	36
301	Boerne Stage Field	10,720	42a
501	CellTex Site Services, Ltd.	482	36
701	Heidemann Cemetery	593	36
901	Heidemann Ranch Historic District	98	36
--	41BX1923	329	--
--	41BX1924	86	--

<sup>1</sup> Due to the potential horizontal inaccuracies of the aerial photography and data utilized, all habitable structures within 310' have been identified

<sup>2</sup> Nearest Alternate Route Segment to sensitive cultural resource sites are not provided for protection of the sites.

**Table 4-16 Amended Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route K**

<b>Segment Combinations: Sub 3 – 5-14-54-21-25-37-38-43</b>			
<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
58	Single Family Residence	229	5
67	Single Family Residence	232	14
69	Single Family Residence	208	14
70	Single Family Residence	206	14
71	Single Family Residence	251	14
72	Single Family Residence	204	14
73	Single Family Residence	244	14
74	Single Family Residence	228	14
75	Single Family Residence	230	14
76	Single Family Residence	260	14
77	Single Family Residence	267	14
78	Single Family Residence	169	14
79	Single Family Residence	215	54
80	Single Family Residence	202	54
81	Single Family Residence	82	54
82	Single Family Residence	251	54
83	Single Family Residence	207	54
84	Single Family Residence	214	54
85	Single Family Residence	158	54
86	Single Family Residence	162	54
87	Single Family Residence	300	54
88	Single Family Residence	122	54
89	Single Family Residence	134	54
90	Single Family Residence	284	54
91	Single Family Residence	223	54
92	Single Family Residence	264	54
93	Single Family Residence	200	54
94	Single Family Residence	224	54
95	Single Family Residence	279	54
134	Single Family Residence	218	43
135	Single Family Residence	260	37
136	Single Family Residence	171	25
137	Single Family Residence	111	25
178	Single Family Residence	213	54
197	Single Family Residence	239	37
201	Single Family Residence	280	43
301	Boerne Stage Field	14,050	5
902	R.L. White Ranch Historic District	0	43

<sup>1</sup> Due to the potential horizontal inaccuracies of the aerial photography and data utilized, all habitable structures within 310' have been identified.

<sup>2</sup> Nearest Alternate Route Segment to sensitive cultural resource sites are not provided for protection of the sites

**Table 4-17 Amended Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route L**

**Segment Combinations: Sub 3 – 5-14-54-21-25-37-38-39-53-52-45**

<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
58	Single Family Residence	229	5
67	Single Family Residence	232	14
69	Single Family Residence	208	14
70	Single Family Residence	206	14
71	Single Family Residence	251	14
72	Single Family Residence	204	14
73	Single Family Residence	244	14
74	Single Family Residence	228	14
75	Single Family Residence	230	14
76	Single Family Residence	260	14
77	Single Family Residence	267	14
78	Single Family Residence	169	14
79	Single Family Residence	215	54
80	Single Family Residence	202	54
81	Single Family Residence	82	54
82	Single Family Residence	251	54
83	Single Family Residence	207	54
84	Single Family Residence	214	54
85	Single Family Residence	158	54
86	Single Family Residence	162	54
87	Single Family Residence	300	54
88	Single Family Residence	122	54
89	Single Family Residence	134	54
90	Single Family Residence	284	54
91	Single Family Residence	223	54
92	Single Family Residence	264	54
93	Single Family Residence	200	54
94	Single Family Residence	224	54
95	Single Family Residence	279	54
134	Single Family Residence	218	38
135	Single Family Residence	260	37
136	Single Family Residence	171	25
137	Single Family Residence	111	25
178	Single Family Residence	213	54
197	Single Family Residence	239	37
301	Boerne Stage Field	14,050	5
902	R.L. White Ranch Historic District	0	45

<sup>1</sup> Due to the potential horizontal inaccuracies of the aerial photography and data utilized, all habitable structures within 310' have been identified.

<sup>2</sup> Nearest Alternate Route Segment to sensitive cultural resource sites are not provided for protection of the sites.



**Table 4-18 Amended Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route M1**

**Segment Combinations: Sub 4 – 1-3-4-5-14-54-20-36-42a-46a-46b**

<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
16	Single Family Residence	162	46b
55	Commercial	304	4
58	Single Family Residence	229	5
67	Single Family Residence	232	14
69	Single Family Residence	208	14
70	Single Family Residence	206	14
71	Single Family Residence	251	14
72	Single Family Residence	204	14
73	Single Family Residence	244	14
74	Single Family Residence	228	14
75	Single Family Residence	230	14
76	Single Family Residence	260	14
77	Single Family Residence	267	14
78	Single Family Residence	169	14
79	Single Family Residence	215	54
80	Single Family Residence	202	54
81	Single Family Residence	82	54
82	Single Family Residence	251	54
83	Single Family Residence	207	54
84	Single Family Residence	214	54
85	Single Family Residence	158	54
86	Single Family Residence	162	54
87	Single Family Residence	300	54
88	Single Family Residence	122	54
89	Single Family Residence	134	54
90	Single Family Residence	284	54
91	Single Family Residence	223	54
92	Single Family Residence	264	54
93	Single Family Residence	200	54
94	Single Family Residence	224	54
95	Single Family Residence	279	54
96	Single Family Residence	280	20
97	Single Family Residence	195	20
98	Single Family Residence	241	20
99	Single Family Residence	241	20
100	Single Family Residence	244	20
101	Single Family Residence	265	20
102	Single Family Residence	266	20
103	Single Family Residence	263	20

**Table 4-18 Amended Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route M1**

**Segment Combinations: Sub 4 – 1-3-4-5-14-54-20-36-42a-46a-46b**

<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
104	Single Family Residence	211	20
105	Single Family Residence	255	20
178	Single Family Residence	213	54
200	Commercial-Guard House	227	36
301	Boerne Stage Field	10,720	42a
501	CellTex Site Services, Ltd.	482	36
701	Heidemann Cemetery	593	36
901	Heidemann Ranch Historic District	98	36
--	41BX1923	329	--
--	41BX1924	86	--

<sup>1</sup> Due to the potential horizontal inaccuracies of the aerial photography and data utilized, all habitable structures within 310' have been identified.

<sup>2</sup> Nearest Alternate Route Segment to sensitive cultural resource sites are not provided for protection of the sites.

**Table 4-19 Amended Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route N1**

<b>Segment Combinations: Sub 5 – 8-50-15-26a-38-43</b>			
<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
134	Single Family Residence	218	43
139	Single Family Residence	283	8
140	Single Family Residence	171	8
141	Single Family Residence	193	8
142	Single Family Residence	304	8
143	Single Family Residence	222	15
146	Single Family Residence	155	15
147	Single Family Residence	208	15
198	Single Family Residence	69	26a
199	Single Family Residence	291	26a
201	Single Family Residence	280	43
301	Boerne Stage Field	16,789	8
702	Huntress Lane Cemetery	128	15
902	R.L. White Ranch Historic District	0	43
--	41BX75	0	--
--	41BX76	163	--
--	41BX77	172	--
--	41BX78	50	--
--	41BX80	627	--
--	41BX81	414	--
--	41BX82	340	--
--	41BX83	226	--
--	41BX84	836	--
--	41BX85	798	--
--	41BX86	106	--
--	41BX87	259	--
--	41BX88	444	--
--	41BX89	675	--

<sup>1</sup> Due to the potential horizontal inaccuracies of the aerial photography and data utilized, all habitable structures within 310' have been identified.

<sup>2</sup> Nearest Alternate Route Segment to sensitive cultural resource sites are not provided for protection of the sites.

**Table 4-20 Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route O**

**Segment Combinations: Sub 5 – 8-50-16-56-57-27-47-53-44**

<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
139	Single Family Residence	283	8
140	Single Family Residence	171	8
141	Single Family Residence	193	8
142	Single Family Residence	304	8
151	Single Family Residence	299	16
152	Single Family Residence	172	16
153	Single Family Residence	270	16
154	Single Family Residence	257	16
155	Single Family Residence	162	16
156	Single Family Residence	174	16
173	Single Family Residence	217	57
174	Single Family Residence	122	57
175	Single Family Residence	94	57
176	Single Family Residence	272	57
177	Single Family Residence	78	57
181	Single Family Residence	191	57
182	Single Family Residence	192	57
184	Single Family Residence	153	57
185	Single Family Residence	307	57
187	Single Family Residence	151	56
188	Single Family Residence	197	56
189	Single Family Residence	251	56
190	Single Family Residence	227	56
191	Single Family Residence	183	56
192	Single Family Residence	287	56
193	Single Family Residence	208	56
194	Single Family Residence	70	56
195	Single Family Residence	157	56
196	Single Family Residence	278	56
301	Boerne Stage Field	16,789	8
502	Global Tower, LLC	521	16
902	R.L. White Ranch Historic District	0	44
--	41BX2177	44	--
--	41BX2178	72	--

<sup>1</sup> Due to the potential horizontal inaccuracies of the aerial photography and data utilized, all habitable structures within 310' have been identified.

<sup>2</sup> Nearest Alternate Route Segment to sensitive cultural resource sites are not provided for protection of the sites.

**Table 4-21 Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route P**

**Segment Combinations: Sub 6 – 50-15-22-25-37-38-43**

<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
134	Single Family Residence	218	43
135	Single Family Residence	260	37
136	Single Family Residence	171	25
137	Single Family Residence	111	25
143	Single Family Residence	222	15
146	Single Family Residence	155	15
147	Single Family Residence	208	15
148	Single Family Residence	198	22
149	Single Family Residence	141	22
150	Single Family Residence	89	22
197	Single Family Residence	239	37
201	Single Family Residence	280	43
301	Boerne Stage Field	16,614	25
702	Huntress Lane Cemetery	128	15
902	R.L. White Ranch Historic District	0	43
--	41BX75	352	--
--	41BX76	582	--
--	41BX81	323	--
--	41BX82	241	--
--	41BX83	115	--
--	41BX84	955	--
--	41BX85	896	--
--	41BX86	12	--
--	41BX87	259	--
--	41BX88	444	--
--	41BX89	675	--

<sup>1</sup> Due to the potential horizontal inaccuracies of the aerial photography and data utilized, all habitable structures within 310' have been identified.

<sup>2</sup> Nearest Alternate Route Segment to sensitive cultural resource sites are not provided for protection of the sites.

**Table 4-22 Amended Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route Q1**

<b>Segment Combinations: Sub 6 – 50-15-26a-38-39-44</b>			
<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
134	Single Family Residence	218	38
143	Single Family Residence	222	15
146	Single Family Residence	155	15
147	Single Family Residence	208	15
198	Single Family Residence	69	26a
199	Single Family Residence	291	26a
301	Boerne Stage Field	17,996	26a
702	Huntress Lane Cemetery	128	15
902	R.L. White Ranch Historic District	0	44
--	41BX75	0	--
--	41BX76	163	--
--	41BX77	172	--
--	41BX78	50	--
--	41BX80	627	--
--	41BX81	414	--
--	41BX82	340	--
--	41BX83	226	--
--	41BX84	836	--
--	41BX85	798	--
--	41BX86	106	--
--	41BX87	259	--
--	41BX88	444	--
--	41BX89	675	--

<sup>1</sup> Due to the potential horizontal inaccuracies of the aerial photography and data utilized, all habitable structures within 310' have been identified.

<sup>2</sup> Nearest Alternate Route Segment to sensitive cultural resource sites are not provided for protection of the sites.

**Table 4-23 Amended Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route R1**

<b>Segment Combinations: Sub 6 – 50-15-26a-38-43</b>			
<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
134	Single Family Residence	218	43
143	Single Family Residence	222	15
146	Single Family Residence	155	15
147	Single Family Residence	208	15
198	Single Family Residence	69	26a
199	Single Family Residence	291	26a
201	Single Family Residence	280	43
301	Boerne Stage Field	17,996	26a
702	Huntress Lane Cemetery	128	15
902	R.L. White Ranch Historic District	0	43
--	41BX75	0	--
--	41BX76	163	--
--	41BX77	172	--
--	41BX78	50	--
--	41BX80	627	--
--	41BX81	414	--
--	41BX82	340	--
--	41BX83	226	--
--	41BX84	836	--
--	41BX85	798	--
--	41BX86	106	--
--	41BX87	259	--
--	41BX88	444	--
--	41BX89	675	--

<sup>1</sup> Due to the potential horizontal inaccuracies of the aerial photography and data utilized, all habitable structures within 310' have been identified.

<sup>2</sup> Nearest Alternate Route Segment to sensitive cultural resource sites are not provided for protection of the sites.

**Table 4-24 Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route S**

**Segment Combinations: Sub 6 – 50-16-56-57-27-51-45**

<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
151	Single Family Residence	299	16
152	Single Family Residence	172	16
153	Single Family Residence	270	16
154	Single Family Residence	257	16
155	Single Family Residence	162	16
156	Single Family Residence	174	16
173	Single Family Residence	217	57
174	Single Family Residence	122	57
175	Single Family Residence	94	57
176	Single Family Residence	272	57
177	Single Family Residence	78	57
181	Single Family Residence	191	57
182	Single Family Residence	192	57
184	Single Family Residence	153	57
185	Single Family Residence	307	57
187	Single Family Residence	151	56
188	Single Family Residence	197	56
189	Single Family Residence	251	56
190	Single Family Residence	227	56
191	Single Family Residence	183	56
192	Single Family Residence	287	56
193	Single Family Residence	208	56
194	Single Family Residence	70	56
195	Single Family Residence	157	56
196	Single Family Residence	278	56
301	Boerne Stage Field	18,537	50
502	Global Tower, LLC	521	16
902	R.L. White Ranch Historic District	0	45
--	41BX2177	44	--
--	41BX2178	72	--

<sup>1</sup> Due to the potential horizontal inaccuracies of the aerial photography and data utilized, all habitable structures within 310' have been identified.

<sup>2</sup> Nearest Alternate Route Segment to sensitive cultural resource sites are not provided for protection of the sites.



**Table 4-25 Amended Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route T1**

<b>Segment Combinations: Sub 6 – 50-15-22-25-32-36-42a-46a-46b</b>			
<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
16	Single Family Residence	162	46b
104	Single Family Residence	211	20
105	Single Family Residence	134	32
106	Single Family Residence	100	32
107	Single Family Residence	125	32
108	Single Family Residence	140	32
109	Single Family Residence	198	32
110	Single Family Residence	169	32
111	Single Family Residence	176	32
112	Single Family Residence	194	32
113	Single Family Residence	120	32
114	Single Family Residence	110	32
115	Single Family Residence	296	32
116	Single Family Residence	298	32
117	Single Family Residence	225	32
118	Single Family Residence	185	32
119	Single Family Residence	194	32
120	Single Family Residence	186	32
121	Single Family Residence	184	32
122	Single Family Residence	201	32
123	Single Family Residence	208	32
124	Single Family Residence	199	32
125	Single Family Residence	195	32
126	Single Family Residence	212	32
127	Single Family Residence	240	32
136	Single Family Residence	171	25
137	Single Family Residence	111	25
143	Single Family Residence	222	15
146	Single Family Residence	155	15
147	Single Family Residence	208	15
148	Single Family Residence	198	22
149	Single Family Residence	141	22
150	Single Family Residence	89	22
200	Commercial-Guard House	227	36
301	Boerne Stage Field	10,720	42a
501	CellTex Site Services, Ltd.	279	32
701	Heidemann Cemetery	593	36
702	Huntress Lane Cemetery	128	15
901	Heidemann Ranch Historic District	98	36

**Table 4-25 Amended Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route T1**

**Segment Combinations: Sub 6 – 50-15-22-25-32-36-42a-46a-46b**

<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
--	41BX1923	329	--
--	41BX1924	86	--
--	41BX75	352	--
--	41BX76	582	--
--	41BX81	323	--
--	41BX82	241	--
--	41BX83	115	--
--	41BX84	955	--
--	41BX85	896	--
--	41BX86	12	--
--	41BX87	259	--
--	41BX88	444	--
--	41BX89	675	--

<sup>1</sup> Due to the potential horizontal inaccuracies of the aerial photography and data utilized, all habitable structures within 310' have been identified.

<sup>2</sup> Nearest Alternate Route Segment to sensitive cultural resource sites are not provided for protection of the sites

**Table 4-26 Amended Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route U1**

<b>Segment Combinations: Sub 6 – 50-15-26a-38-39-53-52-45</b>			
<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
134	Single Family Residence	218	38
143	Single Family Residence	222	15
146	Single Family Residence	155	15
147	Single Family Residence	208	15
198	Single Family Residence	69	26a
199	Single Family Residence	291	26a
301	Boerne Stage Field	17,996	26a
702	Huntress Lane Cemetery	128	15
902	R.L. White Ranch Historic District	0	45
--	41BX75	0	--
--	41BX76	163	--
--	41BX77	172	--
--	41BX78	50	--
--	41BX80	627	--
--	41BX81	414	--
--	41BX82	340	--
--	41BX83	226	--
--	41BX84	836	--
--	41BX85	798	--
--	41BX86	106	--
--	41BX87	259	--
--	41BX88	444	--
--	41BX89	675	--

<sup>1</sup> Due to the potential horizontal inaccuracies of the aerial photography and data utilized, all habitable structures within 310' have been identified.

<sup>2</sup> Nearest Alternate Route Segment to sensitive cultural resource sites are not provided for protection of the sites.

**Table 4-27 Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route V**

**Segment Combinations: Sub 6 – 50-16-55-57-27-47-53-44**

<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
151	Single Family Residence	299	16
152	Single Family Residence	172	16
153	Single Family Residence	270	16
154	Single Family Residence	257	16
155	Single Family Residence	162	16
156	Single Family Residence	174	16
157	Single Family Residence	146	55
158	Single Family Residence	141	55
159	Single Family Residence	174	55
160	Single Family Residence	184	55
161	Single Family Residence	115	55
162	Single Family Residence	97	55
163	Single Family Residence	300	55
166	Single Family Residence	55	55
167	Single Family Residence	270	55
168	Single Family Residence	169	55
169	Single Family Residence	58	55
170	Single Family Residence	103	55
171	Single Family Residence	190	55
172	Single Family Residence	158	55
173	Single Family Residence	217	57
174	Single Family Residence	122	57
175	Single Family Residence	94	57
176	Single Family Residence	272	57
177	Single Family Residence	78	57
179	Single Family Residence	272	55
181	Single Family Residence	191	57
182	Single Family Residence	192	57
183	Single Family Residence	91	55
184	Single Family Residence	153	57
185	Single Family Residence	307	57
301	Boerne Stage Field	18,537	50
502	Global Tower, LLC	521	16
902	R.L. White Ranch Historic District	0	44
--	41BX2176	0	--

<sup>1</sup> Due to the potential horizontal inaccuracies of the aerial photography and data utilized, all habitable structures within 310' have been identified

<sup>2</sup> Nearest Alternate Route Segment to sensitive cultural resource sites are not provided for protection of the sites.

**Table 4-28 Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route W**

**Segment Combinations: Sub 6 – 50-16-56-57-27-47-53-44**

<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
151	Single Family Residence	299	16
152	Single Family Residence	172	16
153	Single Family Residence	270	16
154	Single Family Residence	257	16
155	Single Family Residence	162	16
156	Single Family Residence	174	16
173	Single Family Residence	217	57
174	Single Family Residence	122	57
175	Single Family Residence	94	57
176	Single Family Residence	272	57
177	Single Family Residence	78	57
181	Single Family Residence	191	57
182	Single Family Residence	192	57
184	Single Family Residence	153	57
185	Single Family Residence	307	57
187	Single Family Residence	151	56
188	Single Family Residence	197	56
189	Single Family Residence	251	56
190	Single Family Residence	227	56
191	Single Family Residence	183	56
192	Single Family Residence	287	56
193	Single Family Residence	208	56
194	Single Family Residence	70	56
195	Single Family Residence	157	56
196	Single Family Residence	278	56
301	Boerne Stage Field	18,537	50
502	Global Tower, LLC	521	16
902	R.L. White Ranch Historic District	0	--
--	41BX2177	44	--
--	41BX2178	72	--

<sup>1</sup> Due to the potential horizontal inaccuracies of the aerial photography and data utilized, all habitable structures within 310' have been identified.

<sup>2</sup> Nearest Alternate Route Segment to sensitive cultural resource sites are not provided for protection of the sites

**Table 4-29 Amended Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route X1**

**Segment Combinations: Sub 7 – 54-17-28-30-34-41-46a-46b**

<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
14	Single Family Residence	238	30
16	Single Family Residence	162	46b
23	Single Family Residence	191	17
24	Single Family Residence	94	17
25	Single Family Residence	97	17
26	Single Family Residence	84	17
27	Single Family Residence	70	17
28	Single Family Residence	147	17
29	Single Family Residence	170	17
30	Single Family Residence	238	17
31	Single Family Residence	273	17
32	Single Family Residence	233	17
33	Single Family Residence	195	17
34	Single Family Residence	189	17
35	Single Family Residence	189	17
36	Single Family Residence	142	17
37	Single Family Residence	146	17
38	Single Family Residence	152	17
39	Single Family Residence	235	17
40	Single Family Residence	297	17
41	Single Family Residence	158	17
42	Single Family Residence	305	17
79	Single Family Residence	215	54
80	Single Family Residence	202	54
81	Single Family Residence	82	54
82	Single Family Residence	251	54
83	Single Family Residence	207	54
84	Single Family Residence	214	54
85	Single Family Residence	158	54
86	Single Family Residence	162	54
87	Single Family Residence	300	54
88	Single Family Residence	122	54
89	Single Family Residence	134	54
90	Single Family Residence	284	54
91	Single Family Residence	223	54
92	Single Family Residence	264	54
93	Single Family Residence	200	54
94	Single Family Residence	224	54
95	Single Family Residence	279	54

**Table 4-29 Amended Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route X1**

<b>Segment Combinations: Sub 7 – 54-17-28-30-34-41-46a-46b</b>			
<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
178	Single Family Residence	213	54
301	Boerne Stage Field	8,425	28
--	Boerne Stage Maverick-Altgelt Ranch and Fenstermaker-Fromme Farm National Register Historic District	50	28
--	41BX1923	814	--
--	41BX1924	150	--

<sup>1</sup> Due to the potential horizontal inaccuracies of the aerial photography and data utilized, all habitable structures within 310' have been identified.

<sup>2</sup> Nearest Alternate Route Segment to sensitive cultural resource sites are not provided for protection of the sites.

**Table 4-30 Amended Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route Y**

**Segment Combinations: Sub 7 – 54-20-36-35-34-33-40**

<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
1	Single Family Residence	267	40
2	Single Family Residence	220	40
3	Single Family Residence	141	40
4	Single Family Residence	194	40
5	Single Family Residence	128	40
6	Single Family Residence	187	40
7	Single Family Residence	290	40
17	School	214	35
18	Single Family Residence	162	35
79	Single Family Residence	215	54
80	Single Family Residence	202	54
81	Single Family Residence	82	54
82	Single Family Residence	251	54
83	Single Family Residence	207	54
84	Single Family Residence	214	54
85	Single Family Residence	158	54
86	Single Family Residence	162	54
87	Single Family Residence	300	54
88	Single Family Residence	122	54
89	Single Family Residence	134	54
90	Single Family Residence	284	54
91	Single Family Residence	223	54
92	Single Family Residence	264	54
93	Single Family Residence	200	54
94	Single Family Residence	224	54
95	Single Family Residence	279	54
96	Single Family Residence	280	20
97	Single Family Residence	195	20
98	Single Family Residence	241	20
99	Single Family Residence	241	20
100	Single Family Residence	244	20
101	Single Family Residence	265	20
102	Single Family Residence	266	20
103	Single Family Residence	263	20
104	Single Family Residence	211	20
105	Single Family Residence	255	20
178	Single Family Residence	213	54
186	Single Family Residence	288	40
200	Commercial-Guard House	227	36



**Table 4-30 Amended Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route Y**

**Segment Combinations: Sub 7 – 54-20-36-35-34-33-40**

<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
301	Boerne Stage Field	7,677	40
501	CellTex Site Services, Ltd.	482	36
701	Heidemann Cemetery	593	36
901	Heidemann Ranch Historic District	98	36
--	Boerne Stage Maverick-Altgelt Ranch and Fenstermaker-Fromme Farm National Register Historic District	142	40
--	41BX1923	266	--
--	41BX1924	817	--

<sup>1</sup> Due to the potential horizontal inaccuracies of the aerial photography and data utilized, all habitable structures within 310' have been identified.

<sup>2</sup> Nearest Alternate Route Segment to sensitive cultural resource sites are not provided for protection of the sites.

**Table 4-31 Amended Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route Z1**

<b>Segment Combinations: Sub 7 – 54-20-36-42a-46a-46b</b>			
<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
16	Single Family Residence	162	46b
79	Single Family Residence	215	54
80	Single Family Residence	202	54
81	Single Family Residence	82	54
82	Single Family Residence	251	54
83	Single Family Residence	207	54
84	Single Family Residence	214	54
85	Single Family Residence	158	54
86	Single Family Residence	162	54
87	Single Family Residence	300	54
88	Single Family Residence	122	54
89	Single Family Residence	134	54
90	Single Family Residence	284	54
91	Single Family Residence	223	54
92	Single Family Residence	264	54
93	Single Family Residence	200	54
94	Single Family Residence	224	54
95	Single Family Residence	279	54
96	Single Family Residence	280	20
97	Single Family Residence	195	20
98	Single Family Residence	241	20
99	Single Family Residence	241	20
100	Single Family Residence	244	20
101	Single Family Residence	265	20
102	Single Family Residence	266	20
103	Single Family Residence	263	20
104	Single Family Residence	211	20
105	Single Family Residence	255	20
178	Single Family Residence	213	54
200	Commercial-Guard House	227	36
301	Boerne Stage Field	10,720	42a
501	CellTex Site Services, Ltd.	482	36
701	Heidemann Cemetery	593	36
901	Heidemann Ranch Historic District	98	36
--	41BX1923	329	--
--	41BX1924	86	--

<sup>1</sup> Due to the potential horizontal inaccuracies of the aerial photography and data utilized, all habitable structures within 310' have been identified.

<sup>2</sup> Nearest Alternate Route Segment to sensitive cultural resource sites are not provided for protection of the sites.

**Table 4-32 Amended Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route AA1**

<b>Segment Combinations: Sub 7 -- 54-20-36-42a-46-49a</b>			
<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
15	Single Family Residence	174	46
79	Single Family Residence	215	54
80	Single Family Residence	202	54
81	Single Family Residence	82	54
82	Single Family Residence	251	54
83	Single Family Residence	207	54
84	Single Family Residence	214	54
85	Single Family Residence	158	54
86	Single Family Residence	162	54
87	Single Family Residence	300	54
88	Single Family Residence	122	54
89	Single Family Residence	134	54
90	Single Family Residence	284	54
91	Single Family Residence	223	54
92	Single Family Residence	264	54
93	Single Family Residence	200	54
94	Single Family Residence	224	54
95	Single Family Residence	279	54
96	Single Family Residence	280	20
97	Single Family Residence	195	20
98	Single Family Residence	241	20
99	Single Family Residence	241	20
100	Single Family Residence	244	20
101	Single Family Residence	265	20
102	Single Family Residence	266	20
103	Single Family Residence	263	20
104	Single Family Residence	211	20
105	Single Family Residence	255	20
178	Single Family Residence	213	54
200	Commercial-Guard House	227	36
301	Boerne Stage Field	10,720	42a
501	CellTex Site Services, Ltd.	482	36
701	Heidemann Cemetery	593	36
901	Heidemann Ranch Historic District	98	36
--	41BX1923	329	--
--	41BX1924	86	--

<sup>1</sup> Due to the potential horizontal inaccuracies of the aerial photography and data utilized, all habitable structures within 310' have been identified.

<sup>2</sup> Nearest Alternate Route Segment to sensitive cultural resource sites are not provided for protection of the sites.

**Table 4-33 Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route BB**

<b>Segment Combinations: Sub 7 – 54-21-25-37-38-43</b>			
<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
79	Single Family Residence	215	54
80	Single Family Residence	202	54
81	Single Family Residence	82	54
82	Single Family Residence	251	54
83	Single Family Residence	207	54
84	Single Family Residence	214	54
85	Single Family Residence	158	54
86	Single Family Residence	162	54
87	Single Family Residence	300	54
88	Single Family Residence	122	54
89	Single Family Residence	134	54
90	Single Family Residence	284	54
91	Single Family Residence	223	54
92	Single Family Residence	264	54
93	Single Family Residence	200	54
94	Single Family Residence	224	54
95	Single Family Residence	279	54
134	Single Family Residence	218	43
135	Single Family Residence	260	37
136	Single Family Residence	171	25
137	Single Family Residence	111	25
178	Single Family Residence	213	54
197	Single Family Residence	239	37
201	Single Family Residence	280	43
301	Boerne Stage Field	14,201	54
902	R.L. White Ranch Historic District	0	43

<sup>1</sup> Due to the potential horizontal inaccuracies of the aerial photography and data utilized, all habitable structures within 310' have been identified.

<sup>2</sup> Nearest Alternate Route Segment to sensitive cultural resource sites are not provided for protection of the sites.

**Table 4-34 Amended Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route CC**

<b>Segment Combinations: Sub 7 – 54-20-32-37-38-43</b>			
<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
79	Single Family Residence	215	54
80	Single Family Residence	202	54
81	Single Family Residence	82	54
82	Single Family Residence	251	54
83	Single Family Residence	207	54
84	Single Family Residence	214	54
85	Single Family Residence	158	54
86	Single Family Residence	162	54
87	Single Family Residence	300	54
88	Single Family Residence	122	54
89	Single Family Residence	134	54
90	Single Family Residence	284	54
91	Single Family Residence	223	54
92	Single Family Residence	264	54
93	Single Family Residence	200	54
94	Single Family Residence	224	54
95	Single Family Residence	279	54
96	Single Family Residence	280	20
97	Single Family Residence	195	20
98	Single Family Residence	241	20
99	Single Family Residence	241	20
100	Single Family Residence	244	20
101	Single Family Residence	265	20
102	Single Family Residence	266	20
103	Single Family Residence	263	20
104	Single Family Residence	211	20
105	Single Family Residence	134	32
106	Single Family Residence	100	32
107	Single Family Residence	125	32
108	Single Family Residence	140	32
109	Single Family Residence	198	32
110	Single Family Residence	169	32
111	Single Family Residence	176	32
112	Single Family Residence	194	32
113	Single Family Residence	120	32
114	Single Family Residence	110	32
115	Single Family Residence	296	32
116	Single Family Residence	298	32
117	Single Family Residence	225	32

**Table 4-34 Amended Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route CC**

<b>Segment Combinations: Sub 7 – 54-20-32-37-38-43</b>			
<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
118	Single Family Residence	185	32
119	Single Family Residence	194	32
120	Single Family Residence	186	32
121	Single Family Residence	184	32
122	Single Family Residence	201	32
123	Single Family Residence	208	32
124	Single Family Residence	199	32
125	Single Family Residence	195	32
126	Single Family Residence	212	32
127	Single Family Residence	240	32
134	Single Family Residence	218	43
135	Single Family Residence	260	37
178	Single Family Residence	213	54
197	Single Family Residence	239	37
201	Single Family Residence	280	43
301	Boerne Stage Field	12,252	20
501	CellTex Site Services, Ltd.	279	32
902	R.L. White Ranch Historic District	0	43

<sup>1</sup> Due to the potential horizontal inaccuracies of the aerial photography and data utilized, all habitable structures within 310' have been identified.

<sup>2</sup> Nearest Alternate Route Segment to sensitive cultural resource sites are not provided for protection of the sites.

**Table 4-35 Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route DD**

**Segment Combinations: Sub 7 – 54-20-36-35-34-41-46a-46b**

<b>Map Number</b>	<b>Structure or Feature</b>	<b>Approximate Distance from Route Centerline<sup>1</sup> (feet)</b>	<b>Nearest Alternative Route Segment<sup>2</sup></b>
16	Single Family Residence	162	46b
17	School	214	35
18	Single Family Residence	162	35
79	Single Family Residence	215	54
80	Single Family Residence	202	54
81	Single Family Residence	82	54
82	Single Family Residence	251	54
83	Single Family Residence	207	54
84	Single Family Residence	214	54
85	Single Family Residence	158	54
86	Single Family Residence	162	54
87	Single Family Residence	300	54
88	Single Family Residence	122	54
89	Single Family Residence	134	54
90	Single Family Residence	284	54
91	Single Family Residence	223	54
92	Single Family Residence	264	54
93	Single Family Residence	200	54
94	Single Family Residence	224	54
95	Single Family Residence	279	54
96	Single Family Residence	280	20
97	Single Family Residence	195	20
98	Single Family Residence	241	20
99	Single Family Residence	241	20
100	Single Family Residence	244	20
101	Single Family Residence	265	20
102	Single Family Residence	266	20
103	Single Family Residence	263	20
104	Single Family Residence	211	20
105	Single Family Residence	255	20
178	Single Family Residence	213	54
200	Commercial-Guard House	227	36
301	Boerne Stage Field	9,429	35
501	CellTex Site Services, Ltd.	482	36
701	Heidemann Cemetery	593	36
901	Heidemann Ranch Historic District	98	36
--	41BX1923	266	--
--	41BX1924	150	--

<sup>1</sup> Due to the potential horizontal inaccuracies of the aerial photography and data utilized, all habitable structures within 310' have been identified.

<sup>2</sup> Nearest Alternate Route Segment to sensitive cultural resource sites are not provided for protection of the sites.

**Table 4-36 Habitable Structures and Other Land Use Features in the Vicinity of the Primary Alternative Route EE**

**Segment Combinations: Sub 7 -- 54-20-36-35-34-41-46a-49a**

Map Number	Structure or Feature	Approximate Distance from Route Centerline <sup>1</sup> (feet)	Nearest Alternative Route Segment <sup>2</sup>
17	School	214	35
18	Single Family Residence	162	35
79	Single Family Residence	215	54
80	Single Family Residence	202	54
81	Single Family Residence	82	54
82	Single Family Residence	251	54
83	Single Family Residence	207	54
84	Single Family Residence	214	54
85	Single Family Residence	158	54
86	Single Family Residence	162	54
87	Single Family Residence	300	54
88	Single Family Residence	122	54
89	Single Family Residence	134	54
90	Single Family Residence	284	54
91	Single Family Residence	223	54
92	Single Family Residence	264	54
93	Single Family Residence	200	54
94	Single Family Residence	224	54
95	Single Family Residence	279	54
96	Single Family Residence	280	20
97	Single Family Residence	195	20
98	Single Family Residence	241	20
99	Single Family Residence	241	20
100	Single Family Residence	244	20
101	Single Family Residence	265	20
102	Single Family Residence	266	20
103	Single Family Residence	263	20
104	Single Family Residence	211	20
105	Single Family Residence	255	20
178	Single Family Residence	213	54
200	Commercial-Guard House	227	36
301	Boerne Stage Field	9,429	35
501	CellTex Site Services, Ltd.	482	36
701	Heidemann Cemetery	593	36
901	Heidemann Ranch Historic District	98	36
--	41BX1923	266	--
--	41BX1924	150	--

<sup>1</sup> Due to the potential horizontal inaccuracies of the aerial photography and data utilized, all habitable structures within 310' have been identified.

<sup>2</sup> Nearest Alternate Route Segment to sensitive cultural resource sites are not provided for protection of the sites.



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# Attachment 3

CPS Energy CCN Application Amendment  
(revised 12/23/2020)  
Estimated Costs for Transmission Line and Substation Facilities

Table 1: Transmission and Substation Facilities Total Estimated Costs

Route	Total Length (miles)	Sub Site	**Estimated Total Cost	ROW & Land Acquisition	Engineering & Design (Utility)	Engineering & Design (Contract)	Procurement of Material & Equipment	Construction of Facilities (Utility)	Construction of Facilities (Contract)	Other
A	6.66	1	\$54,695,384	\$7,783,840	\$702,240	\$2,088,350	\$15,331,639	\$3,250,060	\$13,199,493	\$11,217,966
B1	6.19	1	\$50,551,923	\$5,902,834	\$681,560	\$1,972,025	\$15,189,033	\$3,198,360	\$12,822,362	\$9,805,226
C1	5.77	1	\$47,373,301	\$6,793,477	\$663,080	\$1,868,075	\$13,867,819	\$3,152,160	\$11,925,364	\$8,275,750
D1	5.22	2	\$43,904,818	\$6,237,577	\$638,880	\$1,731,950	\$12,876,554	\$3,091,660	\$10,966,953	\$7,601,131
E	6.62	2	\$54,505,460	\$8,616,608	\$700,480	\$2,078,450	\$15,019,244	\$3,245,660	\$13,010,552	\$10,758,605
F1	5.66	2	\$49,658,757	\$6,417,969	\$658,240	\$1,840,850	\$14,386,259	\$3,140,060	\$12,250,563	\$9,968,015
G1	6.2	3	\$51,216,234	\$6,139,834	\$682,000	\$1,974,500	\$15,108,260	\$3,199,460	\$12,877,623	\$10,213,234
H	6.32	3	\$53,621,915	\$8,587,636	\$687,280	\$2,004,200	\$14,722,420	\$3,212,660	\$12,683,021	\$10,658,816
I1	5.03	3	\$42,877,497	\$6,601,539	\$630,520	\$1,684,925	\$12,368,953	\$3,070,760	\$10,527,670	\$7,266,482
J1	5.46	3	\$44,068,606	\$5,618,447	\$649,440	\$1,791,350	\$12,949,237	\$3,118,060	\$11,113,035	\$8,026,397
K	5.29	3	\$46,467,251	\$5,869,179	\$641,960	\$1,749,275	\$13,328,636	\$3,099,360	\$11,364,549	\$9,467,538
L	6.91	3	\$54,086,149	\$7,227,514	\$713,240	\$2,150,225	\$14,738,090	\$3,277,560	\$12,845,846	\$11,939,704
M1	5.85	4	\$46,044,320	\$6,318,803	\$666,600	\$1,887,875	\$13,430,851	\$3,160,960	\$11,567,273	\$8,192,689
N1	5.33	5	\$46,803,781	\$4,908,233	\$643,720	\$1,759,175	\$13,997,195	\$3,103,760	\$11,849,811	\$9,583,534
O	6.83	5	\$56,194,703	\$4,797,587	\$709,720	\$2,130,425	\$17,383,068	\$3,268,760	\$14,650,892	\$12,049,319
P	4.89	6	\$43,408,742	\$3,992,817	\$624,360	\$1,650,275	\$12,975,245	\$3,055,360	\$10,990,484	\$9,200,182
Q1	5.56	6	\$45,890,914	\$4,561,572	\$653,840	\$1,816,100	\$13,307,691	\$3,129,060	\$11,335,264	\$10,079,442
R1	4.76	6	\$43,522,858	\$4,248,347	\$618,640	\$1,618,100	\$13,186,368	\$3,041,060	\$11,142,125	\$8,789,289
S	6.73	6	\$55,327,170	\$4,250,341	\$705,320	\$2,105,675	\$17,071,712	\$3,257,760	\$14,581,618	\$12,140,676
T1	5.93	6	\$47,259,333	\$5,496,182	\$670,120	\$1,907,675	\$13,738,882	\$3,169,760	\$11,533,563	\$9,766,501
U1	6.36	6	\$50,562,536	\$4,907,467	\$689,040	\$2,014,100	\$14,593,806	\$3,217,060	\$12,618,154	\$11,384,462
V	6.6	6	\$54,169,034	\$3,783,721	\$699,600	\$2,073,500	\$17,045,497	\$3,243,460	\$14,223,883	\$11,908,522
W	6.25	6	\$52,869,828	\$4,137,701	\$684,200	\$1,986,875	\$16,482,368	\$3,204,960	\$13,857,732	\$11,378,174
X1	5.34	7	\$45,496,087	\$4,931,777	\$644,160	\$1,761,650	\$13,507,384	\$3,104,860	\$11,418,045	\$9,207,463
Y	5.23	7	\$42,723,887	\$5,900,333	\$639,320	\$1,734,425	\$11,952,819	\$3,092,760	\$10,416,847	\$8,170,347
Z1	4.53	7	\$38,474,771	\$4,174,144	\$608,520	\$1,561,175	\$11,523,763	\$3,015,760	\$9,891,014	\$7,000,360
AA1	4.82	7	\$38,291,572	\$4,261,602	\$621,280	\$1,632,950	\$11,064,175	\$3,047,660	\$9,595,667	\$7,334,761
BB	4.73	7	\$42,741,654	\$3,793,915	\$617,320	\$1,610,675	\$12,831,203	\$3,037,760	\$10,963,256	\$8,988,659
CC	5.23	7	\$43,897,472	\$4,455,112	\$639,320	\$1,734,425	\$12,792,717	\$3,092,760	\$11,012,099	\$9,246,400
DD	4.64	7	\$38,996,943	\$4,392,874	\$613,360	\$1,588,400	\$11,617,680	\$3,027,860	\$9,814,795	\$7,219,976
EE	4.99	7	\$39,757,435	\$4,393,897	\$628,760	\$1,675,025	\$11,566,090	\$3,066,360	\$9,886,810	\$7,764,084

\*\*Estimated Costs include a 10% Contingency for unknown project costs not evident at the time these estimates were created

Table 2: Transmission and Substation Facilities Total Estimated Costs (Sorted Least to Most Expensive)

Route	Total Length (miles)	Sub Site	**Estimated Total Cost	ROW & Land Acquisition	Engineering & Design (Utility)	Engineering & Design (Contract)	Procurement of Material & Equipment	Construction of Facilities (Utility)	Construction of Facilities (Contract)	Other
AA1	4.82	7	\$38,291,572	\$4,261,602	\$621,280	\$1,632,950	\$11,064,175	\$3,047,660	\$9,595,667	\$7,334,761
Z1	4.53	7	\$38,474,771	\$4,174,144	\$608,520	\$1,561,175	\$11,523,763	\$3,015,760	\$9,891,014	\$7,000,360
DD	4.64	7	\$38,996,943	\$4,392,874	\$613,360	\$1,588,400	\$11,617,680	\$3,027,860	\$9,814,795	\$7,219,976
EE	4.99	7	\$39,757,435	\$4,393,897	\$628,760	\$1,675,025	\$11,566,090	\$3,066,360	\$9,886,810	\$7,764,084
Y	5.23	7	\$42,723,887	\$5,900,333	\$639,320	\$1,734,425	\$11,952,819	\$3,092,760	\$10,416,847	\$8,170,347
BB	4.73	7	\$42,741,654	\$3,793,915	\$617,320	\$1,610,675	\$12,831,203	\$3,037,760	\$10,963,256	\$8,988,659
II	5.03	3	\$42,877,497	\$6,601,539	\$630,520	\$1,684,925	\$12,368,953	\$3,070,760	\$10,527,670	\$7,266,482
P	4.89	6	\$43,408,742	\$3,992,817	\$624,360	\$1,650,275	\$12,975,245	\$3,055,360	\$10,990,484	\$9,200,182
R1	4.76	6	\$43,522,858	\$4,248,347	\$618,640	\$1,618,100	\$13,186,368	\$3,041,060	\$11,142,125	\$8,789,289
CC	5.23	7	\$43,897,472	\$4,455,112	\$639,320	\$1,734,425	\$12,792,717	\$3,092,760	\$11,012,099	\$9,246,400
D1	5.22	2	\$43,904,818	\$6,237,577	\$638,880	\$1,731,950	\$12,876,554	\$3,091,660	\$10,966,953	\$7,601,131
J1	5.46	3	\$44,068,606	\$5,618,447	\$649,440	\$1,791,350	\$12,949,237	\$3,118,060	\$11,113,035	\$8,026,397
X1	5.34	7	\$45,496,087	\$4,931,777	\$644,160	\$1,761,650	\$13,507,384	\$3,104,860	\$11,418,045	\$9,207,463
Q1	5.56	6	\$45,890,914	\$4,561,572	\$653,840	\$1,816,100	\$13,307,691	\$3,129,060	\$11,335,264	\$10,079,442
M1	5.85	4	\$46,044,320	\$6,318,803	\$666,600	\$1,887,875	\$13,430,851	\$3,160,960	\$11,567,273	\$8,192,689
K	5.29	3	\$46,467,251	\$5,869,179	\$641,960	\$1,749,275	\$13,328,636	\$3,099,360	\$11,364,549	\$9,467,538
N1	5.33	5	\$46,803,781	\$4,908,233	\$643,720	\$1,759,175	\$13,997,195	\$3,103,760	\$11,849,811	\$9,583,534
T1	5.93	6	\$47,259,333	\$5,496,182	\$670,120	\$1,907,675	\$13,738,882	\$3,169,760	\$11,533,563	\$9,766,501
C1	5.77	1	\$47,373,301	\$6,793,477	\$663,080	\$1,868,075	\$13,867,819	\$3,152,160	\$11,925,364	\$8,275,750
F1	5.66	2	\$49,658,757	\$6,417,969	\$658,240	\$1,840,850	\$14,386,259	\$3,140,060	\$12,250,563	\$9,968,015
B1	6.19	1	\$50,551,923	\$5,902,834	\$681,560	\$1,972,025	\$15,189,033	\$3,198,360	\$12,822,362	\$9,805,226
U1	6.36	6	\$50,562,536	\$4,907,467	\$689,040	\$2,014,100	\$14,593,806	\$3,217,060	\$12,618,154	\$11,384,462
G1	6.2	3	\$51,216,234	\$6,139,834	\$682,000	\$1,974,500	\$15,108,260	\$3,199,460	\$12,877,623	\$10,213,234
W	6.25	6	\$52,869,828	\$4,137,701	\$684,200	\$1,986,875	\$16,482,368	\$3,204,960	\$13,857,732	\$11,378,174
H	6.32	3	\$53,621,915	\$8,587,636	\$687,280	\$2,004,200	\$14,722,420	\$3,212,660	\$12,683,021	\$10,658,816
L	6.91	3	\$54,086,149	\$7,227,514	\$713,240	\$2,150,225	\$14,738,090	\$3,277,560	\$12,845,846	\$11,939,704
V	6.6	6	\$54,169,034	\$3,783,721	\$699,600	\$2,073,500	\$17,045,497	\$3,243,460	\$14,223,883	\$11,908,522
E	6.62	2	\$54,505,460	\$8,616,608	\$700,480	\$2,078,450	\$15,019,244	\$3,245,660	\$13,010,552	\$10,758,605
A	6.66	1	\$54,695,384	\$7,783,840	\$702,240	\$2,088,350	\$15,331,639	\$3,250,060	\$13,199,493	\$11,217,966
S	6.73	6	\$55,327,170	\$4,250,341	\$705,320	\$2,105,675	\$17,071,712	\$3,257,760	\$14,581,618	\$12,140,676
O	6.83	5	\$56,194,703	\$4,797,587	\$709,720	\$2,130,425	\$17,383,068	\$3,268,760	\$14,650,892	\$12,049,319

Table 3: Transmission Facilities Total Estimated Costs

Route	Total Length (miles)	Sub Site	Estimated Total Cost	ROW & Land Acquisition	Engineering & Design (Utility)	Engineering & Design (Contract)	Procurement of Material & Equipment	Construction of Facilities (Utility)	Construction of Facilities (Contract)	Other
A	6.66	1	\$39,479,733	\$6,205,475	\$266,400	\$1,498,500	\$10,375,854	\$666,000	\$9,249,539	\$11,217,966
B1	6.19	1	\$35,821,831	\$4,604,350	\$247,600	\$1,392,750	\$10,246,212	\$619,000	\$8,906,692	\$9,805,226
C1	5.77	1	\$32,899,624	\$5,381,475	\$230,800	\$1,298,250	\$9,045,109	\$577,000	\$8,091,240	\$8,275,750
D1	5.22	2	\$29,130,346	\$4,260,000	\$208,800	\$1,174,500	\$8,143,958	\$522,000	\$7,219,957	\$7,601,131
E	6.62	2	\$38,654,663	\$6,310,125	\$264,800	\$1,489,500	\$10,091,858	\$662,000	\$9,077,775	\$10,758,605
F1	5.66	2	\$34,248,570	\$4,311,363	\$226,400	\$1,273,500	\$9,516,417	\$566,000	\$8,386,875	\$9,968,015
G1	6.2	3	\$36,200,846	\$4,594,900	\$248,000	\$1,395,000	\$10,172,782	\$620,000	\$8,956,930	\$10,213,234
H	6.32	3	\$37,742,578	\$6,174,925	\$252,800	\$1,422,000	\$9,822,018	\$632,000	\$8,780,019	\$10,658,816
I1	5.03	3	\$28,079,256	\$4,473,713	\$201,200	\$1,131,750	\$7,682,502	\$503,000	\$6,820,609	\$7,266,482
J1	5.46	3	\$29,661,502	\$4,079,413	\$218,400	\$1,228,500	\$8,210,034	\$546,000	\$7,352,759	\$8,026,397
K	5.29	3	\$31,238,339	\$3,703,600	\$211,600	\$1,190,250	\$8,554,942	\$529,000	\$7,581,408	\$9,467,538
L	6.91	3	\$38,164,609	\$4,938,450	\$276,400	\$1,554,750	\$9,836,263	\$691,000	\$8,928,042	\$11,939,704
M1	5.85	4	\$31,931,306	\$5,189,800	\$234,000	\$1,316,250	\$8,647,864	\$585,000	\$7,765,702	\$8,192,689
N1	5.33	5	\$32,774,012	\$4,059,750	\$213,200	\$1,199,250	\$9,162,723	\$533,000	\$8,022,555	\$9,583,534
O	6.83	5	\$41,311,213	\$3,959,163	\$273,200	\$1,536,750	\$12,240,789	\$683,000	\$10,568,993	\$12,049,319
P	4.89	6	\$29,655,409	\$3,195,350	\$195,600	\$1,100,250	\$8,233,678	\$489,000	\$7,241,349	\$9,200,182
Q1	5.56	6	\$31,911,929	\$3,712,400	\$222,400	\$1,251,000	\$8,535,901	\$556,000	\$7,554,785	\$10,079,442
R1	4.76	6	\$29,759,151	\$3,427,650	\$190,400	\$1,071,000	\$8,425,608	\$476,000	\$7,379,204	\$8,789,289
S	6.73	6	\$40,490,343	\$3,429,463	\$269,200	\$1,514,250	\$11,957,738	\$673,000	\$10,506,616	\$12,140,676
T1	5.93	6	\$33,268,576	\$4,674,675	\$237,200	\$1,334,250	\$8,927,893	\$593,000	\$7,735,057	\$9,766,501
U1	6.36	6	\$36,158,857	\$4,026,850	\$254,400	\$1,431,000	\$9,705,097	\$636,000	\$8,721,049	\$11,384,462
V	6.6	6	\$39,437,492	\$3,005,263	\$264,000	\$1,485,000	\$11,933,906	\$660,000	\$10,180,802	\$11,908,522
W	6.25	6	\$38,256,396	\$3,327,063	\$250,000	\$1,406,250	\$11,421,971	\$625,000	\$9,847,938	\$11,378,174
X1	5.34	7	\$31,423,745	\$3,919,700	\$213,600	\$1,201,500	\$8,717,440	\$534,000	\$7,630,041	\$9,207,463
Y	5.23	7	\$28,852,833	\$4,749,475	\$209,200	\$1,176,750	\$7,304,200	\$523,000	\$6,719,861	\$8,170,347
Z1	4.53	7	\$24,986,251	\$3,176,463	\$181,200	\$1,019,250	\$6,914,148	\$453,000	\$6,241,831	\$7,000,360
AA1	4.82	7	\$25,176,699	\$3,612,963	\$192,800	\$1,084,500	\$6,496,341	\$482,000	\$5,973,334	\$7,334,761
BB	4.73	7	\$28,856,185	\$2,821,750	\$189,200	\$1,064,250	\$8,102,730	\$473,000	\$7,216,596	\$8,988,659
CC	5.23	7	\$29,906,929	\$3,422,838	\$209,200	\$1,176,750	\$8,067,743	\$523,000	\$7,260,999	\$9,246,400
DD	4.64	7	\$25,528,232	\$3,442,588	\$185,600	\$1,044,000	\$6,999,527	\$464,000	\$6,172,541	\$7,219,976
EE	4.99	7	\$26,239,758	\$3,463,688	\$199,600	\$1,122,750	\$6,952,628	\$499,000	\$6,238,009	\$7,764,084

Table 4: Substation Facilities Total Estimated Costs

Sub Site	Estimated Total Cost	ROW & Land Acquisition	Engineering & Design (Utility)	Engineering & Design (Contract)	Procurement of Material & Equipment	Construction of Facilities (Utility)	Construction of Facilities (Contract)
1	\$10,243,343.00	\$ 870,743	\$372,000.00	\$400,000.00	\$3,562,000.00	\$2,288,600.00	\$2,750,000.00
2	\$10,895,754.79	\$ 1,523,155	\$372,000.00	\$400,000.00	\$3,562,000.00	\$2,288,600.00	\$2,750,000.00
3	\$11,004,617.00	\$ 1,632,017	\$372,000.00	\$400,000.00	\$3,562,000.00	\$2,288,600.00	\$2,750,000.00
4	\$10,039,796.54	\$ 667,197	\$372,000.00	\$400,000.00	\$3,562,000.00	\$2,288,600.00	\$2,750,000.00
5	\$9,774,880.00	\$ 402,280	\$372,000.00	\$400,000.00	\$3,562,000.00	\$2,288,600.00	\$2,750,000.00
6	\$9,807,084.00	\$ 434,484	\$372,000.00	\$400,000.00	\$3,562,000.00	\$2,288,600.00	\$2,750,000.00
7	\$9,999,864.00	\$ 627,264	\$372,000.00	\$400,000.00	\$3,562,000.00	\$2,288,600.00	\$2,750,000.00

# Attachment 4

# **Attachment 5**

# Attachment 6



**SOAH DOCKET NO. 473-21-0247  
PUC DOCKET NO. 51023**

<b>APPLICATION OF THE</b>	<b>§</b>	<b>BEFORE THE STATE OFFICE</b>
<b>CITY OF SAN ANTONIO TO AMEND</b>	<b>§</b>	
<b>ITS CERTIFICATE OF CONVENIENCE</b>	<b>§</b>	<b>OF</b>
<b>AND NECESSITY FOR THE</b>	<b>§</b>	
<b>SCENIC LOOP 138-KV TRANSMISSION</b>	<b>§</b>	<b>ADMINISTRATIVE HEARINGS</b>
<b>LINE IN BEXAR COUNTY</b>	<b>§</b>	

**SUPPLEMENTAL  
DIRECT TESTIMONY**

**OF**

**LISA B. MEAUX**

**ON BEHALF OF**

**APPLICANT  
CPS ENERGY**

**December 22, 2020**

**SOAH DOCKET NO. 473-21-0247  
PUC DOCKET NO. 51023  
SUPPLEMENTAL DIRECT TESTIMONY OF LISA B. MEAUX**

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**SOAH DOCKET NO. 473-21-0247  
PUC DOCKET NO. 51023  
SUPPLEMENTAL DIRECT TESTIMONY OF LISA B. MEAUX**

1                                   **I.     INTRODUCTION AND QUALIFICATIONS**

2   **Q.     PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

3   A.     My name is Lisa B. Meaux. My business address is 16825 Northchase Drive, Suite 1200,  
4           Houston, Texas 77060.

5   **Q.     WHAT IS YOUR OCCUPATION?**

6   A.     I am employed by POWER Engineers, Inc. (POWER), a 100 percent employee owned  
7           consulting and engineering firm, as Project Manager/Department Manager in the  
8           Environmental Division.

9   **Q.     ARE YOU THE SAME LISA B. MEAUX THAT PROVIDED DIRECT**  
10       **TESTIMONY IN THIS DOCKET?**

11   A.     Yes, I am.

12                                   **II.    PURPOSE OF SUPPLEMENTAL TESTIMONY**

13   **Q.     WHAT IS THE PURPOSE OF YOUR SUPPLEMENTAL DIRECT TESTIMONY?**

14   A.     The purpose of my testimony is to introduce, support, sponsor, and describe the *Scenic*  
15           *Loop 138 kV Transmission Line and Substation Project Environmental Assessment and*  
16           *Alternative Route Analysis AMENDMENT* (EA Amendment) prepared by POWER at the  
17           request of CPS Energy to document changes to the information previously reported by  
18           POWER in the *Scenic Loop 138 kV Transmission Line and Substation Project*  
19           *Environmental Assessment and Alternative Route Analysis Bexar County, Texas* (EA) that  
20           was previously admitted into evidence as Attachment 1 to CPS Energy Exhibit 1 in this  
21           proceeding. The EA Amendment is sponsored by me and is included as Attachment 2 to  
22           the Amendment to CPS Energy's Application, filed on December 22, 2020 (the  
23           Application Amendment).

1 **Q. WHICH PORTION OF THE APPLICATION AMENDMENT DO YOU**  
2 **SPONSOR?**

3 A. I sponsor the Application Amendment responses to each of the questions I sponsored in  
4 CPS Energy's original Application, which are noted in my initial Direct Testimony.

5 **III. AMENDED ENVIRONMENTAL ASSESSMENT AND ROUTING STUDY**

6 **Q. WHY DID POWER PREPARE THE EA AMENDMENT?**

7 A. CPS Energy retained POWER to perform and prepare the EA Amendment for the Scenic  
8 Loop 138 kV Transmission Line Project (Project), in order to address route modifications  
9 ordered by the Administrative Law Judges in this proceeding. My responsibility as Project  
10 Manager involved overseeing and participating in preparation of the EA Amendment. A  
11 POWER team of professionals with expertise in different environmental and land use  
12 disciplines (geology/soils, hydrology/water quality, terrestrial ecology, wetland ecology,  
13 land use/aesthetics, and cultural resources) were all involved in preparing the EA  
14 Amendment.

15 **Q. WHAT DOES THE EA AMENDMENT ADDRESS?**

16 A. The EA Amendment presents changes to information previously reported by POWER in  
17 the EA as a result of modification of Segments 26, 42, 46, 48, and 49.

18 **Q. WHAT INFORMATION DOES THE EA AMENDMENT CONTAIN?**

19 A. The EA Amendment documents the location of Segments 26a, 42a, 46a, 46b, and 49a. Data  
20 for each of the 48 land use and environmental criteria is presented in the EA Amendment  
21 for the modified segments listed above and updated for each of the routes containing one  
22 or more of the modified segments. Ultimately, 16 of the 29 routes originally included in  
23 the Application have been adjusted to account for one or more of the modified segments.  
24 In addition, POWER identified two additional alternative routes (Routes DD and EE) and  
25 included the land use and environmental data for those routes in the EA Amendment as  
26 well. The Application Amendment includes 31 geographically diverse alternative routes  
27 for the Commission to make a determination in this proceeding.

1 **Q. WHAT ARE THE RESULTS OF POWER’S INVESTIGATIONS REGARDING**  
2 **THE PROPOSED TRANSMISSION LINE PROJECT FOLLOWING THE**  
3 **APPLICATION AMENDMENT?**

4 A. The results of POWER’s investigations indicate that the Application Amendment does not  
5 result in significant impacts to existing land use, socioeconomic, hydrological, ecological,  
6 geological, or wetland resources and no adverse effects to historic-age or archeological  
7 resources are anticipated as a result of construction of any of the primary alternative routes  
8 for the Project included in the Application Amendment. Section 4.0 of the EA Amendment  
9 describes in detail the results of the primary alternative route evaluation and the potential  
10 impacts for the primary alternative routes.

11 **Q. ARE THE ROUTES INCLUDED IN THE APPLICATION AMENDMENT**  
12 **CONSISTENT WITH THE APPLICABLE PROVISIONS OF PURA, THE**  
13 **COMMISSION’S SUBSTANTIVE RULES, THE COMMISSION’S CCN**  
14 **APPLICATION FORM, AND ISSUES COMMONLY INCLUDED IN**  
15 **COMMISSION PRELIMINARY ORDERS FOR CCN APPLICATIONS?**

16 A. Yes. POWER staff with expertise in many different disciplines evaluated the routes  
17 included in the EA Amendment in accordance with the requirements of PURA  
18 § 37.056(c)(4)(A)–(D), Commission Substantive Rule 25.101, the Commission’s CCN  
19 application requirements, and the issues commonly included for consideration in the  
20 Commission’s preliminary orders for CCN applications. I personally evaluated each  
21 potential route and, in my professional opinion, all of the primary alternative routes in the  
22 Application Amendment, and their constituent route segments, comply with the routing  
23 requirements of PURA § 37.056(c)(4)(A)–(D), Commission Substantive Rule 25.101, the  
24 Commission’s CCN application requirements, and the issues commonly included for  
25 consideration in the Commission’s preliminary orders for CCN applications.

26 Following the Application Amendment, other reasonably forward-progressing  
27 routes that connect the Project endpoints may be created by utilizing the existing primary  
28 alternative route segments. Such routes may be proposed for consideration in this case and  
29 evaluated for compliance with the applicable statutory and regulatory criteria.

1 **IV. INFORMATION ADDRESSING PURA AND THE PUC'S CCN APPLICATION**  
2 **REQUIREMENTS**

3 **Q. WHAT INFORMATION COMPILED BY POWER WAS USED FOR PURPOSES**  
4 **OF THE APPLICATION AMENDMENT?**

5 A. POWER provided environmental and land use information for the primary alternative  
6 routes that was used to address several specific questions in the Application Amendment.  
7 Unless identified specifically below, POWER's findings in the EA and presented in my  
8 direct testimony are unaffected by the Application Amendment.

9 POWER's findings regarding proximity to habitable structures is presented in  
10 Table 4-1 Amended of the EA Amendment and Tables 4-6 through 4-36 in Appendix C of  
11 the EA Amendment.

12 Descriptions of electronic installations and their distances from the centerlines of  
13 the routes are provided in Section 4.2.4 and in Table 4-3 and Tables 4-6 through 4-36 in  
14 Appendix C of the EA Amendment and are shown on Figure 4-1 Amended.

15 The distances from the centerlines of each applicable primary alternative route to  
16 the Boerne Stage Field Airport are provided in Tables 4-6 through 4-36 in Appendix C of  
17 the EA Amendment and its location is shown on Figure 4-1 Amended.

18 Known historical and archeological sites and National Register of Historic Places  
19 are listed and described with the approximate distance from the centerline for each of the  
20 primary alternative routes in Section 4.5.3 and Tables 4-4 through 4-36 of the EA  
21 Amendment.

22 The impacts on environmental integrity from the Project are summarized in Section  
23 4.1 of the EA Amendment.

24 The primary alternative route lengths and route percentage parallel to other existing  
25 compatible ROW for each primary alternative route are provided in Table 4-1 Amended of  
26 the EA Amended.

27 **Q. HAVE AN ADEQUATE NUMBER OF ALTERNATIVE ROUTES BEEN**  
28 **IDENTIFIED FOR THE COMMISSION TO CONDUCT A PROPER**  
29 **EVALUATION?**

30 A. Yes. Considering the distance between the Project endpoints and nature of the study area,  
31 the 31 primary alternative routes included in the Application Amendment provide an

1 adequate number of geographically diverse alternative routes for evaluation by the  
2 Commission. To the extent that any additional routes comprised of primary alternative  
3 route segments contained in the Application Amendment are proposed by other parties to  
4 this proceeding, those would potentially expand the geographic diversity of the routes to  
5 be considered for this Project.

6 **Q. DO YOU BELIEVE THAT THE SEGMENTS AND ROUTES IN THE AMENDED**  
7 **APPLICATION WERE IDENTIFIED IN COMPLIANCE WITH THE**  
8 **COMMISSION'S POLICY OF PRUDENT AVOIDANCE?**

9 A. Yes. In my professional opinion, the primary alternative routes and segments presented in  
10 the Amended Application and EA Amendment were identified in accordance with the  
11 Commission's policy of prudent avoidance in that they reflect reasonable investments of  
12 money and effort in order to limit exposure to electric and magnetic fields.

13 **VI. CONCLUSION**

14 **Q. DOES THIS CONCLUDE YOUR SUPPLEMENTAL DIRECT TESTIMONY?**

15 A. Yes, it does.

**THIS FILING CONTAINS  
AN OVERSIVED  
DOCUMENT/ MAP**

**PLEASE CONTACT  
CENTRAL RECORDS AT  
(512)936-7180 IF YOU  
HAVE ANY QUESTIONS  
REGARDING THIS ITEM.**