

Appendix J Utility Relocations

This appendix contains Table J.1, Utility Relocations for Alternatives 1 and 2. The information provided in this table is described briefly below and referenced by column. The columns on Table J.1 are lettered left to right from A through N.

- **Column A – Utility Facility:** Identification of specific utility facilities including their owners/operators. The utility facilities listed in Column A include electric, sewer, domestic water, communications, natural gas, cable television, and wells.
- **Column B – Location/Description:** The information in this column describes the location of the relocated or encased utility facilities.
- **Column C – Approximate Relocation Length:** This column lists the approximate linear feet of each utility facility that would be relocated.
- **Column D – High-Risk Facility:** This column indicates whether a specific utility facility is categorized as high risk (Yes) or not high risk (No). Refer to Section 3.5, Utilities/Emergency Services, for additional discussion regarding high-risk facilities.
- **Columns E, F, G, H, I, and J – Impacted Alternatives and Cost of Relocation/Encasement:** These columns identify whether a specific relocation/encasement would occur under Alternative 1 and/or Alternative 2 and under which design variations. Cells with a dollar amount indicate that the specific utility would be affected by the Alternative/design variations listed in the column heading and the cost to relocate/encase that affected utility facility. The Alternatives and design variations are grouped when they have common effects on utility facilities as follows:
 - **Column E:** This is the utility relocations/encasements for Alternative 1a only.
 - **Column F:** This is the utility relocations/encasements for Alternatives 1b, 1c, and 1d.
 - **Column G:** This is the utility relocations/encasements for Alternatives 2a and 2b.
 - **Column H:** This is the utility relocations/encasements for Alternatives 2c and 2d.
 - **Column I:** This is the utility relocations/encasements for Alternatives 2e and 2f.

- **Column J:** This is the utility relocations/encasements for Alternatives 2g and 2h.
- **Column K – Prior Rights:** This column indicates whether a given utility facility owner/company has any prior rights associated with that facility. Prior rights by a utility company over a public agency determine which party is responsible for relocation costs.
- **Column L – Schedule Impacts:** This column indicates whether the relocation/encasement of a specific utility would have effects on the project implementation schedule (Yes) or not (blank cell).
- **Column M – Crossing ID #:** Utility crossing identification as shown on the preliminary utility plans.
- **Column N – Occurs in the Initial Phases?:** This column indicates whether a specific utility relocation/encasement would occur in the Initial Phases of Alternatives 1 and 2 and their design variations (Yes) or not (No; i.e., it would occur in the Ultimate Project).

Table J.1 Utility Relocations for Alternatives 1 and 2

Column A	Column B	Column C	Column D	Column E	Column F	Column G	Column H	Column I	Column J	Column K	Column L	Column M	Column N
Utility Facility	Location/Description	Approximate Relocation Length (ft)	High- Risk Facility (Yes/No)	Impacted Alternatives and Cost (Note 5) of Relocation/Encasement						Prior Rights	Schedule Impacts	Crossing ID #	Occurs in the Initial Phases? (Note 11)
				Alternative 1a	Alternatives 1b, 1c, and 1d (Note 6)	Var 1 Diamond Alternatives 2a and 2b (Note 7)	Var 2 Mid City Diamond Alternatives 2c and 2d (Note 8)	Var 3 Direct Alternatives 2e and 2f (Note 9)	Var 4 Mid City Direct Alternatives 2g and 2h (Note 10)				
16" HP oil line in 20" steel casing Four Corners Pipe Line Co. (Questar)	Crossing at 19+09 CL SR-91. Protect in place. Extend 20" steel casing 200 LF to NW.	200	Yes	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	Yes		3013 R	Yes
4" SCG	Relocate along realigned Green River Road north of SR-91 between Sta. 16+00 and 26+00.	1,400	Yes	\$89,000	\$89,000	\$89,000	\$89,000	\$89,000	\$89,000	No		1014 R	Yes
12" PVC City of Corona Water	Relocate along realigned Green River Road north of SR-91 between Sta. 16+00 and 26+00.	1,400	No	\$371,000	\$371,000	\$371,000	\$371,000	\$371,000	\$371,000			1015 R	Yes
AT&T underground	Relocate along realigned Green River Road north of SR-91 between Sta. 16+00 and 26+00.	1,450	No	\$408,000	\$408,000	\$408,000	\$408,000	\$408,000	\$408,000	No		1016 R	Yes
SCE overhead 12 kV distribution	Relocate along realigned Green River Road north of SR-91 between Sta. 21+00 and 26+00.	1,100	No	\$319,000	\$319,000	\$319,000	\$319,000	\$319,000	\$319,000	Yes		1018 R	Yes
AT&T underground	Bore and jack casing and install new cable crossing at SR-91 Sta. 21+60.	400	No	\$491,000	\$491,000	\$491,000	\$491,000	\$491,000	\$491,000	Yes		1022 R	Yes
SCE overhead 12 kV distribution	Relocate poles for overhead line that crosses SR-91 at Sta. 23+30.	400	No	\$153,000	\$153,000	\$153,000	\$153,000	\$153,000	\$153,000	Yes		1024 R	Yes
SCE overhead 12 kV distribution	Relocate poles and underground system along Prado Road north of SR-91 between Sta. 56+00 and Sta. 58+00.	560	No	\$141,500	\$141,500	\$141,500	\$141,500	\$141,500	\$141,500	Yes 50%		1030 R	Yes
AT&T overhead	Relocate poles and underground system along Prado Road north of SR-91 between Sta. 56+00 and Sta. 58+00.	800	No	\$32,000	\$32,000	\$32,000	\$32,000	\$32,000	\$32,000	No		1032 R	Yes
16" HP oil line Four Corners Pipe Line Co. (Questar)	Crossing at 60+29 CL SR-91. Relocate 210 LF of oil line (2 locations) to miss footing at WB off-ramp to Green River Road and footing at West Prado Road overhead westbound widening.	210	Yes	\$1,050,000	\$1,050,000	\$1,050,000	\$1,050,000	\$1,050,000	\$1,050,000	Yes		3015 R	Yes
AT&T underground	Bore and jack casing and install new cable crossing at SR-91 Sta. 70+50.	400	No	\$491,000	\$491,000	\$491,000	\$491,000	\$491,000	\$491,000	?		1044 R	Yes
3" SCG	Bore and jack casing and relocate 3" gas crossing at SR-91 Sta. 109+50.	400	No	\$491,000	\$491,000	\$491,000	\$491,000	\$491,000	\$491,000	Yes		1052 R	Yes
16" HP Oil Line Four Corners Pipe Line Co. (Questar)	Crossing at 149+85 CL SR-91. Protect in place. Place New 20" sleeve to NE 120' and SW 100'.	220	Yes	\$44,000	\$44,000	\$44,000	\$44,000	\$44,000	\$44,000	Yes		1056 R	Yes
TOTAL COST FOR SEGMENT 1 RIVER 1				\$4,120,500	\$4,120,500	\$4,120,500	\$4,120,500	\$4,120,500	\$4,120,500				
3" SCG	Relocate along realigned Wardlow Road north of SR-91 between Sta. 160+00 and 180+00.	1,800	No			\$98,000	\$98,000	\$98,000	\$98,000	No		1064 R	Yes
18" VCP City of Corona Sewer	Relocate along realigned Wardlow Road north of SR-91 between Sta. 160+00 and 168+00.	400	No			\$114,000	\$114,000	\$114,000	\$114,000	Yes		1065 R	Yes
AT&T underground	Relocate along realigned Wardlow Road north of SR-91 between Sta. 160+00 and 180+00.	1,700	No			\$110,000	\$110,000	\$110,000	\$110,000	No		1066 R	Yes
12"-14" City of Corona Water	Relocate along realigned Wardlow Road north of SR-91 between Sta. 160+00 to 180+00.	1,700	No			\$484,500	\$484,500	\$484,500	\$484,500			1067 R	Yes
SCE underground 12 kV distribution	Relocate along realigned Wardlow Road north of SR-91 between Sta. 160+00 to 180+00.	1,650	No			\$392,000	\$392,000	\$392,000	\$392,000	No 75%		1068 R	Yes
AT&T underground	Relocate along south side of SR-91 between Sta. 169+00 to 189+00 west of Auto Center Drive.	2,000	No	\$112,500	\$112,500	\$112,500	\$112,500	\$112,500	\$112,500	No		1072 R	Yes
AT&T underground	Relocate along Auto Center Drive lowered profile at Sta. 192+00.	800	No	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	No		1074 R	Yes
6" SCG	Relocate along Auto Center Drive lowered profile at Sta. 192+00.	1,100	Yes	\$96,000	\$96,000	\$96,000	\$96,000	\$96,000	\$96,000	No		1076 R	Yes
24" DIP Reclaimed Water City of Corona	Protect in place at Sta. 192+00. Extend 36" steel casing 100' north and 100' south.	200	No	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000			1077 P	Yes
6-4" AT&T underground	Relocate along Auto Center Drive lowered profile at Sta. 192+00, requires an interim relocation.	1,100	No	\$372,000	\$372,000	\$372,000	\$372,000	\$372,000	\$372,000	No		1078 R	Yes
15" DIP City of Corona Sewer	Protect in place at Sta. 192+00. Place concrete encasement over the top.	700	No	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	Yes		1079 P	Yes
SCE underground 12 kV distribution	Relocate along Auto Center Drive lowered profile at Sta. 192+00, requires an interim relocation.	1,200	No	\$557,000	\$557,000	\$557,000	\$557,000	\$557,000	\$557,000	No		1080 R	Yes
12" ACP City of Corona Water	Replace with new 14" water line – 1,000 LF.	1,100	No	\$291,500	\$291,500	\$291,500	\$291,500	\$291,500	\$291,500			1081 N	Yes
10" ACP City of Corona Water	Relocate along realigned Frontage Road south of SR-91 between SR-91 Sta. 193+00 and 215+00.	2,600	No	\$637,000	\$637,000	\$637,000	\$637,000	\$637,000	\$637,000			1083 R	Yes
AT&T underground	Relocate along realigned Frontage Road south of SR-91 between SR-91 Sta. 193+00 and 226+00 (2 lines).	5,400	No	\$1,451,000	\$1,451,000	\$1,451,000	\$1,451,000	\$1,451,000	\$1,451,000	No 75%	Yes	1084 R	Yes
SCE overhead 12 kV distribution	Relocate crossing of Auto Center Drive south of SR-91 at Sta. 192+00.	900	No	\$81,000	\$81,000	\$81,000	\$81,000	\$81,000	\$81,000	Yes		1086 R	Yes
SCE overhead 12 kV distribution	West of Via Josepha on south side of SR-91 Sta. 213+00.	200	No	\$28,000	\$28,000	\$28,000	\$28,000	\$28,000	\$28,000	No		1088 R	Yes
SCE overhead 12 kV distribution	Relocate system along Via Josepha on south side of SR-91 Sta. 213+00.	700	No	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	Yes 50%		1092 R	Yes
SCE overhead 12 kV distribution	System that crosses SR-91 Sta. 215+50.	450	No	\$68,000	\$68,000	\$68,000	\$89,000	\$230,000	\$230,000	Yes JUA		1094 R	Yes

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Utility Facility	Location/Description	Approximate Relocation Length (ft)	High- Risk Facility (Yes/No)	Impacted Alternatives and Cost (Note 5) of Relocation/Encasement						Prior Rights	Schedule Impacts	Crossing ID #	Occurs in the Initial Phases? (Note 11)
				Alternative 1a	Alternatives 1b, 1c, and 1d (Note 6)	Var 1 Diamond Alternatives 2a and 2b (Note 7)	Var 2 Mid City Diamond Alternatives 2c and 2d (Note 8)	Var 3 Direct Alternatives 2e and 2f (Note 9)	Var 4 Mid City Direct Alternatives 2g and 2h (Note 10)				
SCE overhead 12 kV distribution	Relocate along Maple Street north of SR-91 at Sta. 222+00.	800	No	\$116,000	\$116,000	\$116,000	\$116,000	\$116,000	\$116,000	Yes 50%		1100 R	Yes
3" SCG	Relocate along Maple Street north of SR-91 at Sta. 222+00.	400	No	\$31,500	\$31,500	\$31,500	\$31,500	\$31,500	\$31,500	No		1102 R	Yes
SCE underground 12 kV distribution	Relocate along Maple Street north of SR-91 at Sta. 222+00.	450	No	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	Yes 50%		1104 R	Yes
SCE overhead 12 kV distribution	Relocate over realigned Frontage Road south of SR-91 at Sta. 224+00 and west of Paseo Grande.	200	No	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	Yes		1108 R	Yes
8" VCP City of Corona Sewer	Relocate portion of line that crosses SR-91 at Sta. 225+20.	200	No	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000	Yes		1107 R	Yes
12" City of Corona Water	Relocate and extend casing north and south on line that crosses SR-91 at Sta. 228+75.	300	No	\$79,500	\$79,500	\$79,500	\$79,500	\$79,500	\$79,500			1111 R	Yes
AT&T underground	Bore and jack casing and install new cable crossing at SR-91 Sta. 236+30.	400	No	\$491,000	\$491,000	\$491,000	\$491,000	\$491,000	\$491,000	No JUA		1112 R	Yes
8" VCP City of Corona Sewer	Relocate portion of line along Yorba Street that crosses SR-91 at Sta. 236+40.	500	No				\$112,500		\$112,500	Yes		1113 R	Yes
4" SCG	Extend casing and gas line north and south that crosses SR-91 at Sta. 237+50.	190	No	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000	?		1114 R	Yes
10" City of Corona Water	Relocate and extend casing north and south on line that crosses SR-91 at Sta. 237+60.	480	No	\$117,600	\$117,600	\$117,600	\$117,600	\$117,600	\$117,600			1115 R	Yes
6" SCG	Relocate along realigned Pomona Road north of SR-91 between Sta. 234+00 to 249+00.	1,700	Yes	\$148,000	\$148,000	\$148,000	\$148,000	\$148,000	\$148,000	No		1118 R	Yes
6" to 2" SCG	Relocate along realigned Pomona Road north of SR-91 between Sta. 238+00 to 242+00.	470	Yes	\$47,000	\$47,000	\$47,000	\$47,000	\$47,000	\$47,000	No		4022 R	Yes
10" City of Corona Water	Relocate along realigned Pomona Road north of SR-91 between Sta. 234+00 to 249+00.	1,650	No	\$404,250	\$404,250	\$404,250	\$404,250	\$404,250	\$404,250			1121 R	Yes
6" SCG	Relocate portion of line at the Smith Avenue/Pomona Road intersection north of SR-91.	500	Yes				\$108,000		\$108,000	No		2124 R	Yes
1" SCG	Relocate portion of line at the Smith Avenue/Pomona Road intersection north of SR-91.	250	No				\$13,000		\$13,000	Yes		2126	Yes
SCE underground 12 kV distribution	Relocate from west side of Smith Avenue into east side of Smith Avenue.	1,600	No				\$275,000		\$275,000	Yes 50%		2128 R	Yes
SCE overhead 12 kV distribution	Relocate line west of Smith Avenue along south side of SR-91 between Sta. 244+00 and 250+00.	1150	No				\$103,000		\$103,000	Yes		2130 R	Yes
AT&T underground	Relocate from west side of Smith Avenue into east side of Smith Avenue.	1,450	No				\$163,200		\$163,200	Yes 50%		2134 R	Yes
Cable TV	Relocate from west side of Smith Avenue into east side of Smith Avenue.	1,600	No				\$32,500		\$32,500	No		2136 R	Yes
6" SCG	Relocate portion of line along Smith Avenue south of SR-91 to Pleasant View Avenue.	500	Yes				\$71,000		\$71,000	No		2138 R	Yes
6" City of Corona Water	Bore and jack casing and relocate 6" water line crossing SR-91 at Sta. 250+42.	400	No	\$491,000	\$491,000	\$491,000	\$491,000	\$491,000	\$491,000			2139 R	Yes
TOTAL COST FOR SEGMENT 1 RIVER 2				\$6,054,850	\$6,054,850	\$7,253,350	\$8,152,550	\$7,415,350	\$8,293,550				
SCE overhead 12 kV distribution	Relocate along realigned Pomona Road north of SR-91 between Sta. 258+00 and 284+00.	2,700	No	\$497,000	\$497,000	\$497,000	\$497,000	\$497,000	\$497,000	Yes ?		1150 R	Yes
Cable TV overhead	Relocate along realigned Pomona Road north of SR-91 between Sta. 258+00 and 269+00 (West of Sherman Avenue).	1,100	No	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	No		1152 R	Yes
10" City of Corona Water	Relocate along realigned Pomona Road north of SR-91 between Sta. 258+00 and 284+00.	2,750	No	\$673,750	\$673,750	\$673,750	\$673,750	\$673,750	\$673,750			1153 R	Yes
2" SCG	Relocate along realigned Pomona Road north of SR-91 between Sta. 258+00 and 269+00 (West of Sherman Avenue).	900	No	\$49,500	\$49,500	\$49,500	\$49,500	\$49,500	\$49,500	No		1156 R	Yes
AT&T underground	Relocate along realigned Pomona Road north of SR-91 between Sta. 268+00 and 284+00 (East of Sherman Avenue).	2,000	No	\$243,000	\$243,000	\$243,000	\$243,000	\$243,000	\$243,000	?		1158 R	Yes
6" SCG	Extend casing that crosses SR-91 at Sherman Avenue at Sta. 268+70 on each side of SR-91.	100	Yes	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	No JUA		1160 P	Yes
SCE overhead 12 kV distribution	Relocate pole that crosses SR-91 at Sherman Avenue at Sta. 268+50 on north side of SR-91.	80	No	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	No		1162 R	Yes
SCE overhead 66 and 12 kV and Communication	Relocate pole that crosses SR-91 at Sherman Avenue at Sta. 269+05 on north side of SR-91.	80	No	\$26,000	\$26,000	\$26,000	\$26,000	\$26,000	\$26,000	No		1164 R	Yes
8" ACP City of Corona Water	Bore and jack casing and relocate 8" water line crossing SR-91 at Sta. 268+90.	550	No	\$675,000	\$675,000	\$675,000	\$675,000	\$675,000	\$675,000			1163 R	Yes
SCE Substation	Relocate Edison Substation to adjacent position on south side of SR-91 at Sta. 268+00 as well as overhead lines crossing SR-91.	NA	Yes				\$1,150,000		\$1,150,000	Yes	Yes	1165	Yes

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				Alternative 1a	Alternatives 1b, 1c, and 1d (Note 6)	Var 1 Diamond Alternatives 2a and 2b (Note 7)	Var 2 Mid City Diamond Alternatives 2c and 2d (Note 8)	Var 3 Direct Alternatives 2e and 2f (Note 9)	Var 4 Mid City Direct Alternatives 2g and 2h (Note 10)				
2" SCG	Relocate along realigned Pomona Road north of SR-91 between Sta. 279+00 and 284+00 (East of Sherman Avenue).	1,050	No	\$56,000	\$56,000	\$56,000	\$56,000	\$56,000	\$56,000	No		1166 R	Yes
Well No. 15, City of Corona	Reconstruct Water Well no. 15, LT 284+20.	0	No	\$800,000	\$800,000	\$800,000	\$800,000	\$800,000	\$800,000	Yes		3017	Yes
6" City of Corona Water	Bore and jack casing and relocate 6" water line crossing SR-91 at Sta. 285+25.	800	No	\$982,000	\$982,000	\$982,000	\$982,000	\$982,000	\$982,000			1167 R	Yes
Private Electrical	Relocate line within motor home park south side between Lincoln Avenue and Buena Vista Avenue.	500	No	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	Yes		4026 R	Yes
14" City of Corona Water	Bore and jack casing and relocate 14" water line crossing SR-91 at Sta. 285+30.	700	No	\$887,000	\$887,000	\$887,000	\$887,000	\$887,000	\$887,000	Yes		1169 R	Yes
SCE overhead 66 and 12 kV and Communication	Relocate line along west side of Lincoln Avenue that crosses SR-91 at Sta. 285+40.	1,400	No	\$432,000	\$432,000	\$432,000	\$432,000	\$432,000	\$432,000	Yes	Yes	1170 R	Yes
Cable TV overhead	Relocate line along west side of Lincoln Avenue that crosses SR-91 at Sta. 285+40.	1,400	No	\$46,200	\$46,200	\$46,200	\$46,200	\$46,200	\$46,200	No		1172 R	Yes
SCE overhead 12 kV distribution	Relocate along realigned Sofia Lane south of SR-91 between Sta. 277+00 and 285+00 (west of Lincoln Avenue).	800	No	\$24,000	\$24,000	\$24,000	\$24,000	\$24,000	\$24,000	Yes		1176 R	Yes
City of Corona Water	Relocate along realigned Sofia Lane south of SR-91 between Sta. 279+00 and 282+20 (west of Lincoln Avenue).	300	No	\$79,000	\$73,500	\$73,500	\$73,500	\$73,500	\$73,500			1177 R	Yes
2" SCG	Relocate along realigned Sofia Lane south of SR-91 between Sta. 282+50 and 284+00 (west of Lincoln Avenue).	160	No	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	Yes		1178 R	Yes
SCE overhead and underground 12 kV distribution	Relocate north of the realigned westbound off-ramp to Lincoln Avenue north of SR-91 between Sta. 286+50 and 290+50.	500	No	\$36,000	\$36,000	\$36,000	\$36,000	\$36,000	\$36,000	Yes		1180 R	Yes
12" VCP City of Corona Sewer	Relocate along new Frontage Road south of SR-91 between Sta. 285+00 and 303+00 (east of Lincoln Avenue – extension of West D Street).	1,250	No	\$331,250	\$331,250	\$331,250	\$331,250	\$331,250	\$331,250	Yes		1181	Yes
SCE underground 12 kV distribution	Relocate along new Frontage Road south of SR-91 between Sta. 285+00 and 292+00 (east of Lincoln Avenue – extension of West D Street).	550	No	\$141,000	\$141,000	\$141,000	\$141,000	\$141,000	\$141,000	Yes		1184 R	Yes
SCE overhead 12 kV distribution	Relocate along Vicentia Avenue south of SR-91 at Sta. 310+50.	150	No	\$34,000	\$34,000	\$34,000	\$34,000	\$34,000	\$34,000	? JUA		1194 R	Yes
4" SCG	Relocate along Buena Vista Avenue lowered profile at Sta. 302+95.	940	No	\$219,000	\$219,000	\$219,000	\$219,000	\$219,000	\$219,000	Yes		3020 R	Yes
2" TRD AT&T underground	Relocate along Buena Vista Avenue lowered profile at Sta. 303+12.	460	No	\$115,000	\$115,000	\$115,000	\$115,000	\$115,000	\$115,000	Yes		3022 R	Yes
10" ACP City of Corona Water	Relocate along Buena Vista Avenue lowered profile at Sta. 303+22.	900	No	\$220,500	\$220,500	\$220,500	\$220,500	\$220,500	\$220,500	Yes		3023 R	Yes
8" VCP City of Corona Sewer	Relocate/encase along Vicentia Avenue north and south of SR-91 at Sta. 310+20.	450	No	\$101,250	\$101,250	\$101,250	\$101,250	\$101,250	\$101,250	Yes		1193 R	Yes
6" City of Corona Water	Bore and jack casing and relocate 6" water line crossing SR-91 at Sta. 310+35.	400	No	\$491,000	\$491,000	\$491,000	\$491,000	\$491,000	\$491,000			1195 R	Yes
3" SCG	Extend casing along Vicentia Avenue north and south of SR-91 at Sta. 310+45.	200	No	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	? JUA		1196 P	Yes
TOTAL COST FOR SEGMENT 2 WEST				\$7,276,450	\$7,270,950	\$7,270,950	\$8,420,950	\$7,270,950	\$8,420,950				
3" SCG	Relocate along realigned 2nd Street south of SR-91 between Sta. 310+50 and 315+00 (east of Vicentia Avenue).	450	No	\$33,000	\$33,000	\$33,000	\$33,000	\$33,000	\$33,000	No		1198 R	Yes
SCE overhead 12 kV distribution	Place new overhead pole at northeast corner of School Street and West Frontage Road north of SR-91 at Sta. 319+20.	20	No	\$28,000	\$28,000	\$28,000	\$28,000	\$28,000	\$28,000	?		1206 R	Yes
6" City of Corona Water	Bore and jack casing, and relocate 6" water line crossing SR-91 at Sta. 318+85.	400	No	\$491,000	\$491,000	\$491,000	\$491,000	\$491,000	\$491,000	Yes		1205 R	Yes
8" VCP City of Corona Sewer	Bore and jack casing and relocate 8" VCP sewer crossing SR-91 at Sta. 318+95.	400	No	\$491,000	\$491,000	\$491,000	\$491,000	\$491,000	\$491,000	Yes		1207 R	Yes
3" SCG	Extend casing south of SR-91 at Sta. 319+10 (northwest corner of 2nd Street and Grand Boulevard).	40	No	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	JUA		1208 P	Yes
4" SCG	Relocate along realigned West Frontage Road north of SR-91 between Sta. 319+00 to 322+00 (between School Street and Grand Boulevard).	340	No	\$29,000	\$29,000	\$29,000	\$29,000	\$29,000	\$29,000	No		1210 R	Yes
AT&T underground	Relocate along realigned West Frontage Road north of SR-91 between Sta. 319+00 and 324+50 (between School Street and Grand Boulevard).	550	No	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	No		1212 R	Yes
SCE overhead	In-line relocation north and south of SR-91 for crossing at Sta. 324+20.	200	No	\$26,000	\$26,000	\$26,000	\$26,000	\$26,000	\$26,000	Yes		1216 R	Yes
8" VCP City of Corona Sewer	Bore and jack casing and relocate 8" VCP sewer crossing SR-91 at Sta. 324+25.	400	No	\$491,000	\$491,000	\$491,000	\$491,000	\$491,000	\$491,000	Yes		1217 R	Yes
18" City of Corona Sewer	Extend casing on north side of SR-91 for crossing at Sta. 326+10 (Sheridan Street crossing).	40	No	\$11,400	\$11,400	\$11,400	\$11,400	\$11,400	\$11,400	Yes		1218 R	Yes

Table J.1 Utility Relocations for Alternatives 1 and 2

Column A	Column B	Column C	Column D	Column E	Column F	Column G	Column H	Column I	Column J	Column K	Column L	Column M	Column N
Utility Facility	Location/Description	Approximate Relocation Length (ft)	High-Risk Facility (Yes/No)	Impacted Alternatives and Cost (Note 5) of Relocation/Encasement						Prior Rights	Schedule Impacts	Crossing ID #	Occurs in the Initial Phases? (Note 11)
				Alternative 1a	Alternatives 1b, 1c, and 1d (Note 6)	Var 1 Diamond Alternatives 2a and 2b (Note 7)	Var 2 Mid City Diamond Alternatives 2c and 2d (Note 8)	Var 3 Direct Alternatives 2e and 2f (Note 9)	Var 4 Mid City Direct Alternatives 2g and 2h (Note 10)				
18" City of Corona Water	Bore and jack casing and relocate 18" water line crossing SR-91 at Sta. 326+10 (Sheridan Street crossing).	400	No	\$507,000	\$507,000	\$507,000	\$507,000	\$507,000	\$507,000	Yes		1219 R	Yes
SCE overhead 12 kV distribution	Relocate 2 poles and line in alley south of SR-91 for system at Sta. 328+10 (west of Belle Avenue).	200	No	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	No		1220 R	Yes
4" SCG	Extend casing north and south of SR-91 for crossing at Sta. 328+00 (west of Belle Avenue).	350	No	\$41,000	\$41,000	\$41,000	\$41,000	\$41,000	\$41,000	Yes		1222 P	Yes
6" VCP City of Corona Sewer	Bore and jack casing and relocate 6" VCP sewer crossing SR-91 for crossing at Sta. 328+05.	400	No	\$491,000	\$491,000	\$491,000	\$491,000	\$491,000	\$491,000	Yes		1221 R	Yes
10" City of Corona Water	Relocate along realigned 2nd Street south of SR-91 between Sta. 324+50 and 330+00 (west of Grand Boulevard).	450	No	\$110,250	\$110,250	\$110,250	\$110,250	\$110,250	\$110,250			1223 R	Yes
8" VCP City of Corona Sewer	Relocate along realigned 2nd Street south of SR-91 between Sta. 324+50 and 330+00 (west of Grand Boulevard).	600	No	\$135,000	\$135,000	\$135,000	\$135,000	\$135,000	\$135,000	Yes		1225 R	Yes
3" SCG	Extend casing north and south of SR-91 for crossing at Sta. 331+90 (east of Belle Avenue).	200	No	\$37,000	\$37,000	\$37,000	\$37,000	\$37,000	\$37,000	Yes		1226 P	Yes
SCE overhead 12 kV distribution	Relocate north of SR-91 between Sta. 328+00 and 332+00.	400	No	\$19,000	\$19,000	\$19,000	\$19,000	\$19,000	\$19,000	Yes		1228 R	Yes
Well No. 24, City of Corona	Replace water well Rt. Sta. 332+00.	0	No	\$2,200,000	\$2,200,000	\$2,200,000	\$2,200,000	\$2,200,000	\$2,200,000	Yes		3031	Yes
10" ACP City of Corona Water	Relocate along Main Street lowered profile at SR-91 Sta. 337+28.	900	No	\$220,500	\$220,500	\$220,500	\$220,500	\$220,500	\$220,500			3033 R	Yes
Level 3 communication ducts	Relocate along Main Street lowered profile at SR-91 Sta. 337+85.	700	No	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000			3036 R	Yes
6-2" Time Warner Cable	Relocate along Main Street lowered profile at SR-91 Sta. 337+92.	700	No	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	Yes		3038 R	Yes
1" SCE Underground	Reconnect to signals along Main Street.	100	No	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000			3040 R	Yes
SCE underground 12 kV distribution	Extend casing, remove and replace wire north and south of SR-91 for crossing at Sta. 341+50.	200	No	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	Yes JUA		1238 P	Yes
SCE overhead	Relocate on new poles for crossing on SR-91 at Sta. 345+30.	700	No	\$73,000	\$73,000	\$73,000	\$73,000	\$73,000	\$73,000	JUA		1242 R	Yes
8" VCP City of Corona Sewer	Bore and jack casing and relocate 8" VCP sewer crossing SR-91 at Sta. 347+00.	500	No	\$614,000	\$614,000	\$614,000	\$614,000	\$614,000	\$614,000	Yes		1241 R	Yes
6" VCP City of Corona Sewer	Relocate along south side between 347+00 and 361+00.	400	No	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000	Yes		1243 R	Yes
2" SCG	Extend casing and gas line north and south of SR-91 for crossing at Sta. 347+10.	200	No	\$33,600	\$33,600	\$33,600	\$33,600	\$33,600	\$33,600	Yes JUA		1246 R	Yes
8" ACP City of Corona Water – Increase to 12"	Relocate due to removal of 2nd Street south of SR-91 between Sta. 345+00 and 355+00. (Between Victoria Avenue and Grand Boulevard)	900	No	\$220,500	\$220,500	\$220,500	\$220,500	\$220,500	\$220,500			1247 R	Yes
8" VCP City of Corona Sewer	Relocate due to removal of 2nd Street south of SR-91 between Sta. 352+00 and 354+50.	500	No	\$112,500	\$112,500	\$112,500	\$112,500	\$112,500	\$112,500	Yes		1251 R	Yes
2" SCG	Relocate from joy to alley without joy due to removal of 2nd Street south of SR-91 between Sta. 350+80 and 352+50.	200	No	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	?		1250 R	Yes
AT&T underground	Relocate Line to East Grand Boulevard.	1500	No	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	?		1254 R	Yes
10" VCP City of Corona Sewer	Relocate 10" VCP sewer crossing East Grand Boulevard at Pearl Street.	600	No	\$147,000	\$147,000	\$147,000	\$147,000	\$147,000	\$147,000	Yes		4011 R	Yes
8" SCG	Relocate north of SR-91 between Sta. 351+00 and 352+70.	250	Yes	\$87,000	\$87,000	\$87,000	\$87,000	\$87,000	\$87,000	No		1248 R	Yes
2" SCG	Relocate along realigned Pearl Street north of SR-91 between Sta. 352+70 and 357+00.	370	No	\$26,000	\$26,000	\$26,000	\$26,000	\$26,000	\$26,000	No		1252 R	Yes
8" City of Corona Water	Relocate along realigned Pearl Street north of SR-91 between Sta. 352+70 and 357+00.	400	No	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000			1253 R	Yes
Gas Regulation Station SCG	Relocate to new location at intersection of East Grand Boulevard and Pearl Street.	N/A	No	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	No		4024 R	Yes
16" City of Corona Steel Water	Relocate along East Grand Boulevard lowered profile at Sta. 353+02.	1200	No	\$318,000	\$318,000	\$318,000	\$318,000	\$318,000	\$318,000			3041 R	Yes
8" HP SCG Gas	Relocate along East Grand Boulevard lowered profile at Sta. 353+65.	1200	No	\$350,000	\$350,000	\$350,000	\$350,000	\$350,000	\$350,000			3042 R	Yes
SCE overhead	Relocate portion of line to accommodate realignment of Pearl Street north of SR-91 at Sta. 356+20.	200	No	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	?		1256 R	Yes
15" VCP City of Corona Sewer	Relocate along new EB SR-91 on-ramp from Main Street south of SR-91 between Sta. 355+00 and 365+00.	1,000	No	\$285,000	\$285,000	\$285,000	\$285,000	\$285,000	\$285,000	Yes		1257 R	Yes
SCE overhead 12 kV distribution	Relocate with aerial and underground for crossing of SR-91 at Sta. 368+25.	1100	No	\$268,500	\$268,500	\$268,500	\$268,500	\$268,500	\$268,500	Yes JUA	Yes	1260 R	Yes
City of Corona Water	Relocate south of SR-91 between Sta. 369+50 and 372+00.	200	No	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000			1261 R	Yes
SCE overhead 12 kV distribution	Relocate with aerial and underground for crossing of SR-91 at Sta. 368+25.	1,500	No	\$171,000	\$171,000	\$171,000	\$171,000	\$171,000	\$171,000	Yes JUA	Yes	1264 R	Yes
21" VCP City of Corona Sewer	Relocate 400 LF 21" VCP sewer crossing at 370+50 CL SR-91 to miss Bent No. 3 of N15/S15-W91 connector BOH.	400	No	\$220,000	\$220,000	\$220,000	\$220,000	\$220,000	\$220,000	?		3051 R	Yes

Table J.1 Utility Relocations for Alternatives 1 and 2

Column A	Column B	Column C	Column D	Column E	Column F	Column G	Column H	Column I	Column J	Column K	Column L	Column M	Column N
Utility Facility	Location/Description	Approximate Relocation Length (ft)	High-Risk Facility (Yes/No)	Impacted Alternatives and Cost (Note 5) of Relocation/Encasement						Prior Rights	Schedule Impacts	Crossing ID #	Occurs in the Initial Phases? (Note 11)
				Alternative 1a	Alternatives 1b, 1c, and 1d (Note 6)	Var 1 Diamond Alternatives 2a and 2b (Note 7)	Var 2 Mid City Diamond Alternatives 2c and 2d (Note 8)	Var 3 Direct Alternatives 2e and 2f (Note 9)	Var 4 Mid City Direct Alternatives 2g and 2h (Note 10)				
21" DIP City of Corona Sewer	Relocate 1,100 LF 21" DIP sewer right of 374+50 CL SR-91 to miss Bent No. 7 of E91-N15/S15 connector BOH.	1100	No	\$430,000	\$430,000	\$430,000	\$430,000	\$430,000	\$430,000	?		3053 R	Yes
10" VCP City of Corona Sewer	Extend casing on north side of SR-91 at Sta. 437+55.	30	No	\$4,900	\$4,900	\$4,900	\$4,900	\$4,900	\$4,900	Yes		1267 R	No
24" City of Corona Water	Bore and jack casing and relocate 24" water line crossing SR-91 at Sta. 437+70.	300	No	\$386,000	\$386,000	\$386,000	\$386,000	\$386,000	\$386,000	Yes		1269 R	No
SCE underground 12 kV distribution	Relocate on north side of SR-91 at back of shopping center between Sta. 476+00 and 483+00 (west of McKinley Street).	570	No	\$91,000	\$91,000	\$91,000	\$91,000	\$91,000	\$91,000	Yes		1270 R	No
24" City of Corona Water	Bore and jack casing and relocate 24" water line crossing SR-91 at Sta. 550+90.	300	No	\$386,000	\$386,000	\$386,000	\$386,000	\$386,000	\$386,000	Yes		1273 R	No
10" VCP City of Corona Sewer	Bore and jack casing and relocate 10" VCP sewer crossing SR-91 at Sta. 506+05.	300	No	\$368,000	\$368,000	\$368,000	\$368,000	\$368,000	\$368,000	Yes		1275 R	No
TOTAL COST FOR SEGMENT 2 IC				\$10,842,150	\$10,842,150	\$10,842,150	\$10,842,150	\$10,842,150	\$10,842,150				
12" City of Corona Water	Bore and jack casing and relocate 12" water line crossing SR-91 at Sta. 535+50.	300	No	\$380,000	\$380,000	\$380,000	\$380,000	\$380,000	\$380,000			1277 R	No
10" VCP City of Corona Sewer	Bore and jack casing and relocate 10" VCP sewer crossing SR-91 at Sta. 535+55.	300	No	\$368,000	\$368,000	\$368,000	\$368,000	\$368,000	\$368,000	Yes		1279 R	No
24" City of Corona Water	Bore and jack casing and relocate 24" water line crossing SR-91 at Sta. 544+10.	300	No	\$386,000	\$386,000	\$386,000	\$386,000	\$386,000	\$386,000	Yes		3061 R	No
8" City of Corona Water	Bore and jack casing and relocate 8" water line crossing SR-91 at Sta. 544+20.	300	No	\$368,000	\$368,000	\$368,000	\$368,000	\$368,000	\$368,000	Yes		3063 R	No
4" City of Corona Water	Bore and jack casing and relocate 4" water line crossing SR-91 at Sta. 545+30.	300	No	\$368,000	\$368,000	\$368,000	\$368,000	\$368,000	\$368,000	Yes		3065 R	No
15" City of Corona Water	Bore and jack casing and relocate 15" water line crossing SR-91 at Sta. 558+35.	300	No	\$380,000	\$380,000	\$380,000	\$380,000	\$380,000	\$380,000	Yes		3067 R	No
12" City of Corona Water	Bore and jack casing and relocate 12" water line crossing SR-91 at Sta. 558+42.	300	No	\$380,000	\$380,000	\$380,000	\$380,000	\$380,000	\$380,000	Yes		3069 R	No
36" City of Corona Water	Bore and jack casing and relocate 36" water line crossing SR-91 at Sta. 558+50.	300	No	\$386,000	\$386,000	\$386,000	\$386,000	\$386,000	\$386,000	Yes		3071 R	No
SCE overhead 12 kV distribution	Relocate portion of line to accommodate realignment of SR-91 eastbound off-ramp to Pierce Street south of SR-91 between Sta. 564+00 and 573+00.	900	No	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	Yes		1298 R	No
TOTAL COST FOR SEGMENT 2 EAST				\$3,091,000	\$3,091,000	\$3,091,000	\$3,091,000	\$3,091,000	\$3,091,000				
SUB TOTAL PROJECT				\$31,384,950	\$31,379,450	\$32,577,950	\$34,627,150	\$32,739,950	\$34,768,150				
CONTINGENCY 20%				\$6,276,990	\$6,275,890	\$6,515,590	\$6,925,430	\$6,547,990	\$6,953,630				
TOTAL COST FOR PROJECT				\$37,661,940	\$37,655,340	\$39,093,540	\$41,552,580	\$39,287,940	\$41,721,780				

Source: Draft Project Report (May 2011).

Notes and Assumptions:

- 1) All stations are SR-91 stationing.
- 2) There are currently no utility relocations along I-15 (Seg 3).
- 3) The longest anticipated relocation length is shown (may vary by alternative).
- 4) All costs are total construction costs.
- 5) The costs shown are the utility relocation costs for Alternatives 1 and 2.
- 6) The utility relocation costs for Alternatives 1b, 1c, and 1d are the same for each design variation.
- 7) The utility relocation costs for Alternatives 2a and 2b are the same for these two design variations.
- 8) The utility relocation costs for Alternatives 2c and 2d are the same for these two design variations.
- 9) The utility relocation costs for Alternatives 2e and 2f are the same for these two design variations.
- 10) The utility relocation costs for Alternatives 2g and 2h are the same for these two design variations.
- 11) A "Yes" indicates this utility relocation would occur in the Initial Phase of Alternatives 1 and 2. A "No" indicates this utility relocation would occur after the Initial Phase of Alternatives 1 and 2.

BOH = bridge and overhead
 DIP = ductile iron pipe
 ft = feet/foot
 I-15 = Interstate 15
 JUA = Joint Use Agreement
 kV = kilovolt
 LF = linear feet
 NE = northeast
 PVC = polyvinyl chloride
 SCE = Southern California Edison
 SCG = Southern California Gas
 SR-91 State Route 91
 stn = Station
 SW = southwest
 TD = tile duct
 VCP = vitrified clay pipe

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