

Table 4-89
Summary of Impacted Intersections and Mitigation Results

LOCATION	NO-PROJECT		WITH-PROJECT		DIFFERENCE		IMPACT		W/MITIGATION		RESULT	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
2007												
127. Jamboree Rd at El Camino Real	.65	.94	.66	.96	.01	.02	-	c	.61	.91	-	mp
133. Jamboree Rd at Edinger Av	1.03	.64	1.05	.65	.02	.01	c	-	1.00	.60	ma	-
485. Sand Cyn Av at Road "B"	.81	1.19	.82	1.21	.01	.02	-	c	.56	.84	-	ma
2025 CONSTRAINED												
34. Red Hill Av at Irvine Bl	.94	1.04	.97	1.05	.03	.01	c	-	.94 .92 ¹	1.00 1.00 ¹	mp mp	- -
91. Tustin Ranch Rd at Irvine Bl	1.14	1.09	1.18	1.11	.04	.02	c	c	1.11 1.13 ¹	1.05 1.06 ¹	mp mp	mp mp
127. Jamboree Rd at El Camino Real	.65	.92	.67	.95	.02	.03	-	c	.62	.90	-	ma
223. Culver Dr at I-5 SB Ramps	.74	.93	.75	1.02	.01	.09	-	c	.75 .65 ¹	.92 .84 ¹	- -	mp ma
224. Culver Dr at Walnut Av	.90	.87	.93	.91	.03	.04	p	p	.83 .78 ¹	.86 .86 ¹	ma ma	ma ma
235. Culver Dr at University Dr ²	.89	.94	.92	.96	.03	.02	p	c	.81	.90	ma	ma
249. Yale Av at Irvine Bl	.90	.68	.99	.79	.09	.11	p	-	.84	.76	ma	-
282. Jeffrey Rd at Portola Pkwy	.76	1.27	.95	.73	.19	-.54	p	-	.84	.73	ma	-
283. Jeffrey Rd at Irvine Bl	.77	.75	.99	.90	.22	.15	p	-	.78	.90	ma	-
284. Jeffrey Rd at Bryan Av	.92	.44	.99	.62	.07	.18	c	-	.80	.64	ma	-
286. Jeffrey Rd at Roosevelt	1.27	.84	1.26	.91	-.01	.07	-	p	1.11	.87	-	ma

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	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
2025 CONSTRAINED (cont.)												
301. Sand Cyn Av at Irvine Bl	.67	.59	.96	.74	.29	.15	p	-	.83	.74	ma	-
302. Sand Cyn Av at Trabuco Rd	1.00	1.00	1.08	1.12	.08	.12	c	c	.89	1.00	ma	mp
303. Sand Cyn Av at I-5 NB Ramps	.71	.81	.92	1.00	.21	.19	p	p	.74	.80	ma	ma
304. Sand Cyn Av at Marine Way	.94	1.21	1.00	1.32	.06	.11	c	c	.92	1.06	mp	mp
305. Sand Cyn Av at I-5 SB Ramps	1.08	.97	1.26	1.10	.18	.13	c	c	1.01	.83	mp	ma
311. Sand Cyn Av at I-405 NB Ramps	.91	.55	.95	.55	.04	.00	c	-	.91	.49	mp	-
317. SR-133 NB Ramps at Irvine Bl	.84	.69	.91	.82	.07	.13	p	-	.85 .86 ¹	.76 .77 ¹	ma ma	- -
362. Bake Pkwy at Irvine Bl	1.24	.81	1.27	.86	.03	.05	c	-	1.11	.86	mp	-
364. Bake Plwy at Jeronimo Rd	1.19	.90	1.14	.91	-.05	.01	-	p	1.10	.87	-	ma
366. Bake Pkwy at Rockfield Bl	.89	.94	.91	.95	.02	.01	p	-	.83 .86 ¹	.87 .90 ¹	ma ma	- -
367. Bake Pkwy at I-5 NB Ramps	1.01	.63	1.03	.65	.02	.02	c	-	.88	.61	ma	-
368. Bake Pkwy at I-5 SB Ramps	.88	.92	.89	.94	.01	.02	-	c	.81	.84	-	ma
484. Sand Cyn Av at Roosevelt Av	.80	.81	.84	1.01	.04	.20	-	p	.72	.83	-	ma
485. Sand Cyn Av at Road "B"	.85	1.14	.95	1.24	.10	.10	p	c	.78	.87	ma	ma
490. Research Dr at Trabuco Rd	.79	.90	.83	.91	.04	.01	-	p	.81	.86	-	ma
507. Bake Pkwy at Millennium Bl	.95	.98	.99	1.02	.04	.04	c	c	.95	.94	mp	mp
512. Irvine Bl at Trabuco Rd	.87	.86	.92	.90	.05	.04	p	-	.83	.90	ma	-

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	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
515a. Bake Pkwy at Rancho Pkwy N	.98	1.22	1.00	1.22	.02	.00	c	-	.83	1.19	ma	-
2025 BUILDOUT (cont.)												
321. Laguna Cyn Rd at Old Laguna Cyn Rd	.86	.90	.88	.94	.02	.04	-	p	.86	.87	-	ma
406. Laguna Cyn Rd at Lake Forest Dr	1.13	.89	1.15	.95	.02	.06	c	p	1.13	.90	mp	ma
484. Sand Cyn Av at Roosevelt Av	.78	.83	.83	1.02	.05	.19	-	p	.71	.82	-	ma
485. Sand Cyn Av at Road "B"	.88	1.16	.95	1.22	.07	.06	p	c	.75	.86	ma	ma
507. Bake Pkwy at Millennium Bl	.94	.93	.96	.96	.02	.03	c	c	.94	.91	mp	mp
515a. Bake Pkwy at Rancho Pkwy N	.88	1.22	.91	1.21	.03	-.01	p	-	.79	1.18	ma	-
515b. Bake Pkwy at Rancho Pkwy S	.89	.82	.92	.84	.03	.02	p	-	.83	.80	ma	-
POST-2040												
34. Red Hill Av at Irvine Bl	.93	1.01	.95	1.02	.02	.01	c	-	.93 .90 ¹	.98 .97 ¹	mp ma	- -
91. Tustin Ranch Rd at Irvine Bl	.93	.88	.96	.89	.03	.01	c	-	.90 .91 ¹	.86 .84 ¹	ma mp	- -
223. Culver Dr at I-5 SB Ramps	.74	.93	.76	.98	.02	.05	-	c	.76 .70 ¹	.86 .84 ¹	- -	ma ma
224. Culver Dr at Walnut Av	.93	.87	.96	.91	.03	.04	c	p	.87 .82 ¹	.86 .86 ¹	ma ma	ma ma
249. Yale Av at Irvine Bl	.94	.73	1.02	.83	.08	.10	c	-	.87	.79	ma	-
284. Jeffrey Rd at Bryan Av	.96	.46	1.02	.65	.06	.19	c	-	.85	.68	ma	-
285. Jeffrey Rd at Trabuco Rd	.90	.88	1.00	1.05	.10	.17	p	p	.86	.86	ma	ma

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LOCATION	NO-PROJECT		WITH-PROJECT		DIFFERENCE		IMPACT		W/MITIGATION		RESULT	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
POST-2040 (cont.)												
286. Jeffrey Rd at Roosevelt	1.25	.85	1.27	.93	.02	.08	c	p	1.11	.88	mp	ma
289. Jeffrey Rd at ICD	.86	1.04	.91	1.11	.05	.07	p	c	.84	1.03	ma	mp
301. Sand Cyn Av at Irvine Bl	.78	.69	.95	.83	.17	.14	p	-	.82	.83	ma	-
302. Sand Cyn Av at Trabuco Rd	.95	.94	1.07	1.01	.12	.07	c	c	.88	.91	ma	mp
303. Sand Cyn Av at I-5 NB Ramps	.55	.88	.65	1.07	.10	.19	-	p	.65	.72	-	ma
304. Sand Cyn Av at Marine Way	.59	1.05	.69	1.12	.10	.07	-	c	.60	.97	-	mp
305. Sand Cyn Av at I-5 SB Ramps	.95	.82	1.10	.92	.15	.10	c	p	.93	.86	mp	ma
306. Sand Cyn Av at Oak Cyn	.82	.88	.89	.93	.07	.05	-	p	.64	.75	-	ma
311. Sand Cyn Av at I-405 NB Ramps	1.00	.59	1.05	.61	.05	.02	c	-	1.00	.53	mp	-
316. SR-133 SB Ramps at Irvine Bl	.89	.56	.98	.68	.09	.12	p	-	.82	.63	ma	-
452. Jamboree Rd at Santiago Cyn Rd	.88	.89	.91	.90	.03	.01	p	-	.85	.90	ma	-
484. Sand Cyn Av at Roosevelt Av	.78	.84	.84	1.05	.06	.21	-	p	.73	.87	-	ma
485. Sand Cyn Av at Road "B"	.89	1.14	.99	1.23	.10	.09	p	c	.78	.87	ma	ma
490. Research Dr at Trabuco Rd	.72	.85	.73	.91	.01	.06	-	p	.71	.83	-	ma
507. Bake Pkwy at Millennium Bl	.95	.98	.97	1.00	.02	.02	c	c	.95	.96	mp	mp
515a. Bake Pkwy at Rancho Pkwy N	.89	1.11	.90	1.14	.01	.03	-	c	.74	1.11	-	mp

Table 4-89
Summary of Impacted Intersections and Mitigation Results

Note: See Table 4- for proposed mitigation measures.

¹ Alt. Mit. - Alternative mitigation

² ATMS credit of .05 reflected

p - Project causes deficiency

ma - Mitigated to an adequate level of service

c - Project contributes to deficiency

mp - Project portion of impact mitigated, LOS remains less than adequate

Level of service ranges: A=.00 - .60 B=.61 - .70 C=.71 - .80 D=.81 - .90 E=.91 - 1.00 F=Above 1.00

**Table 4-92
ICU Summary
(2025 Buildout Toll Conditions)**

INTERSECTION	Count		Baseline		Alt. 1		Alt. 2		Alt. 3		Alt. 4	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1. Yale Av & Portola Pkwy	.41	.18	.64	.48	.73	.55	.75	.55	.72	.55	.72	.55
2. Yale Av & Arborwood	.37	.19	.40	.19	.42	.19	.43	.20	.40	.19	.43	.20
3. Yale Av & Meadowood	.25	.23	.28	.25	.28	.25	.32	.26	.29	.25	.38	.28
4. Yale Av & Hicks Cyn	.31	.24	.31	.25	.31	.25	.39	.27	.33	.26	.37	.30
5. Yale Av & Orange Arrow	.31	.19	.35	.22	.36	.22	.37	.22	.35	.22	.29	.20
6. Yale Av & Park Place	.49	.30	.53	.30	.54	.30	.55	.31	.53	.30	.43	.27
7. Yale Av & Irvine Bl	.59	.55	.99*	.74	1.03*	.80	1.05*	.80	1.02*	.80	.85	.80

* Exceeds level of service "D"

NOTES:

See Figure 7-6 for alternatives.

Baseline does not include a middle school or other land uses in Planning Area 5B (No-Project).

Baseline and Alts. 1, 2 and 3 reflect conditions in which there is no connection of Hicks Canyon Road to Jeffrey Road.

Alt. 4 include Hicks Canyon Road connection to Jeffrey Road.

Table 4-94
Peak Hour Signal Warrant Summary
(Hicks Canyon Road/Yale Avenue Analysis)

INTERSECTION	DIRECTION	Baseline		ALT. 1		ALT. 2		ALT. 3		ALT. 4	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Yale & Arborwood											
Major Approach	Northbound	220	70	220	70	220	70	220	70	220	70
	Southbound	330	180	350	190	380	190	330	180	380	190
	Total	550	250	570	260	600	260	550	250	600	260
Minor Approach	Westbound	350	140	360	140	390	160	350	140	350	140
Satisfies Warrant (Rural)?		Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Yale & Meadowood											
Major Approach	Northbound	320	240	320	240	370	270	340	250	340	310
	Total	320	240	320	240	370	270	340	250	340	310
Minor Approach	Westbound	300	190	300	190	360	190	310	190	430	190
Satisfies Warrant (Rural)?		No	No	No	No	Yes	No	Yes	No	Yes	No
Yale & Hicks Canyon											
Major Approach	Northbound	300	380	310	380	390	390	320	380	380	400
	Southbound	390	180	390	180	470	190	420	180	450	180
	Total	690	560	700	560	860	580	740	560	830	580
Minor Approach	Westbound	160	100	160	100	280	150	200	120	150	200
Satisfies Warrant (Rural)?		Yes	No	Yes	No	Yes	No	Yes	No	Yes	Yes
Yale & Park Place											
Major Approach	Northbound	480	870	500	870	550	880	480	870	470	710
	Southbound	760	300	770	300	820	320	760	300	520	340
	Total	1,240	1,170	1,270	1,170	1,370	1,200	1,240	1,170	990	1,050
Minor Approach	Eastbound	280	130	290	130	290	130	290	130	290	130
Satisfies Warrant (Rural)?		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes