

**APPENDIX I**

**YEAR 2030 TRAFFIC CONDITIONS INTERSECTION  
LEVEL OF SERVICE CALCULATION WORKSHEETS**

*APPENDIX I-I*  
**YEAR 2030 WITHOUT PROJECT TRAFFIC  
CONDITIONS**

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2030 No Project						
INTERSECTION:		1 Manchester/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	1.5	1700	130	0.08 *	2506	200	0.08	
NBT	0	0	0	0.00	0	0	0.00 *	
NBR	1.5	3400	789	0.23 *	2594	207	0.08	
SBL	2	3400	430	0.13	3400	520	0.15 *	
SBT	2	3400	590	0.17 *	3400	150	0.04	
SBR	1	1700	20	0.01	1700	0	0.00	
EBL	0		0			0		
EBT	3	5100	1438	0.28 *	5100	1906	0.37 *	
EBR	2	3400	1300	0.38 *	3400	1110	0.33	
WBL	2	3400	520	0.15 *	3400	770	0.23 *	
WBT	3	5100	1894	0.37	5100	2417	0.47	
WBR	0		0			0		
		N/S Movements		0.25			0.15	
		E/W Movements		0.43			0.60	
		Rt. Turn Component		0.03			0.00	
		Yellow Clearance		0.05			0.05	
<b>TOTAL CAPACITY UTILIZATION</b>				<b>0.761</b>	<b>0.803</b>			
<b>LEVEL OF SERVICE (LOS)</b>				<b>C</b>	<b>D</b>			

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2030 No Project						
INTERSECTION:		2 Anaheim Way/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C		CAPACITY	VOLUME	V/C
NBL	1.5	3400	700	0.21 *		2521	860	0.34
NBT	3	3400	420	0.12		4924	1680	0.34
NBR	0.5	1700	630	0.37 *		1055	360	0.34
SBL	0		0				0	
SBT	0		0	0.00 *			0	0.00
SBR	0		0				0	
EBL	2	3400	40	0.01		3400	50	0.01
EBT	3	5100	2628	0.52 *		5100	2575	0.50 *
EBR	0		0				0	
WBL	0		0		*		0	*
WBT	3.5	6800	1910	0.28		6342	2792	0.44
WBR	1.5	1700	430	0.25 *		2158	950	0.44 *
N-S split adjstment		N/S Movements		0.37				0.34
		E/W Movements		0.52				0.50
		Rt. Turn Component		0.00				0.00
		Yellow Clearance		0.05				0.05
<b>TOTAL CAPACITY UTILIZATION</b>				<b>0.936</b>		<b>0.896</b>		
<b>LEVEL OF SERVICE (LOS)</b>				<b>E</b>		<b>D</b>		

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim					
ANALYSIS CONDITION:		ARTIC- 2030 No Project					
INTERSECTION:		3 Lewis/ Katella					
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR		PM PEAK HOUR		
			VOLUME	V/C	VOLUME	V/C	
NBL	1	1700	70	0.04	250	0.15	
NBT	1	1700	410	0.24 *	670	0.39 *	
NBR	1	1700	440	0.26	520	0.31	
SBL	1	1700	270	0.16 *	380	0.22 *	
SBT	1	1700	380	0.22	460	0.27	
SBR	1	1700	390	0.23	770	0.45 *	
EBL	2	3400	530	0.16 *	420	0.12 *	
EBT	4	6800	1918	0.30	2095	0.32	
EBR	0		140		110		
WBL	2	3400	150	0.04	480	0.14	
WBT	4	6800	1510	0.24 *	2662	0.42 *	
WBR	0		140		190		
				N/S Movements	0.40	0.62	
				E/W Movements	0.40	0.54	
				Rt. Turn Component	0.00	0.06	
				Yellow Clearance	0.05	0.05	
<b>TOTAL CAPACITY UTILIZATION</b>				<b>0.849</b>	<b>1,269</b>		
<b>LEVEL OF SERVICE (LOS)</b>				<b>D</b>	<b>F</b>		

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2030 No Project						
INTERSECTION:		4 State College/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	2	3400	300	0.09 *	3400	530	0.16 *	
NBT	3	5100	480	0.09	5100	830	0.16	
NBR	1	1700	289	0.17	1700	247	0.15	
SBL	2	3400	395	0.12	3400	319	0.09	
SBT	3	5100	1010	0.20 *	5100	680	0.13 *	
SBR	1	1700	900	0.53 *	1700	820	0.48 *	
EBL	2	3400	690	0.20	3400	900	0.26 *	
EBT	4	6800	1408	0.31 *	6800	1235	0.24	
EBR	0		670			420		
WBL	2	3400	536	0.16 *	3400	674	0.20	
WBT	4	6800	610	0.10	6800	1632	0.29 *	
WBR	0		77			338		
		N/S Movements		0.29			0.29	
		E/W Movements		0.46			0.55	
		Rt. Turn Component		0.13			0.08	
		Yellow Clearance		0.05			0.05	
<b>TOTAL CAPACITY UTILIZATION</b>				<b>0.928</b>				<b>0.978</b>
<b>LEVEL OF SERVICE (LOS)</b>				<b>E</b>				<b>E</b>

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2030 No Project						
INTERSECTION:		5 Sportstown/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR		PM PEAK HOUR			
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	2	3400	106	0.03	3400	627	0.18	
NBT	0.5	73	10	0.14 *	56	20	0.36 *	
NBR	1.5	3327	453	0.14	3344	1202	0.36	
SBL	1	1700	60	0.04 *	1700	150	0.09 *	
SBT	1	1700	10	0.01	1700	20	0.01	
SBR	1	1700	70	0.04 *	1700	120	0.07 *	
EBL	2	3400	30	0.01	3400	130	0.04	
EBT	3	5100	1550	0.30 *	5100	1190	0.23 *	
EBR	1	1700	541	0.32	1700	491	0.29	
WBL	2	3400	842	0.25 *	3400	924	0.27 *	
WBT	3	5100	917	0.18	5100	1637	0.32	
WBR	1	1700	110	0.06	1700	140	0.08	
		N/S Movements		0.17			0.45	
		E/W Movements		0.55			0.51	
		Rt. Turn Component		0.00			0.00	
		Yellow Clearance		0.05			0.05	
<b>TOTAL CAPACITY UTILIZATION</b>				<b>0.773</b>	<b>1.003</b>			
<b>LEVEL OF SERVICE (LOS)</b>				<b>C</b>	<b>F</b>			

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2030 No Project						
INTERSECTION:		6 Howell/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR		PM PEAK HOUR			
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	1	1700	20	0.01	1700	130	0.08	
NBT	1	1700	20	0.01	1700	90	0.05 *	
NBR	1	1700	40	0.02	1700	210	0.12 *	
SBL	2	3400	320	0.09	3400	500	0.15 *	
SBT	0.5	744	70	0.09	1133	20	0.02	
SBR	1.5	2656	250	0.09	2267	40	0.02	
EBL	2	3400	50	0.01	3400	160	0.05 *	
EBT	3	5100	1974	0.40 *	5100	2092	0.42	
EBR	0		90			70		
WBL	2	3400	170	0.05 *	3400	90	0.03	
WBT	3	5100	1599	0.41	5100	2551	0.60 *	
WBR	0		510			530		
		N/S Movements		0.11			0.20	
		E/W Movements		0.45			0.65	
		Rt. Turn Component		0.00			0.04	
		Yellow Clearance		0.05			0.05	
<b>TOTAL CAPACITY UTILIZATION</b>				<b>0.611</b>			<b>0.945</b>	
<b>LEVEL OF SERVICE (LOS)</b>				<b>B</b>			<b>E</b>	



**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim					
ANALYSIS CONDITION:		ARTIC- 2030 No Project					
INTERSECTION:		7 SR 57 SB Ramps/ Katella					
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR		PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C
NBL	0		0			0	
NBT	0		0	0.00 *		0	0.00 *
NBR	0		0			0	
SBL	1.5	1700	151	0.09 *	1700	195	0.11 *
SBT	0	0	0	0.00	0	0	0.00
SBR	1.5	3400	761	0.22 *	3400	584	0.17 *
EBL	0		0			0	*
EBT	3	5100	2184	0.43 *	5100	2207	0.43
EBR (free)			189	0.00		524	0.00
WBL	0		0	*		0	
WBT	3	5100	1548	0.30	5100	2387	0.47 *
WBR (free)			229	0.00		412	0.00
		N/S Movements		0.09			0.11
		E/W Movements		0.43			0.47
		Rt. Turn Component		0.14			0.06
		Yellow Clearance		0.05			0.05
<b>TOTAL CAPACITY UTILIZATION</b>			<b>0.702</b>		<b>0.690</b>		
<b>LEVEL OF SERVICE (LOS)</b>			<b>C</b>		<b>B</b>		

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2030 No Project						
INTERSECTION:		8 SR 57 NB Ramps/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR		PM PEAK HOUR			
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	1.5	2189	367	0.17 *	2052	305	0.15 *	
NBT	0	0	0	0.00	0	0	0.00	
NBR	1.5	2911	488	0.17 *	3048	453	0.15 *	
SBL	0		0			0		
SBT	0		0	0.00 *		0	0.00 *	
SBR	0		0			0		
EBL	0		0			0	*	
EBT	3	5100	1961	0.38 *	5100	1798	0.35	
EBR (free)			415	0.00		523	0.00	
WBL	0		0	*		0		
WBT	3	5100	1381	0.27	5100	2525	0.50 *	
WBR (free)			189	0.00		359	0.00	
		N/S Movements		0.17			0.15	
		E/W Movements		0.38			0.50	
		Rt. Turn Component		0.00			0.00	
		Yellow Clearance		0.05			0.05	
<b>TOTAL CAPACITY UTILIZATION</b>			<b>0.602</b>		<b>0.694</b>			
<b>LEVEL OF SERVICE (LOS)</b>			<b>B</b>		<b>B</b>			

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2030 No Project						
INTERSECTION:		9 Douglass/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR		PM PEAK HOUR			
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	2	3400	236	0.07	3400	729	0.21	
NBT	0.5	1257	183	0.15 *	1649	549	0.33 *	
NBR	1.5	2143	312	0.15	1751	583	0.33	
SBL	2	3400	890	0.26 *	3400	530	0.16 *	
SBT	0.5	1700	514	0.30	1483	304	0.21	
SBR	1.5	1700	120	0.07	1917	393	0.21	
EBL	2	3400	461	0.14	3400	262	0.08 *	
EBT	3	5100	1849	0.36 *	5100	1487	0.29	
EBR	1	1700	248	0.15	1700	432	0.25	
WBL	2	3400	521	0.15 *	3400	546	0.16	
WBT	3	5100	1265	0.25	5100	2223	0.44 *	
WBR	1	1700	350	0.21	1700	840	0.49	
		N/S Movements		0.41			0.49	
		E/W Movements		0.52			0.51	
		Rt. Turn Component		0.00			0.00	
		Yellow Clearance		0.05			0.05	
<b>TOTAL CAPACITY UTILIZATION</b>				<b>0.973</b>	<b>1.052</b>			
<b>LEVEL OF SERVICE (LOS)</b>				<b>E</b>	<b>F</b>			

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2030 No Project						
INTERSECTION:		10 Struck/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	1.5	3274	260	0.08 *	3287	580	0.18	
NBT	0.5	126	0	0.08	113	0	0.18	
NBR	0		10			20		
SBL	0		0			0		
SBT	0		0	0.00 *		0	0.00	
SBR	0		0			0		
EBL	0		0			0	*	
EBT	3	5100	2690	0.53 *	5100	2593	0.51	
EBR	1	1700	540	0.32	1700	350	0.21	
WBL	1	1700	20	0.01 *	1700	10	0.01	
WBT	3	5100	1856	0.36	5100	2958	0.58 *	
WBR	0		0			0		
		N/S Movements		0.08			0.18	
		E/W Movements		0.54			0.58	
		Rt. Turn Component		0.00			0.00	
		Yellow Clearance		0.05			0.05	
<b>TOTAL CAPACITY UTILIZATION</b>				<b>0.669</b>				
<b>LEVEL OF SERVICE (LOS)</b>				<b>B</b>	<b>0.806</b>			
					<b>D</b>			

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim					
ANALYSIS CONDITION:		ARTIC- 2030 No Project					
INTERSECTION:		11 Main/ Katella					
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR		PM PEAK HOUR		
			VOLUME	V/C	VOLUME	V/C	
NBL	2	3400	38	0.01	196	0.06 *	
NBT	2	3400	830	0.24 *	770	0.23	
NBR	1	1700	200	0.12	500	0.29	
SBL	2	3400	170	0.05 *	100	0.03	
SBT	2	3400	820	0.24	890	0.26 *	
SBR	1	1700	135	0.08	509	0.30	
EBL	2	3400	477	0.14 *	308	0.09	
EBT	3	5100	1339	0.26	1878	0.37 *	
EBR	1	1700	164	0.10	137	0.08	
WBL	2	3400	420	0.12	230	0.07 *	
WBT	3	5100	1562	0.31 *	1593	0.31	
WBR	1	1700	70	0.04	190	0.11	
		N/S Movements		0.29		0.32	
		E/W Movements		0.45		0.44	
		Rt. Turn Component		0.00		0.00	
		Yellow Clearance		0.05		0.05	
<b>TOTAL CAPACITY UTILIZATION</b>				<b>0.791</b>	<b>0.805</b>		
<b>LEVEL OF SERVICE (LOS)</b>				<b>C</b>	<b>D</b>		

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim				
ANALYSIS CONDITION:		ARTIC- 2030 No Project				
INTERSECTION:		12 Batavia/ Katella				
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR		PM PEAK HOUR	
			VOLUME	V/C	VOLUME	V/C
NBL	1	1700	120	0.07 *	330	0.19 *
NBT	2	3400	720	0.21	560	0.16
NBR	1	1700	250	0.15	340	0.20
SBL	1	1700	140	0.08	310	0.18
SBT	2	3400	840	0.25 *	680	0.20 *
SBR	1	1700	355	0.21	139	0.08
EBL	2	3400	237	0.07 *	408	0.12
EBT	3	5100	762	0.15	1320	0.26 *
EBR	1	1700	310	0.18	180	0.11
WBL	2	3400	430	0.13	210	0.06 *
WBT	3	5100	1629	0.32 *	785	0.15
WBR	1	1700	300	0.18	80	0.05
		N/S Movements		0.32		0.39
		E/W Movements		0.39		0.32
		Rt. Turn Component		0.00		0.00
		Yellow Clearance		0.05		0.05
<b>TOTAL CAPACITY UTILIZATION</b>				<b>0.757</b>	<b>0.765</b>	
<b>LEVEL OF SERVICE (LOS)</b>				<b>C</b>	<b>C</b>	

*APPENDIX I-II*

**YEAR 2030 WITH PROJECT TRAFFIC CONDITIONS**

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2030 With Project						
INTERSECTION:		1 Manchester/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	1.5	1700	130	0.08 *	2488	200	0.08	
NBT	0	0	0	0.00	0	0	0.00 *	
NBR	1.5	3400	810	0.24 *	2612	210	0.08	
SBL	2	3400	430	0.13	3400	520	0.15 *	
SBT	2	3400	590	0.17 *	3400	150	0.04	
SBR	1	1700	20	0.01	1700	0	0.00	
EBL	0		0			0		
EBT	3	5100	1470	0.29 *	5100	1910	0.37 *	
EBR	2	3400	1300	0.38 *	3400	1110	0.33	
WBL	2	3400	520	0.15 *	3400	770	0.23 *	
WBT	3	5100	1900	0.37	5100	2440	0.48	
WBR	0		0			0		
		N/S Movements		0.25			0.15	
		E/W Movements		0.44			0.60	
		Rt. Turn Component		0.03			0.00	
		Yellow Clearance		0.05			0.05	
<b>TOTAL CAPACITY UTILIZATION</b>			<b>0.768</b>			<b>0.804</b>		
<b>LEVEL OF SERVICE (LOS)</b>			<b>C</b>			<b>D</b>		



**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2030 With Project						
INTERSECTION:		2 Anaheim Way/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	1.5	3400	700	0.21 *	2521	860	0.34	
NBT	3	3400	420	0.12	4924	1680	0.34	
NBR	0.5	1700	630	0.37 *	1055	360	0.34	
SBL	0		0			0		
SBT	0		0	0.00 *		0	0.00	
SBR	0		0			0		
EBL	2	3400	40	0.01	3400	50	0.01	
EBT	3	5100	2680	0.53 *	5100	2580	0.51 *	
EBR	0		0			0		
WBL	0		0	*		0	*	
WBT	3.5	6800	1920	0.28	6364	2830	0.44	
WBR	1.5	1700	430	0.25 *	2136	950	0.44 *	
N-S split adjstment		N/S Movements		0.37			0.34	
		E/W Movements		0.53			0.51	
		Rt. Turn Component		0.00			0.00	
		Yellow Clearance		0.05			0.05	
<b>TOTAL CAPACITY UTILIZATION</b>				<b>0.946</b>				<b>0.897</b>
<b>LEVEL OF SERVICE (LOS)</b>				<b>E</b>				<b>D</b>

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim					
ANALYSIS CONDITION:		ARTIC- 2030 With Project					
INTERSECTION:		3 Lewis/ Katella					
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR		PM PEAK HOUR		
			VOLUME	V/C	VOLUME	V/C	
NBL	1	1700	70	0.04	250	0.15	
NBT	1	1700	410	0.24 *	670	0.39 *	
NBR	1	1700	440	0.26	520	0.31	
SBL	1	1700	270	0.16 *	380	0.22 *	
SBT	1	1700	380	0.22	460	0.27	
SBR	1	1700	390	0.23	770	0.45 *	
EBL	2	3400	530	0.16 *	420	0.12 *	
EBT	4	6800	1970	0.31	2100	0.33	
EBR	0		140		110		
WBL	2	3400	150	0.04	480	0.14	
WBT	4	6800	1520	0.24 *	2700	0.43 *	
WBR	0		140		190		
		N/S Movements		0.40		0.62	
		E/W Movements		0.40		0.55	
		Rt. Turn Component		0.00		0.06	
		Yellow Clearance		0.05		0.05	
<b>TOTAL CAPACITY UTILIZATION</b>				<b>0.850</b>	<b>1.275</b>		
<b>LEVEL OF SERVICE (LOS)</b>				<b>D</b>	<b>F</b>		

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2030 With Project						
INTERSECTION:		4 State College/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR		PM PEAK HOUR			
			VOLUME	V/C	VOLUME	V/C		
NBL	2	3400	300	0.09 *	3400	530	0.16 *	
NBT	3	5100	480	0.09	5100	830	0.16	
NBR	1	1700	310	0.18	1700	250	0.15	
SBL	2	3400	410	0.12	3400	320	0.09	
SBT	3	5100	1010	0.20 *	5100	680	0.13 *	
SBR	1	1700	900	0.53 *	1700	820	0.48 *	
EBL	2	3400	690	0.20	3400	900	0.26 *	
EBT	4	6800	1460	0.31 *	6800	1240	0.24	
EBR	0		670			420		
WBL	2	3400	540	0.16 *	3400	690	0.20	
WBT	4	6800	620	0.10	6800	1670	0.30 *	
WBR	0		80			350		
		N/S Movements		0.29			0.29	
		E/W Movements		0.47			0.56	
		Rt. Turn Component		0.13			0.08	
		Yellow Clearance		0.05			0.05	
<b>TOTAL CAPACITY UTILIZATION</b>			<b>0.937</b>		<b>0.985</b>			
<b>LEVEL OF SERVICE (LOS)</b>			<b>E</b>		<b>E</b>			

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2030 With Project						
INTERSECTION:		5 Sportstown/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	2	3400	100	0.03	3400	620	0.18	
NBT	0.5	79	10	0.13 *	58	20	0.34 *	
NBR	1.5	3321	420	0.13	3342	1150	0.34	
SBL	1	1700	60	0.04 *	1700	150	0.09 *	
SBT	1	1700	10	0.01	1700	20	0.01	
SBR	1	1700	70	0.04 *	1700	120	0.07 *	
EBL	2	3400	30	0.01	3400	130	0.04	
EBT	3	5100	1640	0.32 *	5100	1210	0.24 *	
EBR	1	1700	540	0.32	1700	480	0.28	
WBL	2	3400	820	0.24 *	3400	870	0.26 *	
WBT	3	5100	940	0.18	5100	1710	0.34	
WBR	1	1700	110	0.06	1700	140	0.08	
		N/S Movements		0.16			0.43	
		E/W Movements		0.56			0.49	
		Rt. Turn Component		0.00			0.00	
		Yellow Clearance		0.05			0.05	
<b>TOTAL CAPACITY UTILIZATION</b>				<b>0.775</b>				<b>0.975</b>
<b>LEVEL OF SERVICE (LOS)</b>				<b>C</b>				<b>E</b>

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2030 With Project						
INTERSECTION:		6 Howell/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR		PM PEAK HOUR			
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	1	1700	20	0.01	1700	130	0.08	
NBT	1	1700	20	0.01	1700	90	0.05 *	
NBR	1	1700	40	0.02	1700	210	0.12 *	
SBL	2	3400	320	0.09	3400	500	0.15 *	
SBT	0.5	744	70	0.09	1133	20	0.02	
SBR	1.5	2656	250	0.09	2267	40	0.02	
EBL	2	3400	50	0.01	3400	160	0.05 *	
EBT	3	5100	2030	0.42 *	5100	2060	0.42	
EBR	0		90			70		
WBL	2	3400	170	0.05 *	3400	90	0.03	
WBT	3	5100	1600	0.41	5100	2570	0.61 *	
WBR	0		510			530		
		N/S Movements		0.11			0.20	
		E/W Movements		0.47			0.65	
		Rt. Turn Component		0.00			0.04	
		Yellow Clearance		0.05			0.05	
<b>TOTAL CAPACITY UTILIZATION</b>				<b>0.622</b>	<b>0.949</b>			
<b>LEVEL OF SERVICE (LOS)</b>				<b>B</b>	<b>E</b>			

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2030 With Project						
INTERSECTION:		7 SR 57 SB Ramps/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR		PM PEAK HOUR			
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	0		0			0		
NBT	0		0	0.00 *		0	0.00 *	
NBR	0		0			0		
SBL	1.5	1700	350	0.21 *	1700	240	0.14 *	
SBT	0	0	0	0.00	0	0	0.00	
SBR	1.5	3400	750	0.22 *	3400	560	0.16 *	
EBL	0		0			0	*	
EBT	3	5100	2250	0.44 *	5100	2190	0.43	
EBR (free)			180	0.00		510	0.00	
WBL	0		0	*		0		
WBT	3	5100	1560	0.31	5100	2430	0.48 *	
WBR (free)			260	0.00		510	0.00	
		N/S Movements		0.21			0.14	
		E/W Movements		0.44			0.48	
		Rt. Turn Component		0.01			0.02	
		Yellow Clearance		0.05			0.05	
<b>TOTAL CAPACITY UTILIZATION</b>				<b>0.712</b>	<b>0.691</b>			
<b>LEVEL OF SERVICE (LOS)</b>				<b>C</b>	<b>B</b>			

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2030 With Project						
INTERSECTION:		8 SR 57 NB Ramps/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	1.5	1893	360	0.19 *	1921	290	0.15 *	
NBT	0	0	0	0.00	0	0	0.00	
NBR	1.5	3207	610	0.19 *	3179	480	0.15 *	
SBL	0		0			0		
SBT	0		0	0.00 *		0	0.00 *	
SBR	0		0			0		
EBL	0		0			0	*	
EBT	3	5100	2240	0.44 *	5100	1850	0.36	
EBR (free)			400	0.00		500	0.00	
WBL	0		0	*		0		
WBT	3	5100	1430	0.28	5100	2680	0.53 *	
WBR (free)			240	0.00		520	0.00	
N/S Movements				0.19	0.15			
E/W Movements				0.44	0.53			
Rt. Turn Component				0.00	0.00			
Yellow Clearance				0.05	0.05			
<b>TOTAL CAPACITY UTILIZATION</b>				<b>0.679</b>	<b>0.726</b>			
<b>LEVEL OF SERVICE (LOS)</b>				<b>B</b>	<b>C</b>			

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2030 With Project						
INTERSECTION:		9 Douglass/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	2	3400	340	0.10 *	3400	1060	0.31 *	
NBT	0.5	1242	190	0.15	1602	570	0.36	
NBR	1.5	2158	330	0.15	1798	640	0.36	
SBL	2	3400	890	0.26	3400	530	0.16	
SBT	0.5	1700	540	0.32 *	1506	310	0.21 *	
SBR	1.5	1700	120	0.07	1894	390	0.21	
EBL	2	3400	460	0.14	3400	260	0.08 *	
EBT	3	5100	1950	0.38 *	5100	1500	0.29	
EBR	1	1700	550	0.32	1700	500	0.29	
WBL	2	3400	630	0.19 *	3400	570	0.17	
WBT	3	5100	1260	0.25	5100	2210	0.43 *	
WBR	1	1700	350	0.21	1700	840	0.49	
		N/S Movements		0.42			0.52	
		E/W Movements		0.57			0.51	
		Rt. Turn Component		0.00			0.00	
		Yellow Clearance		0.05			0.05	
<b>TOTAL CAPACITY UTILIZATION</b>				<b>1.035</b>	<b>1.077</b>			
<b>LEVEL OF SERVICE (LOS)</b>				<b>F</b>	<b>F</b>			



**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2030 With Project						
INTERSECTION:		10 Struck/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	1.5	3274	260	0.08 *	3287	580	0.18	
NBT	0.5	126	0	0.08	113	0	0.18	
NBR	0		10			20		
SBL	0		0			0		
SBT	0		0	0.00 *		0	0.00	
SBR	0		0			0		
EBL	0		0			0	*	
EBT	3	5100	2710	0.53 *	5100	2670	0.52	
EBR	1	1700	540	0.32	1700	350	0.21	
WBL	1	1700	20	0.01 *	1700	10	0.01	
WBT	3	5100	1960	0.38	5100	2970	0.58 *	
WBR	0		0			0		
		N/S Movements		0.08			0.18	
		E/W Movements		0.54			0.58	
		Rt. Turn Component		0.00			0.00	
		Yellow Clearance		0.05			0.05	
<b>TOTAL CAPACITY UTILIZATION</b>				<b>0.673</b>				
<b>LEVEL OF SERVICE (LOS)</b>				<b>B</b>	<b>0.809</b>			
					<b>D</b>			

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim				
ANALYSIS CONDITION:		ARTIC- 2030 With Project				
INTERSECTION:		11 Main/ Katella				
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR		PM PEAK HOUR	
			VOLUME	V/C	VOLUME	V/C
NBL	2	3400	70	0.02	200	0.06 *
NBT	2	3400	830	0.24 *	770	0.23
NBR	1	1700	200	0.12	500	0.29
SBL	2	3400	170	0.05 *	100	0.03
SBT	2	3400	820	0.24	890	0.26 *
SBR	1	1700	150	0.09	510	0.30
EBL	2	3400	480	0.14 *	320	0.09
EBT	3	5100	1350	0.26	1920	0.38 *
EBR	1	1700	170	0.10	160	0.09
WBL	2	3400	420	0.12	230	0.07 *
WBT	3	5100	1620	0.32 *	1600	0.31
WBR	1	1700	70	0.04	190	0.11
		N/S Movements		0.29		0.32
		E/W Movements		0.46		0.44
		Rt. Turn Component		0.00		0.00
		Yellow Clearance		0.05		0.05
<b>TOTAL CAPACITY UTILIZATION</b>				<b>0.803</b>	<b>0.815</b>	
<b>LEVEL OF SERVICE (LOS)</b>				<b>D</b>	<b>D</b>	

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim					
ANALYSIS CONDITION:		ARTIC- 2030 With Project					
INTERSECTION:		12 Batavia/ Katella					
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR		PM PEAK HOUR		
			VOLUME	V/C	VOLUME	V/C	
NBL	1	1700	120	0.07 *	330	0.19 *	
NBT	2	3400	720	0.21	560	0.16	
NBR	1	1700	250	0.15	340	0.20	
SBL	1	1700	140	0.08	310	0.18	
SBT	2	3400	840	0.25 *	680	0.20 *	
SBR	1	1700	370	0.22	140	0.08	
EBL	2	3400	240	0.07 *	420	0.12	
EBT	3	5100	770	0.15	1350	0.26 *	
EBR	1	1700	310	0.18	180	0.11	
WBL	2	3400	430	0.13	210	0.06 *	
WBT	3	5100	1670	0.33 *	790	0.15	
WBR	1	1700	300	0.18	80	0.05	
		N/S Movements		0.32		0.39	
		E/W Movements		0.40		0.33	
		Rt. Turn Component		0.00		0.00	
		Yellow Clearance		0.05		0.05	
<b>TOTAL CAPACITY UTILIZATION</b>				<b>0.766</b>	<b>0.771</b>		
<b>LEVEL OF SERVICE (LOS)</b>				<b>C</b>	<b>C</b>		

*APPENDIX I-III*

**YEAR 2030 WITH PROJECT WITH MITIGATION  
TRAFFIC CONDITIONS**

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2030 With Project With Mitigation						
INTERSECTION:		1 Manchester/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	1.5	1700	130	0.08 *	2488	200	0.08	
NBT	0	0	0	0.00	0	0	0.00 *	
NBR	1.5	3400	810	0.24 *	2612	210	0.08	
SBL	2	3400	430	0.13	3400	520	0.15 *	
SBT	2	3400	590	0.17 *	3400	150	0.04	
SBR	1	1700	20	0.01	1700	0	0.00	
EBL	0		0			0		
EBT	4	6800	1470	0.22 *	6800	1910	0.28 *	
EBR	2	3400	1300	0.38 *	3400	1110	0.33	
WBL	2	3400	520	0.15 *	3400	770	0.23 *	
WBT	4	6800	1900	0.28	6800	2440	0.36	
WBR	0		0			0		
		N/S Movements		0.25			0.15	
		E/W Movements		0.37			0.51	
		Rt. Turn Component		0.10			0.00	
		Yellow Clearance		0.05			0.05	
<b>TOTAL CAPACITY UTILIZATION</b>				<b>0.768</b>	<b>0.710</b>			
<b>LEVEL OF SERVICE (LOS)</b>				<b>C</b>	<b>C</b>			

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2030 With Project With Mitigation						
INTERSECTION:		2 Anaheim Way/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C		CAPACITY	VOLUME	V/C
NBL	1.5	3400	700	0.21 *		2521	860	0.34
NBT	3	3400	420	0.12		4924	1680	0.34
NBR	0.5	1700	630	0.37 *		1055	360	0.34
SBL	0		0				0	
SBT	0		0	0.00 *			0	0.00
SBR	0		0				0	
EBL	2	3400	40	0.01		3400	50	0.01 *
EBT	4	6800	2680	0.39 *		6800	2580	0.38
EBR	0		0				0	
WBL	0		0		*		0	
WBT	4.5	8334	1920	0.23		7637	2830	0.37 *
WBR	1.5	1866	430	0.23 *		2563	950	0.37 *
N-S split adjstment		N/S Movements		0.37				0.34
		E/W Movements		0.39				0.39
		Rt. Turn Component		0.00				0.00
		Yellow Clearance		0.05				0.05
<b>TOTAL CAPACITY UTILIZATION</b>				<b>0.815</b>				<b>0.776</b>
<b>LEVEL OF SERVICE (LOS)</b>				<b>D</b>				<b>C</b>

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2030 With Project With Mitigation						
INTERSECTION:		3 Lewis/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	2	3400	70	0.02	3400	250	0.07 *	
NBT	2	3400	410	0.12 *	3400	670	0.20	
NBR	1	1700	440	0.26 *	1700	520	0.31	
SBL	2	3400	270	0.08 *	3400	380	0.11	
SBT	1.5	2517	380	0.15	1907	460	0.24 *	
SBR	1.5	2583	390	0.15	3193	770	0.24	
EBL	2	3400	530	0.16	3400	420	0.12	
EBT	4	6800	1970	0.31 *	6800	2100	0.33 *	
EBR	0		140			110		
WBL	2	3400	150	0.04 *	3400	480	0.14 *	
WBT	5	8500	1520	0.20	8500	2700	0.34	
WBR	0		140			190		
		N/S Movements		0.20			0.31	
		E/W Movements		0.35			0.47	
		Rt. Turn Component		0.09			0.00	
		Yellow Clearance		0.05			0.05	
<b>TOTAL CAPACITY UTILIZATION</b>				<b>0.699</b>		<b>0.831</b>		
<b>LEVEL OF SERVICE (LOS)</b>				<b>B</b>		<b>D</b>		

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2030 With Project With Mitigation						
INTERSECTION:		4 State College/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	2	3400	300	0.09 *	3400	530	0.16 *	
NBT	3	5100	480	0.09	5100	830	0.16	
NBR	1	1700	310	0.18	1700	250	0.15	
SBL	2	3400	410	0.12	3400	320	0.09	
SBT	2	3400	1010	0.30 *	3400	680	0.20 *	
SBR	2	3400	900	0.26	3400	820	0.24	
EBL	3	5100	690	0.14	5100	900	0.18	
EBT	3	5100	1460	0.29 *	5100	1240	0.24 *	
EBR	1	1700	670	0.39 *	1700	420	0.25	
WBL	2	3400	540	0.16 *	3400	690	0.20 *	
WBT	4	6800	620	0.09	6800	1670	0.25	
WBR	1	1700	80	0.05	1700	350	0.21	
		N/S Movements		0.39			0.36	
		E/W Movements		0.45			0.45	
		Rt. Turn Component		0.02			0.00	
		Yellow Clearance		0.05			0.05	
<b>TOTAL CAPACITY UTILIZATION</b>			<b>0.900</b>			<b>0.852</b>		
<b>LEVEL OF SERVICE (LOS)</b>			<b>D</b>			<b>D</b>		



**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2030 With Project With Mitigation						
INTERSECTION:		5 Sportstown/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	2	3400	100	0.03	3400	620	0.18	*
NBT	1	1700	10	0.01	1700	20	0.01	
NBR	2	3400	420	0.12	3400	1150	0.34	*
SBL	1	1700	60	0.04	1700	150	0.09	
SBT	1	1700	10	0.01	1700	20	0.01	*
SBR	1	1700	70	0.04	1700	120	0.07	*
EBL	2	3400	30	0.01	3400	130	0.04	
EBT	3	5100	1640	0.32	5100	1210	0.24	*
EBR	1	1700	540	0.32	1700	480	0.28	
WBL	2	3400	820	0.24	3400	870	0.26	*
WBT	3	5100	940	0.18	5100	1710	0.34	
WBR	1	1700	110	0.06	1700	140	0.08	
		N/S Movements		0.04			0.19	
		E/W Movements		0.56			0.49	
		Rt. Turn Component		0.00			0.00	
		Yellow Clearance		0.05			0.05	
<b>TOTAL CAPACITY UTILIZATION</b>			<b>0.654</b>			<b>0.737</b>		
<b>LEVEL OF SERVICE (LOS)</b>			<b>B</b>			<b>C</b>		

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2030 With Project With Mitigation						
INTERSECTION:		6 Howell/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR		PM PEAK HOUR			
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	1	1700	20	0.01	1700	130	0.08	
NBT	1	1700	20	0.01	1700	90	0.05 *	
NBR	1	1700	40	0.02	1700	210	0.12 *	
SBL	2	3400	320	0.09	3400	500	0.15 *	
SBT	0.5	744	70	0.09	1133	20	0.02	
SBR	1.5	2656	250	0.09	2267	40	0.02	
EBL	2	3400	50	0.01	3400	160	0.05 *	
EBT	3	5100	2030	0.42 *	5100	2060	0.42	
EBR	0		90			70		
WBL	2	3400	170	0.05 *	3400	90	0.03	
WBT	3	5100	1600	0.31	5100	2570	0.50 *	
WBR	1	1700	510	0.30	1700	530	0.31	
		N/S Movements		0.11			0.20	
		E/W Movements		0.47			0.55	
		Rt. Turn Component		0.00			0.04	
		Yellow Clearance		0.05			0.05	
<b>TOTAL CAPACITY UTILIZATION</b>				<b>0.622</b>	<b>0.845</b>			
<b>LEVEL OF SERVICE (LOS)</b>				<b>B</b>	<b>D</b>			

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2030 With Project With Mitigation						
INTERSECTION:		7 SR 57 SB Ramps/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	0		0			0		
NBT	0		0	0.00 *		0	0.00 *	
NBR	0		0			0		
SBL	1.5	1700	350	0.21 *	1700	240	0.14 *	
SBT	0	0	0	0.00	0	0	0.00	
SBR	1.5	3400	750	0.22 *	3400	560	0.16 *	
EBL	0		0			0	*	
EBT	3	5100	2250	0.44 *	5100	2190	0.43	
EBR (free)			180	0.00		510	0.00	
WBL	0		0	*		0		
WBT	3	5100	1560	0.31	5100	2430	0.48 *	
WBR (free)			260	0.00		510	0.00	
		N/S Movements		0.21			0.14	
		E/W Movements		0.44			0.48	
		Rt. Turn Component		0.01			0.02	
		Yellow Clearance		0.05			0.05	
<b>TOTAL CAPACITY UTILIZATION</b>			<b>0.712</b>			<b>0.691</b>		
<b>LEVEL OF SERVICE (LOS)</b>			<b>C</b>			<b>B</b>		

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2030 With Project With Mitigation						
INTERSECTION:		8 SR 57 NB Ramps/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	1.5	1893	360	0.19 *	1921	290	0.15 *	
NBT	0	0	0	0.00	0	0	0.00	
NBR	1.5	3207	610	0.19 *	3179	480	0.15 *	
SBL	0		0			0		
SBT	0		0	0.00 *		0	0.00 *	
SBR	0		0			0		
EBL	0		0			0	*	
EBT	3	5100	2240	0.44 *	5100	1850	0.36	
EBR (free)			400	0.00		500	0.00	
WBL	0		0	*		0		
WBT	3	5100	1430	0.28	5100	2680	0.53 *	
WBR (free)			240	0.00		520	0.00	
		N/S Movements		0.19			0.15	
		E/W Movements		0.44			0.53	
		Rt. Turn Component		0.00			0.00	
		Yellow Clearance		0.05			0.05	
<b>TOTAL CAPACITY UTILIZATION</b>			<b>0.679</b>			<b>0.726</b>		
<b>LEVEL OF SERVICE (LOS)</b>			<b>B</b>			<b>C</b>		

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2030 With Project With Mitigation						
INTERSECTION:		9 Douglass/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	2	3400	340	0.10	3400	1060	0.31	*
NBT	2	3400	190	0.06	3400	570	0.17	
NBR	1	1700	330	0.19	1700	640	0.38	*
SBL	2	3400	890	0.26	3400	530	0.16	
SBT	2	3400	540	0.16	3400	310	0.09	*
SBR	1	1700	120	0.07	1700	390	0.23	*
EBL	2	3400	460	0.14	3400	260	0.08	*
EBT	4	6800	1950	0.29	6800	1500	0.22	
EBR	1	1700	550	0.32	1700	500	0.29	
WBL	2	3400	630	0.19	3400	570	0.17	
WBT	4	6800	1260	0.19	6800	2210	0.33	*
WBR	1	1700	350	0.21	1700	840	0.49	*
N/S Movements				0.32			0.40	
E/W Movements				0.47			0.40	
Rt. Turn Component				0.00			0.01	
Yellow Clearance				0.05			0.05	
<b>TOTAL CAPACITY UTILIZATION</b>				<b>0.840</b>			<b>0.868</b>	
<b>LEVEL OF SERVICE (LOS)</b>				<b>D</b>			<b>D</b>	

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim						
ANALYSIS CONDITION:		ARTIC- 2030 With Project With Mitigation						
INTERSECTION:		10 Struck/ Katella						
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR			PM PEAK HOUR		
			VOLUME	V/C	CAPACITY	VOLUME	V/C	
NBL	1.5	3274	260	0.08 *	3287	580	0.18	
NBT	0.5	126	0	0.08	113	0	0.18	
NBR	0		10			20		
SBL	0		0			0		
SBT	0		0	0.00 *		0	0.00	
SBR	0		0			0		
EBL	0		0			0	*	
EBT	3	5100	2710	0.53 *	5100	2670	0.52	
EBR	1	1700	540	0.32	1700	350	0.21	
WBL	1	1700	20	0.01 *	1700	10	0.01	
WBT	3	5100	1960	0.38	5100	2970	0.58 *	
WBR	0		0			0		
		N/S Movements		0.08			0.18	
		E/W Movements		0.54			0.58	
		Rt. Turn Component		0.00			0.00	
		Yellow Clearance		0.05			0.05	
<b>TOTAL CAPACITY UTILIZATION</b>				<b>0.673</b>				
<b>LEVEL OF SERVICE (LOS)</b>				<b>B</b>	<b>0.809</b>			
					<b>D</b>			

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim					
ANALYSIS CONDITION:		ARTIC- 2030 With Project With Mitigation					
INTERSECTION:		11 Main/ Katella					
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR		PM PEAK HOUR		
			VOLUME	V/C	VOLUME	V/C	
NBL	2	3400	70	0.02	200	0.06 *	
NBT	2	3400	830	0.24 *	770	0.23	
NBR	1	1700	200	0.12	500	0.29	
SBL	2	3400	170	0.05 *	100	0.03	
SBT	2	3400	820	0.24	890	0.26 *	
SBR	1	1700	150	0.09	510	0.30	
EBL	2	3400	480	0.14 *	320	0.09	
EBT	3	5100	1350	0.26	1920	0.38 *	
EBR	1	1700	170	0.10	160	0.09	
WBL	2	3400	420	0.12	230	0.07 *	
WBT	3	5100	1620	0.32 *	1600	0.31	
WBR	1	1700	70	0.04	190	0.11	
		N/S Movements		0.29		0.32	
		E/W Movements		0.46		0.44	
		Rt. Turn Component		0.00		0.00	
		Yellow Clearance		0.05		0.05	
<b>TOTAL CAPACITY UTILIZATION</b>				<b>0.803</b>	<b>0.815</b>		
<b>LEVEL OF SERVICE (LOS)</b>				<b>D</b>	<b>D</b>		

**INTERSECTION CAPACITY UTILIZATION  
CALCULATION WORKSHEET**

PROJECT:		Anaheim				
ANALYSIS CONDITION:		ARTIC- 2030 With Project With Mitigation				
INTERSECTION:		12 Batavia/ Katella				
MOVEMENT	LANES	CAPACITY	AM PEAK HOUR		PM PEAK HOUR	
			VOLUME	V/C	VOLUME	V/C
NBL	1	1700	120	0.07 *	330	0.19 *
NBT	2	3400	720	0.21	560	0.16
NBR	1	1700	250	0.15	340	0.20
SBL	1	1700	140	0.08	310	0.18
SBT	2	3400	840	0.25 *	680	0.20 *
SBR	1	1700	370	0.22	140	0.08
EBL	2	3400	240	0.07 *	420	0.12
EBT	3	5100	770	0.15	1350	0.26 *
EBR	1	1700	310	0.18	180	0.11
WBL	2	3400	430	0.13	210	0.06 *
WBT	3	5100	1670	0.33 *	790	0.15
WBR	1	1700	300	0.18	80	0.05
		N/S Movements		0.32		0.39
		E/W Movements		0.40		0.33
		Rt. Turn Component		0.00		0.00
		Yellow Clearance		0.05		0.05
<b>TOTAL CAPACITY UTILIZATION</b>				<b>0.766</b>	<b>0.771</b>	
<b>LEVEL OF SERVICE (LOS)</b>				<b>C</b>	<b>C</b>	