

APPENDIX V-H
CMP ANALYSIS WORKSHEETS



**Oak Knoll Development Project EIR
Alameda CTC CMP/MTS System Analysis Summary - 2020 PM Peak Hour**

Link Location	Segment Limits	# Lanes	Project Trips	No Project Volume	With Project Volume	V/C Ratio No Project	V/C Ratio With Project	V/C Ratio Difference	No Project LOS	With Project LOS	Change from LOS E or better to LOS F	LOS F and Change in V/C >=0.03	
Freeway Segments													
I-580 Eastbound													
Between	MacArthur Blvd	Seminary	4	145	5,907	6,052	0.738	0.756	0.018	C	D	No	-
Between	Seminary Ave	Edwards Ave	4	233	8,531	8,764	1.066	1.095	0.029	F	F	-	No
Between	Edwards Ave	Keller Ave	4	216	7,743	7,959	0.968	0.995	0.027	E	E	No	-
Between	Keller Ave	Golf Links Rd	4	52	7,558	7,610	0.945	0.951	0.006	E	E	No	-
Between	106th Ave	Dulton Ave	4	81	7,472	7,553	0.934	0.944	0.010	E	E	No	-
I-580 Westbound													
Between	Dulton Ave	106th Ave	4	150	5,907	6,057	0.738	0.757	0.019	C	D	No	-
Between	Golf Links Rd	Keller Ave	4	96	8,531	8,627	1.066	1.078	0.012	F	F	-	No
Between	Keller Ave	Edwards Ave	4	130	7,806	7,936	0.976	0.992	0.016	E	E	No	-
Between	Edwards Ave	Seminary Ave	4	143	7,558	7,701	0.945	0.963	0.018	E	E	No	-
Between	Seminary Ave	MacArthur Blvd	4	88	7,472	7,560	0.934	0.945	0.011	E	E	No	-
SR-13 Northbound													
Between	Calaveras Ave	Carson St	2	43	3,486	3,529	0.871	0.882	0.011	D	D	No	-
Between	Carson St	Redwood Rd	2	43	2,907	2,950	0.727	0.737	0.010	C	C	No	-
SR-13 Southbound													
Between	Redwood Rd	Carson St	2	71	2,630	2,701	0.658	0.675	0.017	C	C	No	-
Between	Carson St	Calaveras Ave	2	71	3,044	3,115	0.761	0.779	0.018	D	D	No	-
Arterials													
MacArthur Boulevard - Southbound													
Between	73rd Ave	77th Ave	2	8	957	965	0.598	0.603	0.005	C	C	No	-
Between	77th Ave	82nd Ave	2	6	789	795	0.493	0.497	0.004	B	B	No	-
Between	82nd Ave	90th Ave	2	7	206	213	0.128	0.133	0.005	A	A	No	-
Between	90th Ave	98th Ave	2	6	175	181	0.109	0.113	0.004	A	A	No	-
Between	98th Ave	100th Ave	2	8	383	391	0.240	0.245	0.005	A	A	No	-
MacArthur Boulevard - Northbound													
Between	100th Ave	98th Ave	2	7	233	240	0.146	0.150	0.004	A	A	No	-
Between	98th Ave	90th Ave	2	7	189	196	0.118	0.122	0.004	A	A	No	-
Between	90th Ave	82nd Ave	2	6	114	120	0.071	0.075	0.004	A	A	No	-
Between	82nd Ave	77th Ave	2	5	257	262	0.161	0.164	0.003	A	A	No	-
Between	77th Ave	73rd Ave	2	7	287	294	0.179	0.184	0.005	A	A	No	-
Skyline Blvd - Southbound													
Between	Skyline Cir	Keller Ave	1	8	7	15	0.008	0.018	0.010	A	A	No	-
Between	Keller Ave	Grass Valley Rd	1	7	1	8	0.001	0.010	0.009	A	A	No	-
Skyline Blvd - Northbound													
Between	Grass Valley Rd	Skyline Cir	1	8	1	9	0.002	0.012	0.010	A	A	No	-
Between	Keller Ave	Skyline Cir	1	7	4	11	0.005	0.014	0.009	A	A	No	-
Golf Links Rd - Eastbound													
Between	82nd Ave	Fontaine St	1	38	651	689	0.813	0.861	0.048	D	D	No	-
Between	Fontaine St	98th Ave	1	1	512	513	0.641	0.642	0.001	C	C	No	-
Between	98th Ave	Mountain Blvd	2	120	527	647	0.330	0.405	0.075	A	B	No	-
Between	Mountain Blvd	Elysian Fields Dr	1	10	371	381	0.464	0.477	0.013	B	B	No	-
Golf Links Rd - Westbound													
Between	Elysian Fields Dr	Mountain Blvd	1	10	175	185	0.219	0.232	0.013	A	A	No	-
Between	Mountain Blvd	98th Ave	2	128	457	585	0.286	0.366	0.080	A	B	No	-
Between	98th Ave	Fontaine St	1	1	219	220	0.274	0.276	0.002	A	A	No	-
Between	Fontaine St	82nd Ave	1	32	242	274	0.302	0.342	0.040	A	A	No	-
98th Ave - Westbound													
Between	Golf Links Rd	I-580 EB On-ramp	2	128	863	991	0.540	0.620	0.080	B	C	No	-
Between	I-580 EB On-ramp	Stearns Ave	2	83	376	459	0.235	0.287	0.052	A	A	No	-
Between	Stearns Ave	MacArthur Blvd	2	83	314	397	0.196	0.248	0.052	A	A	No	-
Between	MacArthur Blvd	Bancroft Ave	2	64	476	540	0.297	0.337	0.040	A	A	No	-
Between	Bancroft Ave	International Blvd	2	45	435	480	0.272	0.300	0.028	A	A	No	-
Between	International Blvd	D St	2	26	329	355	0.205	0.222	0.017	A	A	No	-
Between	D St	San Leandro St	2	26	389	415	0.243	0.259	0.016	A	A	No	-
Between	San Leandro St	Edes Ave	2	13	533	546	0.333	0.341	0.008	A	A	No	-
98th Ave - Eastbound													
Between	Edes Ave	San Leandro St	2	21	969	990	0.606	0.619	0.013	C	C	No	-
Between	San Leandro St	D St	2	41	821	862	0.513	0.539	0.026	B	B	No	-
Between	D St	International Blvd	2	41	734	775	0.459	0.484	0.025	B	B	No	-
Between	International Blvd	Bancroft Ave	2	63	962	1,025	0.601	0.640	0.039	C	C	No	-
Between	Bancroft Ave	MacArthur Blvd	2	91	805	896	0.503	0.560	0.057	B	B	No	-
Between	MacArthur Blvd	Stearns Ave	2	104	480	584	0.300	0.365	0.065	A	B	No	-
Between	Stearns Ave	I-580 EB On-ramp	2	104	509	613	0.318	0.383	0.065	A	B	No	-
Between	I-580 EB On-ramp	Golf Links Rd	2	104	387	491	0.242	0.307	0.065	A	A	No	-
Redwood Road - Eastbound													
Between	Monterey Blvd	Aliso Ave	2	1	756	757	0.472	0.473	0.001	B	B	No	-
Between	Aliso Ave	Mountain Blvd	2	1	977	978	0.610	0.611	0.001	C	C	No	-
Between	Mountain Blvd	Campus Dr	2	1	1,418	1,419	0.886	0.887	0.001	D	D	No	-
Redwood Road - Westbound													
Between	Campus Dr	Mountain Blvd	2	1	911	912	0.569	0.570	0.001	B	B	No	-
Between	Mountain Blvd	Aliso Ave	2	1	333	334	0.208	0.209	0.001	A	A	No	-
Between	Aliso Ave	Monterey Blvd	2	2	584	586	0.365	0.366	0.001	B	B	No	-

Fehr & Peers, 2016.

**Oak Knoll Development Project EIR
Alameda CTC CMP/MTS System Analysis Summary - 2040 PM Peak Hour**

Link Location	Segment Limits	# Lanes	Project Trips	No Project Volume	With Project Volume	V/C Ratio - No Project	V/C Ratio - With Project	V/C Ratio - Difference	No Project LOS	With Project LOS	Change from LOS E or better to LOS F	LOS F and Change in V/C >= 0.03	
Freeway Segments													
I-580 Eastbound													
Between	MacArthur Blvd	Seminary	4	145	6,471	6,616	0.809	0.827	0.018	D	D	No	-
Between	Seminary Ave	Edwards Ave	4	233	9,194	9,427	1.149	1.178	0.029	F	F	-	No
Between	Edwards Ave	Keller Ave	4	216	8,574	8,790	1.072	1.099	0.027	F	F	-	No
Between	Keller Ave	Golf Links Rd	4	52	8,373	8,425	1.047	1.053	0.006	F	F	-	No
Between	106th Ave	Dulton Ave	4	81	8,366	8,447	1.046	1.056	0.010	F	F	-	No
I-580 Westbound													
Between	Dulton Ave	106th Ave	4	150	6,471	6,621	0.809	0.828	0.019	D	D	No	-
Between	Golf Links Rd	Keller Ave	4	96	9,194	9,290	1.149	1.161	0.012	F	F	-	No
Between	Keller Ave	Edwards Ave	4	130	8,574	8,704	1.072	1.088	0.016	F	F	-	No
Between	Edwards Ave	Seminary Ave	4	143	8,373	8,516	1.047	1.064	0.017	F	F	-	No
Between	Seminary Ave	MacArthur Blvd	4	88	8,366	8,454	1.046	1.057	0.011	F	F	-	No
SR-13 Northbound													
Between	Calaveras Ave	Carson St	2	43	3,784	3,827	0.946	0.957	0.011	E	E	No	-
Between	Carson St	Redwood Rd	2	43	3,276	3,319	0.819	0.830	0.011	D	D	No	-
SR-13 Southbound													
Between	Redwood Rd	Carson St	2	71	3,167	3,238	0.792	0.810	0.018	D	D	No	-
Between	Carson St	Calaveras Ave	2	71	3,554	3,625	0.888	0.906	0.018	D	E	No	-
Arterials													
MacArthur Boulevard - Southbound													
Between	73rd Ave	77th Ave	2	8	1,134	1,142	0.709	0.714	0.005	C	C	No	-
Between	77th Ave	82nd Ave	2	6	975	981	0.609	0.613	0.004	C	C	No	-
Between	82nd Ave	90th Ave	2	7	352	359	0.220	0.224	0.004	A	A	No	-
Between	90th Ave	98th Ave	2	6	527	533	0.329	0.333	0.004	A	A	No	-
Between	98th Ave	100th Ave	2	8	702	710	0.439	0.444	0.005	B	B	No	-
MacArthur Boulevard - Northbound													
Between	100th Ave	98th Ave	2	7	319	326	0.200	0.204	0.004	A	A	No	-
Between	98th Ave	90th Ave	2	7	232	239	0.145	0.150	0.005	A	A	No	-
Between	90th Ave	82nd Ave	2	6	162	168	0.101	0.105	0.004	A	A	No	-
Between	82nd Ave	77th Ave	2	5	342	347	0.214	0.217	0.003	A	A	No	-
Between	77th Ave	73rd Ave	2	7	376	383	0.235	0.239	0.004	A	A	No	-
Skyline Blvd - Southbound													
Between	Skyline Cir	Keller Ave	1	8	6	14	0.008	0.018	0.010	A	A	No	-
Between	Keller Ave	Grass Valley Rd	1	7	1	8	0.001	0.010	0.009	A	A	No	-
Skyline Blvd - Northbound													
Between	Grass Valley Rd	Skyline Cir	1	8	1	9	0.002	0.012	0.010	A	A	No	-
Between	Keller Ave	Skyline Cir	1	7	4	11	0.005	0.014	0.009	A	A	No	-
Golf Links Rd - Eastbound													
Between	82nd Ave	Fontaine St	1	38	684	722	0.855	0.902	0.047	D	E	No	-
Between	Fontaine St	98th Ave	1	1	594	595	0.742	0.743	0.001	C	C	No	-
Between	98th Ave	Mountain Blvd	2	120	570	690	0.356	0.431	0.075	B	B	No	-
Between	Mountain Blvd	Elysian Fields Dr	1	10	369	379	0.461	0.473	0.012	B	B	No	-
Golf Links Rd - Westbound													
Between	Elysian Fields Dr	Mountain Blvd	1	10	182	192	0.228	0.240	0.012	A	A	No	-
Between	Mountain Blvd	98th Ave	2	128	477	605	0.298	0.378	0.080	A	B	No	-
Between	98th Ave	Fontaine St	1	1	238	239	0.298	0.299	0.001	A	A	No	-
Between	Fontaine St	82nd Ave	1	32	269	301	0.336	0.376	0.040	A	B	No	-
98th Ave - Westbound													
Between	Golf Links Rd	I-580 EB On-ramp	2	128	977	1,105	0.611	0.691	0.080	C	C	No	-
Between	I-580 EB On-ramp	Stearns Ave	2	83	394	477	0.246	0.298	0.052	A	A	No	-
Between	Stearns Ave	McArthur Blvd	2	83	344	427	0.215	0.267	0.052	A	A	No	-
Between	McArthur Blvd	Bancroft Ave	2	64	591	655	0.370	0.410	0.040	B	B	No	-
Between	Bancroft Ave	International Blvd	2	45	537	582	0.335	0.363	0.028	A	B	No	-
Between	International Blvd	D St	2	26	366	392	0.229	0.245	0.016	A	A	No	-
Between	D St	San Leandro St	2	26	437	463	0.273	0.290	0.017	A	A	No	-
Between	San Leandro St	Edes Ave	2	13	606	619	0.379	0.387	0.008	B	B	No	-
98th Ave - Eastbound													
Between	Edes Ave	San Leandro St	2	21	1,516	1,537	0.947	0.961	0.014	E	E	No	-
Between	San Leandro St	D St	2	41	1,026	1,067	0.641	0.667	0.026	C	C	No	-
Between	D St	International Blvd	2	41	952	993	0.595	0.621	0.026	C	C	No	-
Between	International Blvd	Bancroft Ave	2	63	1,249	1,312	0.780	0.820	0.040	D	D	No	-
Between	Bancroft Ave	McArthur Blvd	2	91	1,101	1,192	0.688	0.745	0.057	C	C	No	-
Between	McArthur Blvd	Stearns Ave	2	104	523	627	0.327	0.392	0.065	A	B	No	-
Between	Stearns Ave	I-580 EB On-ramp	2	104	539	643	0.337	0.402	0.065	A	B	No	-
Between	I-580 EB On-ramp	Golf Links Rd	2	104	451	555	0.282	0.347	0.065	A	A	No	-
Redwood Road - Eastbound													
Between	Monterey Blvd	Aliso Ave	2	1	728	729	0.455	0.455	0.000	B	B	No	-
Between	Aliso Ave	Mountain Blvd	2	1	919	920	0.574	0.575	0.001	B	B	No	-
Between	Mountain Blvd	Campus Dr	2	1	1,396	1,397	0.872	0.873	0.001	D	D	No	-
Redwood Road - Westbound													
Between	Campus Dr	Mountain Blvd	2	1	887	888	0.554	0.555	0.001	B	B	No	-
Between	Mountain Blvd	Aliso Ave	2	1	360	361	0.225	0.225	0.000	A	A	No	-
Between	Aliso Ave	Monterey Blvd	2	2	556	558	0.348	0.349	0.001	A	A	No	-

Fehr & Peers, 2016.