

Appendix C
**Level of Service Analysis Results
for MSMU Wellness Pavilion
Alternative 5**

Memorandum

Date: May 18, 2021
To: Mike Harden, ESA
From: Tom Gaul and Vivian Lee
Subject: **Level of Service Analysis Results for MSMU Wellness Pavilion Alternative 5**

LA15-2802

As required by the California Environmental Quality Act (CEQA), the Mount Saint Mary's University (MSMU) Wellness Pavilion Draft Environmental Impact Report (EIR) analyzed a reasonable range of potentially feasible alternatives that could attain most of the basic Project objectives, while avoiding or substantially lessening any of the significant environmental effects of the Project. A new alternative (Alternative 5) was formulated in response to comments received during the Draft EIR public comment period and feedback provided at MSMU's community outreach events.

With respect to Transportation and Traffic impacts, the Draft EIR studied the Project's traffic impacts using the level of service (LOS) criteria, which involved an analysis of whether the Project would contribute to delays at area intersections and cause congestion on nearby individual street segments. On July 1, 2020, changes to the CEQA Guidelines took effect which require local agencies to analyze traffic impacts using vehicle miles traveled (VMT) instead of LOS. The Los Angeles Department of Transportation (LADOT) has adopted Transportation Assessment Guidelines (TAG) screening criteria which provide that a project is not required to analyze VMT if it does not generate a net increase of 250 or more daily vehicle trips. As explained in Chapter III, *Revisions, Clarifications, and Corrections*, of the Final EIR, both the Project and Alternative 5 would fall below the 250 weekday vehicle trips per day threshold. A discussion of the potential VMT impacts of both the Project and Alternative 5 are provided in Appendix B to the Final EIR. In order to provide a clear comparison to the Project's traffic analysis contained in the Draft EIR, Fehr & Peers was asked to run a complete analysis of Alternative 5's traffic impacts using the LOS criteria. That analysis follows below, and also appears in Chapter III, *Revisions, Clarifications, and Corrections*, of the Final EIR, along with a discussion comparing the LOS traffic impacts of Alternative 5 to those of the Project.



Level of Service Analysis – School Year

During the school year, Alternative 5 eliminates any Health and Wellness Speaker Series events and Other Wellness/Sports Activities events with outside guests that would start between 7:00-9:30 AM and 4:00-7:30 PM or end between 6:30-9:00 AM or 3:30-7:00 PM on weekdays, and requires that Club Sports activities do not begin earlier than 7:30 PM on weekdays (PDF-TRAF-11). As such, these events would not generate trips during peak hours.

For the peak hour intersection analyses for the new school year events, Alternative 5 would not have any significant intersection impacts during the AM and PM peak hours for both Existing and Future conditions, as shown in Tables 1 and 3 respectively.

Level of Service Analysis – Summer

During the summer, Alternative 5 requires that campers attending Summer Sports Camps with more than 50 campers travel via shuttles and/or carpools. The number of allowable trips for each peak period would be restricted to 71 inbound and 31 outbound trips during any single hour within the weekday 7:00-9:00 AM peak period, 8 inbound and 34 outbound trips during the weekday 3:00-4:00 PM peak hour, and 3 inbound and 8 outbound trips during any single hour within the weekday 4:00-6:00 PM peak period (PDF-TRAF-13).

For the peak hour intersection analyses for summer events based on the established maximum vehicle trip caps, Alternative 5 would not produce any significant intersection impacts during the three analyzed peak hours for both Existing and Future conditions, as shown in Tables 2 and 4 respectively.

**TABLE 1
MSMU WELLNESS PAVILION PROJECT
EXISTING PLUS PROJECT INTERSECTION LEVELS OF SERVICE AND IMPACT ANALYSIS
ALTERNATIVE 5 - SCHOOL YEAR**

NO.	INTERSECTION	PEAK HOUR	EXISTING		EXISTING + PROJECT		V/C INCREASE	SIGNIFICANT IMPACT?
			V/C	LOS	V/C	LOS		
1	Cliffwood Ave & Sunset Blvd	AM	0.465	A	0.465	A	0.000	No
		5-6 PM	0.252	A	0.252	A	0.000	No
		6-7 PM	0.189	A	0.189	A	0.000	No
2	Kenter Ave & Sunset Blvd	AM	0.827	D	0.827	D	0.000	No
		5-6 PM	0.527	A	0.527	A	0.000	No
		6-7 PM	0.520	A	0.520	A	0.000	No
3	Bundy Dr & Sunset Blvd	AM	0.570	A	0.570	A	0.000	No
		5-6 PM	1.046	F	1.046	F	0.000	No
		6-7 PM	0.903	E	0.903	E	0.000	No
4	Saltair Ave & Sunset Blvd	AM	0.529	A	0.529	A	0.000	No
		5-6 PM	1.117	F	1.117	F	0.000	No
		6-7 PM	0.981	E	0.981	E	0.000	No
5	Barrington Ave & Sunset Blvd	AM	0.746	C	0.746	C	0.000	No
		5-6 PM	1.403	F	1.403	F	0.000	No
		6-7 PM	1.213	F	1.213	F	0.000	No
6	Church Ln & I-405 SB Ramps	AM	0.489	A	0.489	A	0.000	No
		5-6 PM	0.699	B	0.699	B	0.000	No
		6-7 PM	0.664	B	0.664	B	0.000	No
7	Church Ln & Sunset Blvd	AM	0.727	C	0.727	C	0.000	No
		5-6 PM	0.701	C	0.701	C	0.000	No
		6-7 PM	0.672	B	0.672	B	0.000	No
8	I-405 NB Ramps & Sunset Blvd	AM	0.673	B	0.673	B	0.000	No
		5-6 PM	0.317	A	0.317	A	0.000	No
		6-7 PM	0.306	A	0.306	A	0.000	No
9	N Bundy Dr & San Vicente Blvd	AM	0.577	A	0.577	A	0.000	No
		5-6 PM	0.597	A	0.597	A	0.000	No
		6-7 PM	0.539	A	0.539	A	0.000	No
10	S Bundy Dr & San Vicente Blvd	AM	0.550	A	0.550	A	0.000	No
		5-6 PM	0.514	A	0.514	A	0.000	No
		6-7 PM	0.489	A	0.489	A	0.000	No
11	Bundy Dr & Wilshire Blvd	AM	0.696	B	0.696	B	0.000	No
		5-6 PM	0.718	C	0.718	C	0.000	No
		6-7 PM	0.666	B	0.666	B	0.000	No
12	Mandeville Canyon Rd & Sunset Blvd	AM	0.869	D	0.869	D	0.000	No
		5-6 PM	0.371	A	0.371	A	0.000	No
		6-7 PM	0.339	A	0.339	A	0.000	No
13	Allenford Ave & Sunset Blvd	AM	0.607	B	0.607	B	0.000	No
		5-6 PM	0.518	A	0.518	A	0.000	No
		6-7 PM	0.473	A	0.473	A	0.000	No
14	26th Street & San Vicente Blvd	AM	0.738	C	0.738	C	0.000	No
		5-6 PM	0.773	C	0.773	C	0.000	No
		6-7 PM	0.772	C	0.772	C	0.000	No

NO.	INTERSECTION	PEAK HOUR	EXISTING		EXISTING + PROJECT		DELAY INCREASE	SIGNIFICANT IMPACT?
			DELAY (sec.)	LOS	DELAY (sec.)	LOS		
14	26th Street & San Vicente Blvd	AM	47	D	47	D	0	No
		5-6 PM	49	D	49	D	0	No
		6-7 PM	48	D	48	D	0	No

**TABLE 2
MSMU WELLNESS PAVILION PROJECT
EXISTING PLUS PROJECT INTERSECTION LEVELS OF SERVICE AND IMPACT ANALYSIS
ALTERNATIVE 5 - SUMMER ANALYSIS**

NO.	INTERSECTION	PEAK HOUR	EXISTING (2016) SUMMER		EXISTING + PROJECT SUMMER		V/C INCREASE	SIGNIFICANT IMPACT?
			V/C	LOS	V/C	LOS		
1	Cliffwood Ave & Sunset Blvd	AM	0.347	A	0.348	A	0.001	No
		3-4 PM	0.414	A	0.414	A	0.000	No
		5-6 PM	0.244	A	0.244	A	0.000	No
2	Kenter Ave & Sunset Blvd	AM	0.755	C	0.756	C	0.001	No
		3-4 PM	0.732	C	0.733	C	0.001	No
		5-6 PM	0.540	A	0.540	A	0.000	No
3	Bundy Dr & Sunset Blvd	AM	0.491	A	0.541	A	0.050	No
		3-4 PM	0.659	B	0.685	B	0.026	No
		5-6 PM	0.940	E	0.949	E	0.009	No
4	Saltair Ave & Sunset Blvd	AM	0.431	A	0.449	A	0.018	No
		3-4 PM	0.726	C	0.730	C	0.004	No
		5-6 PM	1.139	F	1.140	F	0.001	No
5	Barrington Ave & Sunset Blvd	AM	0.731	C	0.742	C	0.011	No
		3-4 PM	0.907	E	0.916	E	0.009	No
		5-6 PM	1.236	F	1.239	F	0.003	No
6	Church Ln & I-405 SB Ramps	AM	0.456	A	0.468	A	0.012	No
		3-4 PM	0.664	B	0.668	B	0.004	No
		5-6 PM	0.687	B	0.688	B	0.001	No
7	Church Ln & Sunset Blvd	AM	0.742	C	0.762	C	0.020	No
		3-4 PM	0.665	B	0.667	B	0.002	No
		5-6 PM	0.633	B	0.634	B	0.001	No
8	I-405 NB Ramps & Sunset Blvd	AM	0.663	B	0.666	B	0.003	No
		3-4 PM	0.373	A	0.376	A	0.003	No
		5-6 PM	0.326	A	0.327	A	0.001	No
9	N Bundy Dr & San Vicente Blvd	AM	0.464	A	0.468	A	0.004	No
		3-4 PM	0.586	A	0.588	A	0.002	No
		5-6 PM	0.599	A	0.599	A	0.000	No
10	S Bundy Dr & San Vicente Blvd	AM	0.478	A	0.480	A	0.002	No
		3-4 PM	0.547	A	0.548	A	0.001	No
		5-6 PM	0.518	A	0.518	A	0.000	No
11	Bundy Dr & Wilshire Blvd	AM	0.696	B	0.697	B	0.001	No
		3-4 PM	0.668	B	0.669	B	0.001	No
		5-6 PM	0.712	C	0.712	C	0.000	No
12	Mandeville Canyon Rd & Sunset Blvd	AM	0.440	A	0.440	A	0.000	No
		3-4 PM	0.445	A	0.446	A	0.001	No
		5-6 PM	0.330	A	0.330	A	0.000	No
13	Allenford Ave & Sunset Blvd	AM	0.534	A	0.535	A	0.001	No
		3-4 PM	0.611	B	0.611	B	0.000	No
		5-6 PM	0.690	B	0.690	B	0.000	No
14	26th Street & San Vicente Blvd	AM	0.726	C	0.727	C	0.001	No
		3-4 PM	0.761	C	0.761	C	0.000	No
		5-6 PM	0.821	D	0.821	D	0.000	No

NO.	INTERSECTION	PEAK HOUR	EXISTING (2016) SUMMER		EXISTING + PROJECT SUMMER		DELAY INCREASE	SIGNIFICANT IMPACT?
			DELAY (sec.)	LOS	DELAY (sec.)	LOS		
14	26th Street & San Vicente Blvd	AM	46	D	46	D	0	No
		3-4 PM	47	D	47	D	0	No
		5-6 PM	74	E	74	E	0	No

**TABLE 3
MSMU WELLNESS PAVILION PROJECT
FUTURE YEAR (2020) PLUS PROJECT INTERSECTION LEVELS OF SERVICE AND IMPACT ANALYSIS
ALTERNATIVE 5 - SCHOOL YEAR**

NO.	INTERSECTION	PEAK HOUR	FUTURE (2020)		FUTURE (2020) + PROJECT		V/C INCREASE	SIGNIFICANT IMPACT?
			V/C	LOS	V/C	LOS		
1	Cliffwood Ave & Sunset Blvd	AM	0.501	A	0.501	A	0.000	No
		5-6 PM	0.278	A	0.278	A	0.000	No
		6-7 PM	0.214	A	0.214	A	0.000	No
2	Kenter Ave & Sunset Blvd	AM	0.887	D	0.887	D	0.000	No
		5-6 PM	0.624	B	0.624	B	0.000	No
		6-7 PM	0.605	B	0.605	B	0.000	No
3	Bundy Dr & Sunset Blvd	AM	0.629	B	0.629	B	0.000	No
		5-6 PM	1.146	F	1.146	F	0.000	No
		6-7 PM	0.997	E	0.997	E	0.000	No
4	Saltair Ave & Sunset Blvd	AM	0.595	A	0.595	A	0.000	No
		5-6 PM	1.223	F	1.223	F	0.000	No
		6-7 PM	1.076	F	1.076	F	0.000	No
5	Barrington Ave & Sunset Blvd	AM	0.829	D	0.829	D	0.000	No
		5-6 PM	1.517	F	1.517	F	0.000	No
		6-7 PM	1.329	F	1.329	F	0.000	No
3	Church Ln & I-405 SB Ramps	AM	0.532	A	0.532	A	0.000	No
		5-6 PM	0.737	C	0.737	C	0.000	No
		6-7 PM	0.699	B	0.699	B	0.000	No
7	Church Ln & Sunset Blvd	AM	0.802	D	0.802	D	0.000	No
		5-6 PM	0.750	C	0.750	C	0.000	No
		6-7 PM	0.733	C	0.733	C	0.000	No
8	I-405 NB Ramps & Sunset Blvd	AM	0.766	C	0.766	C	0.000	No
		5-6 PM	0.340	A	0.340	A	0.000	No
		6-7 PM	0.342	A	0.342	A	0.000	No
9	N Bundy Dr & San Vicente Blvd	AM	0.675	B	0.675	B	0.000	No
		5-6 PM	0.694	B	0.694	B	0.000	No
		6-7 PM	0.635	B	0.635	B	0.000	No
10	S Bundy Dr & San Vicente Blvd	AM	0.642	B	0.642	B	0.000	No
		5-6 PM	0.619	B	0.619	B	0.000	No
		6-7 PM	0.592	A	0.592	A	0.000	No
11	Bundy Dr & Wilshire Blvd	AM	0.893	D	0.893	D	0.000	No
		5-6 PM	0.856	D	0.856	D	0.000	No
		6-7 PM	0.837	D	0.837	D	0.000	No
12	Mandeville Canyon Rd & Sunset Blvd	AM	0.920	E	0.920	E	0.000	No
		5-6 PM	0.400	A	0.400	A	0.000	No
		6-7 PM	0.369	A	0.369	A	0.000	No
13	Allenford Ave & Sunset Blvd	AM	0.647	B	0.647	B	0.000	No
		5-6 PM	0.555	A	0.555	A	0.000	No
		6-7 PM	0.508	A	0.508	A	0.000	No
14	26th Street & San Vicente Blvd	AM	0.799	C	0.799	C	0.000	No
		5-6 PM	0.837	D	0.837	D	0.000	No
		6-7 PM	0.836	D	0.836	D	0.000	No

NO.	INTERSECTION	PEAK HOUR	FUTURE (2020)		FUTURE (2020) + PROJECT		DELAY INCREASE	SIGNIFICANT IMPACT?
			DELAY (sec.)	LOS	DELAY (sec.)	LOS		
14	26th Street & San Vicente Blvd	AM	61	E	61	E	0	No
		5-6 PM	51	D	51	D	0	No
		6-7 PM	51	D	51	D	0	No

**TABLE 4
MSMU WELLNESS PAVILION PROJECT
FUTURE YEAR (2020) PLUS PROJECT INTERSECTION LEVELS OF SERVICE AND IMPACT ANALYSIS
ALTERNATIVE 5 - SUMMER ANALYSIS**

NO.	INTERSECTION	PEAK HOUR	FUTURE (2020) SUMMER		FUTURE (2020) + PROJECT SUMMER		V/C INCREASE	SIGNIFICANT IMPACT?
			V/C	LOS	V/C	LOS		
1	Cliffwood Ave & Sunset Blvd	AM	0.379	A	0.379	A	0.000	No
		3-4 PM	0.448	A	0.448	A	0.000	No
		5-6 PM	0.271	A	0.271	A	0.000	No
2	Kenter Ave & Sunset Blvd	AM	0.867	D	0.867	D	0.000	No
		3-4 PM	0.838	D	0.840	D	0.002	No
		5-6 PM	0.626	B	0.626	B	0.000	No
3	Bundy Dr & Sunset Blvd	AM	0.547	A	0.597	A	0.050	No
		3-4 PM	0.726	C	0.752	C	0.026	No
		5-6 PM	1.031	F	1.039	F	0.008	No
4	Saltair Ave & Sunset Blvd	AM	0.494	A	0.511	A	0.017	No
		3-4 PM	0.794	C	0.798	C	0.004	No
		5-6 PM	1.237	F	1.239	F	0.002	No
5	Barrington Ave & Sunset Blvd	AM	0.805	D	0.816	D	0.011	No
		3-4 PM	1.002	F	1.011	F	0.009	No
		5-6 PM	1.337	F	1.339	F	0.002	No
6	Church Ln & I-405 SB Ramps	AM	0.497	A	0.509	A	0.012	No
		3-4 PM	0.703	C	0.706	C	0.003	No
		5-6 PM	0.724	C	0.725	C	0.001	No
7	Church Ln & Sunset Blvd	AM	0.810	D	0.829	D	0.019	No
		3-4 PM	0.718	C	0.720	C	0.002	No
		5-6 PM	0.693	B	0.693	B	0.000	No
8	I-405 NB Ramps & Sunset Blvd	AM	0.755	C	0.759	C	0.004	No
		3-4 PM	0.400	A	0.405	A	0.005	No
		5-6 PM	0.350	A	0.351	A	0.001	No
9	N Bundy Dr & San Vicente Blvd	AM	0.560	A	0.564	A	0.004	No
		3-4 PM	0.685	B	0.687	B	0.002	No
		5-6 PM	0.696	B	0.696	B	0.000	No
10	S Bundy Dr & San Vicente Blvd	AM	0.567	A	0.569	A	0.002	No
		3-4 PM	0.654	B	0.655	B	0.001	No
		5-6 PM	0.621	B	0.621	B	0.000	No
11	Bundy Dr & Wilshire Blvd	AM	0.877	D	0.877	D	0.000	No
		3-4 PM	0.850	D	0.851	D	0.001	No
		5-6 PM	0.847	D	0.847	D	0.000	No
12	Mandeville Canyon Rd & Sunset Blvd	AM	0.473	A	0.473	A	0.000	No
		3-4 PM	0.480	A	0.480	A	0.000	No
		5-6 PM	0.358	A	0.358	A	0.000	No
13	Allenford Ave & Sunset Blvd	AM	0.572	A	0.572	A	0.000	No
		3-4 PM	0.652	B	0.652	B	0.000	No
		5-6 PM	0.734	C	0.734	C	0.000	No
14	26th Street & San Vicente Blvd	AM	0.787	C	0.788	C	0.001	No
		3-4 PM	0.828	D	0.828	D	0.000	No
		5-6 PM	0.873	D	0.873	D	0.000	No

NO.	INTERSECTION	PEAK HOUR	FUTURE (2020) SUMMER		FUTURE (2020) + PROJECT SUMMER		DELAY INCREASE	SIGNIFICANT IMPACT?
			DELAY (sec.)	LOS	DELAY (sec.)	LOS		
14	26th Street & San Vicente Blvd	AM	53	D	54	D	1	No
		3-4 PM	48	D	48	D	0	No
		5-6 PM	0.870	F	0.870	F	0	No