

LAW & GREENSPAN engineers

PARKING DEMAND ANALYSIS

2ND + PCH PROJECT

Long Beach, California April 10, 2017

Engineers & Planners
Traffic
Transportation
Parking

April 10, 2017

Mr. Stephanie Eyestone-Jones Eyestone Environmental 6701 Center Drive West, Suite 900 Los Angeles, CA 90045

LLG Reference: 2.16.3779.1

Subject:

Parking Demand Analysis for

2nd + PCH Project Long Beach, California

Dear Mr. Eyestone-Jones:

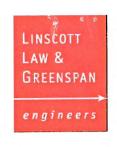
As requested, Linscott, Law, & Greenspan, Engineers (LLG) is pleased to submit this Parking Demand Analysis for the 2nd + PCH Project (hereinafter referred to as Project), a proposed mixed-use shopping center that will be is located at the southwest corner of 2nd Street and Pacific Coast Highway in the City of Long Beach.

The proposed Project is expected to redevelop 10.77-acres with a 245,000 SF mixed use center, consisting of 95,000 SF of retail uses, a 55,000 SF grocery store, a 25,000 SF fitness/health club, and 70,000 SF of restaurant uses consisting of 40,000 SF of full service dining, 25,000 SF of high-turnover restaurant/fast-food uses and 5,000 SF of ready to eat/take-out food. The Project would provide a total of 1,150 parking spaces within two main parking structures, including a second-level parking deck above some the single-story uses.

A parking study has been required by the City of Long Beach to evaluate the parking requirements and operational needs of the center at future full occupancy. This report evaluates those needs based on application of City code, and further application of the Urban Land Institute's (ULI) *Shared Parking* methodology.

Our method of analysis, findings, and recommendations are detailed in the following sections of this report. Briefly, we find the following:

- The proposed parking supply on the site totals 1,150 spaces.
- A "code" calculation for full occupancy levels of individual uses upon completion of the Project requires 1,225 spaces, resulting in a theoretical deficiency of 75 spaces.
- Also assuming full future occupancy upon completion of the Project a shared parking analysis using City code ratios along with ULI parking profiles yields



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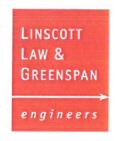
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a peak weekday parking demand of 1,131 spaces that when compared to the 1,150 provided spaces results in a surplus of 19 spaces; the weekend peak parking demand totals 1,134 spaces, which results in a surplus of 16 spaces.

- The proposed mix of site uses clearly support the basis for application of the shared parking methodology.
- Consequently, it is concluded that there is adequate parking on site to accommodate the proposed tenant mix of the Project.

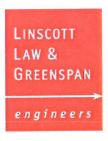
PROJECT LOCATION AND DESCRIPTION

The proposed Project site is a 10.77-acre parcel of land located at 6400 East Pacific Coast Highway in the City of Long Beach, California. The project site is currently occupied primarily by the 248-room Seaport Marina Hotel. Based on information provided by the hotel operator, the existing Seaport Marina Hotel currently has 170 rooms in operation out of a possible 248 rooms. Access to the subject property is now provided by a right-turn only driveway and a full access driveway on Pacific Coast Highway, a right-turn only driveway on 2nd Street, and three driveways on Marina Drive that are limited to right-turn only movements.

The proposed Project is expected to redevelop the 10.77-acre site at 6400 East Pacific Coast Highway. According to information provided by Eyestone Environmental and the City of Long Beach, the project site is designated as Land Use District (LUD) No. 7, Mixed Use District, by the City's General Plan and is zoned as Subarea 17 within Planned Development District 1 (PD-1), Southeast Area Development and Improvement Plan (SEADIP). Per the City's General Plan, LUD No.7 uses included development of employment centers, inclusive of retail/commercial uses like that of the proposed Project and hence is consistent with the General Plan land use designation for the subject property. The SEADIP identifies commercial uses within Subarea 17, and with the exception of the general developments provisions applicable to the entire development area, does not include specific development and use standards for Subarea 17.

Figure 1, located at the rear of this letter report, presents a Vicinity Map, which illustrates the general location of the Project site in the context of the surrounding

The SEADIP states that Subarea 17 is fully developed in accordance with the Retail Center (CR) zone. Based on modifications for the City's Zoning Regulations, the CR zone now corresponds to the City's Community Commercial Automobile-Oriented (CCA) District. In accordance with the Long Beach Municipal Code, uses allowed in the CCA District include retail and service uses for an entire community, such as convenience and comparison shopping goods and associated services.



street system. *Figures 2A* and *2B* present level one and level two of the proposed Project, respectively.

Table 1, located at the end of this letter report, following the figures, summarizes the proposed development totals. A review of *Table 1* indicates that the proposed Project include the construction of up to 245,000 square feet (SF) of retail/commercial floor area, including 95,000 SF of retail uses, a 55,000 SF grocery store, a 25,000 SF fitness/health club, and 70,000 SF of restaurant/food uses consisting of 40,000 SF of full service dining, 25,000 SF of high-turnover restaurant/fast-food uses and 5,000 SF of ready to eat/take-out food uses. The Project would provide a total of 1,150 parking spaces within two main parking structures, including a second-level parking deck above some the single-story uses.

PARKING SUPPLY-DEMAND ANALYSIS

This parking analysis for 2^{nd} + PCH involves determining the expected parking needs, based on the size and type of proposed development components, versus the parking supply. In general, there are several methods that can be used to estimate the site's peak parking needs. The methods used in this analysis include:

- Application of City code requirements (which typically treats each tenancy type as a "stand alone" use at maximum demand).
- Application of shared parking usage patterns by time-of-day (which recognizes that the parking demand for each tenancy type varies by time of day and day of week). The shared parking analysis starts with a code calculation for each tenancy type.

The shared parking methodology is concluded to be applicable to a development such as the 2^{nd} + PCH because the individual land use types (i.e., retail, grocery store, food, fitness, etc.) experience peak demands at different times of the day.

CITY CODE PARKING REQUIREMENT

The code parking calculation for the Project is based on the City of Long Beach requirements as outlined in *Chapter 21.41 – Off-Street Parking and Loading Requirements* of the Municipal Code. The City's Municipal Code specifies the following parking requirement for the Project:



Retail (community, regional or neighborhood shopping center): 5 spaces per 1,000 SF plus parking for a detached fast-food restaurant calculated separately. However, shopping centers greater than 150,000 square feet in size may receive approval of a lower parking ratio pursuant to Section 21.41.219

Based on the review of the proposed site plan and the proposed tenant mix, the Project fits the city's definition of "community, regional or neighborhood shopping center". Therefore, a parking ratio of 5 spaces per 1,000 SF has been applied to Project's development totals. *Table 2* presents the "code" parking requirements for the proposed development. As shown, the application of City parking ratios to the proposed Project results in a total parking requirement of 1,225 parking spaces. With a proposed parking supply of 1,150 spaces, a theoretical code shortfall of 75 spaces is indicated.

However, the specific tenancy mix of the Project provides an opportunity to share parking spaces based on the utilization profile of each included land use component. The following section calculates the parking requirements for the Project based on the shared parking methodology approach.

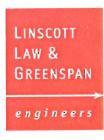
SHARED PARKING ANALYSIS

According to the Urban Land Institute's (ULI's) *Shared Parking* 2nd Edition publication, shared parking is defined as parking space that can be used to serve two or more individual land uses without conflict or encroachment. The ULI *Shared Parking* publication provides hourly parking accumulation rates for retail and restaurant uses, as well as other uses to include health club, office, cinema, hotel, etc. expressed as a percentage of the peak demand for the day.

Shared Parking Methodology

Accumulated experience in parking demand characteristics indicates that a mixing of land uses results in an overall parking need that is less than the sum of the individual peak requirements for each land use. Due to the proposed mixed-use characteristics of the proposed Project, opportunities to share parking can be expected with future full occupancy. The objective of this shared parking analysis is to forecast the peak parking requirements for the Project based on the combined demand patterns of different tenancy types at the site.

Shared parking calculations recognize that different uses often experience individual peak parking demands at different times of day, or days of the week. When uses



share common parking footprints, the total number of spaces needed to support the collective whole is determined by adding parking profiles (by time of day for weekdays versus weekend days), rather than individual peak ratios as represented in the City's Municipal Code. In that way, the shared parking approach starts from the City's own code ratios and results in the "design level" parking supply needs of a site.

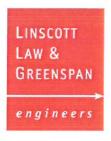
It should be noted that the "demand" results of the shared parking calculation are intended to be used directly for comparison to site supply. No further adjustments or contingency additions are needed because such contingencies are already built into the peak parking ratios and time of day profiles used in the calculation.

There is an important common element between the traditional "code" and the shared parking calculation methodologies; the peak parking ratios or "highpoint" for each land use's parking profile typically equals the "code" parking ratio for that use. The analytical procedures for shared parking analyses are well documented in the *Shared Parking*, 2nd Edition publication by the Urban Land Institute (ULI).

Shared parking calculations for the proposed Project utilize hourly parking accumulations developed from field studies of single developments in free-standing settings, where travel by private auto is maximized. These characteristics permit the means for calculating peak parking needs when land use types are combined. Further, the shared parking approach illustrates how, at other than peak parking demand times, an increasing surplus of spaces will service the overall needs of the center.

Key inputs in the shared parking analysis for each land use include:

- Peak parking demand by land use for visitors and employees.
- Adjustments for alternative modes of transportation, if applicable.
- Adjustment for internal capture (captive versus non-captive parking demand), if applicable.
- Hourly variations of parking demand.
- Weekday versus weekend adjustment factors
- Monthly adjustment factors to account for variations of parking demand over the year.
- City of Long Beach Ratios per Chapter 21.41 Off-Street Parking and Loading Requirements of the City's Municipal Code.



For this analysis, parking adjustments to account for (1) "walk-in/internal capture" trips attributable to synergy between uses within the Project, and (2) alternative modes of travel (i.e. carpool, vanpool, transit, bicycle, pedestrian) were not utilized to provide a conservative parking demand forecast for the proposed Project. Further yet, no monthly adjustment factors to account for variations of parking demand over the year were applied.

Shared Parking Ratios and Profiles

The hourly parking demand profiles (expressed in percent of peak demand) utilized in this analysis and applied to proposed Project are based on profiles developed by the Urban Land Institute (ULI) and published in *Shared Parking*, 2nd Edition. The ULI publication presents hourly parking demand profiles for several general land use categories, inclusive of the following five (5): retail, fine/casual dining, fast-food restaurant, family restaurant and health club. These profiles of parking demand have been used directly, by land use type, in the analysis of this site. Please note that the profile for retail was applied to the grocery store use, while the family restaurant profile was applied to the ready-to-eat restaurant use.

One of the primary components for proposed Project is retail space; the ULI retail use profiles are applied directly. In doing so, there is an intermediate step in expressing ULI profiles as a percentage of the week-long peak, thus arriving at a weekday profile and weekend profile each expressed as a percentage of the baseline parking ratio (ULI actually starts with separate ratios for weekday and weekend day, and develops profiles for each accordingly; we've found it more convenient to translate both profiles to a percent of expected maximum demand, which, for retail, turns out to be on a Saturday). The resulting profiles represent the most likely hourly parking demand profile, and are applied to the City's retail parking ratio of 4 spaces per 1000 SF of GFA. Peak demand for retail uses occurs between 1:00 PM–2:00 PM on weekdays, and 2:00 PM–4:00 PM on weekends.

The ULI Shared Parking publication includes several categories for restaurants. For this analysis, the parking profile for fine/casual dining restaurant, family restaurant and fast-food restaurant were all utilized as each of the categories match the proposed restaurant tenant mix of the Project. Per ULI, fine dining restaurants are distinguished by several characteristics to include more leisurely dining, with a lower turnover and higher price points; reservations are typically accepted. Few serve breakfast, and some may or may not serve lunch. Some include a lounge or bar area. Casual dining facilities are moderately priced and general do not accept reservations; they commonly serve lunch and dinner, and may serve breakfast. The typical length of



stay is about an hour. Family restaurants are typically lower priced, do not accept reservations, and lack bars or lounges, although some may serve bottled beer or wine with meals (ITE calls the High-Turnover Restaurants without Bars). Many serve breakfast as well as lunch and dinner, and many offer both carryout and dine-in options. Examples include cafeteria-style restaurants, pancake houses and moderately-priced ethnic restaurants.

Like the retail profiles, the restaurant profiles are derived exactly from the ULI baseline. The restaurant-parking ratio utilized in this analysis exactly matches the City code rate of 10 spaces per 1000 SF of floor area for those tenants where food consumption is primarily on-site. According to the *Shared Parking* publication, casual/fining dining restaurant uses are shown to experience peak demand between 7:00 PM and 10:00 PM on weekdays, and 8:00 PM and 9:00 PM on weekends, whereas a family restaurant use peak demand occurs between 12:00 PM and 1:00 PM on weekdays and weekends.

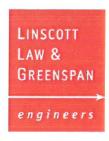
The fast-food restaurant profile, as contained in the ULI Shared Parking publication, was utilized in this analysis to estimate the hourly parking demand of the Ready To Eat/Take Out food uses. To estimate the parking demand for these uses, a parking ratio of 4 spaces per 100 SF (which matches City code) is utilized for those tenants/uses where food consumption is primarily away from the premises. For fast-food uses peak demand occurs between 12:00 PM and 2:00 PM on weekdays and weekends.

The health club profiles were also directly derived from ULI. For health clubs, the peak demand occurs between 6:00 PM - 7:00 PM on weekdays and 5:00 PM - 6:00 PM on weekends. To estimate the parking demand for the proposed Project, a parking ratio of five spaces plus 4 spaces per 1,000 SF (which matches City code) is utilized.

Application of Shared Parking Methodology

Tables 3 and 4 presents the weekday and weekend parking demand profiles for the proposed Project based on the shared parking methodology, assuming full occupancy of the proposed tenant mix.

Review of *Tables 3* and 4 indicates that the future full occupancy weekday peak parking demands will occur at 7:00 PM with peak demands of 1,131 spaces. Based on the existing parking supply of 1,150 spaces, the peak demand hours on a weekday will yield a surplus of 19 spaces. On a weekend the peak parking demand will occur at 6:00 PM with a peak demand of 1,134 spaces resulting in a surplus of 16 spaces.



Figures 3 and 4 graphically illustrate the weekday and weekend hourly parking demand forecast for the Project, respectively. Each land use component and its corresponding hourly Shared Parking demand for various mixes of uses, which were presented in Tables 3 and 4, are depicted in these two figures relative to a shared parking supply of 1,150 spaces. A review of these figures indicate that the Project's proposed parking supply of 1,150 spaces will adequately accommodate the proposed Project's weekday and weekend hourly shared parking demand for all morning, midday, afternoon and evening hours.

Therefore, we conclude that there is adequate parking on site to accommodate the Project's proposed tenant mix. Based on LLG's experience, the results presented as part of the share parking assessment represent the most pragmatic approach to future parking conditions.

PARKING MANAGEMENT PLAN

This Parking Management Plan (PMP) outlines the proposed allocation of parking supply on site and key parking management strategies to maximize the availability of parking for customers and employees of the retail center component and medical plaza component of the proposed $2^{nd} + PCH$ Project.

As noted above, the results of the shared parking analysis for the Project indicates that the proposed parking supply of 1,150 spaces will be sufficient to accommodate the peak parking demand of a 245,000 SF mixed-use shopping center with the following mix of uses/tenants:

- □ 95,000 SF of retail shop space,
- □ 55,000 SF grocery store
- □ 40,000 SF of fine/casual dining restaurant uses.
- □ 25,000 SF of high-turnover/family restaurants uses,
- □ 5,000 SF of ready to eat/take-out food uses, and
- □ 25,000 SF health/fitness club space,

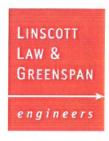


PMP measures

Specific PMP measures relative to the employee parking operation and short-term parking for customers are described below, and were developed based on the following objectives:

- The PMP should identify where the employees park within the site. Approximately 200 to 220 spaces will be required to accommodate the parking demand of employees of the retail center during the weekday and weekend peak hours.
- The PMP should identify where location of short-term parking spaces for service retail uses and/or food uses (take-out/curb side service, etc.).
- 1. Centercal Properties, LLC work with tenants of the retail center to implement an employee parking program, with the goal of providing convenient and accessible shopping experience for the customers of the retail center and to leave the most desirable parking spaces within the parking structure for use by customers. The location of designated employee parking spaces will be developed in collaboration between Centercal Properties, LLC and the tenants. The employee parking spaces will be identified with a white or yellow circle. It is noted that these spaces will be open for customer use.
- 2. Centercal Properties, LLC will work with tenants of the retail center to identify the need for "short term/time restricted spaces" on an as need basis, dependent on the needs of the proposed retail and/or food use. The short-term spaces may be used for "curbside/take out" and/or for service retail-type users. The number and location of spaces will be determined by Centercal Properties, LLC and the potential tenants.

Centercal Properties, LLC will work closely with the tenants to insure that both employees and property management work together to provide the best shopping experience for the customers, as well as allowing the most desirable parking spaces to be accessed by the customers rather than the employees.



SUMMARY OF FINDINGS AND CONCLUSIONS

- 1. The Project includes development of 245,000 square feet (SF) of retail/commercial floor area, including 95,000 SF of retail uses, a 55,000 SF grocery store, a 25,000 SF fitness/health club, and 70,000 SF of restaurant uses consisting of 40,000 SF of full service dining, 25,000 SF of high-turnover restaurant/fast-food uses and 5,000 SF of ready to eat/take-out food. The Project would provide a total of 1,150 parking spaces within two main parking structures, including a second-level parking deck above some the single-story uses.
- 2. Direct application of City parking codes to the proposed tenant mix results in a total parking requirement of 1,225 parking spaces. With a proposed parking supply of 1,150 spaces, a code deficiency of 75 spaces is calculated.
- 3. Given the mix of center tenancies, a shared parking analysis has been prepared and indicates that the proposed parking supply for the Project will be sufficient to meet the projected peak parking demands of the proposed uses. The weekday scenario results in a minimum surplus of 19 spaces, while the weekend scenario results in a minimum surplus of 16 spaces.

* * * * * * * * * *

We appreciate the opportunity to prepare this analysis for the proposed 2nd + PCH Project. Should you have any questions or need additional assistance, please do not hesitate to call Shane Green or me at (949) 825-6175.

Very truly yours,

Linscott, Law & Greenspan, Engineers

Richard E. Barretto, P.E.

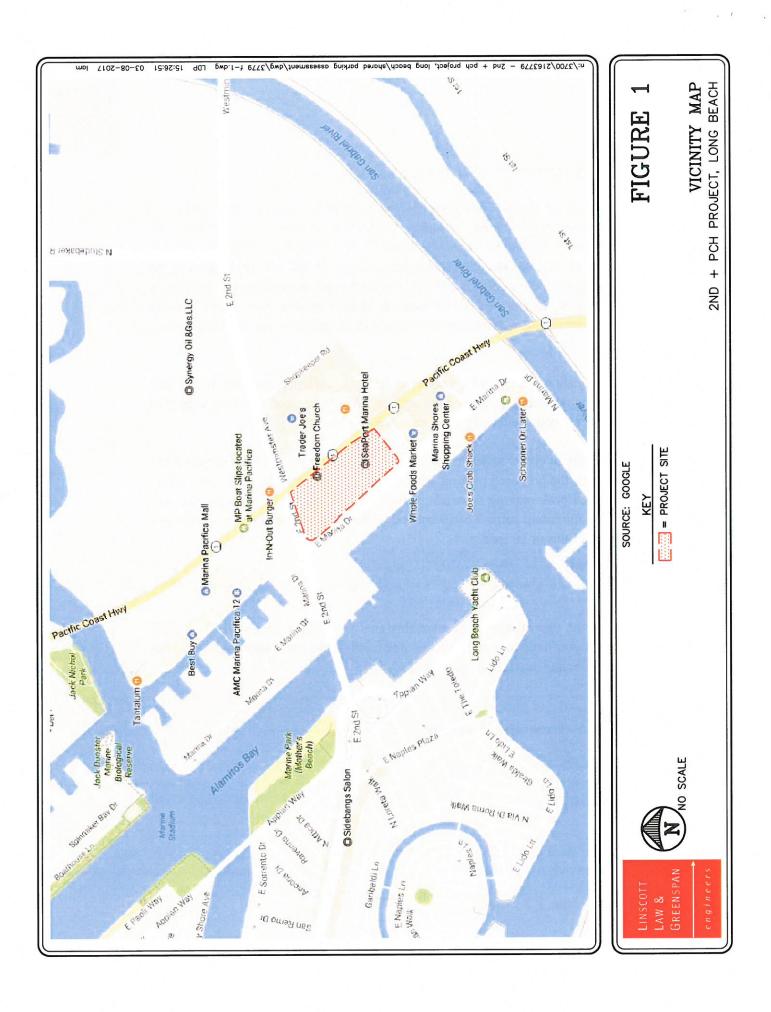
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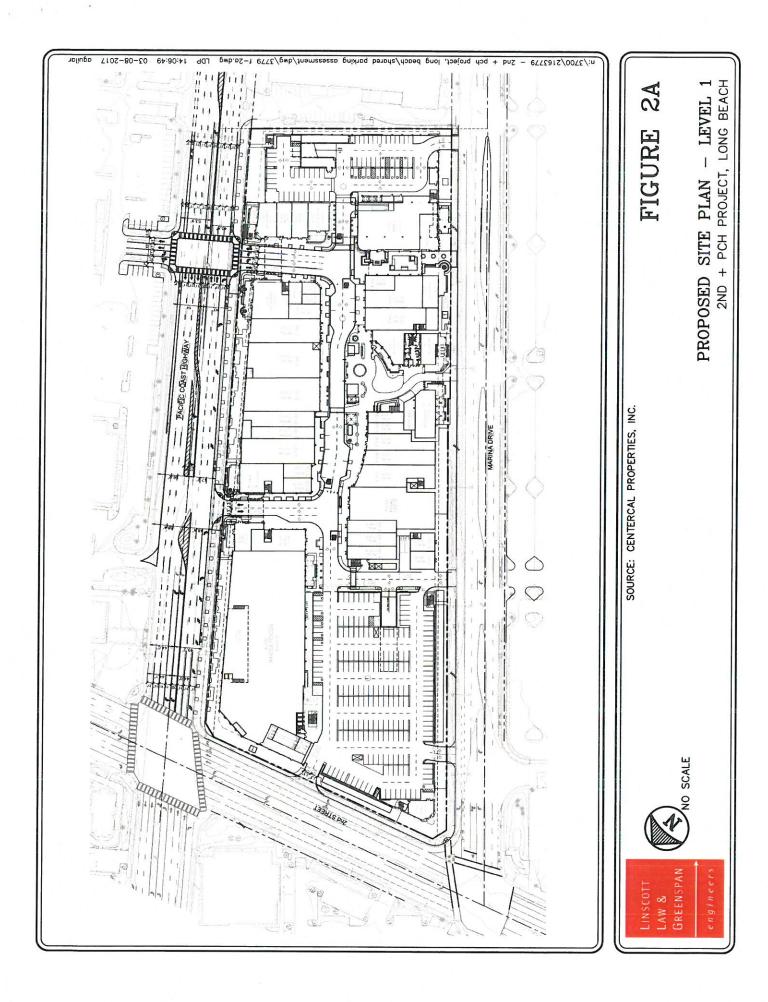
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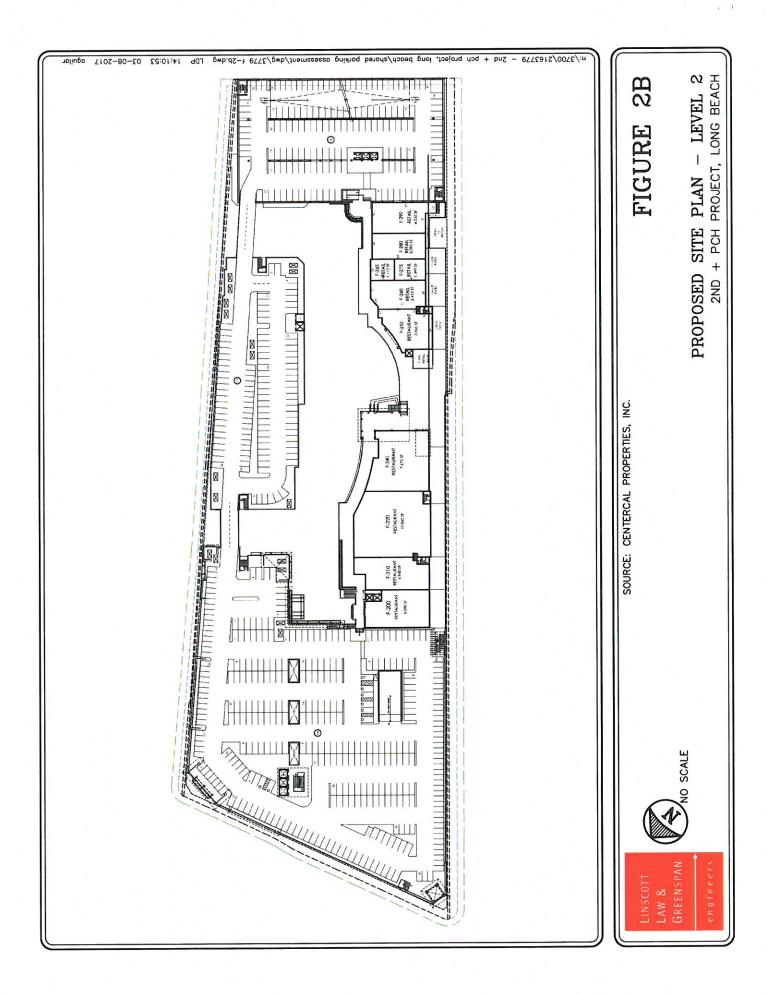
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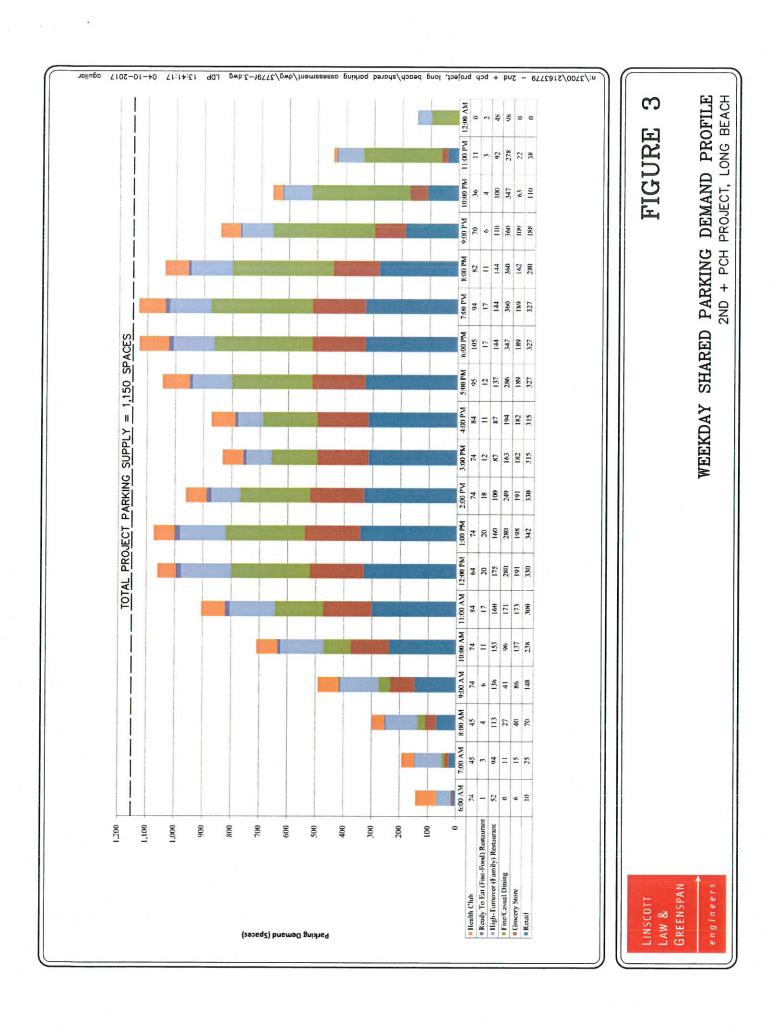
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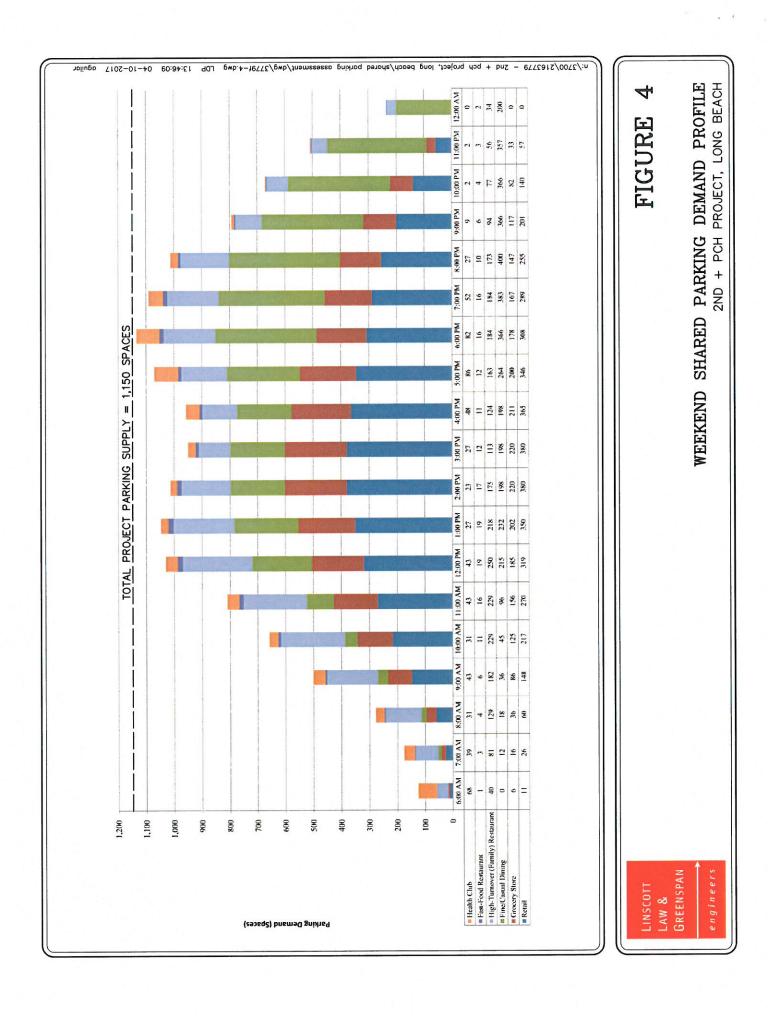
Shane S. Green, P.E., LLG











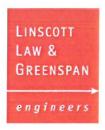


TABLE 1 PROJECT DEVELOPMENT SUMMARY² 2ND + PCH PROJECT, LONG BEACH

La	nd Use / Project Description	Project Development Totals
La	nd Use / Project Description	Gross Floor Area (SF)
	Retail Sales	95,000 SF
	Grocery Store	55,000 SF
	Restaurant - Full Service	40,000 SF
	Restaurant - Fast Food/High-Turnover	25,000 SF
	Restaurant – Ready To Eat/Take Out	5,000 SF
	Fitness/Health Club	25,000 SF
To	tal Floor Area (Maximum)	245,000 SF
	Parking Supply	1,150 spaces

Source: Eyestone Environmental

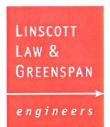


TABLE 2 CITY CODE PARKING REQUIREMENTS³ 2ND + PCH PROJECT, LONG BEACH

	Land Use	Square-fee Gross Floor (SF – GF	Area	City of Long Beach Code Parking Ratio	Spaces Required
Pro	pposed Tenant Mix			Community, Regional or Neighborhood Shopping Centers	
	Retail Sales	95,000	SF	5 space per 1,000 SF of GFA	475
_	Grocery Store	55,000	SF	5 space per 1,000 SF of GFA	275
0	Restaurant – Full Service	40,000	SF	5 space per 1,000 SF of GFA	200
_	Restaurant – Fast Food/High- Turnover	25,000	SF	5 space per 1,000 SF of GFA	125
-	$\label{eq:Restaurant-Ready} \begin{array}{l} Restaurant-Ready\ To\ Eat/Take-Out \end{array}$	5,000	SF	5 space per 1,000 SF of GFA	25
0	Fitness/Health Club	25,000	SF	5 space per 1,000 SF of GFA	125
				Total	1,225
	Total Floor Area	245,000	SF	Total Code Parking Requirement:	1,225
				Proposed Parking Supply:	1,150
				Parking Surplus/Deficiency (+/-):	-75

Source: City of Long Beach Municipal Code, Chapter 21.41 – Off-Street Parking and Loading Requirements.



TABLE 3

WEEKDAY SHARED PARKING DEMAND ANALYSIS⁴

2ND + PCH PROJECT, LONG BEACH

		_			_		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_
		Comparison w/	Parking Supply	1150 Spaces	Surplus	(Deficiency)	1,007	957	851	659	441	245	06	76	188	317	277	104	21	19	111	307	490	706	1,002
				Shared	Parking	Demand	143	193	299	491	602	905	1,060	1,074	962	833	873	1,046	1,129	1,131	1,039	843	099	444	148
Health Club	25.000 KSF	5 sp + 4 /KSF	105 Spc.		Number of	Spaces	74	45	45	74	74	84	64	74	74	74	84	95	105	94	82	70	36	11	0
Ready To Eat (Fast- Food) Restaurant	5.000 KSF	4 /KSF	20 Spc.		Number of	Spaces	1	3	4	9	11	17	20	20	18	12	11	12	17	17	11	9	4	3	2
High-Turnover (Family) Restaurant	25.000 KSF	10 /KSF	250 Spc.		Number of	Spaces	52	94	113	136	153	160	175	160	100	87	87	137	144	144	144	110	100	92	48
Fine/Casual Dining	40.000 KSF	10 /KSF	400 Spc.		Number of	Spaces	0	11	27	41	96	171	280	280	249	163	194	286	347	360	360	360	347	278	86
Grocery Store	55.000 KSF	4 /KSF	220 Spc.		Number of	Spaces	6	15	40	86	137	173	191	198	191	182	182	189	189	189	162	109	63	22	0
Retail	95.000 KSF	4 /KSF	380 Spc.		Number of	Spaces	10	25	70	148	238	300	330	342	330	315	315	327	327	327	280	188	110	38	0
Land Use	Size	Pkg Rate[1]	Gross	Spaces		Time of Day	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM	12:00 AM

Notes:

[1] Parking rates for all land uses based on City code.

Source: ULI - Urban Land Institute "Shared Parking," Second Edition, 2005.

engineers

TABLE 4

WEEKEND SHARED PARKING DEMAND ANALYSIS⁵

2ND + PCH PROJECT, LONG BEACH

		_							_											-		_	_	-	
		Comparison w/	Parking Supply	1150 Spaces	Surplus	(Deficiency)	1,024	973	872	649	492	340	119	102	137	200	193	79	16	59	138	357	479	642	914
				Shared	Parking	Demand	126	177	278	501	859	810	1,031	1,048	1,013	950	957	1,071	1,134	1,091	1,012	793	671	508	236
Health Club	25.000 KSF	5 sp + 4 /KSF	105 Spc.		Number of	Spaces	89	39	31	43	31	43	43	27	23	27	48	86	82	52	27	6	2	2	0
Ready To Eat (Fast- Food) Restaurant	5.000 KSF	4 /KSF	20 Spc.		Number of	Spaces	1	3	4	9	11	16	19	19	17	12	11	12	16	16	10	9	4	3	2
High-Turnover (Family) Restaurant	25.000 KSF	10 /KSF	250 Spc.		Number of	Spaces	40	81	129	182	229	229	250	218	175	113	124	163	184	184	173	94	77	56	34
Fine/Casual Dining	40.000 KSF	10 /KSF	400 Spc.		Number of	Spaces	0	12	18	36	45	96	215	232	861	198	861	264	366	383	400	366	366	357	200
Grocery Store	55.000 KSF	4 /KSF	220 Spc.		Number of	Spaces	9	16	36	98	125	156	185	202	220	220	211	200	178	167	147	117	82	33	0
Retail	95.000 KSF	4 /KSF	380 Spc.		Number of	Spaces	11	26	09	148	217	270	319	350	380	380	365	346	308	289	255	201	140	57	0
Land Use	Size	Pkg Rate[1]	Gross	Spaces		Time of Day	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM	12:00 AM

Notes

[1] Parking rates for all land uses based on City code.

Source: ULI - Urban Land Institute "Shared Parking," Second Edition, 2005.

APPENDIX
SHARED PARKING DEMAND WORKSHE

SHOPPING CENTER (TYPICAL DAYS) WEEKDAY SHARED PARKING DEMAND ANALYSIS [1]

Land Use		Shopping	g Center (Typic	cal Days)		
Size		95.000	KSF			
Pkg Rate[2]		4	/KSF			
Mode Adjust		1.00		1.00		
Non-Captive Ra	tio	1.00		1.00		
Gross						
Spaces	306	Guest Spc.	74	Emp. Spc.	Shared	
Time	% Of	# Of	% Of	# Of	Parking	
of Day	Peak [3]	Spaces	Peak [3]	Spaces	Demand	
6:00 AM	1%	3	9%	7	10	
7:00 AM	5%	15	14%	10	25	
8:00 AM	14%	43	36%	27	70	
9:00 AM	32%	98	68%	50	148	
10:00 AM	59%	181	77%	57	238	
11:00 AM	77%	236	86%	64	300	
12:00 PM	86%	263	90%	67	330	
1:00 PM	90%	275	90%	67	342	
2:00 PM	86%	263	90%	67	330	
3:00 PM	81%	248	90%	67	315	
4:00 PM	81%	248	90%	67	315	
5:00 PM	86%	263	86%	64	327	
6:00 PM	86%	263	86%	64	327	
7:00 PM	86%	263	86%	64	327	
8:00 PM	72%	220	81%	60	280	
9:00 PM	45%	138	68%	50	188	
10:00 PM	27%	83	36%	27	110	
11:00 PM	9%	28	14%	10	38	
12:00 AM	0%	0	0%	0	0	

- [1] Source: ULI Urban Land Institute "Shared Parking," Second Edition, 2005.
- [2] Parking rates for all land uses based on City code.
- [3] Percentage of peak parking demand factors reflect relationships between weekday parking demand ratios and peak parking demand ratios, as summarized in Table 2-2 of the "Shared Parking" manual.

SHOPPING CENTER (TYPICAL DAYS) WEEKEND SHARED PARKING DEMAND ANALYSIS [1]

Land Use		Shopping	g Center (Typi	cal Days)			
Size		95.000	KSF				
Pkg Rate[2]		4	/KSF				
Mode Adjust		1.00		1.00			
Non-Captive Ra	tio	1.00		1.00			
Gross		380	Spaces				
Spaces	304	Guest Spc.	76	Emp. Spc.	Shared		
Time	% Of	# Of	% Of	# Of	Parking		
of Day	Peak [3]	Spaces	Peak [3]	Spaces	Demand		
6:00 AM	1%	3	10%	8	11		
7:00 AM	5%	15	15%	11	26		
8:00 AM	10%	30	40%	30	60		
9:00 AM	30%	91	75%	57	148		
10:00 AM	50%	152	85%	65	217		
11:00 AM	65%	198	95%	72	270		
12:00 PM	80%	243	100%	76	319		
1:00 PM	90%	274	100%	76	350		
2:00 PM	100%	304	100%	76	380		
3:00 PM	100%	304	100%	76	380		
4:00 PM	95%	289	100%	76	365		
5:00 PM	90%	274	95%	72	346		
6:00 PM	80%	243	85%	65	308		
7:00 PM	75%	228	80%	61	289		
8:00 PM	65%	198	75%	57	255		
9:00 PM	50%	152	65%	49	201		
10:00 PM	35%	106	45%	34	140		
11:00 PM	15%	46	15%	11	57		
12:00 AM	0%	0	0%	0	0		

- [1] Source: ULI Urban Land Institute "Shared Parking," Second Edition, 2005.
- [2] Parking rates for all land uses based on City code.
- [3] Percentage of peak parking demand factors reflect relationships between weekday parking demand ratios and peak parking demand ratios, as summarized in Table 2-2 of the "Shared Parking" manual.

GROCERY STORE - SHOPPING CENTER (TYPICAL DAYS) WEEKDAY SHARED PARKING DEMAND ANALYSIS [1]

Land Use	Gro	cery Store - S	Shopping Cente	er (Typical Day	/s)	
Size		55.000	KSF			
Pkg Rate[2]		4	/KSF			
Mode Adjust		1.00	311	1.00		
Non-Captive Ra	tio	1.00		1.00		
Gross						
Spaces	177	Guest Spc.	43	Emp. Spc.	Shared	
Time	% Of	# Of	% Of	# Of	Parking	
of Day	Peak [3]	Spaces	Peak [3]	Spaces	Demand	
6:00 AM	1%	2	9%	4	6	
7:00 AM	5%	9	14%	6	15	
8:00 AM	14%	25	36%	15	40	
9:00 AM	32%	57	68%	29	86	
10:00 AM	59%	104	77%	33	137	
11:00 AM	77%	136	86%	37	173	
12:00 PM	86%	152	90%	39	191	
1:00 PM	90%	159	90%	39	198	
2:00 PM	86%	152	90%	39	191	
3:00 PM	81%	143	90%	39	182	
4:00 PM	81%	143	90%	39	182	
5:00 PM	86%	152	86%	37	189	
6:00 PM	86%	152	86%	37	189	
7:00 PM	86%	152	86%	37	189	
8:00 PM	72%	127	81%	35	162	
9:00 PM	45%	80	68%	29	109	
10:00 PM	27%	48	36%	15	63	
11:00 PM	9%	16	14%	6	22	
12:00 AM	0%	0	0%	0	0	

- [1] Source: ULI Urban Land Institute "Shared Parking," Second Edition, 2005.
- [2] Parking rates for all land uses based on City code.
- [3] Percentage of peak parking demand factors reflect relationships between weekday parking demand ratios and peak parking demand ratios, as summarized in Table 2-2 of the "Shared Parking" manual.

GROCERY STORE - SHOPPING CENTER (TYPICAL DAYS) WEEKEND SHARED PARKING DEMAND ANALYSIS [1]

Land Use	Gr	ocery Store - S	Shopping Cent	er (Typical Da	ys)
Size		55.000	KSF		
Pkg Rate[2]		4	/KSF		
Mode Adjust		1.00		1.00	
Non-Captive Ra	tio	1.00	The second secon	1.00	
Gross		220	Spaces		
Spaces	176	Guest Spc.	44	Emp. Spc.	Shared
Time	% Of	# Of	% Of	# Of	Parking
of Day	Peak [3]	Spaces	Peak [3]	Spaces	Demand
6:00 AM	1%	2	10%	4	6
7:00 AM	5%	9	15%	7	16
8:00 AM	10%	18	40%	18	36
9:00 AM	30%	53	75%	33	86
10:00 AM	50%	88	85%	37	125
11:00 AM	65%	114	95%	42	156
12:00 PM	80%	141	100%	44	185
1:00 PM	90%	158	100%	44	202
2:00 PM	100%	176	100%	44	220
3:00 PM	100%	176	100%	44	220
4:00 PM	95%	167	100%	44	211
5:00 PM	90%	158	95%	42	200
6:00 PM	80%	141	85%	37	178
7:00 PM	75%	132	80%	35	167
8:00 PM	65%	114	75%	33	147
9:00 PM	50%	88	65%	29	117
10:00 PM	35%	62	45%	20	82
11:00 PM	15%	26	15%	7	33
12:00 AM	0%	0	0%	0	0

- [1] Source: ULI Urban Land Institute "Shared Parking," Second Edition, 2005.
- [2] Parking rates for all land uses based on City code.
- [3] Percentage of peak parking demand factors reflect relationships between weekday parking demand ratios and peak parking demand ratios, as summarized in Table 2-2 of the "Shared Parking" manual.

FINE/CASUAL DINING WEEKDAY SHARED PARKING DEMAND ANALYSIS [1]

Land Use		Fir	ne/Casual Dini	ng		
Size	700	40.000	KSF			
Pkg Rate[2]		10	/KSF	and the second second		
Mode Adjust		1.00		1.00		
Non-Captive Ra	itio	1.00	1.00			
Gross						
Spaces	339	Guest Spc.	61	Emp. Spc.	Shared	
Time	% Of	# Of	% Of	# Of	Parking	
of Day	Peak [3]	Spaces	Peak [3]	Spaces	Demand	
6:00 AM	0%	0	0%	0	0	
7:00 AM	0%	0	18%	11	11	
8:00 AM	0%	0	45%	27	27	
9:00 AM	0%	0	68%	41	41	
10:00 AM	14%	47	81%	49	96	
11:00 AM	36%	122	81%	49	171	
12:00 PM	68%	231	81%	49	280	
1:00 PM	68%	231	81%	49	280	
2:00 PM	59%	200	81%	49	249	
3:00 PM	36%	122	68%	41	163	
4:00 PM	45%	153	68%	41	194	
5:00 PM	68%	231	90%	55	286	
6:00 PM	86%	292	90%	55	347	
7:00 PM	90%	305	90%	55	360	
8:00 PM	90%	305	90%	55	360	
9:00 PM	90%	305	90%	55	360	
10:00 PM	86%	292	90%	55	347	
11:00 PM	68%	231	77%	47	278	
12:00 AM	23%	78	32%	20	98	

- [1] Source: ULI Urban Land Institute "Shared Parking," Second Edition, 2005.
- [2] Parking rates for all land uses based on City code.
- [3] Percentage of peak parking demand factors reflect relationships between weekday parking demand ratios and peak parking demand ratios, as summarized in Table 2-2 of the "Shared Parking" manual.

FINE/CASUAL DINING WEEKEND SHARED PARKING DEMAND ANALYSIS [1]

Land Use		Fi	ne/Casual Din	ing		
Size		40.000	KSF			
Pkg Rate[2]		10	/KSF			
Mode Adjust		1.00		1.00		
Non-Captive Ra	itio	1.00		1.00		
Gross						
Spaces	340	Guest Spc.	60	Emp. Spc.	Shared	
Time	% Of	# Of	% Of	# Of	Parking	
of Day	Peak [3]	Spaces	Peak [3]	Spaces	Demand	
6:00 AM	0%	0	0%	0	0	
7:00 AM	0%	0	20%	12	12	
8:00 AM	0%	0	30%	18	18	
9:00 AM	0%	0	60%	36	36	
10:00 AM	0%	0	75%	45	45	
11:00 AM	15%	51	75%	45	96	
12:00 PM	50%	170	75%	45	215	
1:00 PM	55%	187	75%	45	232	
2:00 PM	45%	153	75%	45	198	
3:00 PM	45%	153	75%	45	198	
4:00 PM	45%	153	75%	45	198	
5:00 PM	60%	204	100%	60	264	
6:00 PM	90%	306	100%	60	366	
7:00 PM	95%	323	100%	60	383	
8:00 PM	100%	340	100%	60	400	
9:00 PM	90%	306	100%	60	366	
10:00 PM	90%	306	100%	60	366	
11:00 PM	90%	306	85%	51	357	
12:00 AM	50%	170	50%	30	200	

- [1] Source: ULI Urban Land Institute "Shared Parking," Second Edition, 2005.
- [2] Parking rates for all land uses based on City code.
- [3] Percentage of peak parking demand factors reflect relationships between weekday parking demand ratios and peak parking demand ratios, as summarized in Table 2-2 of the "Shared Parking" manual.

FAMILY RESTAURANT WEEKDAY SHARED PARKING DEMAND ANALYSIS [1]

Land Use		Fa	mily Restaura	nt		
Size		25.000	KSF			
Pkg Rate[2]		10	/KSF			
Mode Adjust		1.00		1.00		
Non-Captive Ra	tio	1.00		1.00		
Gross						
Spaces	214	Guest Spc.	36	Emp. Spc.	Shared	
Time	% Of	# Of	% Of	# Of	Parking	
of Day	Peak [3]	Spaces	Peak [3]	Spaces	Demand	
6:00 AM	18%	39	35%	13	52	
7:00 AM	35%	75	53%	19	94	
8:00 AM	42%	90	63%	23	113	
9:00 AM	53%	113	63%	23	136	
10:00 AM	60%	128	70%	25	153	
11:00 AM	63%	135	70%	25	160	
12:00 PM	70%	150	70%	25	175	
1:00 PM	63%	135	70%	25	160	
2:00 PM	35%	75	70%	25	100	
3:00 PM	32%	68	53%	19	87	
4:00 PM	32%	68	53%	19	87	
5:00 PM	53%	113	67%	24	137	
6:00 PM	56%	120	67%	24	144	
7:00 PM	56%	120	67%	24	144	
8:00 PM	56%	120	67%	24	144	
9:00 PM	42%	90	56%	20	110	
10:00 PM	39%	83	46%	17	100	
11:00 PM	35%	75	46%	17	92	
12:00 AM	18%	39	25%	9	48	

- [1] Source: ULI Urban Land Institute "Shared Parking," Second Edition, 2005.
- [2] Parking rates for all land uses based on City code.
- [3] Percentage of peak parking demand factors reflect relationships between weekday parking demand ratios and peak parking demand ratios, as summarized in Table 2-2 of the "Shared Parking" manual.

FAMILY RESTAURANT WEEKEND SHARED PARKING DEMAND ANALYSIS [1]

Land Use	Family Restaurant					
Size						
Pkg Rate[2]						
Mode Adjust		1.00 o 1.00				
Non-Captive Ra	atio					
Gross		250 Spaces				
Spaces	213 Guest Spc.		37 Emp. Spc.		Shared	
Time	% Of	# Of	% Of	# Of	Parking	
of Day	Peak [3]	Spaces	Peak [3]	Spaces	Demand	
6:00 AM	10%	21	50%	19	40	
7:00 AM	25%	53	75%	28	81	
8:00 AM	45%	96	90%	33	129	
9:00 AM	70%	149	90%	33	182	
10:00 AM	90%	192	100%	37	229	
11:00 AM	90%	192	100%	37	229	
12:00 PM	100%	213	100%	37	250	
1:00 PM	85%	181	100%	37	218	
2:00 PM	65%	138	100%	37	175	
3:00 PM	40%	85	75%	28	113	
4:00 PM	45%	96	75%	28	124	
5:00 PM	60%	128	95%	35	163	
6:00 PM	70%	149	95%	35	184	
7:00 PM	70%	149	95%	35	184	
8:00 PM	65%	138	95%	35	173	
9:00 PM	30%	64	80%	30	94	
10:00 PM	25%	53	65%	24	77	
11:00 PM	15%	32	65%	24	56	
12:00 AM	10%	21	35%	13	34	

- [1] Source: ULI Urban Land Institute "Shared Parking," Second Edition, 2005.
- [2] Parking rates for all land uses based on City code.
- [3] Percentage of peak parking demand factors reflect relationships between weekday parking demand ratios and peak parking demand ratios, as summarized in Table 2-2 of the "Shared Parking" manual.

FAST-FOOD RESTAURANT WEEKDAY SHARED PARKING DEMAND ANALYSIS [1]

Land Use	Fast-Food Restaurant					
Size						
Pkg Rate[2]						
Mode Adjust		1.00		1.00		
Non-Captive Ra	tio	1.00		1.00		
Gross		20	Spaces			
Spaces	17 Guest Spc.		3	3 Emp. Spc.		
Time	% Of	# Of	% Of Peak [3]	# Of Spaces	Parking Demand	
of Day	Peak [3]	Spaces				
6:00 AM	5%	1	15%	0	1	
7:00 AM	10%	2	20%	1	3	
8:00 AM	20%	3	30%	1	4	
9:00 AM	30%	5	40%	1	6	
10:00 AM	55%	9	75%	2	11	
11:00 AM	85%	14	100%	3	17	
12:00 PM	100%	17	100%	3	20	
1:00 PM	100%	17	100%	3	20	
2:00 PM	90%	15	95%	3	18	
3:00 PM	60%	10	70%	2	12	
4:00 PM	55%	9	60%	2	11	
5:00 PM	60%	10	70%	2	12	
6:00 PM	85%	14	90%	3	17	
7:00 PM	80%	14	90%	3	17	
8:00 PM	50%	9	60%	2	11	
9:00 PM	30%	5	40%	1	6	
10:00 PM	20%	3	30%	1	4	
11:00 PM	10%	2	20%	1	3	
12:00 AM	5%	1	20%	1	2	

- [1] Source: ULI Urban Land Institute "Shared Parking," Second Edition, 2005.
- [2] Parking rates for all land uses based on City code.
- [3] Percentage of peak parking demand factors reflect relationships between weekday parking demand ratios and peak parking demand ratios, as summarized in Table 2-2 of the "Shared Parking" manual.

FAST-FOOD RESTAURANT WEEKEND SHARED PARKING DEMAND ANALYSIS [1]

Land Use	Fast-Food Restaurant					
Size						
Pkg Rate[2]						
Mode Adjust	100 00 1 50	1.00		1.00		
Non-Captive Ratio		1.00		1.00		
Gross		20 Spaces				
Spaces	17 Guest Spc.		3	3 Emp. Spc.		
Time	% Of	# Of	% Of	# Of	Parking	
of Day	Peak [3]	Spaces	Peak [3]	Spaces	Demand	
6:00 AM	5%	1	14%	0	1	
7:00 AM	9%	2	19%	1	3	
8:00 AM	19%	3	28%	1	4	
9:00 AM	28%	5	37%	1	6	
10:00 AM	51%	9	70%	2	11	
11:00 AM	79%	13	93%	3	16	
12:00 PM	93%	16	93%	3	19	
1:00 PM	93%	16	93%	3	19	
2:00 PM	84%	14	89%	3	17	
3:00 PM	56%	10	65%	2	12	
4:00 PM	51%	9	56%	2	11	
5:00 PM	56%	10	65%	2	12	
6:00 PM	79%	13	84%	3	16	
7:00 PM	75%	13	84%	3	16	
8:00 PM	47%	8	56%	2	10	
9:00 PM	28%	5	37%	1	6	
10:00 PM	19%	3	28%	1	4	
11:00 PM	9%	2	19%	1	3	
12:00 AM	5%	1	19%	1	2	

- [1] Source: ULI Urban Land Institute "Shared Parking," Second Edition, 2005.
- [2] Parking rates for all land uses based on City code.
- [3] Percentage of peak parking demand factors reflect relationships between weekday parking demand ratios and peak parking demand ratios, as summarized in Table 2-2 of the "Shared Parking" manual.

HEALTH CLUB WEEKDAY SHARED PARKING DEMAND ANALYSIS [1]

Land Use	Health Club					
Size						
Pkg Rate[2]						
Mode Adjust		1.00		1.00		
Non-Captive Ratio		1.00		1.00		
Gross		105 Spaces				
Spaces	99 Guest Spc.		6 Emp. Spc.		Shared	
Time	% Of	# Of	% Of	# Of	Parking	
of Day	Peak [3]	Spaces	Peak [3]	Spaces	Demand	
6:00 AM	70%	69	75%	5	74	
7:00 AM	40%	40	75%	5	45	
8:00 AM	40%	40	75%	5	45	
9:00 AM	70%	69	75%	5	74	
10:00 AM	70%	69	75%	5	74	
11:00 AM	80%	79	75%	5	84	
12:00 PM	60%	59	75%	5	64	
1:00 PM	70%	69	75%	5	74	
2:00 PM	70%	69	75%	5	74	
3:00 PM	70%	69	75%	5	74	
4:00 PM	80%	79	75%	5	84	
5:00 PM	90%	89	100%	6	95	
6:00 PM	100%	99	100%	6	105	
7:00 PM	90%	89	75%	5	94	
8:00 PM	80%	79	50%	3	82	
9:00 PM	70%	69	20%	1	70	
10:00 PM	35%	35	20%	1	36	
11:00 PM	10%	10	20%	1	11	
12:00 AM	0%	0	0%	0	0	

- [1] Source: ULI Urban Land Institute "Shared Parking," Second Edition, 2005.
- [2] Parking rates for all land uses based on City code.
- [3] Percentage of peak parking demand factors reflect relationships between weekday parking demand ratios and peak parking demand ratios, as summarized in Table 2-2 of the "Shared Parking" manual.

HEALTH CLUB WEEKEND SHARED PARKING DEMAND ANALYSIS [1]

Land Use	Health Club					
Size						
Pkg Rate[2]						
Mode Adjust		1.00		1.00		
Non-Captive Ra	itio	1.00		1.00		
Gross		105 Spaces				
Spaces	100 Guest Spc.		5 Emp. Spc.		Shared	
Time	% Of	# Of	% Of	# Of	Parking	
of Day	Peak [3]	Spaces	Peak [3]	Spaces	Demand	
6:00 AM	66%	66	41%	2	68	
7:00 AM	37%	37	41%	2	39	
8:00 AM	29%	29	41%	2	31	
9:00 AM	41%	41	41%	2	43	
10:00 AM	29%	29	41%	2	31	
11:00 AM	41%	41	41%	2	43	
12:00 PM	41%	41	41%	2	43	
1:00 PM	25%	25	41%	2	27	
2:00 PM	21%	21	41%	2	23	
3:00 PM	25%	25	41%	2	27	
4:00 PM	45%	45	62%	3	48	
5:00 PM	82%	82	82%	4	86	
6:00 PM	78%	78	82%	4	82	
7:00 PM	49%	49	62%	3	52	
8:00 PM	25%	25	41%	2	27	
9:00 PM	8%	8	16%	1	9	
10:00 PM	1%	1	16%	1	2	
11:00 PM	1%	1	16%	1	2	
12:00 AM	0%	0	0%	0	0	

- [1] Source: ULI Urban Land Institute "Shared Parking," Second Edition, 2005.
- [2] Parking rates for all land uses based on City code.
- [3] Percentage of peak parking demand factors reflect relationships between weekday parking demand ratios and peak parking demand ratios, as summarized in Table 2-2 of the "Shared Parking" manual.

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