North Tahoe Parking Study



Prepared for the

County of Placer

Prepared by



LSC Transportation Consultants, Inc.

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How a jurisdiction provides and regulates parking is a difficult balancing act, with substantial ramifications to the attractiveness of communities and their economic viability. If insufficient parking is required, conflicts between individual property owners can be exacerbated by overflow parking patterns, traffic congestion (and associated noise and air emissions) can be unnecessarily increased, and driver frustration can reduce a commercial center's reputation as an enjoyable and convenient location to shop and dine. On the other hand, requiring too much parking can result in substantial increases in development cost (which in some cases may well make redevelopment infeasible), unnecessary surface coverage that impacts water quality and visual attractiveness, as well as running counter to regional goals of encouraging non-auto travel.

This issue is particularly important in the Tahoe Region, given the goals of minimizing coverage as well as the importance of providing compact, walkable communities. The small lot size in much of the commercial core areas further limits opportunities for private on-site parking and increases the importance of public parking.

Placer County, building on the recent adoption of the updated Tahoe Regional Planning Agency (TRPA) Regional Plan, has embarked on the update of the Community Plan for the entire Tahoe Basin portion of unincorporated Placer County. The County is also actively pursuing economic development strategies in the region. Through these processes, parking has emerged as a key issue, particularly in the commercial centers of Tahoe City and Kings Beach. LSC Transportation Consultants, Inc. was retained by Placer County to conduct this study. Key outcomes of this study are:

- An update to the parking requirements for various land use classifications, based upon the
 most recent available information both locally and nationally regarding parking use.
- A review of parking design standards.
- An assessment of public parking financing and implementation strategies, including in lieu fee programs.
- A coordinated approach to parking for purposes of the new Community Plan, as well as to guide economic development efforts.

As detailed in the following chapters, this work is grounded on a detailed review of existing parking inventory and utilization in the Tahoe City and Kings Beach commercial core areas, a "peer review" of parking in similar mountain resort communities, and a review of current parking management literature.

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Review of Previous Studies and Planning Processes

Parking is far from a new issue in the study area. To provide a context for the current study, the following are summaries of previous parking studies, as well as a review of parking-related findings generated through recent broader planning and economic development efforts.

Previous Parking Studies

<u>Kings Beach Commercial Core Parking Study, July 5, 2000, LSC Transportation Consultants, Inc.</u>

The study identified a total of 1,818 parking spaces in the commercial core area (between SR 267 and Chipmunk Street, excluding the Brockway Road area), consisting of 309 onstreet spaces, 66 informal off street spaces in vacant lots, and 1,443 formal spaces in off-street lots. Parking counts were conducted on Saturday August 20, 1999. As this date is after the peak summer period, counts were factored up based upon traffic count information to estimate peak summer parking utilization of 1,052 vehicles, or 58 percent of all available parking. The only subareas where use met or exceeded supply were on the south side of SR 28 between Deer Street and Bear Street (116 percent peak utilization) and on the south side of SR 28 between Bear Street and Coon Street (126 percent peak utilization).

This study also included an evaluation of future public parking needs. This previous study was based upon an estimate of 24,000 square feet of future retail development, of which 25 percent of parking needs would be met off-site in public parking facilities, and indicated a need for an additional 20 public spaces to support future development. It also evaluated the impact of the urban improvement project (as it was then envisioned) on on-street and off-street spaces. Including a desired maximum of 95 percent utilization, and considering that adequate new/replacement parking should be available within a one-block walk of all portions of the commercial core, the study indicated a total need for 84 additional parking spaces.

<u>Update of Tahoe City Public Parking Facilities Construction Development Program, April 2003, by Gordon H. Chong & Partners Architecture and Walker Parking Consultants</u>

This study included parking counts in the Tahoe City core area between the Wye and the Lighthouse Center, conducted on Thursday July 6 and Saturday July 8, 2000. The study excluded Commons Beach, the 64 Acres area, SR 89 northwest of the Wye, and the Lake Tahoe School parking lot. The inventory totaled 1,648 off-street spaces and 187 onstreet, for a total of 1,835 spaces. An important finding of the inventory review is that only 15 percent of all parking spaces were fully open to the general public (with no restrictions on who may park).

Overall, the counts indicated a peak occupancy of 70 percent (in the 2 PM hour), with 75 percent occupancy in the onstreet spaces and 69 percent in the off-street spaces. Of the six sub-areas, none were found to reach or exceed capacity area-wide. The highest occupancy was observed in the area bounded by Cobblestone on the southwest and Grove Street in the northeast, at 90 percent. The second-busiest area was the area southeast of SR 28 between Tahoe City Library on the southwest and the Lighthouse Center on the northeast side, with a maximum utilization of 81 percent.

The study included a planning-level (no detailed engineering) study of new or expanded parking lots at the State Recreation Area, on Mackinaw Road, at the lower TCPUD yard, at the Jackpine site, at the Grove Street site and at 64 Acres. The evaluation of Grove Street lot expansion included options to extend westward to the Cobblestone. New structured parking was considered for the Grove Street site, Henrikson property, Tahoe Marina, Boatworks Mall, and the Williamson Property.

Tahoe/Placer County Parking Improvement District Study, Public Draft Report, May 4, 2006, by LSC Transportation Consultants, Inc.

This study focused on the potential for an in lieu parking fee program for the Kings Beach and Tahoe City areas, in which some or all of the parking requirements of a future development could be met through payment of fees into a public parking program, rather than on-site provision of parking. It included a summary of current parking conditions (based on previously-conducted counts). This review indicated that 38 of 73 commercial developments in Kings Beach (52 percent) did not provide the number of onsite parking spaces required by County Code. An estimate of potential increase in parking demand was conducted, assuming 69,400 square feet of future retail/restaurant development in Kings Beach and 55,000 square feet in Tahoe City (at 75 percent retail / 25 percent restaurant), resulting in a total of 312 additional spaces in Kings Beach and 248 in Tahoe City.

The document includes a detailed review of existing in-lieu fee programs in California (including Berkeley, Brentwood, Carmel, Concord, Culver City, Davis, Fairfield, Laguna Beach, Manhattan Beach, Mountain View, Palo Alto, Sacrament, Salinas, San Jose, Truckee, and Walnut Creek), as well as Davie, Florida; Bend, Oregon; Corvallis, Oregon; and Jackson, Wyoming. It applied a set of eight guidelines regarding the viability/desirability of an in lieu fee program to conditions in the two commercial core areas. Of these, all eight were found to be met in Kings Beach, while in Tahoe City five of the eight were fully met and three were partially or provisionally met. It recommended establishment of a fee program in Kings Beach, and provisionally recommended a program in Tahoe City depending on the identification of a sufficient number of reasonably-foreseeable development projects as well as the identification of a public parking site or sites that can serve expected developments.

Economic & Redevelopment Strategies for Kings Beach and Tahoe City California, Final Report June 2007, by Economic & Planning Systems, GDeS Architecture & Planning, Hansford Economic Consulting, and Denise Duffy & Associates

This study focused on overall economic strategies for the two commercial core areas, including general recommendations for parking strategies. The report, based upon conditions in 2007, stated that "The lack of adequate, visible and convenient parking in Kings Beach is evident throughout the community." (p11). It indicates that that the strategy of small lots then being constructed in dispersed locations throughout the commercial core "is unlikely to provide the parking density required to support future development." Recommendations regarding Kings Beach includes: "The County should consider identifying and pursuing partnerships with land owners or purchasing underutilized properties adjacent to Highway 28 for parking structures... These structures can be incorporated into larger mixed use projects, have highway visible entrances, and be nearly invisible from view." (p 50)

¹ This reflects that these areas are specifically intended to offset the loss of onstreet parking associated with the Commercial Core project.

Regarding Tahoe City, "The parking situation in Tahoe City is improving and is sufficient for the current level of activity. When retail vacancies decrease and new development occurs, there will be insufficient parking for the increased activity. Compact parking structures which are visible from main streets and can accommodate several vehicles without a great deal of land coverage, will be necessary to support a revitalized commercial center." (p 59)

<u>Spring 2013 Community Outreach Summary Report: Tahoe City Golf Course Property</u> (Freshtracks Communications)

This document summarizes the results of two public workshops, written feedback forms, and an online survey conducted for a coalition of the Tahoe City Public Utility District, the Truckee Tahoe Airport District, Placer County and the North Lake Tahoe Resort Association. The purpose of the exercise was to gather public input on planning efforts for the Golf Course property, after it was acquired through a joint effort. The report notes that one of Placer County's purposes in participating in the acquisition was to improve parking and traffic circulation in the Tahoe City core area. As part of the process, two alternative parking expansion options were presented for additional parking in the northeast corner of the Golf Course area (along the "back side" of the commercial properties on the north side of SR 28 west of Grove Street. The report indicates that most attendees preferred the surface lot because it was less expensive and provided nearly as many spaces as a parking structure." (p8). Individual comments regarding the concept ranged from "more parking isn't needed" through "OK to add parking but no road of any type" to "extend parking lot connector all the way to Henrikson Property". The list of "next steps" for Placer County includes "complete analysis on parking lot options and funding" and "possible parking lot design and construction in two to five years."

Regarding potential development, the report indicates that "new retail development should be concerned primarily with replacing obsolete older space with new space. To the extent net new retail development is pursued, it should proceed on a selective basis, be predicated on careful consideration of market niche, and be paired with other land uses as to spur local demand and minimize development risk." (p 73, Market Opportunities and Constraints Final Report).

Tahoe City Visioning Process

In 2012 and 2013 a series of public meetings and workshops were held as part of the Community Plan Update process, focusing on the Tahoe City core area. A variety of parking options were discussed, including extension of the Grove Street Lot westward to provide a parking/circulation corridor as far west as the Cobblestone Shopping Center as well as additional "intercept" parking at either end of the commercial core. Key parking-related statements generated through this process consisted of:

"Encourage walkable retail at ground level with appropriate mixed use reinforcing main street vitality."

"Address peak period parking issues (e.g. cluster, add to a road between retail core and golf course)"

"The major parking areas are within the shopping centers near the lake. Parking should be located on the mountain side of the highway and behind the commercial uses."

(May 9, 2012 – Tahoe Community Plan Update - Tahoe City Plan Area Team)

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This chapter first presents an inventory of existing parking spaces in the two commercial cores. Next, the results of summer parking counts are presented and used to evaluate current parking utilization rates. Finally, parking turnover data is summarized.

Parking Inventory

Detailed parking inventories were conducted in both core areas. These count areas are depicted in Figures 1 and 2, for Kings Beach and Tahoe City, respectively. The areas were defined to encompass any "spillover" of commercial core parking into nearby residential areas were included in the counts. Parking inventory and use was not included for wholly-residential parcels, though mixed use parcels that include some residential uses are included. For unmarked on-street spaces, legal parking capacity was calculated by dividing total length of available curb space by 25 feet per vehicle.

Kings Beach

Table 1 presents the summary of existing parking supply in the Kings Beach commercial core area. As shown, there are a total of 1,763 parking spaces (including 93 public spaces temporarily in use for construction purposes). A key element of this inventory is that 58 percent are in private parking lots, 28 percent are along public streets (state highway or county roadways) and 13 percent are in public parking lots (including those owned by State Parks or Placer County).

Tahoe City

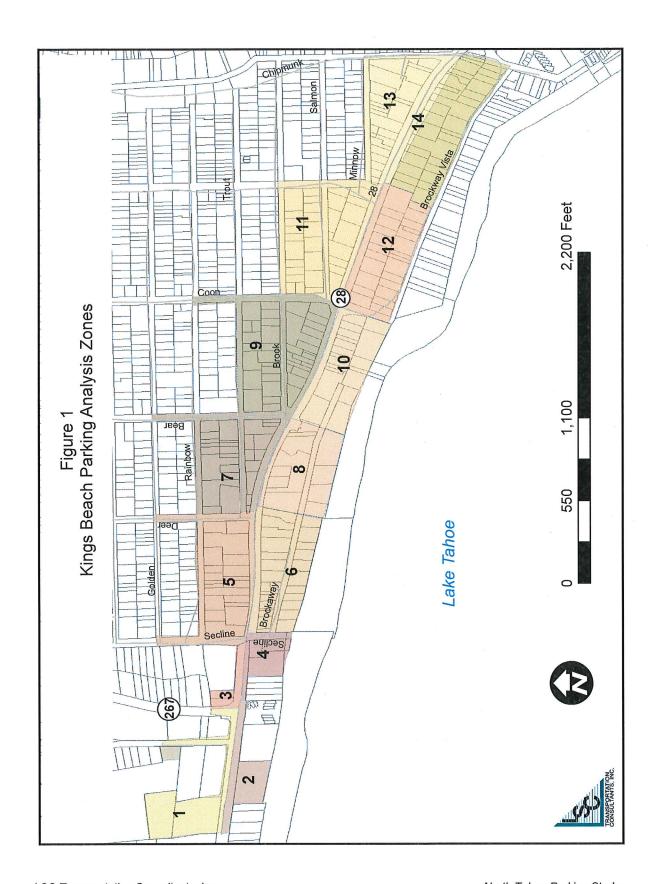
The existing parking supply in the Tahoe City commercial core is shown in Table 2. Of the total 2,586 parking spaces, 68 percent are in private lots (including 34 spaces temporarily in use for the renovation of the Lighthouse Center), 21 percent are in public lots, and only 11 percent are along public rights-of-way. This latter figure reflects the relative lack of local roadways, compared with Kings Beach. If the TCPUD and 64-Acre areas are excluded, the proportion of spaces in private lots increases to 76 percent. Overall, on a proportionate basis Tahoe City is substantially more dependent on private parking (particularly east of the Tahoe City Wye) than is Kings Beach.

Parking Utilization

Kings Beach

LSC staff conducted counts of parked vehicles throughout the study area on an hourly basis, from the 10 AM hour through the 6 PM hour over the course of a busy summer Saturday (July 19th, 2014). Detailed count data is presented in Appendix A, while Table 3 presents a summary of total vehicles by analysis district. A review of this data indicates the following:

Overall parking use throughout the study area peaked in the 2 PM hour, at 1,347 vehicles.
 This equates to 81 percent utilization of all available parking spaces in the area (excluding spaces used temporarily for construction).



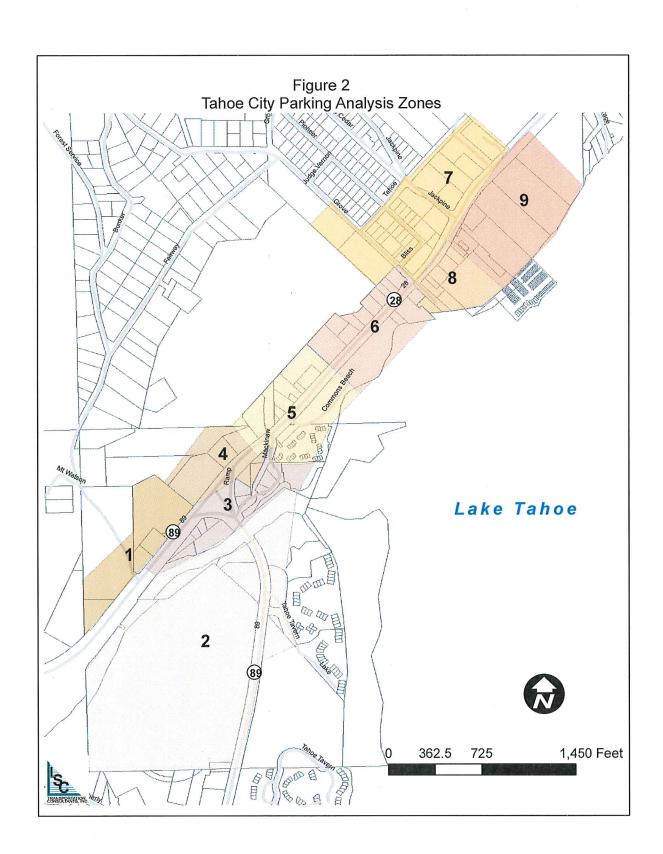


TABLE 1: Kings Beach Existing Parking Supply by Parking District

(Excluding Residential Properties)

			Numbe	er of Parking S	Spaces	
Parking District	Description	Highway Right-of-Way	Local Street Right-of-Way	Public Lots	Private Lots	Total Parking Spaces
1	Safeway and Brockway Golf Course	0	0	0	233	233
2	North Tahoe Beach	0	0	37	0	37
3	267 to Secline North of 28	11	0	0	21	32
4	267 to Secline South of 28	0	15	0	6	21
5	Secline to Deer North of 28	0	62	0	125	187
6	Secline to Deer South of 28	5	8	0	153	166
7	Deer to Bear North of 28	12	74	0	70	156
8	Deer to Bear South of 28	0	0	76	42	118
9	Bear to Coon North of 28 (1)	8	58	20	113	199
10	Bear to Coon South of 28 (2)	32	0	66	0	98
11	Coon to Fox North of 28 (3)	10	93	0	74	177
12	Coon to Fox South of 28	7	17	0	66	90
13	Fox to Chipmunk North of 28	25	22	22	39	108
14	Fox to Chipmunk South of 28	22	30	0	52	104
TOTAL		132	379	221	994	1,726
Total Perc	ent	8%	22%	13%	58%	100%

Note 1: 16 local street spaces in construction zone.

Note 2: 66 public spaces in use for construction staging.

Note 3: 11 local street spaces in construction zone.

TABLE 2: Tahoe City Existing Parking Supply by Parking District

(Excluding Residential Properties)

			Numbe	er of Parking S	Spaces	
Parking District	Description	Highway Right-of-Way	Local Street Right-of-Way	Public Lots	Private Lots	Total Parking Spaces
1	TCPUD	0	32	0	85	117
2	64 Acres and S of Truckee River	0	0	295	67	362
3	South Wye Area	0	0	40	183	223
4	North Wye Area	0	0	0	241	241
5	Commons Beach Area - Both Sides of 28	32	0	73	195	300
6	Mid Tahoe City to Grove Street	48	0	0	172	220
7	North of SR 28, East of Grove Street	37	88	142	187	454
8	Tahoe City Marina Area	12	0	0	177	189
9	Safeway and Boatworks Area 1)	24	0	0	456	480
TOTAL S	TUDY AREA	153	120	550	1,763	2,586
Total Perd	ent	6%	5%	21%	68%	100%

Note 1: 34 spaces in construction zone at Lighthouse Center.

Tahoe City Parking Count Results.xlsx

TABLE 3: Kings Beach Estimated Peak Summer Parking Utilization by Parking District and Time of Day (Excluding Residential Properties) Saturday, July 19, 2014 Maximum Maximum Total Available Number of Spaces Occupied Supply Parking Spaces Percent Minus District Description Spaces (1) 10 AM 11 AM 12 PM 1 PM 2 PM 3 PM 4 PM 5 PM 6 PM Occupied Utilization Demand Safeway and Brockway Golf Course 270 226 246 243 243 226 217 204 211 228 24 246 1 91% 37 40 42 37 22 25 -8 2 North Tahoe Beach 45 41 43 45 3 267 to Secline North of 28 32 19 26 22 26 28 23 21 18 18 28 4 88% 21 12 20 23 22 21 22 12 8 29 -8 138% 4 267 to Secline South of 28 29 74 187 67 93 102 108 113 67 5 Secline to Deer North of 28 Secline to Deer South of 28 166 105 98 115 123 122 138 136 133 125 138 28 83% 7 Deer to Bear North of 28 156 36 58 77 107 128 96 84 69 61 128 28 82% 101 112 109 109 112 96 100 96 112 6 95% 8 118 105 Deer to Bear South of 28 9 Bear to Coon North of 28 183 68 93 116 124 122 107 92 81 64 124 59 68% 10 Bear to Coon South of 28 32 10 23 38 38 40 39 25 20 19 40 -8 125% 42 11 Coon to Fox North of 28 166 35 81 111 115 124 100 73 43 42 124 75% 12 Coon to Fox South of 28 90 99 98 106 87 63 106 -16 118% Fox to Chipmunk North of 28 108 26 30 57 76 80 70 61 63 110 110 -2 102% 13 35 28 56 95 73 57 95 9 14 Fox to Chipmunk South of 28 104 80 89 46 91% TOTAL STUDY AREA 837 1,008 1,304 1,347 1,260 1,095 959 925 1,347 323 1,670 1,209 Percent of Peak 62% 75% 94% 81% 71% 69% 90% 97% 100% Total Study Area Utilization by Type of Parking Public Lot: Areas 1-4 37 0 45 45 41 40 43 42 37 22 45 -8 122% 4 Public Lot: Areas 5-14 118 0 95 101 114 110 109 110 92 91 114 97% 0 137 351 462 421 207 462 52 90% Public Right-Of-Way 514 240 439 311 Total Public 669 0 277 386 506 589 614 573 440 320 614 55 92% Private 1.028 0 570 633 712 730 744 696 664 644 744 284 72% Percent Utilization Safeway and Brockway Golf Course 80% 78% 1 North Tahoe Beach 2 122% 108% 116% 114% 100% 68% 267 to Secline North of 28 59% 56% 56% 3 81% 69% 81% 88% 72% 66% 267 to Secline South of 28 57% 95% 138% 110% 105% 100% 105% 57% 38% 4 Secline to Deer North of 28 35% 60% 45% 55% Secline to Deer South of 28 6 63% 59% 69% 74% 73% 83% 82% 80% 75% Deer to Bear North of 28 69% 62% 7 23% 37% 49% 82% 54% 44% 39% Deer to Bear South of 28 8 95% 92% 92% 95% Bear to Coon North of 28 9 37% 51% 63% 68% 67% 58% 50% Bear to Coon South of 28 31% 59% 10 72% 119% 119% 125% 122% 78% 63% Coon to Fox North of 28 69% 75% 60% 44% 25% 11 49% 67% 96% 70% 12 Coon to Fox South of 28 110% 109% 97% 27% Fox to Chipmunk North of 28 28% 53% 58% 13 24% 70% 74% 65% 56% 102% Fox to Chipmunk South of 28 34% 27% 54% 77% 86% 91% 70% 55% 44% 14 TOTAL STUDY AREA 50% 60% 72% 78% 81% 75% 66% 57% 55% Percent Total Study Area Utilization by Type of Parking Public Lot: Areas 1-4 59% Public Lot: Areas 5-14 81% 86% 97% 93% 92% 93% 78% 77% 73% 35% Public Right-Of-Way 47% 68% 85% 90% 82% 61% 40% Total Public 58% 76% 88% 92% 86% 66% 48% 43% Private 55% 62% 69% 71% 72% 68% 65% 63%

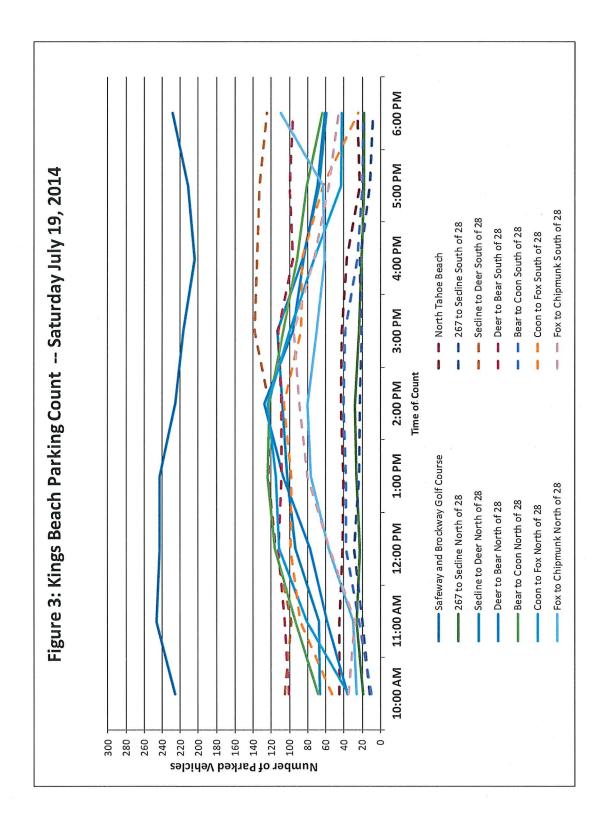
Bold indicated that parking utilization exceeds parking supply Note 1: Excluding spaces used for construction.

Kings Beach Parking Counts Results.xlsx

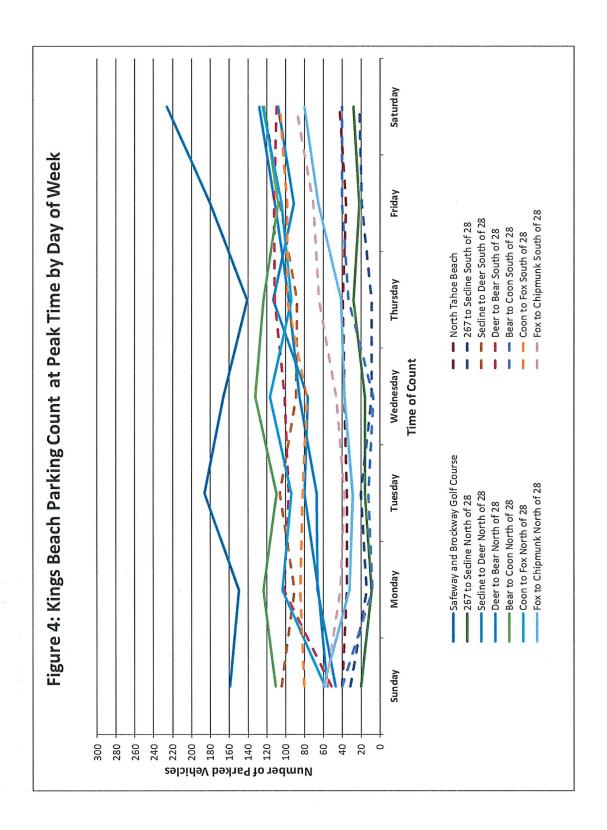
- As also reflected in Figure 3, overall parking demand is relatively high between the 12 Noon hour and the 3 PM hour.
- Some individual parking districts had peak parking demand occurring at differing times. In particular, Districts 1, 2 and 4 (in the western portion of the study area) had peak parking demand around the Noon hour. Area 13 (Fox to Chipmunk north of 28) has a peak demand in the 6 PM hour, probably associated with restaurant use.
- While the study area as a whole always had available parking spaces, some individual
 districts had more parked cars than the legal parking capacity (indicating parking in
 unmarked areas, or more parked cars along curb lanes than calculated based upon the
 Code length of 25 feet per space). Areas where parking supply was exceeded at peak
 times consisted of the following:
 - The North Tahoe Beach area, where up to 45 parked vehicles were observed in the 37 marked spaces.
 - The area south of SR 28 between SR 267 and Secline Street, where up to 29 vehicles were parked, compared with 21 legal spaces.
 - The area south of SR 28 between Bear Street and Coon Street, with a utilization rate of up to 125 percent, as well as the area south of SR 28 between Coon Street and Fox Street with up to a 118 percent utilization rate. This reflects the popularity of beach parking.

Table 3 also presents the utilization by type of parking (public lot, public right-of-way, and private lot). As shown, the only public lot in areas 1-4 (west of Secline Avenue) was filled over capacity between 10 AM and 4 PM. The public lots east of Secline Avenue were 97 percent utilized at 12 Noon, and remained at over 90 percent utilization until 4 PM. Parking in the public right of way reached 90 percent of available spaces, by 2 PM. Utilization of all public spaces reached a high of 92 percent, in the 2 PM hour. Total parking in private spaces only reached a maximum of 72 percent, also at 2 PM. In sum, this data indicates that there are always parking spaces available somewhere in Kings Beach, but that finding an available space may require a walk of a block or two as well as crossing SR 28. The high level of utilization of public spaces also indicates use of private spaces by drivers (particularly beachgoers) not visiting the private business.

To gain an understanding of the variability of summer parking demand, counts were also conducted at the peak overall time (2 PM hour) for every day of the week. These results are presented in Table 4 and Figure 4, and detailed in Appendix A. As shown, Saturday was the busiest overall day for parking in Kings Beach, followed by Friday with 14 percent less parking, while the remainder of the week saw at least 20 percent less parking than on Saturday. This reflects the relatively high popularity of beach activity on Saturdays, though it is worth noting that the most convenient beach parking (such as North Tahoe Beach, and the area south of SR 28 between Deer and Bear) saw strong parking demand throughout the week. Some of the areas north of SR 28 saw higher parking demand during the typical work week than on Saturday. Public lots were relatively busy throughout the week, particularly the North Tahoe Beach lot.



District	Description	Total Available Parking		2000			pied in 2			Maximum Spaces	Supply Minus	Maximum Percent
District	Description	Spaces	Sun	Mon	Tue	Wed	Thur	Fri	Sat	Occupied	Demand	Utilization
1	Safeway and Brockway Golf Course	270	159	149	186	166	141	180	226	226	44	84%
2	North Tahoe Beach	37	40	35	35	37	39	36	43	43	-6	116%
3	267 to Secline North of 28	32	20	9	16	16	28	22	28	28	4	88%
4	267 to Secline South of 28	21	31	14	20	9	9	19	22	31	-10	148%
5	Secline to Deer North of 28	187	56	65	80	76	113	91	108	113	74	60%
6	Secline to Deer South of 28	166	104	90	106	89	88	106	122	122	44	73%
7	Deer to Bear North of 28	156	47	66	67	85	96	111	128	128	28	82%
8	Deer to Bear South of 28	118	51	102	96	101	111	112	109	112	6	95%
9	Bear to Coon North of 28	183	110	123	109	132	123	108	122	132	51	72%
10	Bear to Coon South of 28	32	40	8	12	7	33	40	40	40	-8	125%
11	Coon to Fox North of 28	166	58	103	94	116	94	104	124	124	42	75%
12	Coon to Fox South of 28	90	80	84	82	77	98	98	106	106	-16	118%
13	Fox to Chipmunk North of 28	108	60	32	29	37	41	65	80	80	28	74%
14	Fox to Chipmunk South of 28	104	57	42	37	46	64	70	89	89	15	86%
OTAL	STUDY AREA	1,670	913	922	969	994	1,078	1,162	1,347	1,347	323	81%
1	Utilization Safeway and Brockway Golf Course North Tahoe Beach		59%	55%	69%	61%	52%	67%	84%			
2	267 to Secline North of 28		108%	95%	95%	100%	105%	97%	116%			
3	267 to Secline North of 28		63%	28%	50%	50%	88%	69%	88%			
4	Secline to Deer North of 28		148%	67%	95%	43%	43%	90%	105%			
5	Secline to Deer North of 28		30%	35%	43%	41%	60%	49%	58%			
6	Deer to Bear North of 28		63%	54%	64%	54%	53%	64%	73%			
7	Deer to Bear South of 28		30%	42%	43%	54%	62%	71%	82%			
8	Bear to Coon North of 28		43%	86%	81%	86%	94%	95%	92%			
9	Bear to Coon South of 28		60%	67%	60%	72%	67%	59%	67%			
10	Coon to Fox North of 28		125%	25%	38%	22%	103%	125%	125%			
11	Coon to Fox South of 28		35%	62%	57%	70%	57%	63%	75%			
12	Fox to Chipmunk North of 28		89%	93%	91%	86%	109%	109%	118%			
13	Fox to Chipmunk South of 28		56%	30%	27%	34%	38%	60%	74%			
14 OTAL	STUDY AREA		55% 55%	40% 55%	36% 58%	60%	62% 65%	70%	86% 81%			
Percent	Total Study Area Utilization by Typ	e of Parki	ng									
	Public Lot: Areas 1-4		108%	95%	95%	100%	105%	97%	116%		*	
	Public Lot: Areas 5-14		40%	80%	75%	74%	90%	92%	92%			
	Public Right-Of-Way		53%	44%	46%	49%	62%	68%	90%			
	Total Public		54%	53%	54%	56%	70%	74%	92%			
	Private		54%	56%	60%	61%	60%	65%	72%			



Tahoe City

Identical counts were also conducted in the Tahoe City core area. Hourly counts were conducted on Saturday, July 12, 2014, while counts were conducted in the 2 PM hour each day between July 12 and July 18. As shown in Table 5 and Figure 5, on the Saturday overall parking utilization peaked in the 2 PM hour, with a maximum of 1,793 parked vehicles. At an overall rate of 69 percent, utilization rates were lower than observed in Kings Beach. By district, the only area where parking was observed to exceed supply was the area south of the Truckee River (including the 64 Acres and SRA Outlet Parcel), where demand exceeded supply by up to 5 percent. Among other areas, only the Wye area (between SR 89/SR 28 and the river) exceeded 80 percent utilization.

The review of parking utilization by type of parking supply, as shown in the bottom portion of Table 4, indicates that the public lots in the Wye and 64 Acres districts (Districts 1-4) have high utilization in the afternoon and reach 103 percent utilization in the 3 PM hour. The public parking lots to the east (Districts 5-9, including the lower school lot) also have high utilization across much of the day, with the greatest utilization of 98 percent in the Noon hour. Public right-of-way parking utilization is relatively low (particularly compared with Kings Beach) at a maximum of 63 percent. The maximum overall utilization of private lots is also 63 percent. Overall, this data indicates a shortage of available parking in public lots throughout the Tahoe City area.

The utilization by day of week peaked on Saturday, as shown in Table 6 and Figure 6. However, both Friday and Sunday counts were only 4 percent lower than on Saturday and parking on the remainder of the days was at least 83 percent of the Saturday parking count. This indicates a substantially more consistent parking demand pattern by day of week than occurs in Kings Beach. The Commons Beach and midtown (west of Grove Street) parking use was higher on Sunday, the TCPUD and northern Wye area had the greatest parking use on Monday, while the Tahoe City Marina area had the highest use on Friday. The shortage in public lots is confined to the weekends, with maximum utilization on other days of the week not exceeding 68 percent.

Parking Duration and Turnover

An important factor in parking planning for a commercial center is the turnover of parking space – the number of times per day that a space is used by different drivers. A high turnover indicates use by customers (rather than employees) and helps to encourage retail spending. To gain insight into this factor, license plates were observed for the key segment of SR 28 between Grove Street and Mackinaw Street in Tahoe City. Each half hour between 8 AM and 4 PM on Sunday August 30, 2014 (the Sunday of Labor Day Weekend), a LSC staffer walked along both sides of the street recording the last few characters of the license plates in each onstreet space. These license plate numbers were then compared to identify the number of half-hour observations each vehicle was parked in the area. (Because of the impacts of the highway construction project on on-highway parking, no turnover counts were conducted in Kings Beach.)

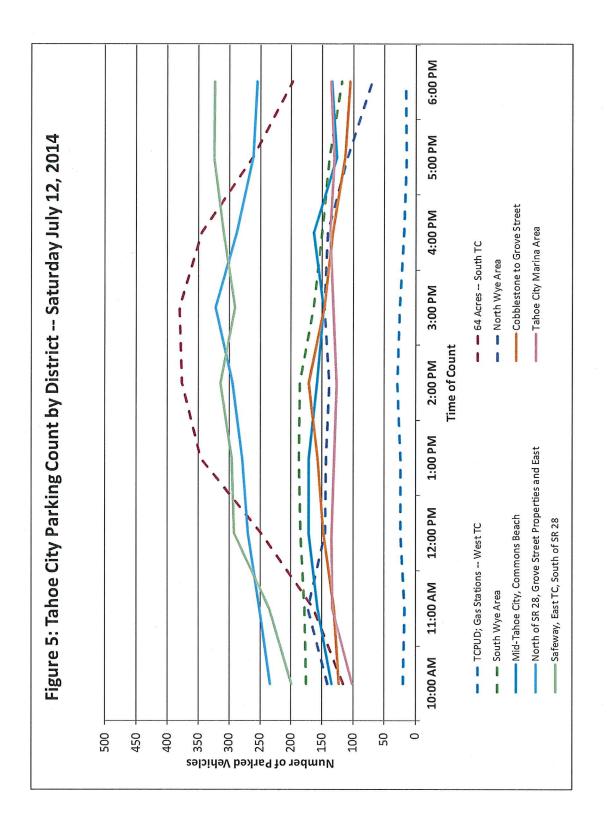
As summarized in Table 7, a total of 255 vehicles were observed to arrive and depart within the eight-hour survey period. An additional 75 vehicles were observed either in the first or last survey run (the large majority in the last survey run), and thus may have a longer stay than observed. Focusing on the vehicles with stays fully within the survey period, the large majority (85 percent) were observed to stay less than the signed 2 hour maximum stay (e.g., were

TABLE 5: Tahoe City Peak Summer Parking Utilization by Parking District

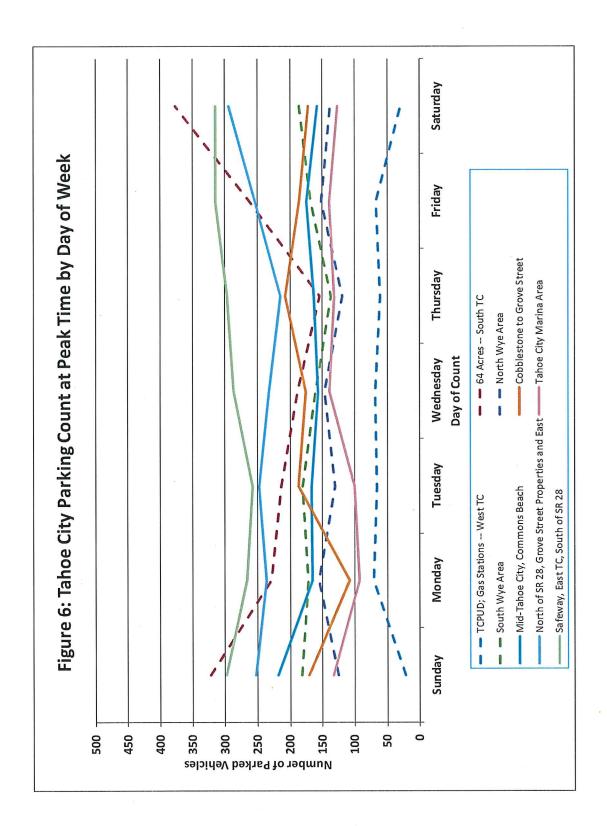
(Excluding Residential Properties)

Saturday, July 12, 2014

		Total			Nui	mber of	Spaces	Occup	ied			Maximum		
District	Description	Parking Spaces	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	Spaces Occupied	Supply Minus Demand	Percent Utilizatio
1	TCPUD	117	19	17	23	23	29	25	18	14	16	29	88	25%
2	64 Acres and S of Truckee River	362	116	163	248	346	376	380	344	261	198	380	-18	105%
3	South Wye Area	223	175	178	185	187	186	164	150	138	118	187	36	84%
4	North Wye Area	241	141	173	145	144	138	147	141	110	70	173	68	72%
5	Commons Beach Area - both sides of SR 28	300	134	157	172	172	158	148	163	127	135	172	128	57%
6	Mid Tahoe City to Grove Street	220	122	130	148	157	172	147	133	113	106	172	48	78%
7	North of SR 28, Grove Street Parking and East	454	233	251	269	279	294	322	287	261	254	322	132	71%
8	TC Marina Area	189	102	133	134	130	126	132	137	131	136	137	52	72%
9	Safeway and Boatworks Area	480	199	235	292	296	314	290	309	324	323	324	156	68%
TOTAL	STUDY AREA	2,586	1,241	1,437	1,616	1,734	1,793	1,755	1,682	1,479	1,356	1,793	793	69%
	Percent of Peak		69%	80%	90%	97%	100%	98%	94%	82%	76%			
Γotal S	tudy Area Utilization by Type of Parking													
	Public Lot - Districts 1-4	335	108	128	203	295	329	345	308	226	163	345	-10	103%
	Public Lot - Districts 5-9	215	182	204	211	206	203	194	180	156	149	211	4	98%
	Public Right-Of-Way - Districts 1-4	56	36	28	29	33	32	30	29	30	31	36	20	64%
	Public Right-Of-Way - Districts 5-9	204	97	118	129	120	112	126	134	114	127	134	70	66%
	Total Public	810	423	478	572	654	676	695	651	526	470	695	115	86%
	Private	1,776	818	959	1,044	1,080	1,117	1,060	1,031	953	886	1117	659	63%
Percen	t Utilization						er dental							
1	TCPUD		16%	15%	20%	20%	25%	21%	15%	12%	14%			
2	64 Acres and S of Truckee River		32%	45%	69%	96%	104%	105%	95%	72%	55%			
3	South Wye Area		78%	80%	83%	84%	83%	74%	67%	62%	53%			
4	North Wye Area		59%	72%	60%	60%	57%	61%	59%	46%	29%	-		
5	Commons Beach Area - both sides of SR 28		45%	52%	57%	57%	53%	49%	54%	42%	45%			
6	Mid Tahoe City to Grove Street		55%	59%	67%	71%	78%	67%	60%	51%	48%			
7	North of SR 28, Grove Street Parking and East		51%	55%	59%	61%	65%	71%	63%	57%	56%			
8	TC Marina Area		54%	70%	71%	69%	67%	70%	72%	69%	72%			
9	Safeway and Boatworks Area		41%	49%	61%	62%	65%	60%	64%	68%	67%			
TOTAL	STUDY AREA		48%	56%	62%	67%	69%	68%	65%	57%	52%			
Percen	t Total Study Area Utilization by Type of Parkin	g	10,630	CV-68										
	Public Lot - Districts 1-4		32%	38%	61%	88%	98%	103%	92%	67%	49%			
	Public Lot - Districts 5-9		85%	95%	98%	96%	94%	90%	84%	73%	69%			
	Public Right-Of-Way - Districts 1-4		64%	50%	52%	59%	57%	54%	52%	54%	55%			
	Public Right-Of-Way - Districts 5-9		48%	58%	63%	59%	55%	62%	66%	56%	62%			
	Total Public		52%	59%	71%	81%	83%	86%	80%	65%	58%			
	Private		46%	54%	59%	61%	63%	60%	58%	54%	50%			



Maximum Utilization 65% 64% 73% 94% 65% 74% Maximum Supply Demand Minus 82 13 160 50 166 86 Occupied 155 218 207 294 139 186 Saturday 1,793 314 100% 78% 92% 67% 65% 94% 22% 83% 294 126 138 158 172 TABLE 6: Tahoe City Estimated Parking Utilization by Parking District and Day of Week Friday 1,716 71% 314 74% %59 64% 186 254 139 63% 58% 85% 26% %89 80% 168 152 174 Number of Spaces Occupied in 2 PM Hour Thurs 1,484 51% 54% 62% %99 119 163 207 215 132 297 43% 48% 94% %04 %89 136 1,554 %99 Wed 61% 52% 51% %09 62% 176 232 139 286 72% 80% 74% 53% %19 147 Tuesday 61% 1,549 100 257 81% 54% %99 85% 54% 53% 54% 26% 73% 29% 130 167 247 181 187 Monday 49% 1,494 62% 236 267 64% 22% 49% 52% %99 65% 26% 155 165 108 92 Sunday 1,722 52% 73% 77% %02 62% 78% 83% %69 218 170 252 133 298 82% 26% 84% 125 182 Parking Spaces Total 362 223 241 241 300 220 480 454 Percent Total Study Area Utilization by Type of Parking North of SR 28, Grove Street Parking and East North of SR 28, Grove Street Parking and East Commons Beach Area - both sides of SR 28 Commons Beach Area - both sides of SR 28 Source: LSC counts conducted July 12 - July 18, 2014. (Excluding Residential Properties) 64 Acres and S of Truckee River 64 Acres and S of Truckee River Mid Tahoe City to Grove Street Mid Tahoe City to Grove Street Description Safeway and Boatworks Area Safeway and Boatworks Area Public Lot - Districts 1-4 Public Lot - Districts 5-9 Public Right-Of-Way South Wye Area North Wye Area South Wye Area North Wye Area TC Marina Area TC Marina Area Total Public TOTAL STUDY AREA TOTAL STUDY AREA Percent of Peak Day Percent Utilization TCPUD TCPUD District



			•	Survey Peri Last Surve	, ,	Observe	d in First or	Last Surv	ey Period
# of A Observations	verage Length of Stay (Hours)	North Side	South Side	Total		North Side	South Side	Total	
1	0.25	60	25	85	33.3%	24	5	29	38.7%
2	0.75	41	23	64	25.1%	4	9	13	17.3%
3	1.25	24	21	45	17.6%	1	1	2	2.7%
4	1.75	17	6	23	9.0%	5	4	9	12.0%
5	2.25	11	7	18	7.1%	4	1	5	6.7%
6	2.75	5	1	6	2.4%	3	1	4	5.3%
7	3.25	2	3	5	2.0%	3	4	7	9.3%
8	3.75	2	1	3	1.2%	2	0	2	2.7%
9	4.25	3	1	4	1.6%	1	1	2	2.7%
10	4.75	0	0	0	0.0%	0	1	1	1.3%
11	5.25	0	1	1	0.4%	0	0	0	0.0%
12	5.75	0	0	0	0.0%	0	1	1	1.3%
13	6.25	0	0	0	0.0%	0	0	0	0.0%
14	6.75	1	0	1	0.4%	0	0	0	0.0%
15	7.25	0	0	0	0.0%	0	0	0	0.0%
16	7.75	0	0	0	0.0%	0	0	0	0.0%
Total		166	89	255	100%	47	28	75	29.4%
verage Length of S		1.1	1.1	1.1	1				
	ceeding 2 Hour Stay	14%	16%	15%	1				
Percent Vehicles Ex	ceeding 4 Hour Stay	2%	2%	2%]				
	ce Use by Vehicles g 2 Hour Stay	41%	41%	41%					

observed in one to four half-hour periods) and only 2 percent of vehicles were observed to stay more than 4 hours. No vehicles were observed to stay the full eight hours (all either were observed to arrive or to depart), and only 2 individual vehicles were observed to stay more than 5 hours. The average estimated length of stay was 1.1 hours. (A review of the additional vehicles observed in the first or last survey period shows a similar pattern, indicating that a longer survey period would not substantially change the results.)

An individual vehicle parked for a longer period "uses up" more parking capacity than does a vehicle parked for a shorter period. The number of vehicles were weighted by their length of stay to identify the proportion of total space use (as measured in vehicle-hours of parking) used by vehicles parked for longer period. This indicates that 41 percent of the total parking activity is generated by vehicles parked for greater than 2 hours, and 10 percent by vehicles parked for greater than 4 hours.

Overall, this survey indicates that the proportion of total drivers parking in the area for longer-term purposes (such as employees) is quite small. However, as the longer-term parkers use up a greater capacity, additional parking for true short-term parkers (such as drivers stopping for lunch or to shop at only one or two stores) could be generated through stricter enforcement of the two-hour limit. This would, however, run the risk of impacting beachgoers, customers that are window shopping, and others making a day trip out of their visit to Tahoe City.

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Chapter 4 Review of Peer Resort Parking and Other Parking Rate Data

This chapter presents a review of parking regulations and strategies of other peer resort areas, consisting of Truckee and Mammoth Lakes, California; Aspen and Breckenridge, Colorado; Park City, Utah; and Lake Placid, New York. In addition, pertinent data from other sources is presented, specifically the *Parking Generation Manual* prepared by the Institute of Transportation Engineers and the Urban Land Institute's *Shared Parking*.

Peer Resort Parking Information

This section first presents a review of the parking strategies implemented in the commercial core areas of the peer communities, including financial strategies. A comparison of code parking rates is next presented. Specific elements of the parking regulations (off-site parking, parking design standards, etc.) are then discussed.

Overview of Existing Public Parking Strategies

A review of parking programs in similar mountain resort communities was conducted as a means to help establish a standard for a parking program in North Tahoe. Information was collected from two resort communities outside of California – Park City, Utah and Aspen, Colorado – and from nearby Truckee and Mammoth Lakes in California.

Peer Parking Programming

Table 8 provides a summary of the existing parking programs, including existing parking supply, paid parking regulations, timed parking regulations and residential programs. The following bullets summarize each of these components for the peer communities:

- Existing Parking Supply: On-street parking ranges from 200 spaces in Park City to 820 in Aspen. Both Park City and Aspen have large amounts of off-street parking; in Aspen, this includes a parking garage and 1,500 space Brush Creek Intercept Lot outside of town, while in Park City this total is comprised of surface lots and parking garages. Truckee is on the low end, with only 141 off-street spaces. Aspen has an intercept lot 5.5 miles from town that is shared with Snowmass Village, while Park City has an intercept lot 4 miles out of town that was constructed as mitigation for a major hotel (Montage) and is used for the hotel employee parking, as well as for major special events (such as Sundance Film Festival).
- Paid Parking: Park City, Aspen and Truckee have paid parking programs for the on- and off-street parking areas. Rates vary by community both Truckee and Park City have similar standard hourly parking rates, while Aspen has a progressive system that costs more for each hour that you are parked, with a maximum of four hours. All locations utilize the pay and display type facilities, and both Aspen and Park City also use pay by phone options. Additionally, Aspen has meter facilities for some on-street parking. Paid parking in Mammoth Lakes is limited to the 155-space lot adjacent to the Village at Mammoth, which is free for the first hour and paid after that. The other public lot in the downtown area is free. Paid parking programs in all areas are enforced year-round.

	***************************************											_
•	Public Parking Supply	ing Supply		Paid Parking Program	Program		Timed P	Timed Parking Limits	its		Parking Permits	
	On-Street	Off-Street	Rafes	Facilities Included	Seasons Enforced	Type of Payment	Limits	Hours Enforced	Seasons Enforced p	for Use of Public Seasons Residential Parking in Enforced Parking Program? Activity Center?	for Use of Public Parking in Activity Center?	
City of Aspen	820	1,840	\$2 for first hour; \$3 for second hour; \$4 for third hour; \$5 for fourth hour	On-street and parking lots/garages	Year-round; Sundays and holidays are free; Saturdays free in off- season	Meters, Pay&Display, Pay by Phone, Staffed Booths, Retail	Core = 4 hrs Residential = 2 hours Max=72 hrs without moving on- street	ΙΨ	₹	Permits for residents of downtown core	<u>α</u>	
Park City	200	1,100 (Note 1)	1) \$1.50 per hour w/ 3 hour limit	Main Street and 50-space parking lot	Year-round	Pay&Display, Pay by Phone	Pay&Display, Ranges from 2 Pay by Phone to 6 hours	11am - 8pm	Year- round	Permits for residents and guests on streets parallel to Main Street	P Employees and residential permits	
Town of Truckee	296	141	\$1 - \$1,50 per hour	On-street and Parking lots	Year-round	Pay&Display	Unlimited as long as fees are paid; 2 hours in free lot without employee parking pass	10am - 6pm	Year- round	Only as part of development agreement	P Employees and residential permits	
Town of Mammoth Lakes	Not Available	85 in downtown area, 155 in Village	Free first hour, then \$1 per hour	155 space Village Lot Only	Year-round	Pay & Display, Visa Only	None	I	1 .	8	2	

Source: City of Aspen Parking Department, 2014; Town of Truckee Police Department, 2014; Park City Municipal Corporation, Public Works Department, 2014

Note 1:750-space parking lot 3 miles from downtown is also available, used for employee parking of one major hotel and for event parking.

- Timed Parking Limits: Parking limits vary by community, with Truckee having no maximum parking limit in the downtown area as long as fees are paid. Truckee's free parking lot has a 2 hour time limit unless an employee permit is displayed. In Aspen, cars may be parked at meters in the core for 4 hours and in the residential areas (without a permit) for 2 hours. In Park City, limits vary by location but range from 2 hours to a 6 hour maximum.
- Residential Parking Programs: Aspen and Park City have substantial residential parking permit programs in neighborhoods directly adjacent to the downtown or core areas. When public parking in the downtown is at capacity, vehicles can overflow park in residential neighborhoods. To alleviate this, both Aspen and Park City have implemented residential parking programs. The City of Aspen provides two street permits to each resident free of charge, in addition to guest passes, with the option to purchase additional permits for up to 5 cars at a nominal fee. Park City provides permits for residents on the streets that run parallel to Main Street, as well as guest and lodging permits in the same locations. No parking is allowed on these streets without a permit. The Town of Truckee has a limited residential parking permit as part of specific development agreements only one permit is issued and is specifically designed and signed for the purpose.
- Parking Permits for Public Parking in Activity Centers: The Town of Truckee issues two different types of parking permits for employees in designated downtown areas. One is paid for and the vehicle can park without having to pay for daily parking, and the second allows a vehicle to pay \$2.00 per day to park in designated areas or to park in the two-hour parking lot all day for free. Similarly, Park City offers permits to extend the 4 or 6 hour time limit for employees in the CBD for \$100 per year. The City of Aspen allows for parking related to special events and construction in the downtown area for a fee.

Peer Parking Program Costs and Finances

As shown in Table 9, financing and costs vary for each community. (Financial information for Mammoth Lakes was not available, as the only pay lot is operated by a private management firm.) The summary below highlights financial components of the parking programs.

- Public Parking Program Financing: The City of Aspen's program is financed through an inlieu payment program and an enterprise fund. The enterprise fund generates money and
 pays for all the parking program's expenses, and any excess funding goes to pay for other
 transportation programs transit, Car2Go, and other TDM programs. Park City also finances
 their program strictly through an enterprise fund. The Town of Truckee differs in that the
 entire program is paid for through parking revenues.
- Public Parking Program Enforcement Costs: The annual management costs for the City of Aspen and Park City are very similar, costing roughly \$650,000 and \$609,000 per year, respectfully. The Town of Truckee was on the lower end, which is to be expected with a smaller program, with just over \$406,000 estimated in the current fiscal year's budget. Facility maintenance costs, including parking garages and lots, are roughly \$130,000 per year in Aspen and \$82,000 in Truckee. Park City's maintenance costs are covered under a different program and department, and are not available specifically for the public parking areas.
- Total Staff: Staffing for parking-related operations is consistent throughout the year in all communities. Aspen has the most staff dedicated to parking, with 6.5 FTE in

- administrative/management roles and another 6 FTE in parking officer positions. Park City has a total of 8 staff members for their parking program, while Truckee only has 1.55 FTE.
- Annual Revenues: The Town of Truckee and Park City have moderate annual revenues, with Truckee's program generating roughly \$578,000 annually and Park City generating \$700,000. Aspen estimates that their revenues from parking are upwards of \$4.1 million each year, which is not surprising considering the extent of their parking program.

	Parki	ng Prograi	n Financing	Parking Pr	ogram Enforce	ment Costs	
	In-Lieu Payment Program	General Fund	Other	Annual Management Costs	Annual Facility Maintenance Costs	Total Staff in Peak Season	Annual Revenues
City of Aspen			Enterprise Fund	\$650,000	\$130,000	6.5 FTE admin/mgmt; 6 FTE parking officers	\$4.1 millior
Park City			Enterprise Fund	\$609,000	Under different department/ program	8	\$700,000
Town of Truckee	Yes		Parking District operates solely off revenue	\$406,650	\$82,094	1.55 FTE	\$578,000

Source: City of Aspen Parking Department, 2014; Town of Truckee Police Department, 2014; Park City Municipal Corporation, Public Works Department, 2014. Data not available for Mammoth Lakes.

In-Lieu Fee Programs

As discussed above, an in-lieu fee program allows a developer to meet some or all of their parking requirements through payment of fees to a program to provide public parking, rather than providing parking on-site. The review of peer communities indicates that:

• Truckee has an in-lieu parking fee in the Downtown districts. The current fee is around \$5,600 per space, but Town Staff indicates that it is far below the actual cost of providing parking, which has been a problem in actually implementing parking improvements. To date, ten individual development projects have paid in-lieu fees, the most recent of which is the Cake Tahoe retail store. These funds have been banked (although there are currently plans to use them as part of the downtown paid parking program). The Town generally will not

allow a project to use the in-lieu fee for more than 50 percent of their required onsite parking.

- Mammoth Lake's Code allows for the adoption of an in-lieu fee program. However, this program has never been actually established.
- Breckenridge has established an in-lieu fee in a specified service area. The fee is set at \$19,236 per space (2013 dollars, increasing by CPI).
- Aspen has an in-lieu fee program (throughout the city) at a fee of \$30,000 per space, available to commercial and multifamily residential uses only. The rate was established in 2005; while the Code allows for the period review of the rate, this has not subsequently occurred.

Parking Demand Rates

The key element of local parking regulations are the parking demand rates – the number of parking spaces required per unit of development, for various development types. Parking codes vary in complexity, from relatively simple versions with a short list of uses (such as Lake Placid's 13 uses), to North Tahoe's relatively complex list of 90 various uses. Table 10 presents a comparison of current parking rates. Note that both Aspen and Breckenridge require generally less parking in their downtown areas than in outlying areas. A review of this table indicates the following regarding how the current North Tahoe requirements compare with the peers:

- Multifamily Residential The current North Tahoe rate is comparable with the peers
 (outside of the downtown areas) for 1 or 2 bedroom units, but is relatively high compared
 with many of the peers require less parking for larger units. North Tahoe's is also the only
 code that incorporates the number of individual beds into the calculation.
- Hotel/Motel North Tahoe's relatively complicated code requirement (which reflects forecasts of various types of employees), at typical rates of employees per unit, results in higher parking requirements than any of the peers.
- General Retail/Commercial and Grocery Store The current North Tahoe rates are generally consistent with the peer rates, with the exception that the Aspen and Breckenridge downtown rates are substantially lower.
- Restaurants The current North Tahoe rates are near the median of the peer requirements
 (assuming typical numbers of seats per thousand square feet), for both quality restaurants
 and fast-food restaurants. Only Truckee reflects outdoor dining space in their parking
 calculations.
- **General Office** All of the peer rates are lower than the current North Tahoe rate (particularly in the downtown areas), except that Mammoth Lake's rate is equal to the North Tahoe rate. Park City does have a higher rate for "intensive office" (such as a call center).
- **Light Industrial** The current North Tahoe rate is close to the average of the non-downtown-area peer rates. Only the North Tahoe Code considers storage and non-storage areas at differing rates.

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TABLE 10:	: Summa	TABLE 10: Summary of Peer Community Parking Rates	ng Rat	sə														
				-				Aspen					B	Breckenridge			8	
1		North Lake Taboe		Truckee	Man	Mammoth Lakes	Downtown	_	Elsewhere	Lake Placid	lacid	Urban Service Area	vice	ш	Elsewhere		Park City	North Tabos Bate
Category	Rate	Unit	Rate	Unit	Rate	Unit	Rate Unit	Rate	Unit	Rate	Н	Rate	Unit	Rate	Unit	Rate	Unit	Compared With Peers
	5.0	Bed AND	1.875	Studio, 1 BR Unit	-	Studio, 1 BR Unit	1 Unit	2	Unit OR	£.	Chit	5	Unit	-	Studio Unit	-	Unit (< 650 SF)	For 1 or 2 BR units. North
Multifamily	0.5	Bedroom	2.5	2 BR + Unit	2	2 BR, 3 BR Unit		-	Bedroom (1)							1.5	Unit (650 to 1,000 SF)	Taboe consistent with peer rates outside of downtown
Residential					ю	4 BR + Unit								1.5	Unit (3)	2 L	Unit (1,000 to 2,500 SF)	in peer downtown areas. For larger units, higher rate than
																ო	Unit (> 2,500 SF)	peers.
	- ,	Unit AND	- 4	Room AND	1.05	Unit (6)	0,5 Unit	t 0.7	Chit	-	Chit	1.	Unit	-	Guest Room	-	Room or Suite	
Hotel / Motel		Commercial/ Retail Area AND		Cilipioyees at reak														Assuming 0.6 peak onsite employees per room, North
	0.5	Part-Time Employee at Poak AND Full-Time Employee at Peak AND Full-Time Admin Employee at Peak																Tahoe higher than all peers.
General	3.33	KSF GSA	4	KSF Sales AND	4	KSF GFA	1 KSF	ы	KSF	3,33	KSF	1.4 KS	KSF GFA	2.5	KSF GFA	m	KSF Net Leasable	North Tahoe generally
Commercial			1.67	KSF Storage Area														downtown rates.
Shopping	3.33	KSF GSA	4	KSF (< 30 KSF) OR		n/a	n/a		n/a	5.50	KSF	n/a			n/a	3,5	KSF Leasable	North Tahoe comparable or
Center			3,33	KSF (30+ KSF)														lower than available peers.
Grocery Store	3.33	KSF GSA	4	KSF GFA AND	6.67	KSF GFA	1 KSF	6	KSF	3.33	KSF	2.5 KS	KSF GFA		n/a	2	KSF Net Leasable	North Tahoe near median of
,			1.67	KSF Storage Area														peer rates.
	10	KSF GFA OR	13.33	KSF for Patrons AND	0.33	Seat	1 KSF	е п	KSF	0.33	Seat (2)	3.5 KS	KSF GFA (0.25	persons capacity	9	KSF Net Leasable	At the sale of the
Restaurant – Quality	0.25	Customer or Seat (1)	3,33	KSF for Patrons in Outdoor Dining AND KSF Service Area														North Tahoe consistent with most peers.
Restaurant -	01	KSF GFA OR	우	KSF GFA AND	11.76	KSF GFA	1 KSF	ю Н	KSF	0.33	Seat (2)	3.5 KS	KSF GFA (0.25	persons capacity	15	KSF Net Leasable	At typical 17 seats/KSF,
Fast Food	0.25	Customer or Seat (1)		KSF Outdoor Dining Area														North I ahoe near median of peer rates.
General Office	4	KSF GSA	3,33	KSF (up to 5K) or KSF (5+ KSF)	4	KSF GFA	1 KSF	ю ш	KSF	3.33	KSF	1.4 KS	KSF GFA	2.5	KSF GFA	ပ	KSF (7)	North Tahoe higher than 5 peers and equal to 1 (Mammoth Lakes)
Light industrial	al 2	KSF Non-Storage Area AND	ю.	KSF (up to 25KSF) or	1.67	KSF GFA	1 KSF	8	KSF	Ā		n/a	155/60	2.5	KSF GFA (5)	2.5	KSF AND	North Tahoe near median of peer rates.
		Employee AND	- 2	Classroom AND		n/a	Detail	Detailed Study Required	Required			n/a		2	classroom	0.2	Seat OR	
School - Elementary		KSF Non-Classroom Area	lo.	KSF Auditorium Area												0.67	Employee OR KSF (1)	Difficult to compare due to uncertain definition of non- classroom area
		Employee AND	e l	Classroom AND		n/a	Detai	Detailed Study Required	Required			n/a		0.25 stu	student and faculty (4)	-	Seat OR	
School - High School	0.25	Student AND Seat in Auditorium etc. AND KSE Non-Classroom Months Area	0.17	Student												1.0	Employee OK KSF (1)	North Tahoe significantly higher than any peer
Public		Full-Time Employee AND	0.33	Seat OR	20	20 KSF GFA	Detail	Detailed Study Required	Required	ro T	KSF OR	0,3	seat (0.25	seat	0.2	Seat	At typical seats per KSF,
Assembly / Auditorium	6.67	KSF GFA AND Seat	29	KSF GFA (without fixed seats)							Seat (1)							Norm Tanbe rate is significantly higher than any peer
(1) Higher of the (2) Or 20 per K\$ (3) 1 full bedroo	e two SF available m or greater.	(1) Higher of the two (2) Or 20 per KSF available to customers where no seating is available (3) 1 full bedroom or greater.			(5) Plus k (6) Plus 2 (7) 5 per k	 (5) Plus loading bays (6) Plus 2 spaces for manager unit. Lackoffs count as separate unit. (7) 5 per KSF for "Intensive Office" 	r unit. Lockı 'fice"	offs count a	as separate ur	护								
(4) High school	or college				(8) Plus c.	ompany vehicles												

- Elementary School There is some ambiguity in the current North Tahoe Code regarding the requirement of 20 spaces per KSF of "non-classroom area". If strictly applied to offices, restrooms, hallways, auditorium, etc., the resulting overall rate far exceeds the peer rates. The only peer that makes a distinction is Truckee, with requires 5 spaces per KSF of auditorium area only (along with a rate per classroom).
- High School The current North Tahoe rate is a complicated formula based on employees, students, auditorium seats and meeting areas. For the relative quantities typically found in a high school, it results in parking requirement significantly higher than the peers.
- **Public Assembly** The rate currently in the North Tahoe Code is significantly higher (roughly twice) that of the peer communities, at typical numbers of seats per thousand square feet of floor area.

Each peer community was asked to provide input on their satisfaction with parking code and to discuss any issues that they have come across within their program. Related to existing parking codes, Aspen's Parking Department believes that their codes are too low, while Truckee and Park City are very satisfied with their current code.

Land uses can present issues with respect to parking requirements. In particular, in Aspen, non-profit development projects do not need to include new parking spaces, regardless of whether they are located in the downtown core. These developments are still generating a need for parking and additional traffic, and according to the Parking Department, should be held the same development standards as all other projects in the City. In Park City, the parking program is struggling with multi-occupancy residences, especially seasonal skier type units, where occupancy can vary greatly.

Overall, the current North Tahoe rates are consistent with the peers regarding retail, restaurant, light industrial and general office uses and for smaller multifamily units, but are higher than the peers for the lodging, school and public assembly uses, as well as for larger multifamily units.

Other nuances of the peer community parking requirements are as follows:

- In Lake Placid's "Village Center District", lots of 0.3 acres or less are exempt from the offstreet parking requirements. (This is larger than the majority of commercial lots in the Kings Beach commercial core.)
- Truckee has established their parking rates as both maximum and minimum. Any proposed
 off-street spaces in excess of the standards may be approved "only in conjunction with a
 land use parking, and when additional landscaping and pedestrian improvements are also
 provided." The Town cannot approve a project that proposes parking more than 20 percent
 over the standard rate.
- In North Tahoe, a figure 10 percent over the rates is considered to be the maximum parking allowed.

Shared Parking Adjustments

The peer communities allow consideration of reductions in parking needs reflecting shared parking between differing uses, as follows:

- Truckee Up to 25 percent reduction can be allowed, based upon a parking study. The
 most remote space must be within 500 feet from the use it is intended to serve, measured
 along the walking route.
- Park City Can be considered for projects in Master Planned Developments or requiring a
 conditional use permit, requiring over 8 spaces. Parking study required, considering overall
 of parking needs and other factors (such as transit and pedestrian access).
- Mammoth Lakes The number of required spaces may be reduced up to the number of spaces required for the least intensive use.
- Aspen Shared parking reductions may be allowed, though not for purposes of calculating in lieu fees.
- Lake Placid "Shared parking areas serving two or more uses is encouraged and may be required..." The Review Board may reduce the total number of parking spaces required where it can be demonstrated that one or more uses will be generating a demand for parking spaces primarily during periods when other uses are not in operation.

In comparison, the current North Tahoe regulations allows for consideration of shared parking, so long as (1) the uses have different peak periods, (2) the parking demand will not overlap, and (3) the parking facility will meet the peak demand.

Adjustments for Non-Auto Modes

Of the peer communities, only Aspen's parking regulations specifically mention reductions in parking requirements reflecting non-auto modes, in that it allows for a special review process that can consider reductions in parking needs associated with proximity to mass transit. None identify a quantitative factor. The current North Tahoe requirements allow for reductions of up to 20 percent if an analysis indicates that "transit service exists within 300 feet of the property and such a substitute measure would be a viable substitute for parking. For each space reduced, the project shall be required to contribute \$300 per year or the fee required by the transit provider to the transit agency providing the service." (p 12-3).

Off-Site Parking

The current North Tahoe regulations allow parking requirements to be met using offsite parking that is either within 300 feet of the facility or directly connected by transit. In comparison, the peer communities indicate the following:

- **Truckee** Offsite parking is allowed, contingent on approval, for parcels within 300 feet of the parcel generating the parking need. A deed restriction is required.
- Mammoth Lakes Offsite parking is allowed within 300 feet, so long as access does not require crossing an arterial street. A recorded parking agreement is required.
- Aspen A review process is identified that may result in approval of off-site parking.

On-Street Parking

Jurisdictions typically do not allow on-street parking in public rights-of-way to count towards a project's parking requirements. For instance, the current North Tahoe regulations indicate that "Except when included in an assessment district, on-street parking shall not be considered in determining the adequacy of parking facilities." (p12-3). Among the peers, the only exception is Truckee, where a landowner is allowed to develop new on-street parking in the public right-of-way (pending Town approval), and count such spaces towards the overall parking supply at a rate of 0.75 of an on-site parking space. No restrictions can be placed on the use of the parking space by others.

Treatment of Lockoff Units

An increasingly common practice in the resort lodging industry are "lockoff" units, which are separate bedrooms (sometimes with kitchenette amenities) that have separate entrance doors and internal doors to other bedrooms, allowing them to be "locked off" and rented as a separate, smaller unit at times. A review of the peer communities yielded the following:

- Aspen requires that all lockoff units be considered as separate units for purposes of calculating parking needs.
- Park City requires lockoff units included in a single family or duplex resident to be considered as a separate unit, but does not consider lockoff units regarding hotel/motel land uses. Summit County Utah (where Park City is located) requires 1 space per 1-bedroom lodging unit, 1.5 spaces for lodging units of two or more bedrooms, and 0.5 spaces per lockoff unit (applied to all lockoff units).

None of the other peer communities discuss lockoff units in their parking regulations.

Existing Peer Parking Design Standard

The parking regulations of the peer mountain resort communities were also reviewed regarding parking design elements and bicycle parking requirements. This information, shown in Table 11, can be summarized as follows:

- The peer communities generally require a standard space 9' in width and 18' in length. Only Mammoth Lakes requires a larger space (10' X 20'), while Aspen only requires width of 8' 6". In comparison, the current North Lake Tahoe standard is 9' by 22'.
- Aisle width is generally required to be 24' for a 90-degree parking bay, consistent with the
 current North Lake Tahoe requirement. The only peer community providing a dimension for
 minimum 60-degree parking aisle width requires 16', which is 2 feet less than the North
 Lake Tahoe requirements.
- Of the peer communities, only Truckee allows compact spaces (up to 25 percent, and only
 in lots of at least 20 spaces) that count towards the total parking requirement. The current
 North Lake Tahoe requirements allow up to 20 percent compact spaces. Truckee's
 dimensions (8' by 14') reflect a length 2 feet shorter than the North Lake Tahoe requirement.

	North Lake Tahoe	Truckee	Mammoth Lakes	Aspen	Lake Placid	Breckenridge	Park City
Standard Dimensions							
Parking Space Width	ō	<u>-</u> 0	10'(2)	8'6"	Ō	'n	ō
Parking Space Length	22'	20' (1)	20'(2)	18'	18'	18'	18,
90-Degree 2-Way Aisle Width	24'	24'	24'	NA	26'	24'	24' (3)
60-Degree 1-Way Aisle Width	18'	16'	NA	NA	NA	NA	NA
Parallel Parking Stall Length	NA	24'	24¹	N	NA	22.	NA
Parallel Parking Stall Width	NA	NA	NA	NA	NA	5⊗	NA
		Vec feel atomother					Yes, but do not count
Compact Spaces Allowed?	Yes	least 20 spaces	No	No	No	N _o	towards
		ובמאר לה אלמרכא					requirements
Maximum Compact Spaces Allowed	70%	25%	1	i	į	ì	ì
Compact Parking Space Width	∞	∞	i	1	ì	ŀ	ō
Compact Parking Space Length	16'	14'	1	ł	;	ŀ	16'
	Required for parking areas > 1/4	30 H3 OOC		For every lot with	000000000000000000000000000000000000000	2	20% of total parking area for lots > 50
Parking Lot Interior Landscaping	acre. Parking bays should not exceed 75' in length, with at least 1 tree per	and scaping, 2 trees and 4 shrubs per 5 parking spaces	None	20 SF of landscaping with 1 tree for every 4 spaces	Lots of Pouspaces require landscaping island at least 10' wide	25 SF per parking space, with a minimum of 200 SF	spaces, 10% for smaller lots. Island with minimum width of 5' every 12 to 15
Required Snow Storage	"Functional in placement and adequate in size" (4)	50% of parking/driveway area in areas with <200 #/sf snow load, 75% in areas of	60% of uncovered parking and driveway area	NA	"Adequate provisions for snow removal and storage."	60 SF per parking space	15% of total hard surface
		higher snow load					
Bicycle Parking					Pilhlin		New construction or
Land Uses Requiring Bicycle Parking	None	Multifamily Residential > 10 units	None	None	commercial, industrial and multifamily uses.	None	addition to commercial, industrial or MFDU
Bicycle Parking Requirement	None	5% of vehicle spaces	None	None	At least 1 bicycle rack must be provided	None	10% of auto spaces, minimum of 3. If >15, may be reduced by Planning Dept.
Note 1: 2' bumper overhang allowed.		Note 3: 18' for commercial requiring less than 5 spaces.	rcial requiring less t	han 5 spaces.		7. 33	

- With the exception of Mammoth Lakes, all of the peer communities require interior landscaping of parking lots, at least for larger lots (as does North Lake Tahoe). The required amount of landscaping and how it is calculated varies substantially.
- The provision of adequate snow storage is a key design consideration in mountain communities. All of the peer communities have some stated requirement for adequate snow storage, with the exception of Aspen. Four have quantitative requirements based on number of parking spaces or pavement area, while Lake Placid (like North Lake Tahoe) only cites that adequate snow storage must be provided. The Town of Truckee's Code has an interesting approach, in that the quantitative snow storage area requirement varies between high snow load areas (such as Tahoe Donner) and low snow load areas (such as Glenshire).
- Bicycle parking is required for larger multifamily developments in Truckee, and for multifamily, public, commercial and industrial developments in Lake Placid and Park City. In comparison, there is currently no bicycle parking requirement in North Lake Tahoe. However, the proposed Placer County Tahoe Basin Area Plan is proposing that the number of short-term bicycle parking spaces be at least 10 percent of the required automobile parking spaces with a minimum of two spaces per establishment for Recreation, Education, and Public Assembly Uses; Retail Trade; and Personal Service uses. Truckee and Park City tie the number of bicycle parking spots to the number of required auto spaces, while Lake Placid simply requires at least one bicycle rack.

Analysis of Parking Rates and Travel Modes

This chapter first presents data regarding parking demand available from national publications. In addition, an evaluation is provided that compares the observed parking utilization in Tahoe City and Kings Beach with the parking required under the current North Tahoe requirements. In addition, recent survey information regarding travel mode characteristics in the North Tahoe area is presented. Along with the peer community rates discussed in the previous chapter, this information is used as the basis for parking rate recommendations, as presented in Chapter 7.

Review of Other Sources of Parking Demand Data

There are two key comprehensive sources of parking demand data that reflect observed parking use by land use category across the nation:

- Parking Generation (4th Edition) was published by the Institute of Transportation Engineers (ITE) in 2010. It presents observed parking demand rates for 106 individual land use types, based upon studies voluntarily submitted to the ITE by local jurisdictions and consultants across the nation. The preponderance of the data reflects suburban settings, and thus reflect the travel characteristics found in such settings. The number of observations (and resulting statistical validity) varies substantially by land use type. As an example, the data reflects a total of 190 individual study sites for the general office land use. The data is summarized to the degree statistically valid given the available data. For purposes of this study, the average rate (that rate at which 50 percent of the observed sites generated greater parking demand and 50 percent generated less) as well as the 85th percentile rate (that rate at which 15 percent of observed sites generated greater parking demand) are summarized.
- Shared Parking (2nd Edition) was published in 2005 by the Urban Land Institute (ULI). Along with a detailed methodology for evaluating the shared parking demand of mixed-use developments, it presents recommended base parking rates for 23 key land use types based upon the consensus of a panel of parking experts. Note that not all land use categories in the current North Tahoe code are discussed in this document.

Table 12 presents a comparison of the existing North Tahoe rate with the ITE and ULI rates for residential, lodging and entertainment land uses, while Table 13 provides a similar table for retail, industrial, wholesale/storage, public service and recreation uses. Where necessary, estimates of typical use patterns (such as number of seats per thousand square feet of floor area) are applied in order to provide the comparison. Uses for which the current North Tahoe code has higher rates than the other source are shaded in green, those for which a lower rate is required are shaded in red, and those with comparable rates are shaded in yellow. A review of these tables indicates the following general conclusions:

- The current North Tahoe requirements are **consistently higher** than the rates in the other sources (indicating a potential for reduced rates) for the following land use categories:
 - o Larger (2+ bedrooms) multifamily units
 - o Ice rink
 - o Auditorium
 - Health Care Services

I).	North Lake Tahoe Existing Rate (1)				ITE Peak Parking Demand (2)	d (2)		ULI Parking Recommendation (3	indation (3)
Category	Rate (Spaces per Unit) Unit	Rate (Spr Average	Rate (Spaces per Unit) Verage 85th Percentile	Unit	LSC Notes	NT Higher/Lower than ITE 85th?	Rate (Spaces per Unit)	Unit	NT Higher/Lower than ULI Recommendations?
Residential					8				
Multiple Family Dwelling (4)	0.5 Bod AND 0.5 Bodroom	1.23	1.94	ilen O	Weekday, Suburban (Average Size 1.7 bt)	Lower for small units, but higher for larger units	1.65	Rented Unit OR Owned Unit	Lower for small units, but higher for larger units
Multi-Person Dwelling	11	۵'n		S		ry'a	η/a		n/u
Congregate Care or Assisted Living	0,33 Bed AND 1 Employee	0.41	0.54	Unit		Not comparable	0.35	Unit	Not comparable
Residential Care	0,45 Bed AND 1 Live-in Employee AND 0,5 Other Employee	0.41	0.54	Unit	Assisted Living: weekday	Depends on # of employees but similar	5,0	Bed	Depends on # of employees but similar
Single Family Dwelling (5) Tourlist Accommodation	11	1.83	2.14	Unit	Single Family: Weekday	Lower			
	1 Unit AND								
	4 KSF Meeting/ Display Area AND					At average of 0.8 employees onsite per room at peak, and half par		Room, plus spaces for	
Hotel, Motel, and Other Transient Dwelling Units (6)		1,29	1,59	Occupied Room	Occupied Room Resort Hotel: Weekday	time employee, total NT rate would be roughly 1.27 per room - very close to average but 20% lower than 85th.	1,25	lounge, restaurant, conference space	Comparable
	ш								
Entertainment	Tuil-Time Admin Employee at Peak								
Bovding	5 Lane	5,02	5,58	Lane	Friday	Lower			
Health Spa/Gym		5.27	8,45	KSF GFA	Weekday	Lower	7	KSFGFA	Lower
Ice/Rollor Rink	5 KSF GFA AND 1 Enil Time Employee	5.0	n/a	KSF GFA	Average of Saturday and Friday Studies.	Higher	n/a		ה/ח
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1						1		4
Tennis (indoor), Racquetball, etc.	3 Court	3,35	4.13	Court		Probably lower, but depends on # of emps	n/a		TAB
Theater	1 Employee AND 0.33 Soat	0.26	0.36	Soat	Movie Theater: Friday	Similar, at typical employacs per seat.	0.27	Sout	Higher
to and a	П								
Auditorium	6.67 KSF GFA AND 0.33 Soat	0.25	0.32	Soat	Weekend	Higher	9 9	Son	Higher, at typical soats per KSF
Cabaret	11	5,57	a/r	KSF GFA	Average of 2 Saturday studies	Not Comparable			
Convention	1 1	0,31	r/a	Attendee	Had extensive transit service	Not Comparable	9	KSFGFA	Lower
ervices Enamelal Camican	Ш	4	5.67	KSFGFA		Lower			
Health Care Services		4.94	4.96	KSF GFA		Higher	4.5	KSFGFA	Higher
Laundries and Dry Cloaning Plant	11	1, 4,	2.44	KSF GFA		Lower			
	- 1	ç	27.6	200	Manual Contraction	Haha	œ e	400 000	Silabily higher
Protessional Offices	13.3 KSF GFA AND	101	ĝ.	School		LOUBLU .			
Schools - Business and Vocation	1 1	0.18	0.2	Population	Junior/Community College	Not Comparable			
Schools - Preschool	1 Employee AND 0.2 Student	3.16	3.7	KSF GFA	OR .24/Student OR 1.38/Employee	Not Comparable	6.0	Child Capacity	Comparable
Source: Standards & Guidolines for Signage, Parking and De	9	unity Plans, TRP	A and Placer Col	nty, June 1994	4	4. Use for Employee Housing.		KSF = One Thousand Square Feet	quare Feet
2. Parking Goneration, 4th Edition					uri i	5. Use for Summer Homes		GFA = Gross Floor Area	GFA = Gross Floor Area
					4	The state of the s		Tanahan and in the sand	

2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Rate (Spaces per Unit)		ITE Peak Parking Demand (2)				
Capecia page Cape			Unit)	**		חח	ULI Parking Recommendation (3)	ndation (3)
100 100		8 Average Per	85th Percentile Unit	it LSC Notes	NT Higher/Lower than ITE 85th?	Rate (Spaces per Unit)	Unit	NT Higher/Lower than ULI Recommendations?
133 143 156 167 167 175								
10 10 10 10 10 10 10 10	D tte Area	1,69	n/a KSF GFA	SFA Suburban	Higher	2.5	KSF GFA, including outdoor sales area	Higher
1016 of 2	in the second se	1			At typical 32 scats por KSF, the rate per KSF is controlling.			
Not at the composition Not at the composit	the Month Tabos Com Ding				James	4	KSEGEA	lawer
Neetbaumnt Noticial		16.4			Tower	20 2	KSEGEA	Lower
And a And a	the North Tahoe Com. Plan		20,4 KSF GFA	SFA OR 47/Seat (Sat with Bar)	Lower	51	KSFGFA	Lower
10 10 10 10 10 10 10 10			ľ		Lower	5	KSFGFA	Lower
1 1 1 1 1 1 1 1 1 1		3,78	5,05 KSF GFA		Higher	6.75	KSFGFA	Comparable
10 res - Convenience Slore 6.67 2.88 2.5 149 2	rage Area AND Area	1.04	1.34 KSF GFA	SFA	Higher, assuming typical proportion of non-storage to storage areas	מ/ח		r/a
7.286 2.25 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3,11 3	3.79 KSF GFA	SFA Convenience Market: Only 2 sites	Higher	2.75	KSFGFA	Higher
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2								
1 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		1.27	1.85 KSF GFA	SFA	Higher	n/a		n/a
fring 2.5 1 1 0.2 0.2	rage Area AND	ы	n/a KSFGFA	SFA Base on only one study	Lower	r/a		n/a
0.23		0,75	1.13 KSF GFA	3FA	Higher	n/a		n/a
0.23								
1 1 0.33		0.51	0.81 KSF GFA	GFA weekday	Higher	0.67	KSF	Higher
0.33	QN.	0,0135 0,	0,0166 Ur	Unit weekday	Higher	0.0175	Unit	Higher
0.33			П	11				
		8.37 1	14.38 KSF GFA	GFA OR 2/seat	Higher	0.25	Permitted Capacity	Higher
Day Care Centers 0.2 Student	Q	3.16	3.7 KSF	KSF GFA 1,38/Employee	Not Comparable	6,0	Child Capacity	Comparable
П		4,15	6.13 KSF GFA	GFA OR .83/Employee	Comparable	1/3		n/a
O.5 Employee AND Honolinia O.5 Bard AND	Q.	7 4,49	7,35 Bed	Weekday Suburban	Not Comparable	η/a		n/a
333	ncy Roam Area							
Employee AND	Employee AND Full-Time Student AND Seat in Auditorium ets. AND KSE Non-Chase Room Montion Area	0.33	Sch Popul (Stud Faculty	School Population (Students, Faculty, Staff)	Higher	ח/מ		a/s
11	ID ssroom Area	0.17	0.21 Student	ent	Higher, III strictly defining non-classroom area	0.25	Student OR Auditorium seat (8)	Higher, lif strictly defining non- classroom area
	Q					63	Student OR	
11	arium etc. AND	0.23	0.25 Stuc	Student Suburban	Higher	}		Higher
Documentary 10 KSF Non-Classic	ssroom Meeting Area							
Contere 1 Full-Time Emplo	ployee AND	3.2	5.03 KSF GFA	3FA	Lower, assuming no more than 2 employees per KSF	0.25	Permitted Capacity	Not Comparable
2						1		. 4
Jennis Court 1 Full-Time Employee AND	plovee AND		2000	Τ	inanon in a series of the seri			
Golf Course 0.33 Part-Time Employee AND 10 Hote	nployee AND	8,68	9,83 Ho	Hole Saturday	Higher	1/3		n/a
П.	ployee AND	0.47	n/a Be	Borth Average of Sat and Sun, Including Memorial Day.	Lower	הימ		rVa
1 3	gion of Placer County North Tahoe	Community Plans, T	RPA and Placer C	ounty, June 1994		KSF = One Thousand	KSF = One Thousand Square Feet	
 Parking Generation, 4th Education Source: Dimensions of Parking, 5th Edition, Urban Land Institute, 2010. 						Employee = Number o	of Employees on Largest S	Jir.

- o Professional Offices
- o General Merchandise Stores
- o Building Material and Hardware
- o Furniture, Home Furnishings
- o Small Scale Manufacturing
- o Industrial Services
- o Warehousing / Mini-warehousing
- o Churches
- o Colleges
- o Elementary Schools
- o High Schools
- o Golf Course
- The current North Tahoe requirements are consistently lower for the following land use categories:
 - o Studio or one bedroom multifamily units
 - o Health Spa/Gym
 - o Eating and Drinking Places (restaurants and nightclubs)
 - o Printing and Publishing
 - o Recreation Centers / Tennis
 - o Marinas

For other land uses, the rates are comparable, it is not possible to directly compare the rates without detailed information about a specific project, or the North Tahoe rate falls between the reported rates in the other two sources.

Evaluation of Observed North Tahoe Parking Demand By Current Code

The observed parking counts provide the opportunity to assess the appropriateness of current North Tahoe parking rates by comparing observed parking demand with the demand that would be expected if the current rates reflected actual use. For both Tahoe City and Kings Beach commercial core areas, an inventory of existing land use (excluding uses currently vacant or undergoing renovation) was developed based upon County Assessor records, aerial photos, and site visits. Wholly residential uses were excluded, though residential units in mixed developments were included (such as the numerous small retail/restaurant properties in Kings Beach). The current Community Plan Standards and Guidelines rates were then applied, along with factors reflecting the proportion of peak demand that would be expected at the time of overall observed peak parking (2 PM hour on a Saturday). For "special generator" land uses for which a demand rate is not available (such as beach use), parking use was estimated based upon observed parking patterns, number of attendees, and typical vehicle occupancy ratios. These special generators, the fact that few land uses have dedicated on-site parking sufficient to accommodate all parking demand (resulting in parking occurring offsite), and the impacts of construction introduces uncertainty into this analysis. However, it provides the best available overall indication of how current codes compare with observed parking use in the North Tahoe area.

Kings Beach

Table 14 presents the estimated inventory of land uses that were in use in the Kings Beach commercial core area (consistent with the area shown in Figure 1, above) during the parking

TABLE 14: Kings Beach Existing Occupied Land Use Quantities	gs Bea	ıch Exi	sting 0	ccupied	Land	Jse Qu	antities						
	Bank	Retail	Grocery	Building Material / Hardware	ОЩсе	Medical Office	Restaurants / Nightclubs	Spa, Personal Services	Gas Station / Minimart	Auto	Dwelling Units	Hotel / Motel	
Zone	KSF	KSF	KSF	KSF	KSF	KSF	KSF	KSF	KSF	KSF	Units	Rooms	Special Generator
Safeway and 1 Brockway Golf Course	0.0	0.0	38.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	Golf Course
North Tahoe Beach	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	North Tahoe Beach
3 267 to Secline North of 28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0	0	Secline Beach
4 267 to Secline South of 28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0	0	Secline Beach
Secline to Deer North of 28	0.0	6.7	0.0	5.8	0.0	2.9	0.0	0.0	0.0	0.0	25	40	
Secline to Deer South of 28	0.0	0.5	0.0	0.0	1.1	2.5	4.7	9.0	0.0	0.0	9	108	Secline Beach
7 Deer to Bear North of 28	0.0	3.1	0.0	0.0	0.0	0.0	2.4	0.0	1.7	0.0	22	12	KBSP Beach
B South of 28	0.0	4.2	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0	0	KBSP Beach, Event Center
9 Bear to Coon North of 28	1.2	0.0	4.3	0.0	20.6	0:0	7.0	1.6	2.2	0.0	28	0	KBSP Beach
10 Bear to Coon South of 28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	KBSP Beach
11 Coon to Fox North of 28	0.0	6.6	2.0	0.0	8.2	0.8	3.2	1.2	0.0	0.0	7	0	
12 Coon to Fox South of 28	0.0	4.3	0.0	0.0	1.5	0.0	7.6	0.0	0.0	0.0	₩.	0	KBSP Beach
13 Fox to Chipmunk North of 28	0.0	5.5	0.0	0.0	0.0	0.0	4.2	1.0	0.0	0.0	7	0	KBSP Beach
14 Fox to Chipmunk South of 28	0.0	2.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	က	33	KBSP Beach
TOTAL	1.2	32.9	44.9	5.8	31.4	6.3	32.7	4.3	5.4	3.8	66 6	193	
Source: Placer County Assessor records, aerial	Assessor	records, a	erial photos	photos, and LSC field visits.	d visits.								

count period. Detailed information is presented in Appendix B. This totals to 168,700 square feet of various commercial and public uses (excluding the North Tahoe Events Center), along with 193 lodging rooms and 99 multifamily dwelling units. Major commercial land uses consist of 44,900 square feet of grocery stores, 32,700 square feet of restaurants/nightclubs, 32,900 square feet of retail space, and 31,400 square feet of office space.

The resulting estimate of parking demand by district is shown in Table 15. For uses with a parking rate partially dependent on number of employees, factors reflecting typical employees per thousand square feet of floor area were applied. Day-of-week and time-of-day parking demand factors were obtained from *Shared Parking*. As shown, this analysis indicates that the current parking requirements plus the parking demand generated by the special generators would result in an area-wide observed parking total of 1,502 vehicles. In comparison, a maximum of 1,347 vehicles were observed to be parked. This indicates that the current requirements, if fully applied to all land uses, would result in approximately 155 more parking spaces than are currently used, or an excess of 12 percent. Code requirements exceeded observed parking in 9 of the 14 analysis districts, but fell below observed parking in the remaining 5.

A detailed review was conducted of parking demand at other times of day (particularly regarding the evening uses) and of code versus observed parking in individual private lots (for the limited number of businesses in the area with significant onsite parking). This review yielded the following findings specific to the Kings Beach area:

- Parking demand in some areas with concentrations of retail uses (such as Districts 5 and 13) indicate that the current retail rate is too high. This may reflect to a degree the economic health of various businesses. The observed parking demand in the Rite Aid lot, however, is consistent with the current parking code requirements.
- Some areas with areas with concentration of restaurant uses (such as Districts 6 and 9)
 have an observed parking utilization that indicates restaurant rates are too high, though this
 again may reflect the specific characteristics of these businesses. Other areas (notably
 District 12 and District 13 that includes Caliente) indicate that the restaurant rates are too
 low.
- Observed Safeway lot parking utilization was slightly lower than required under the current code (though there may well be higher utilization at other times, such as a winter Friday evening).
- Observed parking at Sierra Country Tires exceeded the parking requirements.

Tahoe City

The existing in-use land use inventory for the Tahoe City study area is presented in Table 16. Total commercial/public floor area was estimated at 423,500 square feet (or 2.5 times that of Kings Beach), along with 159 lodging rooms and 1 multifamily dwelling unit. Relatively large commercial uses are office space (113,100 square feet of floor area), retail space (107,400 square feet) and restaurant/nightclub space (79,000 square feet). Note that these figures reflect current occupancy, including the fact that the Lighthouse Center is partially under renovation.

Applying the current parking requirements and hour-of-day/day-of-week factor yields the parking demand estimates shown in Table 17. Over the entire area, the land uses generate a "code"

Bank Zone KSF		_					Land Use	B VVIII 7 21	Land Uses With Parking Codes												
		Retail Grocery		Building Material / Hardware	Office	Medical Office	, Laundry	Athlatic F	Restaurants / Nightclubs	Spa / Personal Services	Gas Station / Minimart	Auto	Dwelling Units	Hotel / Matel	Marina, Pier		Special Generator	erator			
		KSF		KSF	KSF	KSF	KSF	KSF	KSF	KSF	KSF	KSF	Units	Rooms	Slips/ Buoys	Subtotal: Excluding Special Generators	Land Use	Estimated Parking Demand	Total Code Parking Demand	Observed Peak Parking Demand	Ratio of Code Requirement to Observed Parking
Current Code Parking Rate 5.00		5.67 6.67		3.33	4.00	7.67	1.75	3.33	10.00	3.33	3.33	3.00	2.00	1.27	0.347730496						
Percent of Peak Demand at Time 10% of Overall Peak		100% 95%		100%	%9	30%	80%	30%	, ee	100%	100%	100%	%06	70%	100%						
Safeway and Brockway Golf 0	\Vdash	0 244	4		-	0			o		0	0	0	0	0	544	Golf Course	44	288	226	127%
2 North Tahoe Beach D		0		0		0			a	0	0					0	North Tahoe Beach	22	25	64	116%
3 267 to Secline North of 28 0		0		0	0	0	0		0	۰	٥	£	-		0	£	Secline Beach	5	ន	28	82%
4 267 to Sociine South of 28 D		0	_	0					0	0	10	٥	6	0	0	ın	Sectine Beach	20	25	23	114%
5 Sectine to Deer North of 28 0		45 0		5		7	0	0	0	o	0	0	ð.	98	0	152		0	152	801	141%
6 Sectine to Deer South of 28 0		3	_	0	0	۵	0	0	સ	7	0	o	£	96	0	149	Sectine Beach	£	159	122	130%
7 Deer to Boar North of 28 0	_	21 0		0	0	0	0	0	5	0	g	0	8	=	0	83	KBSP Beach	12	114	128	%69 %
B Deer to Bear South of 2B 0		88	-	0	0	0	0	٥	11	0	o	٥	٥	0	0	2	KBSP Beach, Event Center	83	138	109	127%
9 Bear to Coon North of 28		0 27	7	-	w	0		0	Ð	so.	7	٥	22	0 .	0	140	KBSP Beach	Ø	162	122	133%
10 Bear to Coon South of 28 0		0		0	0	٥	0	0	o	0	0	0	0	0	0	0	KBSP Beach	40	40	40	100%
11 Coon to Fox North of 28 0		44 13	en		71	2	•	0	73	4	0	0	5	0	0	66	KBSP Beach	25	124	124	100%
12 Coon to Fax South of 28 0		23	_		6	0	0	0	49	0	.0	0	2	0	0	80	KBSP Beach	14	94	106	%68
13 Fox to Chipmunk North of 28 0		37 0	_	0	6	a	0	0	82	е	0	0	13	0	0	81	KBSP Beach	14	95	80	119%
14 Fox to Chipmunk South of 28 0		13 0	_	0	6	0	0	0	9	0	0	0	s;	82	0	23	KBSP Beach	21	74	88	83%
Total		220 284	22	19	7	15	0	0	212	14	18	11	179	172	0	1152		386	1538	1347	114%
Subtatal; Care Area (Zone 5 to 14)	21	220 40	0	19	2	15	0	0	212	14	13	6	179	172	0	892		260	1152	1028	112%

		,														
	Bank	Retail	Grocery	Building Material / Hardware	Office	Medical Office	Laundry	Athletic Club	Restaurants / Nightclubs	Spa, Personal Services	Gas Station / Minimart	Auto	Dwelling Units	Hotel / Motel	Marina, Pier	
Zone	KSF	KSF	KSF	KSF	KSF	KSF	KSF	KSF	KSF	KSF	KSF	KSF	Units	Rooms	Slips/ Buoys	Special Generator
1 Fairway Dr	0.0	0.0	0.0	0.0	11.0	0'0	0.0	0.0	0.0	0.0	3.7	0.0	0	0	0	
2 64 Acres and S of Truckee River	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0	0	0	Rafting, Trail Access, SRA
3 South Wye Area	0.0	0.0	0.0	0.0	20.0	2.0	0.0	0.0	3.8	0.0	0.0	0.0	0	0	0	Raffing Firms, SRA
4 North Wye Area	2.7	8.0	29.7	5.3	4.4	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0	0	0	Golf Course
Commons Beach Area - 5 Both Sides of SR 28	0.0	7.0	0.0	10.4	10.1	0.0	0.0	0.0	21.8	1.2	0.0	1.2	0	49	0	Commons Beach
Mid Tahoe City to Grove Street	0.0	41.7	0.0	0.0	10.3	0.0	2.5	4.0	16.2	2.3	0.0	0.0	0	æ	0	
7 North of SR 28, East of Grove Street	11.2	0.0	0.0	0.0	26.1	4.0	0.0	4.4	0.0	0.0	0.0	0.0	1-	7.2	0	Commons Beach, Ballfield
8 Tahoe City Marina Area	0.0	9.1	0.0	0.0	9.1	0.0	0.0	0.0	6.7	1.5	0.0	0.0	0	0	282	
Safeway and Boatworks Area	2.7	41.5	18.0	0:0	22.1	0.0	0.0	6.3	28.3	0.0	0.0	0.0	0	30	0	Tahoe Gal, Post Office
Total	26.2	107.4	47.7	15.6	113.1	6.0	2.5	14.7	79.0	7.7	3,7	1.2	1	159	282	
Source: Placer County Assessor records, aerial photos, and LSC field visits.	or records, ae	inal photos,	and LSC fe	ld visits.												

Part	well brief		,)) bud	lses With P	Land Uses With Parking Codes												
The color part The		B XCB	Retail	Grocery	Building Material / Hardware	Office	Medical	Laundry				Gas Station / Minimart		Dwelling Units	Hatel / Motel			Special Gene	rator			
The Choice Pering Rate (2) 6.67 6.67 6.67 (357) 6.67 (3	Zone	KSF	KSF	KSF	KSF	KSF	KSF	KSF	KSF	KSF		KSF	KSF		Rooms		Subtotal: Excluding Special		Estimated Parking Demand	Total Code Parking Demand	Observed Peak Requirement to Parking Demand Observed Parking	Ratio of Code Requirement to Observed Parking
Inter of Peal Demand at Inst. Incr. Inc. Inc. Inc. Inc. Inc. Inc. Inc. Inc	Current Code Parking Rate	ıs	79'9	6.67	3.33	4	75,7	1.75	3,33	10	3,33	3,33	m	2	1.27	0.347730496						
Addressive start of a control of	Percent of Peak Demand at Time of Overall Peak	10%	100%	%56	100%	%9	30%	80%	30%	,459 ,459	100%	100%	100%	%06	70%	100%						
Advanta and Sofflictive Answard S G <t< td=""><td>1 Fairway Dr</td><td></td><td></td><td>0</td><td>0</td><td>6</td><td>٥</td><td>0</td><td>0</td><td>c</td><td>0</td><td>12</td><td>٥</td><td>0</td><td>0</td><td>0</td><td>5</td><td></td><td>0</td><td>र्घ</td><td>8</td><td>%25</td></t<>	1 Fairway Dr			0	0	6	٥	0	0	c	0	12	٥	0	0	0	5		0	र्घ	8	%25
birth Wyork Area [2.1] [3.1] [2 64 Acres and S of Truckee River	ru.	0	0		0	0	٥	٥	17	0		-	-		0	я	Raffing, Trail Access, SRA	349	371	376	%66
birth Wyork Area (27) (37) (38) (38) (48) (49) (41) (41) (42) (41) (42) (41) (42) (41) (42) (41) (42) (41) (42) (41) (42) (41) (42) (41) (42) (41) (42) (41) (42) (41) (42) (41) (42) (41) (41) (41) (41) (41) (41) (41) (41	3 South Wye Area	0	0	0	В	£0	ស	0	٥	ĸ	0	0	0	0	0	0		Raffing Companies, SRA	163	198	186	%9QL
Distribution Beach Alease of St 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4 North Wye Area	-	R	188	18	-	0	a	٥		6					0	270	Golf Course	8	230	138	210%
indicative City to Grower City to Gr	5 Both Sides of SR 28	٥	47	0	×	2	0	0	0	142	4		4	0	4	0	277	Соттопа Вовен	25	341	158	216%
biglious Street Least of Eq. (a) (a) (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	6 Mid Tahoe City to Grove Street	o	278	0	0	2	٥	4	4	501	80	٥	o	0	7	o	408		0	408	221	237%
bither City Maritire Area (2.00 of 61 of 61 of 62 of 62 of 62 of 63 of 63 of 63 of 63 of 63 of 63 of 64 of 63 of 64 of 64 of 63 of 64 of 6	7 North of SR 28, East of Grove Street	9	0	٥	0	9	on.	0	4	0	0	0	0	23	28	0		Commons Beach, Balifield	130	221	294	75%
slakkway and Boatkwarfa	8 Tahoe City Marina Area	0	19	0	0	2	0	0	0	40	s	0	0	0	0	86	206		0	206	126	163%
13 716 302 52 26 14 4 14 613 25 14 70 14 20 14 20 20 20 20 20 20 20 2	Safeway and Boatworks Area	-	712	114		22	a	۵	9	184	0			-	27	0	614	Tahoe Gal, Post Office	. 44	628	314	210%
7 683 114 34 17 9 4 14 471 17 0 4 2 142 98 1596 238 1,834	Total	5	716	302	25	92	14	4	14	513	26	12	4	2	142	88	1,938		077	2,708	1,793	151%
	Subtotal - Core Area (Zones 5 to 9)		663	114	×	1	61	4	5	174	11	0	4	73	142	96	1,596		823	1,834	1,064	172%
Note: Some parking code requirements simplified for purposes of this analysis.	Note; Some parking code require	ments simp	lified for pu	poses of th	s analysis.																	

parking demand of 1,596 spaces. In addition, the special generators (rafting/bike trail, state recreation area, golf course, Commons Beach, ball field, post office, Tahoe Gal) are estimated to have generated 770 parked vehicles, for a total of 2,708. In comparison, the observed parking demand was 1,793 parked vehicles, indicating that the current parking regulations result in a calculated parking demand that exceeds the observed demand by 51 percent. The code demand exceeds the observed utilization for all areas south of SR 28. The detailed review of parking demand/utilization by district and by time of day/day of week indicates the following:

- As the Bridgetender parking lot was fully utilized, it is not possible to compare demand with supply for this restaurant.
- Peak parking demand for the Save Mart supermarket was below current code requirements (though peak demand may well occur at differing times of the year).
- The comparison of demand and utilization in Districts 5, 6, 8 and 9 indicate that the rates for retail and restaurant uses are higher than necessary.
- The observed parking in District 8 (Tahoe City Marina area) tends to confirm that the current marina parking rate of 1 space per three berths/buoys is appropriate.
- The high use of the public parking areas in District 7 (including the Jackpine Lot, Grove Street Lot, and the lower Tahoe Lake School parking lot) indicates that drivers are finding these areas, and using them as parking for areas to the south (such as Commons Beach) even though there are spaces available in private lots south of SR 28.

Overall, if the current code requirements were met for all existing land uses, it would result in a substantial "over parking" of the Tahoe City commercial core area, with more parking than it needed to accommodate observed peak parking.

Review of Existing North Tahoe Travel Mode Data

Available travel mode survey data was reviewed to identify whether there is a lower proportion of trips to the commercial core areas than for other areas of the Placer County portions of the Tahoe Region. If so, this could argue for a different parking demand rate in the commercial core areas than for the remainder of the area. The TRPA conducts intercept surveys of persons in recreational and commercial centers. The most recent summer survey is presented in the *Travel Mode Share Survey Summary of Results* (TRPA, October 2010). It presents the results of 334 individual surveys conducted at locations in Placer County. These were conducted by surveyors stationed at various locations in public areas and sidewalks in the commercial centers in Kings Beach and in Tahoe City. Other areas surveyed in the Placer County portion of the Tahoe Region included Homewood, Tahoe Vista, and Sunnyside. Among other questions, persons were surveyed as to their travel mode used to access the location.

As shown in Table 18, of the 334 respondents throughout the Placer County locations, 78 percent indicated they arrived by auto. In comparison, the figure for Tahoe City was 76 percent, for Kings Beach was 81 percent, and for the remainder of the survey sites was 75 percent. The proportion walking was higher in Kings Beach (11 percent) and Tahoe City (7 percent) than for the other locations (4 percent). Similarly transit use was higher in Kings Beach (3 percent) and Tahoe City (2 percent) than for the other locations (0 percent). Regarding bicycle use, Tahoe City use (10 percent) was slightly lower than the other locations (13 percent), while the Kings Beach figure (2 percent) was substantially lower. This low bicycle use in Kings Beach is

·			Travel Mod	е		Total Survey
Trip Category	Auto	Bike	Walk	Transit	Other	Responses
Tahoe City	76%	10%	7%	2%	4%	143
- Commercial / Other	79%	9%	5%	2%	5%	86
- Recreation	71%	13%	11%	2%	4%	56
Kings Beach	81%	2%	11%	3%	3%	139
- Commercial / Other	75%	2%	14%	7%	3%	59
- Recreation	86%	3%	9%	0%	3%	78
Placer County - Other Locations	75%	13%	4%	0%	8%	52
Total North Tahoe	78%	7%	8%	2%	4%	334

probably a reflection of the currently poor cycling conditions in the community. Furthermore, the relatively high bike use in the other locations probably reflects a low sample size and the cycling activity associated with the West Shore bike trail. Perhaps reflecting the limited bicycle facility network serving Kings Beach, the proportion of travel by bicycle in Kings Beach was low in comparison with Tahoe City (though walking was higher). Once the Kings Beach Commercial Core project improves bicycling and pedestrian conditions in Kings Beach, an overall auto mode split within the two key commercial core areas roughly 5 percent below the remainder of the region can be expected.

Parking Finance

There are a variety of state and federal funding programs that may fund parking improvements as a piece of a larger project. One example is the Community Development Block Grant program administered by the Department of Housing and Community Development, whereby parking needed to support a larger urban development project could be funded. Similarly, State Transportation Improvement Program (STIP) funds may be used for transportation corridor improvement projects that include parking improvements needed to meet the overall project goals. However, barring inclusion in a larger project, there are no funding programs to directly support parking facilities as a stand-alone project. Funding for public parking improvements is thus very much a local issue.

Vehicle Parking District

In California, parking improvements can be constructed and maintained under the *Parking District Law of 1943* and the *Parking District Law of 1951*. These laws allow the formation of levy assessment districts to finance the acquisition of land (including the issuance of bonds), the improvement, construction and maintenance of parking facilities, the cost of employee salaries, and the costs of engineers, attorneys and others needed to complete the project. Districts are initiated by a petition of landowners, and a landowner vote of approval is required for formation. The resulting district is managed by an appointed commission.

Per the California State Controller's office, there are currently parking districts established in 77 cities across the state, with the majority in the larger urban areas. Nearby parking districts are established in Truckee and Nevada City, though there are currently no established parking districts in Placer County.

Fee-In-Lieu Programs

Fees paid in lieu of required onsite parking are a common strategy in communities both in California and across the nation. By ordinance, a local jurisdiction establishes a fee that can be paid into a public parking program, in order to fund public parking that serves the private development as well as other public parking needs. It is a particularly important tool in commercial areas with small parcel sizes – such as portions of both Kings Beach and Tahoe City – where a requirement to provide parking on site can lead to poor site planning and community design, if not the loss of any ability to economically develop.

On-site provision of parking, moreover, often can conflict with the design goals of redevelopment efforts and the overall Community Plans. A key strategy in commercial streetscape design is to provide a cohesive window-shopping environment close to the sidewalk throughout a commercial "Main Street" area. On-site parking, however, can result in the storefronts being placed behind a row of parking and the sidewalk being interrupted by driveways, both of which work against the effectiveness of the commercial environment. As stated by John McLaughlin, Community Development Director of the Town of Truckee:

"In-lieu fees allow us to create vibrant and great new developments without having to screw up the urban form for the automobile, when we really want to design these places for people!"

Joint development of public parking, moreover, allows better shared use of parking spaces than does provision of on-site private parking. For instance, public parking can serve both the afternoon peak in outdoor recreational parking needs as well as the evening peak in theater parking needs, resulting in a reduction in the overall parking requirements for the commercial district as a whole. Again, any strategy that can help to attain parking requirements with reduced coverage impacts can be a substantial benefit in attaining TRPA's requirements for commercial development. There are also other potential benefits that are discussed in this report.

<u>Flexible Parking Requirements</u> (Thomas P. Smith, 1983) provides a good summary of the "ingredients" necessary for success of an in-lieu program:

"The likelihood of success in the use of zoning that allows payments of fees-in-lieu of parking is increased when a community can anticipate a rapid rate of development in a concentrated area. Where major developments are proposed, it is more likely that sufficient funds can be collected to help support construction of off-street parking. The funds collected, however, should simply supplement a community's own resources (land, capital, personnel), and these funds should complement an existing program of municipally constructed off-street parking. Where development projects are to be constructed in a concentrated area and the public has the resources and administrative capacity to build and maintain centralized parking, the conditions may be appropriate for collecting fees-in-lieu of required parking spaces." (P11)

This document also includes the following quote, which is very pertinent to the Kings Beach and Tahoe City commercial core areas:

"Off-site parking often can have its greatest application in older developed areas where small lots, multiple landowners, and physical constraints (site broken up by alleys, easements, existing street patterns) prevent the construction of on-site parking." (P 11)

Overall, the review of the professional literature revealed the following potential benefits associated with an in-lieu parking fee program:

- An improved urban design can be provided. A key concept in planning for pedestrian
 commercial districts is to provide as continuous a series of storefronts as possible, avoiding
 "dead spaces" that break up the window-shopping experience. By reducing the need for
 driveways and parking provided along the front of commercial properties (which is effectively
 required at present for those parcels without side or back access), an in-lieu program can
 result in a more effective and economically vital shopping district.
- The total amount of parking needed to adequate serve the area can be reduced. As public parking is available for shared use, the number of spaces required is lower than if each individual property must provide its peak parking supply on-site. For instance, restaurants can use a higher proportion of a public parking supply in their peak evening period while commercial properties can use a higher proportion in the afternoon. Another example pertinent to the study area is the use of parking for summer beach recreation parking needs as well as for winter snowmobile concessionaire parking needs.

- An in-lieu program provides another mechanism for the provision of parking, thereby reducing the need for variances. This helps to ensure that all landowners are treated equitably.
- Additional funding for public parking improvements is generated, potentially speeding the
 provision of additional public parking. Funding, moreover, accompanies the development
 that increases the need for such parking.
- By providing an additional, readily available option for developers to address the oftendifficult issue of meeting parking requirements, an in-lieu program increases the feasibility of development or redevelopment – particularly for small lots.

In California, the following jurisdictions are among those that have established existing in lieu parking fee programs: Berkeley, Brentwood, Carmel, Concord, Culver City, Davis, Fairfield, Manhattan Beach, Mountain View, Sacramento, Salinas, San Jose, Truckee, and Walnut Creek. Programs have also been established in Bend and Corvallis in Oregon, Davie, Florida; and Jackson, Wyoming.

The following are possible reasons why an in-lieu fee program may not be appropriate:

- The timeliness of use of funds can be a challenge. Parking Improvement District (PID) programs have run into political trouble where fees have been collected for a long period before any parking spaces have been constructed. Areas where the expected number of projects that would take advantage of the in-lieu program is low may therefore not be appropriate locations for an in-lieu program. As the rate of inflation in construction costs and land prices can outstrip the interest rate gained on the funds, moreover, delays in construction can effectively degrade the ability of the program to result in parking supply. A long lag time between the first collection of funds and the provision of parking has been a problem for some jurisdictions, particularly for smaller communities. For instance, there has been discussion in Sisters, Oregon that the in-lieu program be terminated, as the City has not used the funds to construct public parking in over ten years.
- Parking must be provided in reasonable proximity to the properties contributing fees. To be
 effective for individual commercial property owners (and their financiers), spaces need to be
 provided with a reasonable walk distance of each property. Areas where there is no or
 limited opportunities for public parking facilities may find this to be a problem.
- An in-lieu program can be at odds with other parking strategies that allow reductions. For instance, the Standards and Guidelines for Signage, Parking and Design for the North Tahoe Community Plans indicates that "Parking requirements for uses other than single family dwellings may be reduced up to 20 percent if a traffic analysis indicates transit service exists within 300 feet of the property and such a substitute measure would be a viable substitute for parking." This can effectively reduce the funding to the in-lieu program by up to 20 percent.
- Sufficient funding needs to be available (either through the in-lieu program or from other sources) to ensure that parking is actually provided. Particularly if the first few developments taking advantage of an in-lieu program are relatively small (and therefore do

Steamboard Wis same not generate funds sufficient to construct a parking lot), this could require some initial public funding.

- Lenders need to be assured that the financial success of a development will not be limited
 or precluded by the lack of timely and convenient parking provided through the in-lieu
 program. Some lenders might be reluctant to lend on a project without on-site parking, or a
 guarantee for timely and convenient parking.
- The local jurisdiction needs to devote staff time to establishing and maintaining the in-lieu
 fee program. However, the ongoing staff time needed after the program is implemented is
 reported to be minimal, and would not require any marginal increase in staff levels. By
 providing a consistent means of addressing parking requirements (rather than through caseby-case review of private off-site parking agreements), moreover, local staff time spent on
 parking issues could potentially be reduced.

A key issue in an in-lieu fee program is the appropriate level of the fee. The professional literature, and the way in which fees are established in other California jurisdictions, indicates that there is not any legal requirement that fees levels be set to reflect the full cost of the provision of parking.

Some examples of the potential means by which a program could benefit individual properties helps to illustrate the potential usefulness of a PID:

- The Felte Service and Supply building sits on a parcel in a prime location on the northwest corner of Bear Street and SR 28. The parcel is only 25 feet in width and 122 feet in depth (3,050 square feet). The two-story building has approximately 5,800 square feet of floor area but only six on-site parking spaces, and development effectively covers 100 percent of the parcel. A reasonable possible re-use of this parcel would be to keep the existing footprint, but convert the ground floor to restaurant with professional offices above. At the County Code parking rates, this would require 35 parking spaces or roughly 10,500 square feet of parking. The size of this lot would effectively preclude the ramps needed for underground on-site parking, requiring most if not all of the additional parking to be provided off-site.
- The Tahoe City Lumber Company is located on a parcel in the center of the Tahoe City commercial area. It sits on an irregular shaped lot roughly 95 feet in width, with a total land area of approximately 12,630 square feet and a single-story building of roughly 7,900 square feet. At present, the site provides on-site parking for 11 parking spaces (as well as some outdoor materials storage). One option for re-development would be for the existing building footprint to be used for retail space, with a second story of affordable housing units. The existing 11 spaces could be used for the residential units, while the retail use would require an additional 32 parking spaces that could not be provided on-site.

As both of these examples indicate, redevelopment of existing developed properties would require substantial amounts of parking to be provided off-site – even if the total floor area of existing building were not increased.

The professional literature yields eight individual criteria for considering whether an in-lieu fee program is appropriate:

- 1. Does the commercial area have a substantial number of small or irregular-shaped parcels that make development with on-site parking difficult? This is definitely true for Kings Beach, which includes many very small commercial properties (many parcels only 50 feet in width, and several only 25 feet in width) that makes it very difficult to assemble adequate land for commercial redevelopment. While true for some portions of the Tahoe City commercial area (largely north of SR 28 and west of Grove Street) other area consist of relatively large parcels with less physical development constraints.
- 2. Is there sufficient development demand to reasonably ensure that there will be multiple participants in an in-lieu fee program, providing significant fees in a timely manner? While this is a matter of conjecture (and impacted by external factors such as the national economy), the recent upturn in interest in development projects indicates that this is the case in both community core areas, particularly if one or more larger project is developed to give the improvement funds a good initial balance.
- 3. Are there feasible opportunities for development of new public parking facilities within a reasonable walk distance of parcels that may take advantage of the in-lieu program? As discussed below, this is the case in both commercial core areas.
- 4. Could the commercial district benefit from an improved window-shopping pedestrian environment? Providing such a "small town" streetscape is a key strategy for both commercial areas.
- 5. Are there active efforts to expand public parking that could be aided by an in-lieu fee program? This is the case in both areas.
- 6. Does the public agency have the staff capacity to administer the program? Certainly, Placer County has these capacities, and has shown that addressing parking issues in the Tahoe commercial areas is an important priority. An in-lieu fee program could also generate funds to administer the program.
- 7. Are there other funding sources available to augment the in-lieu fee funding to ensure that parking can be provided in a timely manner? Yes, funding is available through TOT funds, as well as other potential funding sources.
- 8. Can a program make a substantial difference in making redevelopment projects feasible? This appears to be the case in both commercial districts, due to the existing physical and TRPA regulatory limitations.

Considering all of these guidelines as a whole, it can be concluded that the Kings Beach commercial core area fully meets all guidelines for a successful in-lieu parking fee / PID program. A program in Tahoe City would only be successful if there is a sufficient flow of projects that participate in the program, which is doubtful.

User Revenues

The imposition of charges for public parking (including parking in rights-of-way) is common in larger urban areas, as well as in some mountain resort communities (including Aspen, Park City, Vail and Truckee). Parking fees can generate significant annual revenues, which may be used for the provision of new parking facilities as well as operations/maintenance of facilities. Improvements in "pay and display" technologies (such as is found in downtown Truckee) can

North Tahoe Parking Study

LSC Transportation Consultants, Inc.

reduce the visual clutter of an on-street paid parking program from that generated by individual parking meters. Further advancements in technology are becoming more widely implemented, such as sensors that indicate the presence of a vehicle in parking spaces which can be used to direct drivers to available spaces.

There are, however, substantial disadvantages to paid parking programs:

- The operational/management costs are significant. Staff is needed to conduct a range of activities, including enforcement, collecting and counting revenues, maintaining equipment, preparing financial reports, managing protests of parking fines, and holding meetings. Office space, office equipment and vehicles are needed to support the staff. In addition, ongoing costs are required for utilities and credit card transaction fees. A reasonable estimate of ongoing costs for a paid parking program in the Tahoe City and Kings Beach core areas, implemented in the summer and winter seasons only, would be \$210,000 annually.
- Capital costs are also substantial. Pay-and-display meters would need to be provided within a reasonable (150-200 foot) walk of all public spaces, and avoid the need to cross the state highways. This equates to a total of approximately 30 kiosks in both Tahoe City and Kings Beach. At a typical cost of \$10,000 per unit, and considering installation and signage costs, approximately \$800,000 would be required to implement a paid parking program in Tahoe City and Kings Beach. While there are vendors that could potential provide these up-front costs, they would require long-term contracts and control over the parking program, which can create friction between the vendor, local staff, and the public.
- There can be significant issues with shifts in parking demand out of the paid parking area and into nearby residential areas, as drivers (particularly employees) strive to avoid the parking fees. While this effect can be addressed through establishment of residential parking permit areas, this in turn adds to enforcement and management costs, and can be a substantial hassle for residents. In addition, paid public parking can increase inappropriate use of private parking lots.
- Paid parking can be seen as a detriment to business, particularly in a retail/dining center that is dependent on a high turnover of customers. It can also be seen as making a community "unfriendly" to visitors. Public acceptance of paid parking typically only occurs when it is seen as necessary to solve a serious and ongoing parking shortage problem. A nearby example of resistance to paid parking occurred in South Lake Tahoe, where a ballot measure in Spring of 2014 was successful in the elimination of paid parking at three popular beach areas (though the onstreet paid parking in the Stateline area remains).

Parking Regulation

California Statutes provide broad powers to local jurisdictions to enact regulations regarding the use of public rights-of-way for public parking. In particular, the California Vehicle Code Section 22506 states that "Local authorities may by ordinance or resolution prohibit or restrict the stopping, standing, or parking of vehicles on a state highway, in their respective jurisdictions, if the ordinance or resolution is first submitted to and approved in writing by the Department of Transportation, except that where maintenance of any state highway is delegated by the Department of Transportation to a city, the department may also delegate to the city the powers conferred on the department."

The conclusions and recommendations of this study are summarized as follows. Planning assumptions that were used in development of these recommendations are as follows:

- It is in the public interest to minimize parking wherever possible, in order to (1) minimize capital and maintenance costs, (2) reduce impervious coverage and other environmental effects, (3) encourage non-auto transit modes, and (4) assist in the development of compact walk-able community land use patterns. Employing parking management strategies rather than construction of new parking spaces (where feasible) helps to minimize parking.
- On the other hand, the private automobile will realistically remain the predominant transportation mode in the region (particularly for longer trips) for the foreseeable future. Unduly reducing parking supply below the level needed to adequate accommodate parking demand only results in conflict between commercial property owners or "spillover" parking in residential areas adjacent to key parking generators.
- In light of the very limited days and hours of peak parking demand in the Tahoe Region, it is appropriate that parking be effectively 100 percent utilized at the busiest of times.

These recommendations have been developed to balance these factors to best meet the overall parking/mobility needs of the region.

Code Requirements

Recommended revisions to parking requirements were developed based upon the review of peer communities and the review of national data (as presented in Chapter 4) and the analysis of observed parking demand presented in Chapter 5. These recommendations also reflect that it is preferable to focus code requirements on those quantities that can be determined as part of the project review process (such as floor area or number of units) and to avoid quantities (such as number of part-time employees) that are a matter of conjecture or of future management decisions.

The recommended rates, (based on the TRPA land use classification system) are presented in Table 19. Note that this new classification system includes land use types for which there are either no available parking demand data or for which demand varies depending on site-specific conditions. These unique land uses are indicated in the table as those that will be determined by use permit to define an appropriate parking requirement.

A review of the existing and proposed code requirement indicates an **increase** in recommended parking rates for the following land use types:

- Auto repair/service or service station
- Recreation Center

Descriped Monther of Dadring Courses	Cara Araa	M-4
Required Number of Parking Spaces	Core Area	Notes
ce Uses		
1 per 1,000 sq.ft. of non-storage area and 1 per 1,000 sq.ft. of storage area		
2 per 1,000 sq.ft. of non-storage area and 1 per 1,000 sq.ft. of storage area		
1.1 per 1,000 sq.ft.		Consistent with ITE
sembly Uses		
Determined by Use Permit		
Determined by Use Permit		
1 per peak employee and .75 car/trailer spot per anticipated daily launch user		
0.25 per permitted capacity		Consistent with ULI. Basing rate on capacity reflects religions that do not use fixed seating.
1 per every 3 day users		
4.2 per 1,000 sq.ft.	√	Consistent with ITE for Library land use
1 per every 3 day users		
		Consistent with ΠΕ
higher)	✓	
6 per 1,000 sq.ft.	<u> </u>	
1 per full-time employee and .33 per mooring or slip		No change. While lower than ITE, reflects lower utilization rates than in marinas closer to permanent residences.
6.66 per 1,000 sq.ft. or 1 space per 3 seats, whichever is	√	
6.66 per 1,000 sq.ft. or 1 space per 3 seats, whichever is	√	
	./	Consistent with ITE
		Eliminates conjecture regarding type of employee at project review
0.4 total student population (students, faculty, staff)		Consistent with ITE
0.25 per students (K – Grade 8) and 0.3 per student (Grade 9 – 12)		Consistent with ULI. Current non-classroom factor difficult to apply.
0.3 per child capacity		
1 space per every 3 day users and 0.5 per peak employee		
1 space per every 3 day users and .5 per peak employee		
3 per 1,000 sq.ft.		
0.33 per seat		
None		
6 per 1,000 sq.ft.		1
0.6 per bed and 1 per live-in employee		
0.33 per 1,000 sq.ft.		Easier to administer if tied to facility area. Reflects typical recreations vehicle occupancy in area.
2.17 per unit		
1 per bedroom for first two bedrooms and .5 per additional bedroom		# Beds is conjecture at project review. Current rate results in more spaces for larger units than peers or other data. Visitors can typically be accommodated in parking not used by empty 2nd home units.
0.6 per resident and 1 per peak employee		
0.45 per resident and 1 per peak employee		
1 per 3 beds and 1 per peak employee		
2 per unit		
	1 per 1,000 sq.ft. of non-storage area and 1 per 1,000 sq.ft. of storage area 2 per 1,000 sq.ft. of non-storage area and 1 per 1,000 sq.ft. of storage area 1.1 per 1,000 sq.ft. Sembly Uses Determined by Use Permit Determined by Use Permit 1 per peak employee and .75 car/trailer spot per anticipated daily launch user 0.25 per permitted capacity 1 per every 3 day users 4.2 per 1,000 sq.ft. 1 per every 3 day users 1 per peak employee and 1.1 per campsite 1 per every 3 day users 4. per 1,000 sq.ft. 6.66 per 1,000 sq.ft. or 1 space per 3 seats, (whichever is higher) 6 per 1,000 sq.ft. 1 per full-time employee and .33 per mooring or slip 3.33 per 1,000 sq.ft. 1 per peak employee and 2 per 1,000 sq.ft. 6.66 per 1,000 sq.ft. or 1 space per 3 seats, whichever is greater 1 per peak employee and 2 per 1,000 sq.ft. 6.66 per 1,000 sq.ft. or 1 space per 3 seats, whichever is greater 3.2 per 1,000 sq.ft. 1 per peak employee and 1.1 per campsite Determined by Use Permit 1 per peak employee and 1.1 per campsite Determined by Use Permit 1 space per every 3 day users 1.3.2 per 1,000 sq.ft. and 1 per campsite Determined by Use Permit 1 space per every 3 day users 1.3.3 per 1,000 sq.ft. and 1 per campsite Determined by Use Permit 1 space per every 3 day users 1.3.3 per 1,000 sq.ft. and 1 per campsite Determined by Use Permit 1 space per every 3 day users 1.3.3 per 1,000 sq.ft. 0.5 per students (K – Grade 8) and 0.3 per student (Grade 9 – 12) 0.3 per shild capacity 1 space per every 3 day users and .5 per peak employee 3 per 1,000 sq.ft. 0.3 per seat None 6 per 1,000 sq.ft. 2.17 per unit 1 per bedroom for first two bedrooms and .5 per additional bedroom 0.6 per resident and 1 per peak employee 0.45 per resident and 1 per peak employee 1 per bedroom for first two bedrooms and .5 per additional bedroom 0.6 per resident and 1 per peak employee	1 per 1,000 sq.ft. of non-storage area and 1 per 1,000 sq.ft. of storage area 2 per 1,000 sq.ft. of non-storage area and 1 per 1,000 sq.ft. of storage area 1.1 per 1,000 sq.ft. Sembly Uses Determined by Use Permit Determined by Use Permit 1 per peak employee and .75 car/trailer spot per anticipated daily launch user 0.25 per permitted capacity 1 per every 3 day users 2.8 per hole 4 per 1,000 sq.ft. 6.66 per 1,000 sq.ft. of 1 space per 3 seats, (whichever is higher) 3.33 per 1,000 sq.ft. 1 per every 3 day users Determined by Use Permit 1 per peak employee and 2.3 per mooring or slip 3.33 per 1,000 sq.ft. 6.66 per 1,000 sq.ft. of 1 space per 3 seats, whichever is greater 3.2 per 1,000 sq.ft. 1 per peak employee and 2 per 1,000 sq.ft. 6.66 per 1,000 sq.ft. or 1 space per 3 seats, whichever is greater 3.2 per 1,000 sq.ft. 1 per peak employee and 1.1 per campsite Determined by Use Permit 1 space per every 3 day users 13.33 per 1,000 sq.ft. and 1 per employee 0.4 total student population (students, faculty, staff) 0.25 per students (K − Grade 8) and 0.3 per student (Grade 9 − 12) 0.3 per child capacity 1 space per every 3 day users and .5 per peak employee 3 per 1,000 sq.ft. 0.33 per seat None 6 per 1,000 sq.ft. 2.17 per unit 1 per bedroom for first two bedrooms and .5 per additional bedroorn 0.6 per resident and 1 per peak employee 1 per bedroom for first two bedrooms and .5 per additional bedroorn 0.6 per resident and 1 per peak employee 1 per bedroom for first two bedrooms and .5 per additional bedroorn 0.6 per resident and 1 per peak employee

		Discount In	
Use	Required Number of Parking Spaces	Core Area	Notes
Retail Trade			
uto, Mobile Home, and Vehicle Dealers	1 per peak employee and 2 per 1,000 sq.ft. of sales area		
		✓	Consistent with ULI, and with observed parking demand at stores in
uilding Materials and Hardware	3 per 1,000 sq.ft. including outdoor sales area		Kings Beach and Tahoe City
ating and Drinking Places	10 per 1,000 sq.ft. or .25 per customer or seat (whichever is	✓	
ood and Beverage Retail Sales	higher) 5 per 1,000 sq.ft.		Consistent with ITE and observed North Tahoe demand.
bod alid beverage retail Sales	o per 1,000 sq.n.	<u> </u>	Consistent with the and observed from Tance demand.
umiture, Home Furnishings and Equipment	2 per 1,000 sq.ft. of non-storage area and 1 per 1,000 sq.ft. of storage area	✓	No change. Existing rate is higher than ITE, but typical home furnishing (boutique) store in North Tahoe differs from typical furniture store nationwide., and probably has higher parking demand rate.
eneral Merchandise Stores	3,33 per 1,000 sq.ft.	✓	
ail Order and Vending	2 per 1,000 sq.ft. of non-storage area and 1 per 1,000 sq.ft. of storage area		
utdoor Retail Sales	1 per employee and 2 per 1,000 sq.ft. of storage area	V	
Service Uses			
nimal Husbandry	4 per 1,000 sq.ft. of outdoor kennel		Counts in both Kings Reach and Tabas City indicate
uto Repair and Service	3.33 per 1,000 sq.ft. of retail/office area and 4 per service bay		Counts in both Kings Beach and Tahoe City indicate more vehicles per bay than existing code.
usiness Support Services	3.33 per 1,000 sq.ft.		
emeteries	1 per peak employee		
ontract Construction Services	3.33 per 1,000 sq.ft.		
ay Care Centers/Pre-Schools	1 per peak employee and .2 per student		Consistent with ITE and ULI
nancial Services	4 per 1,000 sq.ft.		Consistent with ITE
ealth Care Services	5 per 1,000 sq.ft.		Consistent with ITE and slightly higher than ULI
ospitals	7.35 per bed 2 per 1,000 sq.ft. of non-storage area and 1 per 1,000 sq.ft.		Consistent with ITE
aundries and Dry Cleaning Plants	of storage area		
ocal Public Health and Safety Facilities	1 per peak employee and 1 per 1,000 sq.ft.		
ersonal Services Ipelines and Power Transmission	4 per 1,000 sq.ft.	✓	
rofessional Offices	3.5 per 1,000 sq.ft. of		Consistent with ITE and median of peers, slightly lower than ULI
ublic Safety Facilities	1 per peak employee and 1 per 1,000 sq.ft.		Solution that the and median or pooling on granty to the man and
ublic Utility Centers	1 per employee		
egional Public Health and Safety Facilities	1 per peak employee and 1 per 1,000 sq.ft.		
epair Services	2 per 1,000 sq.ft. of non-storage area and 1 per 1,000 sq.ft. of storage area	✓	
ervice Stations	3.33 per 1,000 sq.ft. retail/office area and 4 per service bay		
torage	1 per 1,000 sq.ft. storage area		
reshold-Related Research Facilities	3.33 per 1,000 sq.ft.		
/arehousing	.8 per 1,000 sq.ft.		Consistent with ITE
ransient Lodging			
ed and Breakfast Facility	1 per bedroom and 1 per peak employee	l	
fotel, Motel and Other Guest Facility	1.25 per unit for first bedroom and .25 per additional bedroom and 4 per 1000 sq.ft. of meeting/display area AND 2.5 per commercial/retail area over 1000 sq.ft.		Number of employees is conjecture at project review. Lower incremental parking demand for additional rooms in each unit is consistent with other studies. Still yields parking rate higher than peers, reflecting higher auto access mode share from outside the region. Small retail excluded as it does not generate significant external customers.
imeshare (hotel/motel design)	1.25 per unit for first bedrooms and .25 per additional bedroom in unit		
meshare (residential design)	1.25 per unit for first bedrooms and .25 per additional bedroom in unit		
ransportation and Communication			
irlields, Landing Strips, and Heliports	Determined by Use Permit		
roadcasting Studios	3.33 per 1,000 sq.ft.	T	
ransit Stations and Terminals	Determined by Use Permit		
ransmission and Receiving Facilities	none		
ransportation Routes	none		
ehicle Storage and Parking	2 per 1,000 sq.ft. non-storage area and 1 per 1,000 sq.ft. of storage area		

A decrease in parking rates is recommended for the following land use types:

- Multiple Family Dwelling Units of Two or More Bedrooms
- Residential Care
- Theater
- Auditoriums/Meeting Space With Fixed Seating
- Financial Services
- Health Care Services
- Professional Offices
- Food and Beverage Retail Sales
- General Merchandise Convenience Store
- Small Scale Manufacturing
- Warehousing / Mini-Warehousing
- Colleges

For all other land use types, either there is no change in rate, or the change depends on the details of a specific site (such as number of employees vs. floor area).

Other Code Recommendations

Other recommendations regarding changes in the parking code regulations consist of the following:

- Provide a 5 percent reduction in parking requirements for commercial land uses (as identified in Table 18) in the Tahoe City and Kings Beach commercial core areas. This reflects the higher non-auto travel mode use in these areas (particularly in the future). This reduction should not be allowed for residential or lodging uses, as regional access remains largely depending on the private automobile. In addition, this reduction should not be allowed for public service or regional recreation uses, as they draw travelers from a wider region.
- Maintain the current 10 percent value over parking minimum as a parking maximum.
 Realistically, it is not possible to forecast parking demand in every case to the level assumed when the parking maximum is set to the parking minimum. This infers that there is only one exact parking count that will be achieved, which is not realistic given the inherent variation in parking demand. The maximum value assures that excessive parking leading to excess auto use is not provided.
- For restaurants, allow areas used for snow storage in winter to be striped and counted towards parking required for summertime unenclosed patio dining areas (outdoor seating).
- Snow storage requirements should remain a consideration of plan review on a case-by-case basis
- For special event parking (such as concerts, auditorium use and farmers markets) the requirement for maximum walk distance to off-site parking should be reviewed on a case-by-case basis, if proposed to exceed 500'.

In-Lieu Parking Fee Program

An in-lieu parking fee program should be established for both the Kings Beach and Tahoe City commercial core areas. This program has the following benefits:

- Provides a better pedestrian/shopping environment, by avoiding the need for streetscapes to be interrupted by on-site parking and associated curb cuts. A much better "window shopping" experience can result.
- Enhances the potential for revitalization of older commercial properties by providing another option to meet parking requirements beyond on-site parking.
- Increases the effective use of parking, by allowing shared parking among land uses that have peak parking needs at different times of day or seasons.
- Can generate funds to help cover the shared costs of parking facility construction.
- Increases the ease of understandability and convenience of parking for visitors.

Total parking fees should be based upon recent local costs of new parking spaces. Table 20 presents recent costs for the various smaller public lots recently constructed or planned for construction in the Kings Beach area. As shown, these 151 new public parking spaces are expected to cost a total of \$5,587,000 for land, design, permitting and construction. This equates to \$37,000 per space, of which \$22,600 is for land and the remaining \$14,400 is for development and construction of the lots.

TABLE 20: Re	ecent Public P	Parking Lo	ot Costs in	Kings Bea	ch					v	ē.
						Costs					
)			3		Subtotal:		Design/		
							Design/		Permitting/	Land	Total
	Currently	Number	Land		Est.	Est.	Permitting /		Construction	Cost per	Cost per
Parking Lot	Constructed?	of Stalls	Purchase	Est. Design	Permitting	Construction	Construction	Total	Cost per Space	Space	Space
Rainbow Lot	No	18	\$510,000	\$52,000	\$8,000	\$350,000	\$410,000	\$920,000	\$22,800	\$28,300	\$51,100
Ferrari Lot	No	43	\$900,000	\$52,000	\$8,000	\$350,000	\$410,000	\$1,310,000	\$9,500	\$20,900	\$30,400
Salmon Lot	Yes	22	\$495,000	\$52,000	\$8,000	\$350,000	\$410,000	\$905,000	\$18,600	\$22,500	\$41,100
McGuire Lot	No	28	\$750,000	\$52,000	\$8,000	\$273,000	\$333,000	\$1,083,000	\$11,900	\$26,800	\$38,700
Brook Lot	Yes	20	\$285,000	\$52,000	\$8,000	\$217,000	\$277,000	\$562,000	\$13,900	\$14,300	\$28,200
Minnow lot	Yes	<u>20</u>	\$480,000	\$52,000	\$8,000	\$267,000	\$327,000	\$807,000	\$16,400	\$24,000	\$40,400
TOTAL		151	\$3,420,000	\$312,000	\$48,000	\$1,807,000	\$2,167,000	\$5,587,000	\$14,400	\$22,600	\$37,000
ource: Placer Co	ounty Public Wo	rks, January	2015								

This \$37,000 cost per space could potentially be reduced for individual private property owners through provision of public funds. In addition, a private landowner that provides land for new public parking spaces could receive a credit equal to the value of the land that could be used to offset in-lieu fees for offsite parking needs. It is further recommended that a flat per-space in-lieu fee be applied, rather than the graduated fee schedule depending on the number of spaces needed that some of the other jurisdictions have implemented. A flat fee has the distinct advantage of providing greater equity among program participants.

Other recommended elements of the in-lieu parking fee program are as follows:

- A separate fund should be established in each commercial core to hold funds (as well as
 interest generated by these funds) that is reserved for future provision of parking accessible
 to the public, or other programs to reduce parking demand.
- The program should be limited to non-residential land uses only.
- Payment of fees is typically due prior to issuance of a building permit or a certificate of occupancy if a building permit is not required.
- No specific maximum on the proportion of parking provided through the in-lieu program should be set, as there are some parcels that could potentially be developed with no on-site parking. On the other hand, participation in the program should not be a requirement (as it is in some other jurisdictions).
- It would be appropriate to limit the number of in-lieu spaces that could be provided as part of any one project application. This would ensure that larger projects (such as a new major lodging property) provide at least a portion of parking spaces on-site, and also ensure that an undue level of financial resources not be expended for any one project. A reasonable recommendation would be that in-lieu fee spaces can only be used for up to 50 percent of the number of required parking spaces over the first 50. Alternatively, the ability to pay in-lieu fees can be provided at the discretion of County staff, in which case a specific limit would not need to be identified in the enabling ordinance.
- Typically, establishing an in-lieu fee program requires nothing more than adoption of a County ordinance.

For the in-lieu fee program to succeed, it is important that variances reducing the total required parking for individual projects (either on-site or through payment of the in-lieu fee) be minimized. The in-lieu fee program effectively provides a mechanism to address specific site issues that preclude adequate on-site parking supply. Excessively allowing landowners to avoid paying in-lieu fees could endanger the success of the overall public parking in-lieu program.

Other Parking Management Strategies

The current ability of landowners to develop parking management plans and to enter into agreements for joint use of private parking facilities should be continued and encouraged.

Consideration should be given to providing ongoing funds for compensation to private parking lot owners for time-dependent public parking use. As evidenced by the parking counts documented above, current parking issues are not so much a shortfall of available overall parking as they are a shortfall of parking available for public use. A good example is the lack of public parking during the middle of a busy summer day (driven in large part by beach parking) when lodging properties have relatively available spaces. Counts at lodging properties could identify a minimum number of spaces that are always available between, for example, 10 AM and 5 PM. In exchange for ongoing annual payments, this number of spaces could be signed for public parking during this period. Given the high cost of providing new public parking spaces (as discussed above), this could yield a net savings in public funds needed to expand public

parking capacity. Funding could come from a variety of sources, such as business associations, parking management districts, and beach/special event managers.

This plan should be modified over time to adapt to changes in mobility patterns, development, and overall parking needs. Peak summer season parking utilization counts in the commercial core areas (such as on a 2-year or 4-year schedule) would allow management strategies to better track with changes in parking needs.

Recommended Design Requirements

- Maintain the current standard parking space width of 9', the standard parking space length of 20' and the parallel parking space length of 22'.
- The current 90 degree aisle width of 25 feet should be reduced to 24 feet. The aisle width for a 60 degree parking bay (16') and the current 14' aisle width for 45 degree parking bays should remain unchanged.
- Continue to allow up to 20 percent of spaces to be compact spaces, but for lots of at least 20 spaces. While mountain resort areas typically have a high proportion of larger vehicles, the North Tahoe area's proximity to the Bay Area (with its high proportion of smaller vehicles), the trend to a higher proportion of smaller vehicles in California, and the need to minimize impervious surface in the Tahoe Basin indicates that compact spaces are an appropriate strategy for the region. Compact space size should be maintained at 8' in width and 16' in length.
- Wheel stops create a tripping hazard, can impede disabled access, can block drainage, can
 lead to buildup of litter, can impede snow removal and can increase maintenance costs.
 They should only be used in locations where the bumper overhang of the vehicle can intrude
 into a pedestrian area so as to leave insufficient width, or where a significant potential exists
 for damage to buildings or landscaping. This is a change from current standards.
- Interior landscaping is important in improving the visual quality of larger parking areas as
 well as providing opportunities for rain gardens and other strategies to reduce runoff. The
 provision of "curbless" landscaping islands is preferred (such as is currently seen at Save
 Mart in Tahoe City, Safeway in Kings Beach and the North Tahoe High School.
- Bicycle parking require 10 percent of auto spaces, with a minimum of three, for all new
 construction or addition to commercial, public, industrial uses as well as multifamily dwelling
 units. If exceeding 10 bicycle spaces, this requirement may be reduced by the Planning
 Services Division.
- Stacked parking should continue to be allowed.
- Parallel onstreet parking (limited as necessary for snow removal) should be encouraged in activity centers as a means of improving the sidewalk environment, providing additional public parking and enhancing street life. Angled parking should be discouraged along arterial and collector streets.
- A minimum driveway length of 40 feet should be provided between the edge of pavement of the adjacent street and the first parking space or cross aisle in the parking lot where the total

two-way traffic volume on the adjacent street exceeds 5,000 vehicles per day and the number of spaces served in the lot exceeds 10. This limits the requirement to those locations where there is a reasonable possibility of an inbound traffic queue formed by a parking maneuver in the first space that could noticeably impede traffic or cycling on the adjacent roadway. At other commercial or public lots, the minimum driveway length should be 20 feet. This is a change from the current policy of 40 feet in all locations.

Additional Public Parking

Existing Parking Shortages

The count and utilization data presented in Chapter 5 provides a good background on existing parking conditions by area, by type of parking, and by time of day, which can be used to estimate existing parking shortfalls. Typical parking planning guidelines call for a maximum observed utilization of 85 to 95 percent of all spaces (in order to avoid excessive driving around in search of the last few available spaces). In light of the limited periods of peak demand (as evidenced in Tables 3 and 6) as well as the need to minimize impervious paved surfaces in the Tahoe Region, the factor of 100 percent is applied. The observed parking demand was compared with the parking supply for each study district and for public lots in each area, yielding the existing parking shortfalls as follows:

Kings Beach	
District 1 – Safeway / Brockway	13
District 2 – North Tahoe Beach	8
District 4 – 267 to Secline South of 28	8
District 10 – Bear to Coon South of 28	8
District 12 – Coon to Fox South of 28	16
District 13 – Fox to Chipmunk North of 28	_2
Total	55
Tahoe City	
District 2 – 64 Acres / S. of Truckee River	10
District 7 – North of 28, Grove Street and East	_0
Total	10

Note that the areas of observed shortages are not necessarily the areas where additional parking should be supplied. Some areas may be impacted by overflow parking from other areas (such as District 13 in Kings Beach and District 7 in Tahoe City). In areas like the 64 Acres, it could be argued that expanding parking would simply expand demand. In addition, the high observed parking utilization in the vicinity of North Tahoe Beach and Secline Beach may in part be a temporary effect of the construction (and associated loss of parking) at Kings Beach State Recreation Area; parking counts in the western portion of Kings Beach in a future summer would be warranted before investing in new public parking in the area. As a shift back towards the Kings Beach State Recreation Area would simply shift the overall shortfall to another area with shortfall, however, the total shortfall of 55 spaces remains valid.

Future Public Parking Demand Scenario

The need for public parking could also increase in the future, due to developments that address at least a portion of the necessary parking supply off of the individual development parcel (particularly if an in lieu fee program is instituted). The actual number of public parking spaces

will depend on several factors that are difficult to forecast, including the actual level and type of development in each of the commercial core areas (which is a function of economics as well as planning regulations) as well as the proportion of parking demand that developers choose to provide on-site versus relying on an in lieu fee program. In discussions with Placer County Planning staff, the reasonable projection presented in Table 21 was developed. This was conducted in the following steps:

TABLE 21: Evaluation of Future Public Parking Demand Scenario

Placer Co. Commercial Floor Area Remaining From the 1987 Regional Plan	72,609
Additional CFA Available from 2012 Regional Plan After All Local Jurisdictions Exhaust Remaining CFA	200,000
Assume that Placer County uses all remaining 1987 RP CFA	
Assume that Region uses remaining 1987 CFA, and that Additional CFA is Released	
Assume that Placer County uses 20 percent of the new 200,000 Square Feet of CFA	
Total CFA used in Placer County Over Next 20 Years	112,609
Assume that 30 percent would be located in Kings Beach, 30 percent in Tahoe City, 40 percent elsewhere	
Assume that In Kings Beach and Tahoe City, 50 percent of CFA is retail space, 40 percent is restaurant (ed of quality/bar and fast food), 10 percent is office	qual mix
Assume new 'boutique hotels' totalling 225 rooms in Tahoe City and 150 in Kings Beach	

	Retail KSF	Office KSF	Restaurant KSF	Lodging Rooms	Total
Kings Beach					
Future Development	16.9	3.4	13.5	150	
Parking Rate	3.33	3.5	10	1.25	
Shared Parking Factor (% of Peak)	100%	6%	65%	70%	
Total Parking Required	56	1	88	131	276
Tahoe City					
Future Development	16.9	3.4 /	13.5	225	
Parking Rate	3.33	3.5ø	10.90	1.25	
Shared Parking Factor (% of Peak)	100%	6%	65%	70%	
Total Parking Required	56	1	88	197	342

- 1. A total of 72,609 square feet of Commercial Floor Area (CFA) development capacity is available, remaining from the original allocations in the 1987 Regional Plan.
- 2. If all local jurisdictions exhaust their remaining CFA, under the newly adopted Regional Plan an additional 200,000 CFA could be released. Assuming that Placer County development uses 20 percent of this, total commercial development would be 112,609 SF.
- 3. A reasonable assumption is that 30 percent of this total would occur in Kings Beach (33,800 SF), 30 percent in Tahoe City (33,800 SF), and 40 percent in the remainder of the Placer Tahoe Basin.
- 4. In the two commercial cores, a reasonable assumption is that 50 percent of the new commercial development would be retail space, 40 percent restaurant space, and the remaining 10 percent office.

- 5. It is assumed that new hotels are constructed in Tahoe City and in Kings Beach, totally 225 rooms and 150 rooms, respectively.
- 6. The recommended parking demand rate for each land use type was applied. In addition a factor was applied to reflect the time-of-day and day-of-week parking demand at the time of peak overall public parking demand (2 PM on a Saturday). This results in the total parking demand for future development.

As shown, this results in 276 additional parking spaces required in Kings Beach, and 342 in Tahoe City. The proportion of this overall increase in parking need that can be accommodated within the individual development lots will depend on site specifics.

It should be stressed that this is only one potential scenario for future development in the commercial core areas. At present, the update of the Placer County Area Plan as well as a number of private development projects results in a high degree of uncertainty regarding actual future development and associated need for offsite parking. As plans firm up, the need for public parking should be updated.

Locating Additional Public Parking

There are two general public parking strategies that could be considered for the North Tahoe commercial centers: intercept parking, and integrated parking. Under intercept parking, large public parking facilities are constructed at the gateways to the community, and sidewalks or frequent public shuttles are relied on to make the connection between the intercept locations and the various trip generators. For instance, in Tahoe City this could consist of expansion of public parking in the 64 Acre area (or Caltrans yard area) on the southwest side and across from the State Recreation Area on the northeast side. Experience, however, indicates that this approach does not function well in all but the most restrictive or intense activity centers. As an example, the City of Aspen attempted an intercept program using a new 300-space parking lot at the "downvalley" entrance to town, served by a new 15-minute-frequency transit route. Only 20 to 30 drivers per day, however, chose to use the service, with the remainder finding more convenient parking within a closer walking distance, such as in residential neighborhoods. The poor ridership generated by the Tahoe City Trolley (before it was discontinued) is also evidence of drivers unwillingness to use intercept parking. As this strategy effectively asks a driver who is nearing their destination to instead park and wait up to perhaps 15 minutes for a transit vehicle, it is not surprising that most drivers choose instead to park as close as possible to their destination (even if it requires parking in a private lot or neighborhood) unless the intercept program is accompanied by parking restrictions (or paid parking at a significant rate).

Integrated parking relies on a series of smaller public parking facilities scattered throughout the commercial area, within convenient walking distance of trip generators. These facilities may be lots (where land is relatively inexpensive), structures, or joint development facilities. This is effectively the strategy that has been implemented in recent years in Tahoe City as well as in Kings Beach. Other examples in the region can be found in Petaluma, Los Altos, and Monterey. This approach has the advantages of enhancing convenience to customers by placing parking within convenient walk distance of destinations, avoiding the need for motorists new to the area (such as tourists) to either figure out their parking strategy in advance or backtrack to the intercept facilities, reducing overflow parking issues in neighborhood or private parking areas, and avoiding the need for ongoing funding of shuttle services. This integrated strategy is recommended for the North Tahoe commercial centers.

Beyond the total spaces needed, there are many factors that must be considered when identifying the optimal location or locations for additional public parking:

- Availability of land, and of willing sellers or partners.
- Visibility and accessibility to motorists (particularly important in a resort community)
- Potential for joint development (particularly where other development can help screen parking behind other uses)
- Cost of land, and cost of construction (lot vs. above-ground structure vs. below-ground structure)
- Proximity to developments choosing to use the in lieu parking program.
- Pedestrian travel routes, as well as the interaction between motorists and pedestrians crossing the state highways.
- Overall consistency with community land use, mobility and urban design plans.

By commercial core area, the following are finding regarding parking options:

Kings Beach

- The greatest need for additional public parking (both at present and in the future) is in the
 three key blocks between Deer Street and Fox Street. While the beach is a strong
 generator of parking demand, the commercial developments (largely on the north side of SR
 28) also generate need for off-site parking, which could well expand as development occurs.
- At least in the summer of 2014, there was a strong need for additional public parking in the North Tahoe Beach / Secline Beach area. This may have, to a degree, been a result of limited access/parking to the KBSRA beach due to construction. Assuming that counts in future years confirm this use pattern, additional public parking serving this western end of the commercial core area would be warranted.
- Additional public parking on the block between Secline Street and Deer Street, as well as in the area east of Fox Street, will largely be a function of potential future development.

There are multiple potential opportunities for additional public parking in the Kings Beach area, including the following:

- The old redevelopment site on the south side of SR 28 opposite Caliente.
- The parcels previously considered under the "Town Center" proposal, including the old KFC site on the north side of SR 28 west of Fox Street.
- The area to the north of Rite-Aid.
- Joint redevelopment of one or more of the older lodging properties west of Deer Street.

 Improvements (including parking improvements) to the Secline Beach area, including potential use of the existing Beacon gas station site.

Tahoe City

- While overall there are always spaces available in the Tahoe City commercial core area, available spaces at peak times are limited to private lots (which typically are limited to customer use only). Excluding the lots in the 64 Acres area, there are only 355 public lot parking spaces in Tahoe City (along with 273 spaces along public roads). Public lots fill to capacity at peak times, both in the 64 Acres area as well as along SR 28. It is worth noting that the 59 spaces in the lower Tahoe Lake School lot are considered in the public lot supply for purposes of this study. It is also worth noting that, though its use is limited in off-seasons, utilization of the public Jackpine Lot is high throughout the week in the summer.
- Public parking is in particularly short supply in the core area between roughly Cobblestone
 on the west and Jackpine Street on the east.
- Even with the addition of 131 parking spaces at the Tahoe City Transit Center, a parking deficit still occurs in the 64-Acre area on peak summer days.

Potential opportunities for additional public parking in the Tahoe City area, include the following:

- Development of the lower TCPUD lot into a public lot (specifically for trail and river access).
- The vicinity of the Bechdolt Building and Tahoe City Golf Course access road, potentially as part of renovation/reconstruction project.
- Provision of a modest amount of public parking on the old Fire Station site, perhaps beneath a public plaza deck.
- Extension of the existing Grove Street lot southwestward to connect with Cobblestone Center parking. This could also have some modest benefits to circulation.
- The private vacant lot on the southwest corner of Jackpine Street and Tahoe Street.
- Joint development that includes new public parking in the Lighthouse Center area.

APPENDIX A DETAILED PARKING COUNT TABLES

		1: Kings Beach Detailed Parking Counts		Saturday, J	20 25-21								1	
р	Count Zone #	Area Name	Capacity	10:00 AM	11:00 AM	12:00 PM	1:00 PM	our Beginnin 2:00 PM	g 3:00 PM	4:00 PM	5:00 PM	6:00 PM	Peak hour	Maximu Utilizati
	101	Safeway	198	181	197	196	197	182	186	173	177	187	11:00 AM	99%
	103	Brockway Golf Course	72	45	49	47	46	44	31	31	34	41	11:00 AM	68%
	102	North Tahoe Beach	37	45	45	41	40	43	42	37	22	25	10:00 AM	1229
	104	Sierra Country Tires	22	16	17	14	14	16	15	15	13	13	11:00 AM	779
	J	SR 28 - N side - Secline to SR 267	10	3	9	8	12	12	8	6	5	5	1:00 PM 12:00 PM	120
	106	TransAm Gas Station South Secline Street - all	6 15	1 11	3 17	25	2 21	2 20	2 19	20	10	6	12:00 PM	167
	1	Secline St – Rainbow to Golden	2	0	0	1	0	2	16	8	4	3	3.00 PM	800
	2	Rainbow Ave - Secline to Deer	35	2	6	19	23	27	24	9	8	5	2:00 PM	779
	3	Deer St Rainbow to Golden	8	3	0	0	0	1	0	0	0	0	10:00 AM	389
	4	Deer St - SR 28 to Rainbow	9	10	11	9	15	11	9	9	5	6	1:00 PM	167
	154	Tahoe Paddle and Oar - Front, Side, Back	21	14	13	14	15	20	17	13	9	3	2.00 PM	959
	155 155.5	Rite Aide Behind Rite Aide	22 0	8	8	10	8	8	8	14	10	5	4:00 PM 1:00 PM	649
	156	Snow Peak Lodge and Ann's Cottages	8	9	9	9	9	7	7	8	11	9	5:00 PM	138
	157	Big 7 Motel and Hiro Sushi	39	6	3	4	5	4	3	2	4	17	6:00 PM	449
	158	Little Bear Cottages	11	8	9	8	8	7	7	6	8	9	11:00 AM	829
	159	Ace Hardware (Secline side - in front of building and lot)	12	10	5	9	8	9	7	6	4	1	10:00 AM 1:00 PM	839
	160	Secline W side (across from hardware store) KB Library	8	3 2	7	7 2	9	8	7	8	1	1	2:00 PM	113 759
	162	Front (SR 28 side) of Ace Hardware	4	0	0	0	0	1	1	0	0	0	2.00 PM	259
	108	Brockway - to beginning of Ferran's	8	12	15	20	23	21	24	23	17	11	3:00 PM	300
	109	Peluso's Area - all strip malls from Secline to motels	22	8	9	13	14	12	13	- 11	14	10	1:00 PM	649
	110	Gold Crest Motel	18	8	6	6	5	5	10	- 11	10	12	6:00 PM	679
	111	Ferran's Crown Resort - front and back	76	52	44	48	53	54	56	56	57	58	6:00 PM	769
	113	Java Hut / Steamers	17 18	6	8	15 10	8 15	12 14	12 18	13 19	13 18	13 16	12.00 PM 4:00 PM	106
	114 G	Sun N Sand Lodge SR 28 - S side - Secline to and Including Falcon Lodge	18	17 2	3	3	5	4	5	3	4	5	1:00 PM	719
	5	Trout Ave - Deer to Bear	26	9	14	18	24	24	20	19	20	15	1:00 PM	929
	6	Rainbow Ave Deer to Bear	14	3	8	14	28	32	16	17	8	9	2:00 PM	229
	7	Bear St - Rainbow to Golden	8	1	1	1	3	6	6	4	2	3	2:00 PM	759
	8	Bear St - Trout to Rainbow	6	0	0	3	4	3	4	1	1	0	1:00 PM	67
	9	Bear St - SR 28 to Trout	20	7	15	15	17	18 5	16 5	13	11	10	2:00 PM 12:00 PM	909
	149 150	Tahoe 99 Cent and More (include "Jesus" lot from Bear) Chevron	17 17	4 5	4	6	5	13	11	10	5	5	2:00 PM	769
	151	Las Panchitas (front and back)	11	2	3	3	8	8	6	4	7	9	6:00 PM	829
	152	Tahoe Mountain Sports (back lot)	6	1	ő	0	2	4	0	o	o	0	2:00 PM	679
	163	Seven Pines Motel	9	3	3	3	4	3	3	4	4	4	1:00 PM	449
	164	Community House	10	1	1	1	1	6	5	3	2	1	2:00 PM	609
	F	SR 28 - N side - Panchitas to Deer	12	0	5	6	6	6	4	6	6	0	12:00 PM	509
	115	North Tahoe Event Center - Front and Side	8 13	2 13	17	3 18	1 18	1 20	1 18	4 16	5 16	6 17	6:00 PM 2:00 PM	759 154
	116 117	Jason's - Front and Side Jason's - Back (lake side)	21	15	16	18	19	16	19	15	18	18	1:00 PM	909
	118	Kings Beach State Park - main parking	76	71	70	73	71	72	74	61	61	55	3:00 PM	979
	10	Trout Ave - Bear to Coon, include Sierra Sun Cottages	25	2	8	14	17	21	18	13	11	5	2:00 PM	849
	11	Brook Ave Bear to Coon	21	4	11	14	15	11	11	10	4	4	1:00 PM	719
	12	Coon St - Trout to Rainbow	8					Construction					10:00 AM	09
	13	Coon St - Brook to Trout	8		5	9		Construction		5	3	3	11:00 AM 1:00 PM	09 500
	14 136	Coon St – SR 28 to Brook Seven Eleven	13	1 8	6	8	10	8	6	6	7	6	10:00 AM	629
	138	Grigg's Construction (front) Robin Nest / Well Being Skin Care	8	4	6	2	3	2	2	2	2	2	11:00 AM	
	139	Grid / China Express	11	2	7	13	14	8	9	8	12	10	1:00 PM	127
	140	Central Market (Brook Ave side)	24	9	11	11	14	19	12	10	9	8	2:00 PM	799
	141	Plumas Bank	14	6	6	6	13	12	12	7	3	4	1:00 PM	93
	142	King Building	16	6	6	8	7	6	4	6	3	3	12:00 PM	509
	144	La Mexicana Recek Ava Rublio Let	8 20	3 19	4	6 20	2 19	4 18	18	4 15	5 15	4	12:00 PM 12:00 PM	
	146	Brook Ave Public Lot Bank of the West	13	19	3	4	5	7	7	6	6	3	2:00 PM	54
	E	SR 28 - N side - Central Market to Bear	8	3	1	1	2	3	2	0	1	2	10:00 AM	
)	н	SR 28 - S side - Beach Parking entrance to Coon (roundabout)	32	10	23	38	38	40	39	25	20	19	2:00 PM	125
	10.5	Trout Ave Coon to Fox	14	0	6	11	13	14	15	14	5	5	3:00 PM	107
	15	Brook Ave - Coon to Fox	37	8	13	15	19	25	14	12	4	2	2:00 PM	689
	16	Salmon Ave — Coon to Fox	26	4	17	26	28	27 Construction	20	11	6	5	1:00 PM 11:00 AM	108
	17 18	Fox St Salmon to Brook Fox St SR 28 to Salmon, include by KFC fence	13	0	2	2	5	Construction 3	5	3	1	1	1:00 AM	167
	132	North Tahoe Village (Liquor Store)	21	4	11	21	17	20	15	13	14	13	12:00 PM	
	133	Hospice Thrift and Tattoo Shop	24	9	16	18	17	12	8	8	4	6	12:00 PM	75
	134	Post Office	17	0	0	1	1	2	4	1	2	1	3:00 PM	24
1	135	Placer County Public Health (Clinic)	12	5	5	5	5	6	7	2	1	1	3:00 PM	58
102	C	SR 28 - N side - Fox to Coon (roundabout)	10	5	11	12	10	15	12	9	6 8	8	2:00 PM 3:00 PM	150
2	21.1	Brockway Vista Ave Coon St to Midpoint Coon Street Boat Ramp Area - all along Coon from 28 to water	17 34	5 24	10 43	14 47	18 42	20 45	21 42	14 53	42	11	4:00 PM	156
	120	Kayak Shop / Enviro Rents, include Rockwood Tree Service	5	5	7	7	8	8	6	6	6	7	1:00 PM	160
	122	Log Cabin Café, include Sierra Shirts and Shades	11	10	14	18	14	6	5	6	3	ò	12:00 PM	
2	123	Subway include Brockway Bakery and Tahoe Cuts Hair Salon	16	7	6	6	6	15	2	3	2	1	2:00 PM	94
2	D	SR 28 - S side - Fox to Coon (roundabout)	7	2	8	7	10	12	11	4	2	0	2:00 PM	171
3	19	Minnow Ave Fox to Chipmunk	7	1	2	5	7	8	5	2	1	0	200 PM	114
	20	Chipmunk Ave SR 28 to Minnow	15	5	5	8	13	14	14	16	17	22	6.00 PM	147
3	128	Callente	22	5	4	13	15	22	15	13	16	24 33	6:00 PM 6:00 PM	109
3	129 130	Car Wash Minnow Ave Public Parking lot (accessible from 28 also)	17 22	0 5	3 12	0 21	20	19	0 18	16	15	21	12:00 PM	
3	A	SR 28 - N Side - Chipmunk to Fox	25	10	4	10	20	17	18	14	12	10	1:00 PM	80
	21.2	Brockway Vista Ave Midpoint to Chipmunk	25	7	14	22	27	29	31	20	12	8	3:00 PM	124
	21.5	Chipmunk Ave SR 28 to Brockway Vista	5	o	0	0	4	5	6	3	3	3	3:00 PM	120
1	124	Char Pit area	10	3	4	6	8	11	9	7	8	8	2:00 PM	110
1	125	Stevenson's Holiday Inn	23	3	2	6	20	21	22	23	20	13	4:00 PM	100
1	126	Ta-Tel Lodge	13	5	4	7	5	5	6	6	7	5	12:00 PM	
1		Launderette (green building)	6	1	0	1.	0	3	3	1	1	0	2.00 PM	50°
4	В	SR 28 - S Side - Chipmunk to Fox	22	16	4	14	16	15	18	13	6	9	3:00 PM	

TAE	3LE A	TABLE A-2: Tahoe City Detailed Parking Counts		Saturday, Jı	Saturday, July 12, 2014												
Map		*			П		Hour	Hour Beginning								M	Maximum
Zone	- 1	Zone # Area Name	Capacity	10:00 AM	1:00 AM 1:	12:00 PM 1:	00 PM 2:	00 PM 3:	00 PM 4:	.00 PM 5:	00 PM 6	00 PM	Peak hour	Min	Avg	Jax Ct	Utilization
-	224	Gas Stations - both (do not counts cars parked in fueling area)	24	11	13	19	20	23	21	14	ത	1	2:00 PM	ഗ		23	%96
-	225		25	7	4 (4 (e .	9 (4 (4 (4	د د	10:00 AM	ი (4.6	7	13%
- 0	226	TCPUD - lower lot	141	- 1,	- G	0 20,	2,00	140	143	130	_ y	0 2	3:00 AM	20		,,	2%
10	202		131	14	3 5	3 %	7.2	1 2	100	8 8	3 8	27	3.00 PM	13 1		2 5	83%
1 01	203		27	16	2 2	28	58	25	15	27	17	28	4:00 PM	15		. 72	100%
2	206		12	4	8	9	13	14	18	14	6	7	3:00 PM	က		18	150%
7	207		40	12	35	42	45	4	45	31	31	24	1:00 PM	12		45	113%
7	208	Gatekeeper's public parking	59	23	59	33	48	20	53	45	43	20	3:00 PM	23		53	%06
7	7		0	0	0	0	-	0		0	0	0	1:00 PM	0		_	1
7	×	SR 89, E. Side - Fanny Bridge to 64 Acres turn	0	0	0	0	2	n	0		0	0 !	2:00 PM	0		9	1
e .	209	Visitors Center, including new lot	40	50	20	23	23	52	77	23	17	15	2:00 PM	15		52	63%
m (212		90	36	87.8	53	30	82 1	30	8 8	31 30	5 !	10:00 AM	1 28		200	64%
ო ი	222		82	8 8	88 9	£ 6	3 33	2	8/8	68	29	57	11:00 AM	57		8 1	%201
, ·	573		0 t	80 0	7 7	200	0 4	c c	4 0		47		2.00 PINI	<u>o</u> ,		6	0,77
4 •	212		o 6	n c	= ;	2 (2 ∘	ם מ		۽ ه	4 1		11:00 AM			= \$	13%
1 <	220	Swigalus Haluwale	0 K	, ç	5 É	2 %	• 5	2.	. 0	2 4	- 10	۰ ۱	11:00 AM	٠ ٢		2 5	55%
+ <	22.		13.5	, a	£ 5	5 5	. 2	5 &	8 6	3 8	31	2 2	11-00 AM	2 2		2 5	82%
ı.	213		24	19	26	26	23	19	13	19	12	1	11:00 AM	1		26	108%
2	214		49	40	45	47	4	33	39	39	37	31	12:00 PM	31		47	%96
2	217		91	39	40	46	48	52	44	50	45	49	2:00 PM	39		52	57%
2	218		33	11	18	14	17	18	12	14	9	14	11:00 AM	9		18	55%
2	219		71	12	13	18	20	14	19	18	15	19	1:00 PM	12		20	28%
2	_	SR 28, S-side - Mackinaw to across from Cobblestone	œ	e	4	7	9	2	9	2	4	-	12:00 PM	-		7	88%
S	Σ		24	10	14	14	14	17	15	18	00	14	4:00 PM	00		18	75%
9	110		104	8	37	8 :	1	98	22	61	47	35	2:00 PM	33		98	83%
ω (11		38	<u>ج</u> ج	g .	24	1 33	g .	g ,	. 21	e,	23 0	11:00 AM	<u>ه</u> ر		33	87%
ى م	112		n 7	ω ;	χ (-!	, ;	, c	٠.	o ;	1 0	ه د	10:00 AM	0 (, c	88%
ى م	2 0	Sp. 20 N. side. Command American Point Value Delivers	7 6	o ę	<u>.</u> 6	- 8	2 0	2 6	, t	2 €	- ;	5 م	3:00 AM	٥ 4		2 5	%0%
o (c	ם כ	SR 28, N-side - Glove to America's Dest Value	6 6	2 4	2 12	3 4	1	. E	3 =	15	. L	16	11:00 AM	5 =		17	89%
7	114		43	40	43	44	43	43	40	35	39	34	12:00 PM	34		44	102%
	115		16	17	17	24	23	23	22	22	18	22	12:00 PM	17		24	150%
7	116		59	56	65	58	28	71	67	58	45	54	2:00 PM	45		71	120%
7	117		15	7	9	7	œ	œ	12	10	6	6	3:00 PM	9		12	%08
7	118		34	20	23	22	26	23	32	59	25	21	3:00 PM	20		32	94%
7	119		38	6	11	15	17	21	36	29	38	26	5:00 PM	თ		38	100%
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ത	106		163	58	98	110	133	141	130	129	137	137	2:00 PM	58		141	87%
ത	E2	SR 28, S-side - Marina Driveway to E. Town	24	7	10	10	10		14	12	13	=	3:00 PM			14	28%
		TOTAL	2586	1241	1437	1616	1734	1793	1755	1682	1479	1356	2:00 PM	1241 1	1565.9 1	1793	%69

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		: Kings Beach Parking Utilization by Day of V		Highest Utilization of A						Maximum	
ne	Area	Area Name	Capacity	Sun	Mon	Tue	Wed	Thur	Fri	Sat	Utilizatio
1	101	Safeway	198	115	120	138	124	115	138	182	92%
1	103	Brockway Golf Course North Tahoe Beach	72 37	44 40	29 35	48 35	42 37	26 39	42 36	44 43	67% 116%
2 3	102 104	Sierra Country Tires	22	8	7	12	14	18	10	16	82%
3	J	SR 28 - N side - Secline to SR 267	10	12	2	4	2	10	12	12	120%
4	106	TransAm Gas Station	6	3	4	4	3	2	4	2	67%
4	107	South Secline Street - all	15	28	10	16	6	7	15	20	187%
5	1	Secline St – Rainbow to Golden	2	0	0	4	2	0	1	2	200%
5	2	Rainbow Ave Secline to Deer	35 8	12 0	4 0	10 0	10 0	25 2	17 0	27 1	77% 25%
5 5	3 4	Deer St Rainbow to Golden Deer St SR 28 to Rainbow	9	6	9	9	9	7	11	11	122%
5	154	Tahoe Paddle and Oar - Front, Side, Back	21	7	14	17	4	18	19	20	95%
5	155	Rite Aide	22	5	13	10	14	17	12	8	77%
5	156	Snow Peak Lodge and Ann's Cottages	8	7	12	7	11	11	10	7	150%
5	157	Big 7 Motel and Hiro Sushi	39	9	2	3	7	7	6	4	23%
5	158	Little Bear Cottages	11	9	4	4	4	5	5	7	82%
5	159	Ace Hardware (Secline side - in front of building and lot)	12 8	0 0	8 3	10 3	10 3	12 5	11 3	9 8	100%
5 5	160 161	Secline W side (across from hardware store) KB Library	8	0	3	2	6	2	2	6	75%
5	162	Front (SR 28 side) of Ace Hardware	4	3	1	7	2	2	ō	1	175%
6	108	Brockway - to beginning of Ferrari's	8	11	6	12	5	6	7	21	263%
6	109	Peluso's Area - all strip malls from Secline to motels	22	11	11	15	10	15	11	12	68%
6	110	Gold Crest Motel	18	3	6	6	3	4	7	5	39%
6	111	Ferran's Crown Resort - front and back	76	55	49	51	51	45	55	54	72%
6	113	Java Hut / Steamers	17 18	17 5	12 6	16 5	9 5	9 4	14 4	12 14	100% 78%
6 6	114 G	Sun N Sand Lodge SR 28 - S side - Secline to and Including Falcon Lodge	18 7	2	0	1	6	5	8	4	114%
ช 7	5	Trout Ave Deer to Bear	26	11	18	20	20	. 26	27	24	104%
7	6	Rainbow Ave Deer to Bear	14	3	1	4	7	10	24	32	229%
7	7	Bear St Rainbow to Golden	8	1	1	1	1	1	2	6	75%
7	8	Bear St Trout to Rainbow	6	0	2	2	5	3	4	3	83%
7	9	Bear St SR 28 to Trout	20	2	13	10	12	12	14	18	90%
7	149	Tahoe 99 Cent and More (include "Jesus" lot from Bear)	17	4 3	6	4 8	9 7	5 6	7 7	5 13	53% 76%
7 7	150 151	Chevron Las Panchitas (front and back)	17 11	10	4 5	4	4	10	11	8	100%
7	152	Tahoe Mountain Sports (back lot)	6	4	3	1	1	4	1	4	67%
7	163	Seven Pines Motel	9	5	4	4	5	5	1	3	56%
7	164	Community House	10	4	7	7	8	7	8	6	80%
7	F	SR 28 - N side - Panchitas to Deer	12	0	2	2	6	7	5	. 6	58%
8	115	North Tahoe Event Center - Front and Side	8	3	2	4	4	3	4	1	50%
8	116	Jason's - Front and Side	13	13	12	15	13	15	20	20	154%
8	117	Jason's - Back (lake side)	21	18	18	14	19	21	19	16	100% 95%
8 9	118 10	Kings Beach State Park - main parking Trout Ave Bear to Coon, include Sierra Sun Cottages	76 25	17 18	70 18	63 7	65 9	72 10	69 8	72 21	84%
9	11	Brook Ave Bear to Coon	21	3	15	12	18	12	11	11	86%
9	12	Coon St Trout to Rainbow	8	Const.	0	1	3	1	1	0	38%
9	13	Coon St Brook to Trout	8	Const.	Const		Const	. Const.	Const.	Const.	
9	14	Coon St SR 28 to Brook	2	7	0	6	4	0	Const.		400%
9	136	Seven Eleven	13	5	4	4	7	6	4	3	54%
9	138	Grigg's Construction (front) Robin Nest / Well Being Skin Care	8	4	9	12	13	10	9	2	163%
9	139	Grid / China Express	11 24	12 13	8 15	9 10	15 16	12 22	10 14	8 19	136% 92%
9 9	140 141	Central Market (Brook Ave side) Plumas Bank	14	9	15	8	9	7	5	12	107%
9	142	King Building	16	6	6	7	8	6	10	6	63%
9	144	La Mexicana	8	3	3	4	4	4	4	4	50%
9	146	Brook Ave Public Lot	20	18	17	18	20	20	20	18	100%
9	147	Bank of the West	13	3	5	4	3	6	12	7	92%
9	E	SR 28 - N side - Central Market to Bear	8	9	8	7	3	7	0	3	113%
10	H 10.5	SR 28 - S side - Beach Parking entrance to Coon	32 14	40	8	12 5	7 6	33 7	40 5	40 14	125% 100%
11 11	10.5 15	Trout Ave Coon to Fox Brook Ave Coon to Fox	14 37	12 8	12 4	11	5	6	Const.	\$1000000000000000000000000000000000000	68%
11	16	Salmon Ave Coon to Fox	26	12	22	18	25	24	28	27	108%
11	17	Fox St Salmon to Brook	13	Const.	Const	. Const.	Const		Const.	100	
11	18	Fox St SR 28 to Salmon, include by KFC fence	3	3	7	4	6	5	3	3	233%
11	132	North Tahoe Village (Liquor Store)	21	4	9	11	15	10	18	20	95%
11	133	Hospice Thrift and Tattoo Shop	24	13	21	19	24	12	15	12	100%
11	134	Post Office	17 12	0	4 11	5 10	9 12	7	7 14	2 6	53% 117%
11 11	135 C	Placer County public health (Clinic) SR 28 - N side - Fox to Coon (roundabout)	10	6	13	11	14	12	14	15	150%
12	21.1	Brockway Vista Ave Coon St to Midpoint	17	13	9	6	6	16	15	20	118%
12	120	Coon Street Boat Ramp Area - all along Coon from 28 to water	34	45	35	37	36	38	36	45	132%
12	121	Kayak Shop / Enviro Rents, include Rockwood Tree Service	5	5	12	10	7	13	14	8	280%
12	122	Log Cabin Café, include Sierra Shirts and Shades	11	10	14	10	14	13	16	6	145%
12	123	Subway include Brockway Bakery and Tahoe Cuts Hair Salon	16	4	6	11	8	10	6	15	94%
12	D	SR 28 - S side - Fox to Coon (roundabout)	7	3	8	8	6	8	11	12	1719
13	19	Minnow Ave Fox to Chipmunk	7 15	9	3	3	15	4	4	8	214%
13	20	Chipmunk Ave SR 28 to Minnow	15 22	11 10	9	3 3	6 3	5 2	11 9	14 22	93% 100%
13 13	128 129	Caliente Car Wash	22 17	5	4	4	3	6	5	0	35%
13 13	130	Minnow Ave Public Parking lot (accessible from 28 also)	22	12	7	8	2	14	19	19	86%
13	Α	SR 28 - N Side - Chipmunk to Fox	25	13	7	8	8	10	17	17	68%
14	21.2	Brockway Vista Ave Midpoint to Chipmunk	25	20	13	10	8	23	22	29	1169
14	21.5	Chipmunk Ave SR 28 to Brockway Vista	5	0	0	0	0	0	. 0	5	1009
14	124	Char Pit area	10	11	12	5	15	14	14	11	150%
14	125	Stevenson's Holiday Inn	23	3	4	4	5	4	5	21	91%
14 14	126	Ta-Tel Lodge	13	15	5	4 0	5 2	5 3	6	5 3	115% 67%
	127	Launderette (green building)	6	2	3	U	2	Res88887 9888	. 4	E-2000/09/00/00/00/00/00/00/00/00/00/00/00/	0/70

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Company Comp	TAE	BLE A	A-4: Tahoe City Parking Utilization by Day of W	/eek	Highest Utilization of Area or Zone Shaded							
1 225 TOPLO - upper lot							_		-		0	
1 225 TOPUD - Super lot 22 6 88 35 58 88 38 34 6 73% 73% 122 122 TOPUD - Sowar lot 41 0 3 4 3 3 5 5 0 12% 122 122 TOPUD - Sowar lot 41 0 3 4 3 3 5 5 0 12% 122 122 TOPUD - Sowar lot 41 0 3 4 3 3 5 5 0 12% 123 122 125 20 120 120 120 120 120 120 120 120 120	Zone											
1 228 TOPUD - lower lot 41								A-459-4550-8950-8750-8	HONOGONOMONIOS	M.		
2 201 64 acres 2 202 The City Transit Center 3 3 3 38 98 85 81 82 105 900 79% 2 203 Bridgotender 2 202 The City Transit Center 3 2 20 Bridgotender 2 20 30 Bridgotender 2 30 30 37 93 10 0 0 3 3 1 1 1 1 2 0 0 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1												
2 200 Bridgelender 3 3 1 5 0 14 179% 2 207 Brink of the West 2 203 Bridgelender 2 203 Bri												151%
2 200 64 Acres banch to (E side of SR 98, Sr Bank of the West) 12 12 12 6 6 3 1 1 5 6 1 14 117% 2 201 Gatkeeper's public parking of the West 1 40 34 18 17 15 18 16 2 93% 2 201 Gatkeeper's public parking 1 40 0 1 1 0 0 2 8 0 39% 2 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1												
2 207 Bank of the West 2 208 Gatebeger's public parking by 2 2 108 Gatebeger's public parking 59 55 35 5 35 5 35 5 34 1 50 93 2 2 1 5 R8 9, W. Side - 04 Acres turn-out - all 0 0 1 1 0 0 0 2 5 0 0 - 1 0 0 3 3 7 8 9 1 1 0 1 0 1 0 0 1 1 0 0 0 2 5 0 0 - 1 0 0 0 1 1 0 0 0 2 5 0 0 - 1 0 0 0 1 1 0 0 0 2 5 0 0 - 1 0 0 0 1 1 0 0 0 2 5 0 0 - 1 0 0 0 1 1 0 0 0 2 5 0 0 - 1 0 0 0 1 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0												
2 208 Gatskeeper's public parking 2 J S R89 W, Side - 46 Acres turn-out of Fanny Bridge - all 3 O 1 O 0 1 O 0 2 5 0 0 3 4 4 1 5 0 93 4 1 1 0 0 93 2 7 1 1 1 0 0 1 0 0 2 5 0 0 3 1 1 0 0 1 1 0 0 2 2 7 1 1 1 0 0 1 1 0 0 2 2 7 1 1 1 1 0 1 1 1 0 0 3 2 7 1 1 1 1 0 1 1 1 0 0 3 2 7 1 1 1 1 1 0 1 1 1 0 0 3 2 7 1 1 1 1 1 0 1 1 1 0 0 3 2 7 1 1 1 1 1 0 1 1 1 0 0 3 2 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1												
2 J SR 89, W. Side A Acres ium out to Fanny Bridge = all 0 0 0 1 1 0 0 2 5 5 0 0												
3 209 Visitors Center, Including new lot							0	0		5	0	
3 222 MecKhaw Road - all public and commercial parking 3 222 Front Street Station, Railing parking lots - all 3 222 Front Street Station, Railing parking lots - all 4 210 Willard's Sports 4 211 Swigard's Hardware 4 210 Willard's Sports 4 211 Swigard's Hardware 4 210 Govern, Blank of America, Plumas Bank 6 8 8 12 10 13 1 6 6 72% 6 212 Govern, Blank of America, Plumas Bank 7 9 75 88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8												
3 222 Dam Carle, River Gill, Gary Davis lots - all												
3 223 Front Street Station, Raffling parking lots - all 4 210 Willard's Sports 4 211 Swigard's Hardware 4 220 Golf Course, Bank of America, Plumas Bank 7 8 31 48 44 43 45 55 37 71% 4 221 SarveMart 5 221 SarveMart 6 221 SarveMart 7 8 31 48 44 43 45 55 37 71% 5 213 SarveMart 6 221 SarveMart 7 8 31 48 44 43 45 55 37 71% 6 213 Str 28 Publis Pathing by Commons Beach 7 8 31 48 44 43 45 55 37 71% 6 213 Str 28 Publis Pathing by Commons Beach 8 130 75 65 68 80 0 67 88 89 06% 6 213 Str 28 Publis Pathing by Commons Beach 9 26 21 61 61 62 62 24 88 39 10% 5 217 America's Best Value and Blue Agave lots - all 9 1 63 42 36 35 40 18 52 48 39 10% 5 217 America's Best Value and Blue Agave lots - all 9 1 63 42 36 35 40 18 52 69% 5 219 Hernikson Building 7 1 15 28 28 28 28 35 36 14 51% 5 218 Pathe Pleters, Taholoc City Lumber lots - all 8 27 9 20 7 7 7 7 5 338% 6 110 Cobblestone - All 10 Cobblestone - All 11 80 Tree Center - All 10 4 75 10 94 90 77 7 7 5 338% 6 111 Big Tree Center - All 10 4 75 10 94 90 77 91 91 80 50% 6 112 Mother Nature's Inn 11 80 17 88% 6 113 Cobblestone - All 11 80 17 88% 6 114 Grove Street public lot 11 81 Grove Street public lot 11 81 Grove Street public lot 11 81 Grove Street public lot 12 14 9 18 20 14 16 13 55% 6 C SR 28, S-idde - Chowle to America's Best Value Driveway 29 25 28 28 28 20 20 33 36 56 90 7 115 Grove Street 28 to Tahoe St - both sides 16 30 3 4 2 4 19 10 20 15 10 10 10 10 10 10 10 10 10 10 10 10 10												
4 210 Willard's Sports 15								105				
4 220 Golf Course, Bank of America, Plumas Bank							8	11	6			
4 221 SaveMart 5 213 SaveMart 5 213 St2 Brublic Parking by Commons Beach 5 214 Commons Beach - lower lot 49 48 46 46 32 35 32 48 33 99% 5 214 Commons Beach - lower lot 49 48 46 46 32 35 32 48 33 99% 5 218 Peter N Peters, Tahoe Cily Lumber lots - all 49 48 46 46 32 35 32 48 33 99% 5 218 Peter N Peters, Tahoe Cily Lumber lots - all 49 48 46 46 32 35 35 40 18 52 99% 5 219 Peter N Peters, Tahoe Cily Lumber lots - all 40 33 18 9 13 18 9 28 18 85% 5 219 Henrikson Building 5 L SK 28, 5-side - Mackinary to across from Cobblestone 8 27 9 20 7 7 7 7 7 3 339% 6 110 Cobblestone - All 40 48 49 49 48 49 9 28 15 36 14 51% 5 L SK 28, 5-side - Mackinary to across from Cobblestone 8 27 9 20 7 7 7 7 7 7 3 339% 6 110 Cobblestone - All 40 49 48 49 49 12 20 7 7 7 7 7 7 8 339% 6 111 Cobblestone - All 41 49 49 49 49 49 49 10 20 7 7 7 7 7 7 8 339% 6 110 Cobblestone - All 41 49 49 49 49 49 49 49 10 20 7 7 7 7 7 7 8 339% 6 111 Cobblestone - All 41 49 49 49 49 49 49 49 49 49 49 49 49 49										AND DESCRIPTION OF STREET		
5 213 SR 28 Public Parking by Commons Beach 24 26 21 18 19 24 21 19 109% 5 214 Commons Beach - New To How Low and Blue Agave lots - all 91 63 42 36 35 40 18 52 69% 5 217 America's Beat Value and Blue Agave lots - all 91 63 42 36 35 40 18 52 69% 5 219 Helan Recomption of Machina Value Divieway to Wye - all 24 21 10 20 7 8 338 33 33 33 33 33 33 33 33 33 33 33 33 33 33 33 33 33 <td></td>												
5 214 Commons Beach - Iowar fot 49 48 48 32 35 32 48 33 99% 5 218 Pete N Peters, Tahoe Cily Lumber lots - all 33 18 9 13 18 9 28 18 85% 5 219 Henrikscon Building 71 15 28 28 35 36 14 51% 5 219 Henrikscon Building 71 15 28 28 35 36 14 51% 5 LS R28, S-43de - Marchiras Valade Driveway to Wya - all 24 21 10 20 7 7 7 5 38% 6 110 Cobblestone - All 104 75 10 94 90 97 91 89% 6 111 Bild Tree Center - All 38 28 30 32 29 33 33 87% 6 112 Mother Nature's in 9 4 6 6 5 4 2 8 89% <												
5 217 America's Best Value and Bluk Agave lots - all 91 683 42 39 35 40 18 52 69% 5 219 Henrikson Building 71 15 28 28 28 35 36 14 51% 5 219 Henrikson Building 71 15 28 28 28 35 36 14 51% 5 L. SR 28, S-side - Mackinav to across from Cobblestone 8 27 9 20 7 7 7 5 33% 6 110 Cobblestone - All 10 75 10 94 90 97 91 86 93% 33 33 33 87% 6 112 Cobblestone - All 9 4 6 6 5 4 2 88 89 30 32 28 33 33 33 87% 6 112 Grow Erroe Lower Cobblestone to Grove 19 9 4 6 6 5 4												
5 218 Paten N Patens, Tahneo City Lumber lots - all 33 18 9 28 18 85% 5 219 Henrikson Building 71 15 28 28 28 28 35 36 14 51% 5 L SR 28, S-side - Mackinaw to across from Cobblestone 8 27 9 20 7 7 7 5 339% 6 110 Cobblestone - All 10 475 10 94 90 97 91 66 93% 6 111 Big Tree Center - All 38 28 30 32 28 33 33 33 37% 6 112 Mother Nature's Inn 9 4 6 6 5 4 2 8 89% 6 113 Fat Catl Area 5 5 6 5 4 2 8 89% 6 113 Fat Catl Area 5 5 6 5 4 2 8 89% 6 C SR 28, N-side - Arote to America's Best Value Driveway 29 25 26 25 20 24 26 19 90% 7 114 Grove Street public lot 43 35 35 35 30 31 33 48 100% 7 115 Grove Street public lot 43 35 35 36 30 31 33 48 100% 7 116 Lower School Lot 5 5 6 6 5 6 7 7 7 7 7 7 7 17 Tahneo Street - Cirove Street to Jackpine - both sides 59 30 2 2 10 10 10 10 10 10									40	18	52	69%
5 L SR 28, Saide - Mackinaw to across from Cobblestone 8 27 9 20 7 7 7 5 338% 6 110 Cobblestone - All 104 75 10 94 90 97 91 88 93% 6 111 Big Tree Center - All 38 28 30 32 28 33 33 33 35 87% 6 111 Big Tree Center - All 9 4 6 6 5 4 2 8 89% 6 113 Fat Catl Area 21 19 9 4 6 5 4 2 8 89% 6 C SR 28, Sxide - Crobble America's Best Value Driveway 29 25 26 25 20 24 26 19 99% 6 C SR 28, Sxide - Crobblestone to Grove 119 19 18 30 31 33 43 100% 7 114 Crove Streat 28 to 1 fabre St - both sides 30		218	Pete N Peters, Tahoe City Lumber lots - all									
5 M. SR 28, Nside - America's Best Value Driveway to Wye - all 24 21 10 20 15 16 16 17 89% 6 110 Cobblestone - All 38 28 30 32 28 33 33 35 87% 6 112 Mother Nature's Inn 9 4 6 6 5 4 2 88% 6 113 Fat Cal Area 21 19 19 18 20 14 16 13 95% 6 C SR 28, N-side - Crobble stone to Grove 19 19 17 12 13 18 18 13 100% 6 D. SR 28, S-ide - Cobblestone to Grove 19 19 17 12 13 18 18 13 100% 7 114 Crove Street Dublis dos 16 30 24 24 19 15 21 22 12 18 18 31 100%												
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6 111 Big Tree Center - All 6 112 Mother Nature's Inn 6 112 Mother Nature's Inn 7 13 Fat Cat Area 8 13 9 3 0 32 28 33 33 35 87% 6 113 Fat Cat Area 8 113 Fat Cat Area 8 12 19 19 18 20 14 16 13 95% 6 C SR 28, N-side - Cobblestone to Grove 19 19 17 12 13 18 18 13 100% 7 114 Grove Street Dublic lot 43 36 35 36 30 31 33 43 100% 7 115 Grove Street: 28 to Tahoe St - both sides 16 30 24 24 19 15 21 23 188% 7 116 Lower School Lot 7 117 Tahoe Street - Carbow Street to Jackpine - both sides 16 30 24 24 19 15 21 23 188% 7 119 Pepper Tree - all - including underground 17 118 Fineer Way and Bilss Cout (behind Pepper Tree) - all - both sides 18 18 12 10 12 9 8 3 8 8 80% 19 19 Pepper Tree - all - including underground 19 19 10 11 18 11 2 19 14 21 55% 10 10 12 19 8 1 3 8 80% 10 19 Pepper Tree - all - including underground 10 18 18 4 9 10 11 18 11 2 61% 119 Papper Tree - all - including underground 110 Sank 110 12 Jackpine Street - 28 to Tahoe St - both sides 12 10 12 18 21 19 14 21 55% 12 12 Jackpine Street - 28 to Tahoe St - both sides 13 4 9 10 11 18 11 2 61% 14 12 Jackpine Street - 28 to Tahoe St - both sides 15 12 10 12 18 21 19 14 21 55% 17 12 Jackpine Dublic lot 18 10 18 18 19 109% 18 18 18 19 109% 18 18 18 19 109% 18 18 18 19 109% 18 18 18 19 109% 18 18 18 19 109% 18 18 18 19 109% 18 18 18 18 19 109% 18 18 18 18 19 109% 18 18 18 18 19 109% 18 18 18 18 18 19 109% 18 18 18 18 18 18 18 18 18 18 18 18 18 1										10		
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APPENDIX B DETAILED PARKING DEMAND TABLES

e	APN	Business	Existing Land Use	Total Building (KSF)	# o	f Units	Open During Counts?	% Occupied	Actual Building Utilized (KSF)	Actual # Units Occupie
1	17160018000	Safeway	Supermarket	38.584			у	100%	38.584	
	17180023000		Public Park	2.088			у	100%	2.088	
	17180006000	Sierra Tire	Service Station	2.925			у	100%	2.925	
	17180053000	Sierra Tire and Offices	Service Station and Office	0.832			y	100%	0.832	
	17180012000	Trans-Am Gas	Gas Station and Mini-Market	1.565		-	У	100%	1.565	-
	90071005000	Big 7 Motel	Motel			Rooms	y	100%		16
	90071017000	Ann's Cottages	Motel			Rooms	У	100%		8
	990071019000	Hiro Sushi	Motel and Restaurant			Rooms	y	100%		9
	90071021000		Multifamily Residential			MFDU	У	100%		4
	90071022000	Little Bear Cottages	Motel and Office			Rooms	У	100%		7
	90071023000	Little Bear Cottages	Multifamily Residential	F 400	8	MFDU	У	100%	r 400	8
	90071030000	Rite-Aid	Commercial	5.488			У	100%	5.488	13
	90071033000	Snow Peak Lodge	Motel		13	MFDU	y	100%	44.044	13
	90071035000	Ace Hardware and Offices	Commercial, Office, Medical/Dental Office	11.641			y	100%	11.641	
	090071036000	Tahoe Dave's	Retail Commercial Motel	1.242	9	Rooms		100%	1.242	9
	90072002000	Motel California KB Garnes	Beauty Salon and Retail Commercial	1.002	9	Rooms	y	100%	1.002	3
	90072004000	NaturaMed	Medical Office	2.546			,	100%	2.546	
	90072006000	Gold Crest Motel	Motel	2.540	12	Rooms	,	100%	2.040	13
	90072009000	Gold Crest Motel	Motel			Rooms	,	100%		5
	90072017000	Professional Offices	Office	1.147			,	100%	1.147	
	90072024000	A'Pizza Bella	Restaurant	1.964			,	50%	0.982	
	90072024000	Sun-n-Sand Motel	Motel	1.504	28	Rooms	v	100%	0,302	28
	90072027000	Ferrari Crown Motel	Motel			Rooms	v	100%		25
	90072028000	Falcon Lodge	Vacant			Rooms	n	0%		0
	90072029000	Java Hut and Residences	Restaurant/Coffee Shop and	5.256		MFDU	y	100%	5.256	6
	90072030000	Steamer's	Restaurant	2.631			y	100%	2.631	100
	90073005000	Gold Crest Motel	Motel		12	Rooms	ý	100%		12
	90073006000	Ferrari Crown Motel	Motel			Rooms	y	100%		10
	90073007000	Ferrari Crown Motel	Motel			Rooms	y	100%		6
	90074008000	7 Pines Motel	Motel			Rooms	y	100%		12
	90074026000	Residential	Multifamily Residential			MFDU	y	100%		10
	90075002000	North Shore Flooring	Commercial	0.735			у	100%	0.735	
(90075010000		Multifamily Residential		1	MFDU	y	100%		. 1
	90075014000	Tahoe 99 Cent and More	Retail Commercial and Office	7.5			y	100%	7.500	
(90075016000	Auto Repair	Auto Repair	2.565			y	0%	0.000	
(90075017000	Chevron	Gas Station and Mini-Market	1.653			у	100%	1.653	
(90075018000	Las Panchitas	Restaurant and Residential	4.716	10	MFDU	у	100%	4.716	10
(90075019000		Multifamily Residential		2	MFDU	y	100%		2
(990075025000	Tahoe Mountain Sports	Retail Commercial	2.4			y	100%	2.400	
(090075026000		Vacant	3.198			n	0%	0.000	
(90080001000	Jason's	Restaurant and Retail Commercial	3.993			у	100%	3.993	
(90080002000	A Drift Tahoe	Retail Commercial	2.049			у	100%	2.049	
	090080018000	North Lake Tahoe Conference Center	Conference Center	N/A			у	100%	_	
	090122010000	Professional Offices	Office	3.526			y	100%	3.526	
	090122014000		Multifamily Residential		5	MFDU	У	100%		5
	090122017000		Vacant	2.88			У	0%	0.000	
	090122021000		Multifamily Residential		6	MFDU	y	100%		6
	90122038000	La Mexicana	Restaurant and Residential	5.303			у	100%	5.303	5
	090122039000	7.00	Multifamily Residential	0.054		MFDU	У	100%	0.054	5 12
	090123006000	The Grid	Restaurant and Multifamily Residential	6.054	12	MFDU	У	100%	6,054 3,180	12
	090123008000	Griggs Custom Homes	Office Retail Commercial and Massage	3.18			у	100%	3.840	
	090123009000	Rainbow Doorways and Wellbeing Massage Robin's Nest	Retail Commercial and Massage Retail Commercial	2.103			у	100%	2.103	
	090123015000	Lakeview Threads	Retail Commercial	2.266			У	100%	2.266	
	090123016000		Retail Commercial	3.32			y	100%	3.320	
	090123017000	Lake Tahoe Bike and Ski	Vacant	1.08			,	0%	0.000	
	90123018000	China Express	Restaurant	1.44			y	100%	1 440	
	090123018000	Plumas Bank	Bank	1.205			y	100%	1.205	
	090123024000	Central Market	Specialty Food Market	4.333			,	100%	4.333	
	090123027000	Taco Bell	Office and Fast Food	2.438			y	100%	2.438	
	090123027000	7-11	Mini Market	2.436			y	100%	2.164	
	090123028000	King's Café	Office and Restaurant	5.68			y	100%	5.680	
	090126014000	US Postal Service	Post Office	4.263			y	100%	4,263	
	090133003000	Lucky 7 Tattoo	Commercial and Multifamily Residential	1.184	2	MFDU	y	100%	1.184	2
	090133005000	Kings Beach Liquor	Government Offices, Commercial Store, Beauty Salon, Residential	9.748		MFDU	y	100%	9.748	2
	090133008000		Multifamily Residential			MFDU	y	100%		2
	090133012000	Kings Beach Mini Golf	Mini Golf	0.544	THE PERSON	To a later	y	100%	0.544	STATE OF
	090133015000	Hot Diggity Dog and Cat	Retail Commercial	1.122			y	100%	1.122	
	090133016000	Sugar Pine Gifts	Commercial and Residential	3.843	1	MFDU	Y	100%	3.843	1
	090133019000		Vacant	1.533			n	0%	0.000	
	090133021000	Tahue Forest Hospice Gift Shop	Retail Commercial, Office and Medical Office	4.832			у	100%	4.832	
	090134002000	Tahoe Eco Sports	Retail Commercial	2.818			ý	100%	2.818	
		Rockwood Tree Service and Hooked on Fishing	Office and Commercial	3.011			y	100%	3.011	
	090134011000	Brockway Bakery	Bakery and Residential	3.774			y	100%	3.774	
	090134039000	Log Cabin	Restaurant	4.326			y	100%	4.326	
(090134043000	Log Cabin	Restaurant		1	MFDU	у	100%		1
(090134048000		Restaurant, Medical Office, Hair Salon	2.779			у	75%	2.084	
(090192001000	Front Porch	Retail Commercial and Hair Salon	1.997			у	100%	1.997	
	090192002000	-	Vacant	3.228			n	0%	0.000	
	090192003000	<u> </u>	Residential			MFDU	у	100%		1
	090192004000	Tacos Jalisco	Restaurant and Residential	1.512		MFDU	у	100%	1.512	6
	090192031000	Lake Tahoe Specialty Stove and Fireplace	Retail Commercial	2.78			y	100%	2.780	
	090192037000	Jai Yen	Retail Commercial	0.951			y	100%	0.951	
	090192056000	Caliente	Restaurant	4.237			ý	100%	4.237	
	090192057000	Car Wash	Car Wash	2.648			ý	100%	2.648	
	090142007000	Laundrette and New Leaf Accupuncture	Laundromat, Medical Office, Residential		3	MFDU	y	100%		3
	090142023000	Stevenson's Holiday Inn	Motel			Rooms	y	100%		23
	090142024000	Lighting Showroom	Retail Commercial	1.95			v	100%	1.950	
	090142025000	Char-Pit	Restaurant	0.96			Ý	100%	0.960	

Actual # of g Units Occupied													27.0									49										新	47		ç		-							ç	30 282			
Actual Building Utilized (KSF)	2.1	1.64	9.59	60.7	1	- 0	3,12	1.23	1	1.84	4.71	1.97	6.68	2.78	5.24	29.72	7.39 6.57	0.60	2.41	6.52	10,35	16.22	3.54	0.77	6.38	6.44	6.01	4.38	1.75	8.58	3.64	11.20	18,61	13.53	3.14	0.48	1.68	12.43	0.00	7.64	8.68	7.97	3.06	3.38	13./9	31.78	32.54	32.04
% Occupied	100%	100%	100%	96.001		,,,,,,	100%	100%		75%	100%	100%	100%	100%	100%	100%	12%	100%	100%	30%	100%	100%	100%	10%	100%	100%	100%	%08	400%	100%	100%	100%	100%	100%	100%	100%	100%	%09 80%	%0	100%	100%	100%	100%	100%	100%	85%	100%	200
Open During Counts?	Yes	Yes	Yes	S ON	o Z	oN ,	Yes	Yes	°Z	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Yes	Yes	res Voc	×es ×es	Yes	Yes Yes	Yes	Yes	Yes	2 2	Yes	Yes	Yes Yes	Yes	Yes	Yes		Yes	20
-																						rooms											rooms		rooms		mtdu								slips & buoys			
# of Units	1 1	ı	1		1	1	1 1	1	1	1	1 1	1		1 1	ı	ı			1	1 1	1 1	49	1	1 1	ı	1	1 1	1	1 1	1	1	1	47	1 8	g ı	1	,	1 1	ľ	1 1	ı	1 1	1	ć	282	1	1 1	ı
Total Building (KSF)	2.06	1.64	9.59	60.7	1	1 0	3.72	1.23	1	2.45	17.4	1.97	6.68	2.78	5.24	29.72	10.65	0.60	2.41	7.24	10.35	16.22	3.54	9.07	6.38	6.44	6.01	5.47	1.75	8.58	3.64	11.00	18.61	13.53	3.14	0.48	1.68	20.72	3.91	7.54 2.83	8,68	7.97	3.06	3.38	13.79	37.39	38.40	04,00
Existing Land Use	Gas Station Office	Gas Station	Bank	Vacant	Vacant	Vacant	93110	Commercial	Vacant	Office	Restaurant	Medical Office	Restaurant and Office	Bank Retail Commercial	Commercial	Supermarket	Bactaurant Maccade Office Botal Commercial	Specialty Food Market	Commercial and Office	Restaurant, Retail Commercial	Commercial	Motel	Retail Commercial and Office	Office, Commercial, Restaurant	Retail Commercial and Bed&Breakfast	Retail Commercial	Commercial and Restaurant Restaurant	Restaurant, Massage and Office	Restaurant Office Detail Commercial Destaurant Movie Theater	Retail Commercial, Medical Office, Office, Nail Salon	Retail Commercial, Office, Massage	Orice, Laundromat, Commercial	Motel	Government Offices and Office	Motel	Office	Office and Residential	Office, Medical Office, Health Club	Vacant	Ketall Commercal Restaurant	Restaurant, Retail Commercial	Retail Commercial, Office, Hair Salon Office	Restaurant and Massage	Library	Marina and Associated Slips and Bouys	Office, Retail Commercial, Restaurant	Bank and Office	Restaurant, Retail Commercial, Hair Salon
Assessor Land Use Category	Mini-Market with Gas	Service Station	Banks, S&L's, Credit Union	Kestaurants, Cockian Lounges Vacant (PG&E)	Vacant (TCPUD)	Vacant (USFS)	Commercial Store	Miscellaneous Commercial	Vacant, Commercial	Miscellaneous Commercial	Miscellaneous Commercial	Office General	Suburban Store	Commercial Store	Commercial Store	Commercial Store	Office General	Commercial Store	Commercial Store	Commercial Store	Heavy Industrial	Hotels, Motels, Resorts	Restaurants, Cocktail Lounges	Suburban Store	Commercial Store	Commercial Store	Restaurants, Cocktail Loundes	Restaurants, Cocktail Lounges	Restaurants, Cocktail Lounges	Suburban Store	Suburban Store	Office General	Hotels, Motels, Resorts	Commercial Store	Hotels, Motels, Resorts Office General	Office General	Office General	Office General	Restaurants, Cocktail Lounges	Commercial Store Restaurants, Cocktail Lounges	Restaurants, Cocktail Lounges	Suburban Store	Commercial Store	Miscellaneous Commercial	Hotels, Motels, Resorts Marina, Pier	Restaurants, Cocktail Lounges	Office Condominium	Suppling Center
Business	000 Shell			000 – Singgerender	1 000		000 Real Estate				JOU Front Street PIZZB JOD Gary Davis Group Offices		100 S	JUU Bank of America			200 Bechaolt Building			200 Za's; Pete n Peters; Wanda's Florist			000 The Store				000 Lakeview spirits, Fat Cat, Infitt Store		000 Christy Hill			July Big Tree Center			Job Aviva Inn Job Professional Offices			200 Professional Offices 300 Tahoe Forest PT, Tahoe Athletic Club, Medical Offices	100	000 Olympic bike shop 000 Wolfdales		000 Tahoe Dave's, Bove Blow Dry Salon and Misc Office		Tahoe City Library	JUU Tahoe City Inn Tahoe City Marina		300 El Dorado Bank, Professional Offices	
APN	094190025000	094190021000	094540020000	094540019000	094540026000	094180065000	094190007000	094190004000	094190011000	094190016000	094540024000	094190015000	094540023000	094540010000	094190013000	094540009000	094540004000	094070003000	094070004000	094070006000	094070005000	094070010000	094070007000	094070002000	094080005000	094080009000	094080012000	094080011000	094090048000	094070014000	094080003000	094080010000	094110009000	094110021000	094130004000	094110010000	094110016000	094130007000	094130008000	094090012000 094090041000	094090047000	094090011000	094090052000	094090035000	094090001000	094090063000	094090036000	084080028000
Zone	1	,		10							2 6			4 4																	9													6 6				

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