

## 2 APPROVED FACILITIES (1996) / EXISTING FACILITIES (2004)

This Chapter categorically discusses facilities approved in the Master Plan (1996), facilities implemented since 1996 and the existing facilities as of September 2004. Table 2-1 provides an overall summary of the facilities at build-out, as approved in the 1996 Master Plan. Table 2-2 provides an overall summary the existing facilities, current as of September 2004. A map of the Existing Conditions at Heavenly can found on page 2-3 of this chapter and is labeled Figure 2-1, Heavenly Existing Conditions – 2004.

**Table 2-1**

Master Plan (1996) Facility Summary at Buildout

	<i>CA In-Basin</i>		<i>CA Out-of-Basin</i>		<i>NV In-Basin</i>		<i>NV Out-of-Basin</i>		<i>Totals in- and Out-of-Basin</i>
<b>Total Lifts</b>	<b>21</b>		<b>0</b>		<b>4</b>		<b>8</b>		<b>33</b>
Hourly Capacity (pph)	31,020		0		5,600		16,000		52,620
VTF/Hour (000)	28,574		0		4,176		18,498		51,248
<b>Ski Trails (acres)</b>	<b>238.6</b>		<b>64.4</b>		<b>67.8</b>		<b>374.3</b>		<b>745.1</b>
Beginner/Novice	64.6	27%	0.0	0%	20.0	29%	0.0	0%	84.6
Low. Int./Intermediate	123.7	52%	17.8	28%	35.8	53%	142.7	38%	320.0
Adv. Int./Expert	50.3	21%	46.5	72%	12.0	18%	231.6	62%	340.4
<b>Snowmaking (acres)</b>	<b>227.0</b>		<b>20.2</b>		<b>67.8</b>		<b>183.8</b>		<b>498.8</b>
Beginner/Novice	62.9	28%	0.0	0%	20.0	29%	0.0	0%	82.9
Low Int./Intermediate	115.5	51%	17.8	88%	35.8	53%	139.7	76%	308.8
Adv. Int./Expert	48.6	21%	2.3	11%	12.0	18%	44.0	24%	106.9
<b>Support Facilities</b>	<b>5</b>		<b>0</b>		<b>1</b>		<b>2</b>		<b>8</b>
No. of Buildings	3,775		0		103		1,256		5,134
Seats	178,900		0		17,340		40,363		236,603
Space (sq. feet)	<b>1</b>		<b>0</b>		<b>1</b>		<b>1</b>		<b>3</b>
<b>Maintenance Facilities</b>	20,000				100				38,100
Space (sq. feet)	<b>1</b>		<b>0</b>		<b>1</b>		<b>1</b>		<b>3</b>
<b>Parking/Access</b>	1,710		None		450		410		2,570
Vehicles Parked (onsite)	0		None		600		800		1,400
Satellite Parking (offsite)	2.8		2.8		2.8		2.8		11.2
Avg. Car Occupancy	4,790		None		1,053		3,390		9,233
Skiers/Visitors	2,600		None		1,800		600		5,000
Ski Area Shuttles (cap/day)	6,000		None		None		None		6,000
Gondola (cap/day)	11.2		0		2.1		5.7		19
Domestic Water	92		8		29		593		722
Snowmaking (acre/ft. avail)	STPUD		n/a		KGID		KGID		
Sewer	Stateline		n/a		Buckeye		Buckeye		
Power	<b>Comfortable Carrying Cap. (CCC)</b>		0		2,760		7,120		18,100
	8,220								
<b>PAOT</b>	9,506		0		1,716		4,903		16,125

Table 2-2

## Facilities Summary - September 2004

	<i>CA In-Basin</i>		<i>CA Out-of-Basin</i>		<i>NV In-Basin</i>		<i>NV Out-of-Basin</i>		<i>Totals In- and Out-of-Basin</i>
<b>Total Lifts</b>	<b>20</b>		<b>0</b>		<b>5</b>		<b>5</b>		<b>30</b>
Hourly Capacity (pph)	29,065		0		5,640		9,400		44,105
VTF/Hour (000)	17,866		0		3,797		10,518		32,181
<b>Ski Trails (acres)</b>	<b>226.2</b>		<b>64.7</b>		<b>57.0</b>		<b>313.8</b>		<b>661.7</b>
Beginner/Novice	60.9	26%	0.0	0%	20.0	35%	0.0	0%	80.9
Low. Int./Intermediate	117.2	51%	17.8	29%	23.4	41%	146.2	47%	304.6
Adv. Int./Expert	50.4	22%	47.1	76%	12.0	21%	167.7	54%	277.2
<b>Snowmaking (acres)</b>	<b>173.3</b>		<b>14.4</b>		<b>39.5</b>		<b>80.4</b>		<b>307.6</b>
Beginner/Novice	71.0	31%	0.0	0%	23.5	35%	5.2	3%	99.7
Low Int./Intermediate	65.5	29%	14.4	71%	16.0	24%	75.1	41%	171.0
Adv. Int./Expert	36.9	16%	0.0	0%	0.0	0%	0.0	0%	36.9
<b>Support Facilities</b>									
No. of Buildings	<b>7</b>		<b>0</b>		<b>1</b>		<b>2</b>		<b>10</b>
Seats	3,775		0		180		614		4,569
Space (sq. feet)	101,619		0		9,528		26,892		138,039
<b>Maintenance Facilities</b>									
No. of Buildings	<b>4</b>		<b>0</b>		<b>1</b>		<b>0</b>		<b>5</b>
Space (sq. feet)	14,310		0		500		0		14,810
<b>Parking/Access</b>									
Vehicles Parked (onsite)	1,310		None		450		410		2,170
Satellite Parking (offsite)	0		None		600		200		800
Avg. Car Occupancy	2.8		2.8		2.8		2.8		11.2
Skiers/Visitors	6,530		None		2,940		2,268		11,738
Ski Area Shuttles (cap/day)	2,600		None		1,800		600		5,000
Gondola (cap/day)	6,000		None		None		None		6,000
<b>Utilities</b>									
Domestic Water	11.2		0		2.1		5.7		19
Snowmaking (acre/ft. avail)	92		8		29		593		722
Sewer	STPUD		n/a		KGID		KGID		
Power	Stateline		n/a		Buckeye		Buckeye		
<b>Comfortable Carrying Cap. (CCC)</b>	<b>7,606</b>		<b>0</b>		<b>2,013</b>		<b>3,807</b>		<b>13,426</b>
<b>PAOT</b>	<b>9,010</b>		<b>0</b>		<b>1,748</b>		<b>2,914</b>		<b>13,672</b>

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Figure 2-1                      Existing Conditions Map                      1(11X17)

## 2.1 LIFTS

### ***Lifts Approved in Master Plan 1996***

The Master Plan (1996) approved a build out level of 33 lifts, 7 more than the existing 26 in 1996. Eight new lifts were approved, with the West Bowl (Lift C) to be removed. A high speed gondola originating from near the Stateline intermodal transit center to the Von Schmidt's Flats area was the major component. The existing tram at the California base area was to be removed within a timeframe to be specified by TRPA in the gondola construction permit. New lifts originating from the Gondola Top Station included the Von Schmidt's 1 and 2 (Lifts HH and HH-1) serving beginner and novice terrain, California (Lift GG) serving intermediate terrain, and Von Schmidt's (Lift J) which provides access to the Gondola Top Station from the Sky Meadows Area.

Two new lifts were to be constructed out of basin and one existing lift was to be replaced by shorter lifts. Wells Fargo (Lift Z) and Aldermans (Lift EE) were approved to service additional advanced intermediate terrain. Stagecoach (Lift R) was to be split into two lifts to better serve the beginning skiers. At the California Base, the West Bowl Platter pull, California Ski School and Enchanted (Lifts K, L, and M) lifts were to be relocated and upgraded to improve the teaching terrain for beginning skiers. Table 2-3 summarizes Master Plan (1996) approved lifts by name, type, length, vertical and hourly capacity.

### ***Lift Changes since 1996***

Since approval of the Master Plan in 1996, 4 new aerial lifts and 2 new surface lifts have been installed, with 4 aerial lifts replaced, 3 surface lifts replaced and 3 lifts removed. The major component was the Stateline Gondola (Lift II), installed in 2000 with a capacity of 2,800 persons per hour (pph). Three other new aerial lifts have been installed, the Tamarack Express (Lift GG) in 1997, First Ride (Lift K) in 1998 and the Big Easy (Lift HH-1) in 2003. Two surface lifts (Lift HH allocation) were installed in 2003 and two surface lifts (Lifts X & X-1) installed in 2004. Lift replacements/ upgrades included the Gunbarrel Express (Lift B) and Stagecoach Express (Lift R) in 1998, Pioneer handle tow (Lift N) in 2001, Canyon Express (Lift H) in 2003, and Powderbowl Express (Lift G-1) in 2004. Lift removals included West Bowl (Lift C) in 1998, Ridge (Lift H-1) in 2002, and Waterfall (Lift G) in 2004.

In consideration of the Stagecoach (Lift R) realignment and lengthening, Stagecoach 2 (Lift Y) was eliminated from the plan per the 1998 Forest Service Decision Memo. Table 2-4 summarizes lifts implemented, replaced, or removed since 1996 by year, name, type, and capacity.

### ***Existing Lift Conditions as of September 2004***

As of September 2004, The Ski Resort operates a total of 30 lifts with a total one-hour uphill capacity of 43,605 skiers. The 30 lifts include 4 magic carpets, 5 handle tows, 4 double chairs, 6 triple chairs, 1 quad chair, 6 detachable quad chairs, 2 detachable six-person chairs, a gondola, and a tram. In Addition, Heavenly currently has two lifts, Von Schmidt's (Lift J) and Von Schmidt's II (Lift HH allocation), that are approved to be built but not yet constructed. Table 2-5 summarizes the existing lift conditions (as of September 2004) by name, type, length, vertical and hourly capacity.

**Table 2-3****Master Plan (1996) Facilities - Lifts at Buildout**

<b>Lifts</b>	<b>Name</b>	<b>1996 Master Plan Approved Type</b>	<b>Length</b>	<b>Vertical</b>	<b>1996 Master Plan Hourly Capacity</b>
<b>In Basin</b>					
A	TRAMWAY	DETACHABLE QUAD	3,660	1,570	2,000
B	GUNBARREL EXPRESS	DETACHABLE QUAD	3,390	1,591	2,000
C	WEST BOWL	REMOVED	3,710	1,660	0
D	WORLD CUP	FIXED DOUBLE	1,100	320	900
E	PATSY'S	QUAD CHAIR	1,160	217	1,800
F	GROOVE	QUAD CHAIR	1,180	300	1,800
G	WATERFALL	QUAD CHAIR	3,350	920	1,800
G-1	POWDERBOWL EXPRESS	QUAD CHAIR	2,360	810	1,800
H	CANYON EXPRESS	DETACHABLE QUAD	3,720	1,000	1,800
H-1	RIDGE	DOUBLE CHAIR	4,840	1,060	800
I	SKY EXPRESS	DETACHABLE QUAD	4,390	1,420	2,400
J	VON SCHMIDT'S	QUAD CHAIR	4,450	685	1,800
K	FIRST RIDE	QUAD CHAIR	970	180	1,800
L	CA SKI SCHOOL	J - BAR	800	110	500
L-1	CA SKI SCHOOL II	NOT PROPOSED	250	26	NA
M	ENCHANTED FOREST II	QUAD CHAIR	380	70	1,200
M-1	MAGIC CARPET	MAGIC CARPET	80	7	120
N	PIONEER I	QUAD CHAIR	380	40	1,000
O	PIONEER II	J - BAR	380	40	500
Q	BOULDER	QUAD CHAIR	2,870	440	1,800
S	NORTH BOWL	QUAD CHAIR	5,290	1,290	1,400
T	OLYMPIC	QUAD CHAIR	3,380	860	1,800
X	BOULDER I	MAGIC CARPET	490	50	600
X-1	BOULDER II	NOT PROPOSED	250	10	NA
GG	TAMARACK EXPRESS	QUAD CHAIR	2,630	600	2,000
HH (1/3)	VON SCHMIDT'S I	QUAD CHAIR	480	34	1,000
HH (1/3)	VON SCHMIDT'S II	NOT PROPOSED	490	68	NA
HH (1/3)	VON SCHMIDT'S CARPET	NOT PROPOSED	120	11	NA
HH-1	BIG EASY	QUAD CHAIR	2,010	200	1,000
II	STATELINE GONDOLA	GONDOLA	12,010	2,850	3,000
<b>TOTAL</b>			<b>70,570</b>		<b>36,620</b>
<b>Out of Basin</b>					
R	STAGECOACH EXPRESS	QUAD CHAIR	2,900	550	2,000
U	GALAXY	QUAD CHAIR	5,440	1,020	1,800
V	DIPPER EXPRESS	DETACHABLE CHAIR	4,910	1,140	2,400
W	COMET EXPRESS	DETACHABLE CHAIR	3,580	880	2,400
Y	STAGECOACH II	QUAD CHAIR	4,230	1,200	1,800
Z	WELLS FARGO	QUAD CHAIR	5,710	1,900	2,400
DD	MOTT CANYON	DOUBLE CHAIR	2,570	870	1,000
EE	ALDERMANS	QUAD CHAIR	5,810	1,420	2,200
<b>TOTAL</b>			<b>35,150</b>		<b>16,000</b>
<b>Grand Total</b>			<b>105,720</b>		<b>52,620</b>

**Table 2-4**

## Lifts Implemented Since Master Plan (1996) Adoption

Year	Name	Type	Action	Hourly Capacity	Net Change In Capacity
<b>1997</b>					
GG	TAMARACK EXPRESS	DETACHABLE SIX	NEW INSTALLATION	2,400	2,400
<b>1998</b>					
B	GUNBARREL EXPRESS	DETACHABLE QUAD	REPLACE EXISTING	2,400	720
C	WEST BOWL Removal	FIXED DOUBLE	REMOVE EXISTING	930	(930)
R	STAGECOACH EXPRESS	DETACHABLE QUAD	REPLACE EXISTING	2,400	1,200
K	FIRST RIDE	FIXED TRIPLE	NEW INSTALLATION	1,000	1,000
<b>1999</b>					
NONE					
<b>2000</b>					
II	STATELINE GONDOLA	GONDOLA	NEW INSTALLATION	2,800	2,800
J	VON SCHMIDT'S	FIXED QUAD	UNBUILT	1,800	1,800
HH	GONDOLA I (revised & built in 2003)	FIXED QUAD	NEW INSTALLATION	1,000	0
HH-1	GONDOLA II (revised & built in 2003)	FIXED TRIPLE	NEW INSTALLATION	1,000	0
M	ENCHANTED FOREST	TOW	RELOCATE EXISTING	380	0
<b>2001</b>					
N	PIONEER 1	TOW	REPLACE EXISTING	465	465
<b>2002</b>					
NONE					
<b>2003</b>					
H	CANYON EXPRESS	DETACHABLE QUAD	REPLACE EXISTING	2,600	800
H-1	RIDGE Removal	FIXED DOUBLE	REMOVE EXISTING	900	(900)
HH-1	BIG EASY	FIXED QUAD	NEW INSTALLATION	1,400	1,400
HH (portion)	VON SCHMIDT'S I	TOW	NEW INSTALLATION	250	250
HH (portion)	VON SCHMIDT'S II	TOW	NEW INSTALLATION	250	250
HH (portion)	VON SCHMIDT'S CARPET	BELT	NEW INSTALLATION	450	450
<b>2004</b>					
G-1	POWDERBOWL EXPRESS	DETACHABLE SIX	REPLACE EXISTING	3,400	1,860
G	WATERFALL Removal	FIXED TRIPLE	REMOVE EXISTING	1,800	(1,800)
X	BOULDER CARPET I	TOW	REPLACE EXISTING	750	150
X-1	BOULDER CARPET II	BELT	NEW INSTALLATION	400	400

**Table 2-5**

## Existing Lifts Summary - September 2004

Lift	Name	2004 Existing Type	Length	Vertical	2004 Existing Hourly Capacity
<b>In Basin</b>					
A	TRAMWAY	TRAM 50	3,660	1,570	650
B	GUNBARREL EXPRESS	DETACHABLE QUAD	3,390	1,591	2,400
C	WEST BOWL	REMOVED	3,710	1,660	0
D	WORLD CUP	FIXED DOUBLE	1,100	320	900
E	PATSY'S	FIXED TRIPLE	1,160	217	1,800
F	GROOVE	FIXED TRIPLE	1,180	300	1,800
G	WATERFALL	REMOVED	3,350	920	0
G-1	POWDERBOWL EXPRESS	DETACHABLE SIX	2,360	810	3,400
H	CANYON EXPRESS	DETACHABLE QUAD	3,720	1,000	2,600
H-1	RIDGE	REMOVED	4,840	1,060	0
I	SKY EXPRESS	DETACHABLE QUAD	4,390	1,420	2,400
*J	VON SCHMIDT'S	APPROVED - UNBUILT	4,450	685	1,800
K	FIRST RIDE	FIXED TRIPLE	970	180	1,800
L	CA SKI SCHOOL	HANDLE TOW	800	110	500
L-1	CA SKI SCHOOL II	HANDLE TOW	250	26	500
M	ENCHANTED FOREST II	HANDLE TOW	380	70	380
M-1	MAGIC CARPET	MAGIC CARPET	80	7	120
N	PIONEER I	HANDLE TOW	380	40	465
O	PIONEER II	REMOVED	380	40	0
Q	BOULDER	FIXED TRIPLE	2,600	400	1,800
S	NORTH BOWL	FIXED TRIPLE	5,290	1,290	1,700
T	OLYMPIC	FIXED DOUBLE	3,380	860	990
X	BOULDER I	MAGIC CARPET	490	50	750
X-1	BOULDER II	MAGIC CARPET	250	10	400
GG	TAMARACK EXPRESS	DETACHABLE SIX	2,630	600	2,400
HH (1/3)	VON SCHMIDT'S I	HANDLE TOW	480	34	250
*HH (1/3)	VON SCHMIDT'S II	APPROVED - UNBUILT	490	68	250
HH (1/3)	VON SCHMIDT'S CARPET	MAGIC CARPET	120	11	450
HH-1	BIG EASY	FIXED QUAD	2,010	200	1,400
II	STATELINE GONDOLA	GONDOLA	12,010	2,850	2,800
<b>TOTAL</b>			<b>70,300</b>		<b>34,705</b>
<b>Out of Basin</b>					
R	STAGECOACH EXPRESS	DETACHABLE QUAD	2,900	550	2,400
U	GALAXY	FIXED DOUBLE	5,440	1,020	1,200
V	DIPPER EXPRESS	DETACHABLE QUAD	4,910	1,140	2,400
W	COMET EXPRESS	DETACHABLE QUAD	3,580	880	2,400
Y	STAGECOACH 2	ELIMINATED	4,230	1,200	0
Z	WELLS FARGO	NOT APPROVED	5,710	1,900	0
DD	MOTT CANYON	FIXED DOUBLE	2,570	870	1,000
EE	ALDERMANS	NOT APPROVED	5,810	1,420	0
<b>TOTAL</b>			<b>35,150</b>		<b>9,400</b>
<b>Grand Total</b>			<b>105,450</b>		<b>44,105</b>

## Notes:

\* Approved to be built but not yet constructed (Lift J: 1,800 pph & Lift HH: 250 pph)

## 2.2 SKI TRAILS

### ***Trails Approved in Master Plan 1996***

The Master Plan (1996) approved widening of existing trails and the construction of new trails totaling 117 acres to the existing skiable terrain for a total of 745.1 acres at buildout. Table 2-6 summarizes the trails approved in the 1996 Master Plan by name, length, width, acreage and ability. To the extent possible, an attempt was made to add as much intermediate and advanced intermediate terrain as possible, and to de-emphasize the low intermediate terrain in order to improve the overall breakdown of ability levels and meet industry standards.

### ***Trails Implemented since 1996***

Since approval of the Master Plan in 1996, 8 new trails have been implemented, totaling 28.2 acres. Trails implemented include Sam's Dream (29A), Tamarack Return (29B), Cascade (82), Enchanted Forest II (32), Easy Street (81), Silver Spur (81A), Meteor (72) and Von Schmidt's – Gondola Meadow (83). Table 2-7 provides a breakdown of the trails implemented since 1996 by year, name, acreage, and ability level. Two other trails, Meteor II (75) and Von Schmidt's – Gondola Meadow II (83) have been approved but have not yet been implemented.

### ***Existing Trails as of September 2004***

As of September 2004, Heavenly provides 661.7 acres of ski trails, including the 4.4-acre Meteor II trail. Of the 661.7 acres, a variety of ability levels are provided including: 2% beginner, 10% novice, 26% low intermediate, 20% Intermediate, 6% advanced intermediate, and 36% expert. Table 2-8 summarizes the existing trail conditions (as of September 2004) by name, type, length, vertical and hourly capacity. Table 2-9 provides a breakdown of existing trails by ability level.

Table 2-6

## Master Plan (1996) Facilities - Trails at Buildout

Master Plan '96 Trail #	Trail Name	Length (feet)	Width (feet)	Acreage (acres)	Ability (skill class)
<b>California</b>					
<b>In Basin</b>					
1	EAST BOWL -THE FACE	3,220	220	16.3	EXP
2	GUNBARREL	2,030	175	8.2	EXP
3	PISTOL	1,220	130	3.6	EXP
4	WEST BOWL	2,040	100	4.7	ADV
5	WORLD CUP	1,000	260	6.0	LOW
6	ROUND-A-BOUT	17,000	40	15.6	INT
7	PATSY'S	1,730	200	7.9	NOV
8	GROOVE	1,640	100	3.8	NOV
9	MAGGIES	5,210	70	8.4	NOV
10	CAT TRACK	1,070	40	1.0	LOW
11	SWING TRAIL	1,190	30	0.8	LOW
12	WATERFALL	760	200	3.5	ADV
13	MOMBO MEADOWS	1,190	150	4.1	LOW
14	MOMBO	1,700	25	1.0	LOW
14	LOWER MOMBO	1,200	90	2.5	LOW
15	LOWER POWDER BOWL	1,540	100	3.5	INT
16	RIDGE RUN	1,200	60	1.7	NOV
16	LOWER RIDGE RUN	4,610	150	15.9	NOV
17	WOODS TRAIL	2,960	25	1.7	NOV
18	BETTY'S SWING	1,080	30	0.7	INT
19	RIDGE BOWL	1,400	100	3.2	INT
19	RIDGE CHUTE	860	50	1.0	INT
20	BETTY'S RUN	3,680	150	12.7	INT
20	BETTY'S BOWL	400	180	1.7	EXP
21	LOWER BETTY'S	710	50	0.8	INT
22	BETTY'S CUTOFF	570	130	1.7	INT
23	CANYON	2,400	110	6.1	LOW
24	YAHOO (RUSUTSU)	1,860	100	4.3	LOW
25	LIZ'S	4,660	90	9.6	INT
26	STEAMBOAT	1,430	100	3.3	INT
27	UPPER ELLIE'S / ELLIE'S	4,490	120	12.4	ADV
27	ELLIE'S SWING	2,140	70	3.4	INT
28	SKYLINE TRAIL	3,100	40	2.8	LOW
29	(UPR.) CALIFORNIA TRAIL	2,900	130	8.7	LOW
29	CALIFORNIA TRAIL	6,010	40	5.5	LOW
29A	NEW - 49ER	1,420	125	4.1	NOV
30	PERFECT RIDE (WEST BOWL)	1,260	300	8.7	NOV
31	LOWER SKI SCHOOL	300	200	3.7	BEG
32	CHILDRENS SKI CENTER	180	400	0.9	BEG
33	PIONEER PLATTER PULL	700	150	2.4	BEG
34	LEARN TO SKI CENTER	400	150	1.4	BEG
64	49ER	1,710	40	1.6	LOW
67	VON SCHMIDT'S (1/4)	1,050	50	1.2	LOW
81	NEW (1/2) - EASY STREET	1,150	600	15.8	LOW
82	NEW - CASCADE	1,980	150	6.8	LOW
83	NEW - GONDOLA MEADOW	600	300	4.1	BEG
<b>In Basin Total</b>		<b>101,670</b>		<b>238.6</b>	
<b>Out of Basin</b>					
51	W. MILKY WAY BOWL (2/3)	1,800	900	37.2	EXP
51	E. MILKY WAY BOWL	0	0	0.0	EXP
53	DIPPER KNOB	1,730	30	1.2	INT
54	BIG DIPPER (1/5)	1,080	150	3.7	INT
57	DIPPER BOWL (1/2)	680	450	7.0	EXP
58	ORION (1/2)	1,820	200	8.4	LOW
61	SAND DUNES	1,610	80	3.0	INT
72	NEW (1/2)	780	130	2.3	ADV
75	NEW (1/3)	470	150	1.6	INT
<b>Out of Basin Total</b>		<b>9,970</b>		<b>64.4</b>	
<b>California Total</b>		<b>111,640</b>		<b>303.0</b>	

**Table 2-6 (cont'd)**

## Master Plan (1996) Facilities - Trails at Buildout

Master Plan '96 Trail #	Trail Name	Length (feet)	Width (feet)	Acreage (acres)	Ability (skill class)
<b>Nevada</b>					
<b>In Basin</b>					
40	EDGEWOOD BOWL	3,000	250	17.2	NOV
44	OLYMPIC DOWNHILL	5,190	130	15.5	LOW
44		0	0	0.0	LOW
45	075	1,330	90	2.7	INT
46	UPPER NORTH BOWL (2/3)	1,260	145	4.2	ADV
46	NORTH BOWL	3,770	90	7.8	ADV
65	STEVE'S	740	30	0.5	LOW
67	VON SCHMIDT'S (1/4)	1,050	50	1.2	LOW
68	BOULDER SKI SCHOOL	700	175	2.8	BEG
81	NEW (1/2)	1,150	600	15.8	LOW
<b>In Basin Total</b>		<b>18,190</b>		<b>67.8</b>	
<b>Out of Basin</b>					
41	WAY HOME	9,090	30	6.3	LOW
41	LOWER WAY HOME	1,900	120	5.2	LOW
41	STAGECOACH-W.H.	0	0	0.0	LOW
42	(LOWER) STAGECOACH	4,500	120	12.4	INT
43	(UPPER) STAGECOACH	1,810	100	4.2	INT
44	OLYMPIC DOWNHILL (2/5)	3,460	130	10.3	LOW
47	(UPPER) PEPI'S	3,500	50	4.0	LOW
48	CROSSOVER	4,500	65	6.7	LOW
48	(LOWER) CROSSOVER	0	0	0.0	LOW
49	PERIMETER	5,870	100	13.5	LOW
50	GALAXY	4,900	90	10.1	LOW
51	W. MILKY WAY BOWL (1/3)	900	900	18.6	EXP
51	E. MILKY WAY BOWL	0	0	0.0	EXP
52	UPPER PERIMETER (RIM TRAIL)	3,280	50	3.8	EXP
54	BIG DIPPER (4/5)	4,300	150	14.8	INT
54	LOWER BIG DIPPER (RETURN)	1,600	100	3.7	INT
55	ORION'S BELT	580	80	1.1	LOW
56	ARIES	920	60	1.3	INT
57	DIPPER BOWL (1/2)	680	450	7.0	EXP
58	ORION (1/2)	1,820	200	8.4	LOW
59	LOWER ORION	1,590	80	2.9	LOW
60	JACK'S	1,080	120	3.0	INT
62	LITTLE DIPPER	2,600	175	10.4	INT
63	COMET	3,250	190	14.2	LOW
66	PONDEROSA (BONANZA BOWL)	2,160	80	4.0	INT
66a	EAST PEAK	2,150	80	3.9	INT
67	VON SCHMIDT'S (1/4)	2,100	50	2.4	INT
72	NEW (2/3)	780	130	2.3	ADV
73	NEW	3,280	30	2.3	ADV
75	NEW (2/3)	940	150	3.2	ADV
76	NEW	3,390	150	11.7	ADV
77	NEW	2,570	150	8.8	ADV
79	MOTT CANYON	2,000	2000	91.8	EXP
79	KILLEBREW	1,900	1000	43.6	EXP
86	NEW (AA #3)	2,100	150	7.2	ADV
87	NEW (OLD WELLS FARGO)	4,190	150	14.4	ADV
89	NEW (WELLS FARGO)	5,580	30	3.8	EXP
91	NEW (L. OLYMPIC)	3,760	150	12.9	EXP
<b>Out of Basin Total</b>		<b>99,030</b>		<b>374.3</b>	
<b>Nevada Total</b>		<b>117,220</b>		<b>442.1</b>	
<b>Grand Total</b>		<b>228,860</b>		<b>745.1</b>	

**Table 2-7**

## Trails Implemented Since Master Plan (1996) Adoption

<b>Year</b>	<b>Master Plan '96 Trail Name</b>	<b>Acreage (acres)</b>	<b>Ability (skill class)</b>
<b>1997</b>			
29A	SAM'S DREAM	4.3	LOW
29B	TAMARACK RETURN	0.7	LOW
82	CASCADE	7.8	LOW
<b>1998</b>			
	NONE		
<b>1999</b>			
	NONE		
<b>2000</b>			
32	ENCHANTED FOREST II	0.9	BEG
81	EASY STREET (UPPER PORTION)	3.4	LOW
<b>2001</b>			
72	METEOR	5.7	INT
*75	METEOR II	4.4	ADV
<b>2002</b>			
	NONE		
<b>2003</b>			
81	EASY STREET (LOWER PORTION)	3.5	BEG
83	VON SCHMIDT'S TEACHING AREA - CA	1.7	BEG
*83	VON SCHMIDT'S TEACHING AREA - NV	1.6	BEG
81A	SILVER SPUR (LOWER PORTION)	0.2	BEG
<b>2004</b>			
	NONE		

## Notes:

\* Approved to be constructed but not yet implemented

Table 2-8

## Existing Trails Summary - September 2004

Master Plan '96 Trail #	Existing '04 Trail #	Trail Name	Length (feet)	Width (feet)	Acreage (acres)	Ability (skill class)
<b>California In Basin</b>						
1	B1	EAST BOWL -THE FACE	3,220	220	16.3	EXP
2	B2	GUNBARREL	2,030	175	8.2	EXP
3	B3	PISTOL	1,220	130	3.6	EXP
4	B4	WEST BOWL	2,040	100	4.7	ADV
5	D1	WORLD CUP	1,000	260	6.0	LOW
6	1	ROUND-A-BOU	17,000	40	15.6	INT
7	E1	PATSY'S	1,730	200	7.9	NOV
8	E2	GROOVE	1,640	100	3.8	NOV
9	G1	MAGGIE'S	5,210	70	8.4	NOV
10	G2	CAT TRACK	1,070	40	1.0	LOW
11	G3	SWING TRAIL	1,190	30	0.8	LOW
12	G4	WATERFALL	760	200	3.5	ADV
13	G5	MOMBO MEADOWS	1,190	150	4.1	LOW
14	G6	MOMBO	1,700	25	1.0	LOW
14	G7	LOWER MOMBO	1,200	90	2.5	LOW
15	G8	POWDER BOWL	1,540	100	3.5	INT
16	2	RIDGE RUN	1,200	60	1.7	NOV
16	3	LOWER RIDGE RUN	4,610	150	15.9	NOV
17	H1	WOODS TRAIL	2,960	25	1.7	NOV
18	H2	BETTY'S SWING	1,080	30	0.7	INT
19	H3	RIDGE BOWL	1,400	100	3.2	INT
19	H4	RIDGE CHUTE	860	50	1.0	INT
20	H5	HIGH ROLLER (BETTY'S RUN)	3,680	150	12.7	INT
20	H6	DOUBLE DOWN (BETTY'S BOWL)	400	180	1.7	EXP
21	H7	LOWER BETTY'S	710	50	0.8	INT
22	H8	BETTY'S CUTOFF	570	130	1.7	INT
23	H9	CANYON/SKY CANYON	2,400	110	6.1	LOW
24	H10	JACKPOT (RUSUTSU)	1,860	100	4.3	LOW
25	I1	LIZ'S	4,660	90	9.6	INT
26	H11	HIGH ROLLER (STEAMBOAT)	1,430	100	3.3	INT
27	I3	UPPER ELLIE'S / ELLIE'S	4,490	120	12.4	ADV
27	I2	ELLIE'S SWING	2,140	70	3.4	INT
28	4	SKYLINE TRAIL	3,100	40	2.8	LOW
29	GG1	UPPER CALIFORNIA TRAIL	2,900	130	8.7	LOW
29	5	CALIFORNIA TRAIL	6,010	40	5.5	LOW
*29A	GG2	SAM'S DREAM	1,500	125	4.3	LOW
*29B	GG3	TAMARACK RETURN	450	75	0.8	LOW
30	K1	POMA TRAIL	1,260	300	8.7	NOV
30	K2	FIRST RIDE	500	150	1.7	BEG
31	L1	LOWER SKI SCHOOL	500	200	2.3	BEG
*32	M1	ENCHANTED FOREST II	390	100	0.9	BEG
33	N1	PIONEER TRAINING AREA	700	150	2.4	BEG
34	O1	LEARN TO SKI CENTER	400	150	1.4	BEG
64	GG5	49ER	1,710	40	1.6	LOW
67	10	VON SCHMIDT'S (1/4)	1,050	50	1.2	LOW
*81	HH1	EASY STREET (1/2)	750	200	3.4	LOW
*82	GG6	CASCADE	1,980	175	8.0	LOW
*83	11	VON SCHMIDT'S - GONDOLA MEADOW	600	125	1.7	BEG
<b>In Basin Total</b>			<b>101,390</b>		<b>226.2</b>	
<b>Out of Basin</b>						
51	V1	MILKY WAY BOWL (2/3)	1,800	900	37.2	EXP
53	V3	DIPPER KNOB	1,730	30	1.2	INT
54	V4	BIG DIPPER (1/5)	1,080	150	3.7	INT
57	V7	DIPPER BOWL (1/2)	680	450	7.0	EXP
58	V8	ORION (1/2)	1,820	200	8.4	LOW
61	GG4	SAND DUNES	1,610	80	3.0	INT
*72	V10	METEOR (1/2)	950	130	2.8	INT
**75	V11	METEOR II (1/3)	500	120	1.4	ADV
<b>Out of Basin Total</b>			<b>10,170</b>		<b>64.7</b>	
<b>California Total</b>			<b>111,560</b>		<b>290.9</b>	

## Notes:

- \* All or partially implemented since adoption of the Master Plan in 1996
- \*\* Approved to be implemented but not yet constructed
- NC not considered in the Master Plan 1996

Table 2-8 (cont'd)

## Existing Trails Summary - September 2004

Master Plan '96 Trail #	Existing '04 Trail #	Trail Name	Length (feet)	Width (feet)	Acreage (acres)	Ability (skill class)
<b>Nevada</b>						
<b>In Basin</b>						
40	Q1	BOULDER (EDGEWOOD) BOWL	3,000	250	17.2	NOV
44	S1	OLYMPIC DOWNHILL (3/5)	5,190	130	15.5	LOW
45	S2	BOULDER CHUTE (075)	1,330	90	2.7	INT
46	S3	NORTH BOWL	3,770	90	7.8	ADV
46	S4	UPPER NORTH BOWL (2/3)	1,260	145	4.2	ADV
65	9	STEVE'S	740	30	0.5	LOW
67	10	VON SCHMIDT'S (1/4)	1,050	50	1.2	LOW
68	X1	BOULDER SKI SCHOOL	700	175	2.8	BEG
*81	HH1	EASY STREET (1/2)	760	200	3.5	LOW
*83	HH2	VON SCHMIDT'S - GONDOLA MEADOW II	300	230	1.6	BEG
<b>In Basin Total</b>			<b>17,800</b>		<b>57.0</b>	
<b>Out of Basin</b>						
41	6	NEVADA TRAIL (WAY HOME)	9,090	30	6.3	LOW
41	7	LOWER NEVADA TRAIL (WAY HOME)	1,900	120	5.2	LOW
42	R1	STAGECOACH	4,500	120	12.4	INT
43	R2	UPPER STAGECOACH	1,810	100	4.2	INT
44	S1	OLYMPIC DOWNHILL (2/5)	3,460	130	10.3	LOW
47	8	PEPI'S	3,500	50	4.0	LOW
48	S5	CROSSOVER	4,500	65	6.7	LOW
49	U1	PERIMETER	5,870	100	13.5	LOW
50	U2	GALAXY	4,900	90	10.1	LOW
51	V1	MILKY WAY BOWL (1/3)	900	900	18.6	EXP
52	V2	MILKY WAY	3,280	50	3.8	EXP
54	V4	BIG DIPPER (4/5)	4,300	150	14.8	INT
54	V5	LOWER DIPPER RETURN	1,600	100	3.7	INT
55	V6	ORION'S BELT	580	80	1.1	LOW
56	W1	ARIES	920	60	1.3	INT
57	V7	DIPPER BOWL (1/2)	680	450	7.0	EXP
58	V8	ORION'S (1/2)	1,820	200	8.4	LOW
59	V9	LOWER ORION'S	1,590	80	2.9	LOW
60	W2	JACK'S	1,080	120	3.0	INT
62	W3	LITTLE DIPPER	2,600	175	10.4	INT
63	W4	COMET	3,250	190	14.2	LOW
66	S6	PONDEROSA (BONANZA BOWL)	2,160	80	4.0	INT
66a	S7	BONANZA (EAST PEAK)	2,150	80	3.9	INT
67	10	VON SCHMIDT'S (1/4)	2,100	50	2.4	INT
*72	V10	METEOR (1/2)	985	130	2.8	INT
**75	V11	METEOR II (2/3)	985	130	2.9	ADV
79	DD1	MOTT CANYON	2,000	2000	91.8	EXP
79	DD2	KILLEBREW	1,900	1000	43.6	EXP
*81A	HH3	SILVER SPUR	450	50	0.5	LOW
<b>Out of Basin Total</b>			<b>74,860</b>		<b>313.8</b>	
<b>Nevada Total</b>			<b>92,660</b>		<b>370.8</b>	
<b>Grand Total</b>			<b>204,220</b>		<b>661.7</b>	

## Notes:

- \* All or partially implemented since adoption of the Master Plan in 1996
- \*\* Approved to be implemented but not yet constructed
- NC not considered in the Master Plan 1996

**Table 2-9**

Existing Ski Trail Classification - September 2004

**CA and NV**

<b>Ability Level</b>	<b>Acreage</b>			<b>Percent</b>			<b>Industry Standard</b>
	<b>CA</b>	<b>NV</b>	<b>Total</b>	<b>CA</b>	<b>NV</b>	<b>Total</b>	
Beginner	12.3	2.3	14.6	4%	1%	2%	2%
Novice	48.1	17.2	65.3	16%	5%	10%	13%
Low Intermediate	70.1	103.9	174.0	24%	28%	26%	20%
Intermediate	64.9	65.7	130.6	22%	18%	20%	35%
Advanced Intermediate	23.5	14.9	38.4	8%	4%	6%	20%
Expert	74.0	164.8	238.8	25%	45%	36%	10%
<b>Totals</b>	<b>292.9</b>	<b>368.8</b>	<b>661.7</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

**In and Out of Basin**

<b>Ability Level</b>	<b>Acreage</b>			<b>Percent</b>			<b>Industry Standard</b>
	<b>In</b>	<b>Out</b>	<b>Total</b>	<b>In</b>	<b>Out</b>	<b>Total</b>	
Beginner	14.6	0.0	14.6	5%	0%	2%	2%
Novice	65.3	0.0	65.3	23%	0%	10%	13%
Low Intermediate	82.4	91.6	174.0	29%	24%	26%	20%
Intermediate	58.2	72.4	130.6	21%	19%	20%	35%
Advanced Intermediate	32.6	5.8	38.4	12%	2%	6%	20%
Expert	29.8	209.0	238.8	11%	55%	36%	10%
<b>Totals</b>	<b>282.9</b>	<b>378.8</b>	<b>661.7</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

**2.3 SUMMER USES****Summer Uses Approved in Master Plan 1996**

The Master Plan (1996) approved facilities to serve approximately 2,200 persons a day during the summer months. Approved activities are shown in the table below. Heavenly estimated that the uses would be broken out as follows: sightseeing/hiking (85 percent); restaurant dining (12 percent); fishing at East Peak Lake (3 percent). These uses will be accessed predominantly by the gondola with exception of the fishing, which is accessed primarily from the Stagecoach base area.

Hiking was originally approved in 1996 to occur on the Tahoe Rim Trail and Tahoe Vista Trail, but hikers are free to use onsite roadways which are maintained by Heavenly for operations and maintenance purposes. Roads which are experiencing erosion problems or have been closed, as defined by the CWE analysis, will be signed as "off limits for erosion control purposes".

In the Master Plan (1996), the East Peak Lake area was to be used for all horseback activities. The lake will also be available for fishing by permit issued from Heavenly. East Peak summer uses were to be accessed primarily from the Stagecoach base area.

Regular summer activities and special events are approved to occur at the top of the Gondola. Activities and events may include outdoor recreation uses, food & beverage opportunities and live music, concerts, conferences or other social activities. The Top of the Tram offered these types of events but is no longer to be used for summer activities. Following the development of the top of the Gondola facilities, concert sound levels are regulated to comply with TRPA PAS noise levels. Sound levels are to be controlled at the concert mixing board to comply with a pre-determined dB level to ensure CNEL compliance at the PAS boundary. As required by mitigation measure 7.5-25 (Master Plan Chapter 7), Heavenly shall not conduct any summer concerts at the Gondola Top Station prior to August 1. This prohibition was recommended in order to allow most local resident birds to complete fledging and minimize the potential for nest failure.

Table 2-10 summarizes summer use activities approved in the Master Plan (1996) by activity, description of use and location.

**Table 2-10**

Master Plan (1996) Facilities - Summer Uses at Buildout

<b>Activity</b>	<b>Description of Use</b>	<b>Access/Location</b>
Hiking	Unguided hiking on mountain - Tahoe Rim Trail (TRT) and Tahoe Vista trail access	Gondola/roadways on mountain
Horseback Riding	Horse and hay rides on existing roads. Stable located below East Peak Lake (out of basin)	Gondola using Heavenly trails and Nevada Base (TRT) areas/Von Schmidts Flat & Nevada trails
Wildlife Viewing/ Interpretive Walks	Guided by USDA Forest Service or Heavenly staff persons	Gondola/hiking trails
Camp Activities	Private organizations use of Heavenly facilities at East Peak Lake	Gondola/East Peak Lake (from TRT)
Fishing	Guided tours at East Peak Lake	Gondola/East Peak Lake (from TRT)
Restaurant at Gondola Mid-Station	Full service restaurant and sight seeing overlooking Lake Tahoe	Gondola
Von Schmidt's Flats Events	Daytime special use events utilizing facilities at Gondola Top Station	Gondola

***Summer Uses Implemented since 1996***

Since approval of the Master Plan in 1996, most summer uses and activities have operated as approved or have not been implemented. No changes or additions to the approved summer uses have been made.

***Existing Summer Uses as of September 2004***

As of September 2004, the predominant summer use is found at the Top of the Gondola area. Sight seeing, outdoor food service and hiking are the primary activities offered by Heavenly. Sightseeing occurs primarily at

the Gondola Mid-Station Observation Deck. Café Blue, a walk-up food and beverage service, is located at the Observation Deck. Adventure Peak Grill located at the Top of the Gondola offers outdoor barbecue-themed lunches. A seasonal climbing wall is set up near Adventure Peak Grill. Hiking now takes place on existing summer maintenance roads leaving from the Top of the Gondola. The Tahoe Vista Trail, a 1.05 mile loop trail that starts at the Top of Tram is still used, although with less frequency than previously. The Tahoe Rim Trail passes through the existing ski area beginning at the Stagecoach Base as it extends for 150 miles around the rim of the Lake Tahoe Basin and connects with the Pacific Crest Trail.

Mountain bikes are not permitted on the hiking trails but are allowed on existing roads on the mountain. However, mountain bikes are not encouraged by Heavenly. At this time, Heavenly has no commercial mountain bike activities onsite and there are presently no horseback activities or facilities in place. ATVs are not allowed for recreational use and are permitted only for maintenance needs on the mountain. Table 2-11 summarizes existing summer use activities as of September 2004 by activity, description of use, and location.

**Table 2-11**

Existing Summer Uses Summary - September 2004

Activity	Description of Use	Access/Location
Hiking	Unguided hiking on mountain - Tahoe Rim Trail (TRT) and Tahoe Vista trail access	Gondola/roadways and named trails on mountain
Horseback Riding	Riding happens only on existing roads and the Tahoe Rim Trail (TRT)	Access through Stagecoach Base Tahoe Rim Trail (TRT)
Wildlife Viewing/ Interpretive Walks & Talks	Led by USDA Forest Service or Heavenly staff persons	Gondola/hiking trails Mid-Station Observation Deck
Adventure Peak Grill	Outdoor barbecue serving lunch and snacks at gondola top station	Gondola
Adventure Peak	Climbing wall at gondola top station	Gondola
Sightseeing, Café Blue and Gondola Sports	Panoramic sightseeing, photography, snack bar and mountain related retail	Gondola and Mid-Station Observation Deck

## 2.4 LODGE FACILITIES

### ***Lodge Facilities Approved in Master Plan 1996***

Commercial uses were approved for the Gondola Mid and Top Stations. The Master Plan (1996) approval included a restaurant and a Lake Tahoe observation deck at the Gondola Mid-Station. The Top Station was to include a restaurant, ticket offices, and summer recreation information booths. The commercial square footage anticipated for these uses was to total approximately 33,750 square feet (9,750 for the Mid Station and 24,000 for the Top Station). Legally existing commercial floor area (CFA) was to be verified by the TRPA.

In addition to the year-round gondola facilities, the Master Plan included the replacement or remodeling of all existing lodge facilities. For a further discussion of the approved lodge facilities, please refer to Chapter 4, Development Areas. Table 2-12 summarizes Master Plan (1996) lodges by physical location. Table 2-13 summarizes the Master Plan (1996) lodges by name, seats available and use breakdown.

**Table 2-12**

## Master Plan (1996) Facilities - Lodge Locations

<b>Name</b>	<b>Location</b>
<b>In Basin</b>	
California Lodge	Base of Lift B, California Side
Monument Peak Lodge	Top of Lift A (Old Tramway), California Side
Sky Meadow Lodge	Base of Lift I, California Side
Boulder Lodge	Base of Lift Q, Nevada Side
New Gondola Top Station	Top of Lift II, California Side
New Mid-Station Restaurant	3000 ft. from top of Gondola, California side
<b>Out of Basin</b>	
Stagecoach Lodge	Base of Lift R, Nevada Side
East Peak Lodge	Base of Lift W, Nevada Side

**Table 2-13**

## Master Plan (1996) Facilities - Lodge Breakdown by Use (sq. ft.) at Buildout

	<i>California Base</i>	<i>Monument Peak Lodge</i>	<i>Gondola Mid Station</i>	<i>Gondola Top Station</i>	<i>Boulder Base</i>	<i>East Peak Lodge</i>	<i>Stagecoach Base</i>	<i>totals</i>
FOOD SERVICE	27,500'	6,100'	9,750'	21,575'	8,450'	26,838'	5,775'	131,688'
SEATS	1,400	375	200	900	103	1,000	256	5,134
TICKET SALES	2,000'	0'	0'	900'	1,200'	0'	400'	4,500'
COMMERCIAL	10,000'	0'	0'	8,200'	0'	990'	1,200'	20,390'
RESTROOMS	3,600'	1,000'	0'	1,800'	440'	1'860'	800'	11,450'
ADMIN. OFFICES	10,000'	0'	0'	0'	750'	0'	2,500'	13,250'
SKI RENTAL	10,000'	0'	0'	0'	0'	0'	0'	10,000'
SKI SCHOOL	7,000'	400'	0'	0'	3,100'	0'	0'	10,500'
EMPLOYEE CENTEF	10,000'	0'	0'	0'	3,400'	0'	0'	13,400'
ACCESS AREAS	0,	1,400'	0'	2,450'	0'	0'	0'	3,850'
GONDOLA			3,325'	14,250'				17,575'
<b>TOTALS</b>	<b>80,100'</b>	<b>8,900'</b>	<b>13,075'</b>	<b>49,175'</b>	<b>17,340'</b>	<b>29,688'</b>	<b>10,675'</b>	<b>236,603'</b>

***Existing Lodge Facilities – September 2004***

Since approval of the Master Plan in 1996, no new lodge facilities were developed, however, nearly every existing lodge has been remodeled. Table 2-14 summarizes lodge improvements implemented since Master Plan (1996) adoption by the lodge name, location, year and description of improvements. In 2002, TRPA verified 19,977 square feet of existing commercial floor area (CFA) at the top of the tram. Since 1996, approximately 1,328 square feet of CFA has been relocated from the top of the tram to the top of the gondola and gondola mid-station as a condition of specific project approvals. In 2000, implementation of the Gondola project included a new base station and resort entry point located in Heavenly Village. A new day lodge and terminal at the top of the gondola were approved as part of the project, however, only the gondola terminal and a small maintenance facility were constructed (phase 1A). Table 2-15 summarizes existing lodge facilities as of September 2004 by name, seats available, sq. footage and use breakdown.

Table 2-14

## Lodge Improvements Implemented Since Master Plan (1996) Adoption

<b>Lodge Name</b>	<b>Location</b>	<b>Year</b>	<b>Description of Improvements</b>
California Main Lodge	California	1998	Add new day Care facility, remodel children's ski school, expand rental shop, add real estate sales Discovery Gallery (converted to snowboard retail shop in 2003)
		2002	Replace ticket booths and add new exterior ticket canopy, remodel food & beverage seating area and bar, remodel ticket lobby restrooms Expand retail shop
		2004	Install ADA platform lifts
Lakeview Lodge (formerly Top of the Tram)	California	2003	Remodel cafeteria scramble, remodel seating areas Remove exterior stairs, redesign entrance
Snow Beach (formerly Patsy's Hut)	California	2004	Remodel exterior façade
Sky Deck	California	2003	Remodel exterior façade
East Peak Lodge	Nevada	2002	Remodel cafeteria scramble remodel seating areas
		2004	Add roof to upper deck, add architectural features to lower deck, add entrances to both decks, construct restrooms on lower deck, add continuous windscreen to both decks, remodel BBQ & bar areas on the lower deck
Stagecoach Lodge	Nevada	2002	Remodel cafeteria scramble remodel seating areas
		2004	Install ADA lift & restroom
Boulder Lodge	Nevada	2004	Install ADA lift
Gondola Base Station	California	2000	Construct new base station terminal, ticket windows & retail store
Gondola Mid Station	California	2000	Construct new mid-station terminal & observation deck
		2002	construct new retail store
		2002	add Café Blue service window
Gondola Top Station	California	2000	Construct new top station terminal
		2003	add outdoor food & beverage service and seating area
		2004	Install elevator

**Table 2-15****Existing Lodge Breakdown by Use (sq.ft.) - September 2004**

	<i>California Base</i>	<i>Lakeview Lodge (Top of Tram)</i>	<i>Gondola Base Station</i>	<i>Gondola Mid Station*</i>	<i>Gondola Top Station</i>	<i>Boulder Base</i>	<i>East Peak Lodge</i>	<i>Stagecoach Base</i>	<i>Patsy's Hut</i>	<i>Sky Deck</i>	<i>totals</i>	
SEATS												
indoor	416	274	0	0	0	130	140	100	0	0	1,060	indoor seats
outdoor	130	102	0	72	192	50	270	104	60	270	1,250	outdoor seats
FOOD SERVICE	16,104	13,693	0	188	3,147	4,757	14,186	6,266	604	8,907	67,852	sq. feet
TICKET SALES	1,181	0	488	0	0	105	0	167	0	0	1,941	sq. feet
ACCESSORY RETAIL	4,789	62	672	600	384	387	0	0	0	0	6,894	sq. feet
RESTROOMS	2,285	915	0	520	480	555	806	554	470	1,005	7,590	sq. feet
ADMINISTRATION	2,836	318	112	0	0	282	66	3,329	0	348	7,291	sq. feet
SKI RENTAL/REPAIR	6,885	0	0	0	0	773	0	792	0	0	8,450	sq. feet
SKI SCHOOL/PATROL	12,742	53	195	0	0	1,722	0	0	0	0	14,712	sq. feet
EMPLOYEE FACILITIES	3,663	0	216	0	205	34	212	0	0	0	4,330	sq. feet
PUBLIC LOCKERS/ ACCESS AREAS	1,213	0	0	13,000	384	913	0	514	0	0	16,024	sq. feet
GONDOLA TERMINAL/ EQUIPMENT			3,599	3,325	9,031						15,955	sq. feet
<b>TOTALS</b>	<b>51,698</b>	<b>15,041</b>	<b>5,282</b>	<b>17,633</b>	<b>13,631</b>	<b>9,528</b>	<b>15,270</b>	<b>11,622</b>	<b>1,074</b>	<b>10,260</b>	<b>151,039</b>	<b>sq. feet</b>

Notes:

\* Indicates the square footage of gondola mid-station observation deck and associated walks.

**Exterior Lighting*****Exterior Lighting Approved in Master Plan 1996***

The Master Plan approved all exterior lighting be designed in keeping with TRPA Design Review Guidelines Section 7 and Exterior Lighting Standards 30.8, including the following standards:

1. Exterior lights shall not blink, flash or change intensity. String lights, building or roof line tube lighting, reflective or luminescent wall surfaces are prohibited.
2. Exterior lighting shall not be attached to trees except for the Christmas season.
3. Parking lot, walkway, and building lights shall be directed downward.
4. Fixture mounting height shall be appropriate to the purpose. The height shall not exceed the limitations set forth in Chapter 22.
5. Outdoor lighting shall be used for purposes of illumination only, and shall not be designed for, or used as, an advertising display. Illumination for aesthetic or dramatic purposes of any buildings or surrounding landscape projecting above the horizontal is prohibited.
6. The commercial operation of searchlights for advertising or any other purpose is prohibited.

7. Seasonal lighting displays and lighting for special events which could conflict with other provisions of this section may be permitted on a temporary basis pursuant to Chapter 7.

The Guidelines recommended that lighting be designed as an integral part of the architecture and landscape and that consistent overall lighting and overly bright lighting be avoided. The guidelines recommended overall principles for the design of parking lot lighting, the lighting of structures, and height standards. In general, lighting was to be directed downward and away from adjacent properties, cut-off shields were to be incorporated and lighting was not to cause glare or excessive spillage to adjacent sites. To avoid significant impacts, each of the approved plan's lighted areas were to be consistent with this section of the Guidelines.

In addition, exterior lighting for the Gondola Mid Station, Top Station and Monument Peak Lodge must be concealed from view off-site. Glare or spillage lighting shall not be evident from any lakeward vista point. If, when installed, exterior lighting is evident from below, it shall be re-designed to eliminate glare or spillage or be removed entirely. If exterior lighting is necessary for the illumination of walks or paths, luminaries was to be installed in low bollards, with light directed downward and toward buildings and should not be concealed from view from the lakeward side. Non-directional floodlights should not be installed at any location visible from the lakeward side. Spotlights may be installed if their source is concealed, and light spillage and glare is not evident from the lakeward side. As constructed, none of the buildings or ancillary structures or buildings "glow" when viewed from the lakeward side.

As required by mitigation measure 7.4-12 (Master Plan 1996 Chapter 7), Heavenly is not to construct or use bright directional lights during construction, or facility operations, within a 200-foot radius (or other distance determined to be adequate by USFWS consultation) of known special-status bat roost sites. This prohibition is recommended in order to allow for the protection of special status bat roost sites which may be encountered within the Heavenly Ski Resort development boundary.

### ***Exterior Lighting Implemented since 1996***

Since approval of the Master Plan in 1996, the approved exterior lighting standards have been followed where applicable and no changes have occurred.

## **2.5 MAINTENANCE FACILITIES**

### ***Maintenance Facilities Approved in Master Plan 1996***

The Master Plan (1996) approved maintenance facilities located at Kingsbury Grade, The Gondola Top Station and North Bowl for a total of 38,100 square feet. The new locations (Kingsbury Grade and The Gondola Top Station) for the two main maintenance buildings were chosen as being visually unobtrusive and as accessible. The Gondola Top Station was originally chosen because of its relative accessibility to both the California and Nevada sides for the grooming vehicles. The maintenance building at the Kingsbury Grade site is easily accessible to wheeled vehicles, and would remove the non-aesthetic use from the California Base Lodge. Table 2-16 summarizes the Master Plan (1996) approved maintenance facilities by location, use and square feet. Square footage of maintenance buildings shown in Table 2-16 does not include square footage for snowmaking. These were itemized separately in the snowmaking plan.

**Table 2-16**

## Master Plan (1996) Facilities - Maintenance at Buildout

<b>Location</b>	<b>Use</b>	<i>Square Feet</i>
Kingsbury Grade Parking	Major maintenance, repair, storage, parts, supplies, office and lift maintenance.	18,000
Gondola Top Station	Remote storage, minor repair, fuel storage and lift maintenance.	20,000
North Bowl	Lift Maintenance	100
<b>Square Footage Total</b>		<b>38,100</b>

***Maintenance Facilities Implemented since 1996***

No changes to maintenance facilities have occurred since approval of the Master Plan in 1996.

***Existing Maintenance Facilities – September 2004***

Currently, maintenance facilities are located at the California Base, Top of Tram, West Bowl, East Peak, and Top of the Gondola for a total of 14,810 square feet. The California Base provides vehicle service and storage (7,500 square feet), Top of the Tram provides vehicle and lift maintenance (5,500 square feet), West Bowl provides lift maintenance (480 square feet), East Peak provides lift maintenance (500 square feet) and the Top of Gondola provides lift maintenance (830 square feet). Table 2-17 summarizes the existing maintenance facilities as of September 2004 by location, use and square feet.

**Table 2-17**

## Existing Maintenance Facilities - September 2004

<b>Location</b>	<b>Use</b>	<i>Square Feet</i>
California Base	Vehicle Service and Storage	7,500
Top of the Tram	Over The Snow Vehicle Maintenance / Construction Vehicle Maintenance	5,500
West Bowl	Lift Maintenance	480
East Peak	Lift Maintenance	500
Top of Gondola	Lift Maintenance	830
<b>Square Footage Total</b>		<b>14,810</b>

## 2.6 TRANSPORTATION AND PARKING

### ***Transportation and Parking Approved in Master Plan 1996***

The Master Plan (1996) states that Heavenly will, if necessary, provide two-leveled structured parking at the California base area to maintain existing on-site parking capacities in order to accommodate a peak capacity of 22,625 skiers (125% of the 18,100 CCC). Existing offsite parking (400 spaces) at the California base area was to be discontinued upon construction and operation of the gondola and not replaced on-site. Along with the structured parking, it is desirable to maintain and enhance the skier shuttle service system. The shuttle and structured parking requirements are in turn made necessary by the fact that the creation of new parking spaces is not permitted either at the California or Nevada base areas.

Heavenly, in coordination with other resort developments, shall assist in the implementation of the Coordinated Transit System (CTS). This plan, referred to as the South Shore Transit Coordination /Expansion Study has been prepared by Leigh, Scott and Cleary, Inc. and was included in Appendix I of the Master Plan 1996. The addition of PAOTs at Heavenly is linked to CTS implementation through a Special Policy added to the Heavenly Plan Area Statements. Noise associated with the operation of the snow removal equipment in the parking lots is controlled with mitigation measures proposed in the Snow Removal Noise Mitigation Methods. This mitigation program was included in the Master Plan (1996) Chapter 7 - Mitigation and Monitoring Plan.

These measures require Heavenly to reduce the CNEL values to 1982 levels or the TRPA Plan Area Statement noise standards, whichever is less. To accomplish these levels, the measures recommend minimizing nighttime snow removal operations, and the construction of noise barriers along the perimeter of the parking lots. The

reduction in CNEL levels shall be reevaluated annually to ensure that Heavenly is implementing all possible measures to reduce CNEL values associated with snow removal operations.

Table 2-18 summarizes the Master Plan (1996) approved Heavenly skier shuttle system, and parking by location, number of spaces, and skier capacity.

**Table 2-18**

Master Plan (1996) Facilities - Parking at Buildout

**Parking Capacity - Autos and Skiers**

	<i>California</i>	<i>Boulder</i>	<i>Stagecoach</i>	<i>Kingsbury</i>	<i>Total</i>
Surface Parking Spaces	1,310	450	410	0	2,170
Offsite Parking Spaces	0	600	400	400	1,400
Structured Parking Spaces	400	0	0	0	400
<b>Total Autos</b>	<b>1,710</b>	<b>1,050</b>	<b>810</b>	<b>400</b>	<b>3,970</b>
<b>Skiers Per Auto</b>	<b>2.8</b>	<b>2.8</b>	<b>2.8</b>	<b>2.8</b>	<b>2.8</b>
<b>Total Skiers</b>	<b>4,788</b>	<b>2,940</b>	<b>2,268</b>	<b>1,120</b>	<b>11,120</b>

**Parking and Shuttle Capacity**

Ski Area Parking	11,120
Gondola	6,000
Ski Area Shuttle	3,800
<b>Total</b>	<b>20,920</b>

**Ski Area Requirement for Shuttle System**

Skiers to be Shuttled	3800
Number of Skiers per Bus	48
<b>Sub-Total</b>	<b>79</b>
Average Number of Trips per Hour	3
<b>Sub-total</b>	<b>26</b>
Access Periods (hours)	2
<b>Number of Buses Required</b>	<b>13</b>

### ***Transportation and Parking Implemented since 1996***

Since approval of the Master Plan in 1996, Heavenly has maintained and expanded its free skier shuttle service. The system has been expanded to include employee shuttle service. Both elements have been integrated into BlueGo (formerly known as CTS). The amount of parking for employees that is available at the Kingsbury off-site parking has been reduced due to the disposal of a portion of the land. All other parking capacities and locations remain as shown in the 1996 approved Master Plan.

### ***Existing Transportation and Parking as of September 2004***

As of September 2004, Heavenly provides public parking within the ski area at the California Base (1,710 spaces), Boulder Base (1,050 spaces), Stagecoach Base (810 spaces) and Kingsbury (200 spaces). An additional 422 spaces are located in the City-owned Heavenly Village parking structure. Including the Heavenly Village parking structure, the 4,192 total spaces accommodate approximately 11,738 persons assuming there are 2.8 persons per vehicle.

Off-site employee parking is provided during peak periods at satellite locations under permit from the City of South Lake Tahoe along the upper section of Ski Run Boulevard and on Heavenly-Owned Land located outside the Lake Tahoe Basin at the top of Kingsbury Grade. Employees are shuttled to the California Base from the Ski Run parking and to the Boulder/Stagecoach Bases from the Kingsbury lot. Table 2-19 summarizes the existing Heavenly skier shuttle system as of September 2004, as well as parking by location, number of spaces, and skier capacity.

Heavenly provides free shuttle bus service for guests and employees with an average daily capacity of 3,250 persons and a peak day capacity of 4800 persons using 20 vehicles. Heavenly owns the majority of buses used in the fleet and operates under contract with Area Transit Management (ATM). There are five service routes in the South Lake Tahoe/Stateline commercial core area, including the Red, Orange, Yellow, Green and Blue routes. The Red Route operates along the Highway 50 corridor west of Ski Run Boulevard, stops at numerous lodging properties and takes guests to the gondola via the Heavenly Village Transit Center. The Orange route is a gondola express route between the base of the gondola and the California Base. The Yellow route operates in the Stateline commercial and motel core, and takes guests to the gondola base. The Green Route operates in the Stateline casino core area and takes guests to the gondola. The Blue Route also operates in the Stateline casino core area and the Heavenly Village Transit Center. It delivers guests to the Boulder Base and Stagecoach Base areas.

Heavenly also operates five fixed-route daily shuttles which serve employees in the early morning and evening hours. During operating hours, three of these shuttles service California guests from the lower California parking lot and Ski Run street parking to the California base. The two Nevada shuttles circulate between the Stagecoach and Boulder lodges, transporting guests and employees. Independent hotel shuttles, taxis, walk-ins, rental shuttles, and drop offs also combine to serve approximately 2,500 skiers.

Including the employee shuttles, which are now operated by ATM, use of the Heavenly shuttle system has increased since the Master Plan was adopted in 1996. The following ridership figures are provided:

Year	Passengers
1998/99	427,209
1999/00	426,704
2000/01	421,704
2001/02	391,936
2002/03	395,157
2003/04	*468,646

\*includes operation of Heavenly employee shuttles by ATM

Heavenly maintains a helipad at the California Base on top of the vehicle maintenance building. The Forest Service has approved seven helipads for emergency evacuation of injured guests and for search and rescue. Four of the emergency helipads are located in California at Sky Meadows, Milky Way Bowl, top terminal of the Dipper lift, and Von Schmidt's Flats. Three of the emergency helipads are located in Nevada at East Peak Lake, base of Galaxy and the base of Mott Canyon. In cases of extreme life threatening emergencies, the helicopter may land for medical evacuation in other than approved helipads.

**Table 2-19**

Existing Parking Facilities - September 2004

Parking Capacity - Autos and Skiers

	California	Boulder	Stagecoach	Kingsbury	Heavenly Village	Total
Surface Parking Spaces	1,310	450	410	0	0	2,170
Offsite Parking Spaces	0	600	400	200	0	1,200
Structured Parking Spaces	400	0	0	0	422	822
<b>Total Autos</b>	1,710	1,050	810	200	422	4,192
<b>Skiers Per Auto</b>	2.8	2.8	2.8	2.8	2.8	2.8
<b>Total Skiers</b>	4,788	2,940	2,268	560	1,182	11,738

Parking and Shuttle Capacity

Ski Area Parking	11,738
Within Walking Distance of Gondola	6,000
Ski Area Shuttle	3,250
<b>Total</b>	20,988

Ski Area Requirement for Shuttle Bus System

Skiers to be Shuttled (Average Day)	3,250
Number of Skiers per Bus	40
<b>Sub-Total</b>	81
Average Number of Trips per Hour	3
<b>Sub-total</b>	27
Access Periods (hours)	2
<b>Number of Buses Required</b>	14

## 2.7 SNOWMAKING COVERAGE

### ***Snowmaking Approved in Master Plan 1996***

The total man-made snow coverage was approved to be 499 acres, which approximately doubles the existing system. A detailed analysis of the snowmaking system appeared in Chapter 5 of the Master Plan (1996) and under separate cover in the Heavenly Snowmaking Manual. Table 2-20 summarizes the 1996 Master Plan approved snow making coverage by trail, length, width, acreage, ability, acre feet of water required for complete coverage per acre/year, and total acre feet needed to achieve complete coverage.

Noise associated with the operation of the snowmaking system is controlled with mitigation measures proposed in the Snowmaking Noise Mitigation Methods for Base Areas. For upper mountain areas, the measures are included in the Master Plan (1996) Chapter 7 - Mitigation and Monitoring Plan. These measures included interim targets for CNEL reductions at the base areas. The 1996 approved reductions are as follows:

- 20 dB reduction from 1994/95 CNEL at Stagecoach Base in Year 1999;
- 25 dB reduction from 1994/95 CNEL at Boulder Base in Year 2001; and
- 10 dB reduction from 1994/95 CNEL in Year 1999, 15 dB reduction from 1994/95 CNEL in Year 2001, and goal of 35 dB reduction from 1994/95 CNEL in Year 2006 at California Base.

### ***Snowmaking Implemented since 1996***

Since approval of the Master Plan in 1996, snowmaking has been approved for implementation on nine new trails and one existing trail. Snowmaking has been implemented on runs 29, 29B, 30, 81, 81A & 82. It has been approved but not implemented yet on ski runs 29A, 72 & 83. Additional detailed information about snowmaking can be found in Chapter 5 – Snowmaking Plan. Table 2–21 summarizes snowmaking implemented since Master Plan (1996) adoption.

### ***Existing Snowmaking as of September 2004***

As of September 2004, Heavenly provides manmade snow coverage on 309.4 acres of ski trails (including snowmaking approved to be constructed but not yet implemented). This equates to 45% of the total trail acreage, with a maximum utilization of 989 acre feet of water per ski season. Of the 309.4 acres of trails covered by snowmaking, a variety of ability levels are accommodated including: 5% beginner, 28% novice, 41% low intermediate, 15% intermediate, 4% advanced intermediate and 8% expert.

A detailed analysis of the snowmaking system appears in Chapter 5. Table 2-22 summarizes the existing Heavenly snowmaking system as of September 2004 by coverage of trail, length, width, acreage and ability. Table 2-23 provides a breakdown of the existing trails covered by snowmaking by ability level. Figure 3-2, Existing and Proposed Snowmaking, identifies Heavenly's existing snowmaking coverage.

Table 2-20

## Master Plan (1996) Facilities - Snowmaking at Buildout

Master Plan '96 Trail #	Trail Name	Length (feet)	Width (feet)	Snowmaking Acreage	Ability (skill class)	Acre ft / Acre (1)	Acre ft (2)	Change (acres) (3)	Change (acre ft) (4)
<b>California</b>									
<b>In Basin</b>									
1	EAST BOWL -THE FACE	3,220	220	16.3	EXP	5.0	81.3	0.0	0.0
2	GUNBARREL	2,030	175	8.2	EXP	5.0	40.8	0.0	0.0
3	PISTOL	1,220	130	3.6	EXP	5.0	18.2	3.6	18.2
4	WEST BOWL	2,040	100	4.7	ADV	5.0	23.4	4.7	23.5
5	WORLD CUP	1,000	260	6.0	LOW	2.7	16.1	0.0	0.0
6	ROUND-A-BOUT	17,000	40	15.6	INT	2.7	42.1	0.0	0.0
7	PATSY'S	1,730	200	7.9	NOV	2.7	21.4	0.0	0.0
8	GROOVE	1,640	100	3.8	NOV	2.7	10.2	3.8	10.3
9	MAGGIES	5,210	70	8.4	NOV	2.7	22.6	0.0	0.0
10	CAT TRACK	1,070	40	1.0	LOW	2.7	2.7	0.0	0.0
11	SWING TRAIL	1,190	30	0.0	LOW	0.0	0.0	0.0	0.0
12	WATERFALL	760	200	3.5	ADV	5.0	17.4	3.5	17.5
13	MOMBO MEADOWS	1,190	150	4.1	LOW	2.7	11.1	0.0	0.0
14	MOMBO	1,700	25	1.0	LOW	2.7	2.6	0.0	0.0
14	LOWER MOMBO	1,200	90	2.5	LOW	2.7	6.7	0.0	0.0
15	LOWER POWDER BOWL	1,540	100	3.5	INT	4.0	14.1	3.5	14.0
16	RIDGE RUN	1,200	60	1.7	NOV	2.7	4.5	0.0	0.0
16	LOWER RIDGE RUN	4,610	150	15.9	NOV	2.7	42.9	0.0	0.0
17	WOODS TRAIL	2,960	25	0.0	NOV	0.0	0.0	0.0	0.0
18	BETTY'S SWING	1,080	30	0.0	INT	0.0	0.0	0.0	0.0
19	RIDGE BOWL	1,400	100	0.0	INT	0.0	0.0	0.0	0.0
19	RIDGE CHUTE	860	50	0.0	INT	0.0	0.0	0.0	0.0
20	BETTY'S RUN	3,680	150	12.7	INT	2.7	34.2	12.7	34.3
20	BETTY'S BOWL	400	180	0.0	EXP	0.0	0.0	0.0	0.0
21	LOWER BETTY'S	710	50	0.0	INT	0.0	0.0	0.0	0.0
22	BETTY'S CUTOFF	570	130	0.0	INT	0.0	0.0	0.0	0.0
23	CANYON	2,400	110	6.1	LOW	2.7	16.4	0.0	0.0
24	YAHOO (RUSUTSU)	1,860	100	4.3	LOW	2.7	11.5	0.0	0.0
25	LIZ'S	4,660	90	9.6	INT	2.7	26.0	0.0	0.0
26	STEAMBOAT	1,430	100	3.3	INT	2.7	8.9	0.0	0.0
27	UPPER ELLIE'S / ELLIE'S	4,490	120	12.4	ADV	4.0	49.5	0.0	0.0
27	ELLIE'S SWING	2,140	70	3.4	INT	2.7	9.3	3.4	9.2
28	SKYLINE TRAIL	3,100	40	2.8	LOW	2.7	7.7	2.8	7.6
29	(UPR.) CALIFORNIA TRAIL	2,900	130	8.7	LOW	2.7	23.4	8.7	23.5
29	CALIFORNIA TRAIL	6,010	40	5.5	LOW	2.7	14.9	0.0	0.0
29a	SAM'S DREAM	1,420	125	4.1	NOV	4.0	16.3	4.1	16.4
30	PERFECT RIDE (WEST BOWL)	1,300	300	8.7	NOV	2.7	23.5	8.7	23.5
31	LOWER SKI SCHOOL	300	200	3.7	BEG	2.7	10.0	2.3	6.2
32	CHILDRENS SKI CENTER	180	400	0.9	BEG	2.7	2.4	-0.8	-2.2
33	PIONEER PLATTER PULL	700	150	2.4	BEG	2.7	6.5	2.4	6.5
34	LEARN TO SKI CENTER	400	150	1.4	BEG	2.7	3.7	0.0	0.0
64	49ER	1,710	40	1.6	LOW	4.0	6.3	1.6	6.4
67	VON SCHMIDT'S (1/4)	1,050	50	1.2	LOW	2.7	3.3	0.0	0.0
81	NEW (1/2) - BIG EASY	1,150	600	15.8	LOW	2.7	42.8	15.8	42.7
82	NEW - CASCADE	1,980	150	6.8	LOW	4.0	27.3	6.8	27.2
83	NEW - GONDOLA MEADOW	600	300	4.1	BEG	2.7	11.2	4.1	11.1
<b>In Basin Total</b>				<b>227.0</b>			<b>733.0</b>	<b>91.7</b>	<b>295.7</b>
<b>Out of Basin</b>									
51	W. MILKY WAY BOWL (2/3)	1,800	900	0.0	EXP	0.0	0.0	0.0	0.0
51	E. MILKY WAY BOWL	0	0	0.0	EXP	0.0	0.0	0.0	0.0
53	DIPPER KNOB	1,730	30	1.2	INT	2.7	3.2	1.2	3.2
54	BIG DIPPER (1/5)	1,080	150	3.7	INT	2.7	10.0	0.0	0.0
57	DIPPER BOWL (1/2)	680	450	0.0	EXP	0.0	0.0	0.0	0.0
58	ORION (1/2)	1,820	200	8.4	LOW	2.7	22.6	0.0	0.0
61	SAND DUNES	1,610	80	3.0	INT	2.7	8.0	3.0	8.0
72	NEW (1/2)	780	130	2.3	ADV	4.0	9.3	2.3	9.3
75	NEW (1/3)	470	150	1.6	INT	4.0	6.5	1.6	6.5
<b>Out of Basin Total</b>				<b>20.2</b>			<b>59.6</b>	<b>8.1</b>	<b>27.0</b>
<b>California Total</b>				<b>247.1</b>			<b>792.6</b>	<b>99.8</b>	<b>322.7</b>

## Notes:

- (1) Acre feet of water needed per acre of ski run to achieve complete snow coverage. 2.7 indicates a ski run will require 2.7 acre feet of water per ski run acre per year to achieve snow coverage of ground cover. This number is assumed to be worst case for a ski season.
- (2) Total acre feet of water required for complete snow coverage of the ski run for a ski season. This number is calculated by multiplying the Snowmaking Acreage by the Acre ft/Acre column.
- (3) Change from existing conditions (1996) to Master Plan (1996) build out.
- (4) Additional water requirements of Master Plan (1996) from existing conditions (1996).

Table 2-20 (cont'd)

## Master Plan (1996) Facilities - Snowmaking at Buildout

Master Plan '96 Trail #	Trail Name	Length (feet)	Width (feet)	Snowmaking Acreage	Ability (skill class)	Acre ft / Acre (1)	Acre ft (2)	Change (acres) (3)	Change (acre ft) (4)
<b>Nevada</b>									
<b>In Basin</b>									
40	EDGEWOOD BOWL	3,000	250	17.2	NOV	4.0	68.8	0.0	0.0
44	OLYMPIC DOWNHILL	5,190	130	15.5	LOW	2.7	41.8	0.0	0.0
44		0	0	0.0	LOW	0.0	0.0	0.0	0.0
45	075	1,330	90	2.7	INT	4.0	11.0	2.7	11.0
46	UPPER NORTH BOWL (2/3)	1,260	145	4.2	ADV	5.0	21.0	0.0	0.0
46	NORTH BOWL	3,770	90	7.8	ADV	5.0	38.9	7.8	38.9
65	STEVE'S	740	30	0.5	LOW	2.7	1.4	0.0	0.0
67	VON SCHMIDT'S (1/4)	1,050	50	1.2	LOW	2.7	3.3	0.0	0.0
68	BOULDER SKI SCHOOL	700	175	2.8	BEG	2.7	7.6	2.8	7.6
81	NEW (1/2)	1,150	600	15.8	LOW	2.7	42.8	15.8	42.8
<b>In Basin Total</b>				<b>67.8</b>			<b>236.6</b>	<b>29.1</b>	<b>100.3</b>
<b>Out of Basin</b>									
41	WAY HOME	9,090	30	6.3	LOW	2.7	16.9	6.3	17.0
41	LOWER WAY HOME	1,900	120	5.2	LOW	2.7	14.1	0.0	0.0
41	STAGECOACH-W.H.	0	0	0.0	LOW	0.0	0.0	0.0	0.0
42	(LOWER) STAGECOACH	4,500	120	12.4	INT	4.0	49.6	0.0	0.0
43	(UPPER) STAGECOACH	1,810	100	4.2	INT	4.0	16.6	4.2	16.8
44	OLYMPIC DOWNHILL (2/5)	3,460	130	10.3	LOW	2.7	27.9	0.0	0.0
47	(UPPER) PEPIS	3,500	50	4.0	LOW	2.7	10.8	0.0	0.0
48	CROSSOVER	4,500	65	6.7	LOW	2.7	18.1	0.0	0.0
48	(LOWER) CROSSOVER	0	0	0.0	LOW	0.0	0.0	0.0	0.0
49	PERIMETER	5,870	100	13.5	LOW	2.7	36.4	13.5	36.5
50	GALAXY	4,900	90	10.1	LOW	2.7	27.3	10.1	27.3
51	W. MILKY WAY BOWL (1/3)	900	900	0.0	EXP	0.0	0.0	0.0	0.0
51	E. MILKY WAY BOWL	0	0	0.0	EXP	2.7	0.0	0.0	0.0
52	UPPER PERIMETER (RIM TRAIL)	3,280	50	0.0	EXP	2.7	0.0	0.0	0.0
54	BIG DIPPER (4/5)	4,300	150	14.8	INT	2.7	40.0	7.4	20.0
54	LOWER BIG DIPPER (RETURN)	1,600	100	3.7	INT	2.7	9.9	3.7	10.0
55	ORION'S BELT	580	80	1.1	LOW	2.7	2.9	1.1	3.0
56	ARIES	920	60	1.3	INT	2.7	3.4	1.3	3.5
57	DIPPER BOWL (1/2)	680	450	0.0	EXP	0.0	0.0	0.0	0.0
58	ORION (1/2)	1,820	200	8.4	LOW	2.7	22.6	0.0	0.0
59	LOWER ORION	1,590	80	2.9	LOW	2.7	7.9	0.0	0.0
60	JACK'S	1,080	120	0.0	INT	0.0	0.0	0.0	0.0
62	LITTLE DIPPER	2,600	175	10.4	INT	5.0	52.2	0.0	0.0
63	COMET	3,250	190	14.2	LOW	2.7	38.3	0.0	0.0
66	PONDEROSA (BONANZA BOWL)	2,160	80	4.0	INT	4.0	15.9	4.0	16.0
66a	EAST PEAK	2,150	80	3.9	INT	4.0	15.8	3.9	15.6
67	VON SCHMIDT'S (1/4)	2,100	50	2.4	INT	2.7	6.5	2.4	6.5
72	NEW (1/2)	780	130	2.3	ADV	4.0	9.3	2.3	9.2
73	NEW	3,280	30	2.3	ADV	4.0	9.0	2.3	9.2
75	NEW (2/3)	940	150	3.2	ADV	4.0	12.9	3.2	12.8
76	NEW	3,390	150	0.0	ADV	0.0	0.0	0.0	0.0
77	NEW	2,570	150	8.8	ADV	4.0	35.4	8.8	35.2
79	MOTT CANYON	2,000	2000	0.0	EXP	0.0	0.0	0.0	0.0
79	KILLEBREW	1,900	1000	0.0	EXP	0.0	0.0	0.0	0.0
86	NEW (AA #3)	2,100	150	0.0	ADV	0.0	0.0	0.0	0.0
87	NEW (OLD WELLS FARGO)	4,190	150	14.4	ADV	4.0	57.7	14.4	57.6
89	NEW (WELLS FARGO)	5,580	30	0.0	EXP	0.0	0.0	0.0	0.0
91	NEW (L. OLYMPIC)	3,760	150	12.9	EXP	2.7	35.0	12.9	34.8
<b>Out of Basin Total</b>				<b>183.8</b>			<b>592.5</b>	<b>101.8</b>	<b>331.0</b>
<b>Nevada Total</b>				<b>251.6</b>			<b>829.1</b>	<b>131.0</b>	<b>431.3</b>
<b>Grand Total</b>				<b>498.7</b>			<b>1621.7</b>	<b>230.9</b>	<b>754.0</b>

## Notes:

- (1) Acre feet of water needed per acre of ski run to achieve complete snow coverage. 2.7 indicates a ski run will require 2.7 acre feet of water per ski run acre per year to achieve snow coverage of ground cover. This number is assumed to be worst case for a ski season.
- (2) Total acre feet of water required for complete snow coverage of the ski run for a ski season. This number is calculated by multiplying the Snowmaking Acreage by the Acre ft/Acre column.
- (3) Change from existing conditions (1996) to Master Plan (1996) build out.
- (4) Additional water requirements of Master Plan (1996) from existing conditions (1996).

**Table 2-21**

## Snowmaking Implemented Since Master Plan (1996) Adoption

<b>Year</b>	<b>Master Plan '96 Trail Name</b>	<b>Acreage (acres)</b>	<b>Ability (skill class)</b>
<b>1997</b>			
29	UPPER CALIFORNIA TRAIL	7.4	LOW
29B	TAMARACK RETURN	0.8	LOW
<b>1998</b>			
30	FIRST RIDE	8.7	NOV
<b>1999</b>			
	NONE		
<b>2000</b>			
	NONE		
<b>2001</b>			
82	CASCADE	8.0	LOW
<b>2002</b>			
	NONE		
<b>2003</b>			
	NONE		
<b>2004</b>			
81	EASY STREET	6.9	LOW
81A	SILVER SPUR	0.5	LOW
<b>APPROVED BUT NOT INSTALLED</b>			
64	49ER	1.6	NOV
72	METEOR	5.7	ADV
83	VON SCHMIDT'S TEACHING AREA	4.1	BEG

Table 2-22

## Existing Snowmaking Facilities - September 2004

Master Plan '96 Trail #	Existing '04 Trail #	Trail Name	Length (feet)	Width (feet)	Acreage (acres)	Ability (skill class)	Acre ft. / Acre (1)	Acre ft. (2)	Change from Master Plan '96 Approved Acres (3)	Change from Master Plan '96 Approved Acre ft. (4)
<b>California</b>										
<b>In Basin</b>										
1	B1	EAST BOWL -THE FACE	3,220	220	16.3	EXP	5	81.3	0	0
2	B2	GUNBARREL	2,030	175	8.2	EXP	5	40.8	0	0
5	D1	WORLD CUP	1,000	260	6.0	LOW	2.7	16.1	0	0
6	1	ROUND-A-BOU	17,000	40	15.6	NOV	2.7	42.1	0	0
7	E1	PATSY'S	1,730	200	7.9	NOV	2.7	21.4	0	0
9	G1	MAGGIES	5,210	80	8.4	NOV	2.7	22.7	0	0
10	G2	CAT TRACK	1,070	40	1.0	LOW	2.7	2.7	0	0
13	G5	MOMBO MEADOWS	1,190	170	4.1	LOW	2.7	11.1	0	0
14	G6	MOMBO	1,700	25	1.0	LOW	2.7	2.6	0	0
14	G7	LOWER MOMBO	1,200	90	2.5	LOW	2.7	6.7	0	0
16	2	RIDGE RUN	1,200	60	1.7	LOW	2.7	4.5	0	0
16	3	LOWER RIDGE RUN	4,610	155	15.9	NOV	2.7	42.9	0	0
23	H9	CANYON - SKY CANYON	2,400	128	6.1	LOW	2.7	16.5	0	0
24	H10	JACKPOT (RUSUTSU)	1,860	125	4.3	LOW	2.7	11.6	0	0
25	I1	LIZ'S	4,630	100	9.6	INT	2.7	25.9	0	0
26	H11	STEAMBOAT	1,430	130	3.3	INT	2.7	8.9	0	0
27	I3	UPPER ELLIE'S / ELLIE'S	4,490	130	12.4	ADV	4	49.6	0	0
*29	GG1	UPPER CALIFORNIA TRAIL	2,900	145	7.4	LOW	2.7	20.0	-1.3	-3.4
29	5	CALIFORNIA TRAIL	6,010	50	5.5	LOW	2.7	14.9	0	0
**29A	GG2	SAM'S DREAM	1,500	125	4.3	LOW	4	17.2	0	0
*29B	GG3	TAMARACK RETURN	650	50	0.8	LOW	2.7	2.2	0.8	2.0
*30	K1	PERFECT RIDE (WEST BOWL)	1,260	300	8.7	NOV	2.7	23.4	0	0
31	L1	ENCHANTED FOREST	500	200	2.3	BEG	2.7	6.2	-1.4	-3.8
32	M1	ENCHANTED FOREST II	390	100	0.9	BEG	2.7	2.4	0	0
33	N1	PIONEER PLATTER PULL	700	150	2.4	BEG	2.7	6.5	0	0
34	O1	LEARN TO SKI CENTER	400	150	1.4	BEG	2.7	3.7	0	0
*81	HH1	EASY STREET (1/2)	750	200	3.4	NOV	2.7	9.3	-4.5	-12.2
*82	GG6	CASCADE	2,800	125	8.0	LOW	4	32.1	1.2	4.8
**83	HH2	VON SCHMIDT'S TEACHING AREA	600	300	4.1	NOV	2.7	11.2	0	0
<b>In Basin Total</b>					<b>173.4</b>			<b>556.5</b>	<b>-5.2</b>	<b>-12.6</b>
					30.4					
<b>Out of Basin</b>										
54	V4	BIG DIPPER (1/5)	1,080	150	3.7	INT	2.7	10.0	0	0
58	V8	ORION'S (1/2)	1,820	200	8.4	LOW	2.7	22.6	0	0
**72	V10	METEOR (1/2)	970	130	2.9	INT	2.7	7.8	0.6	-1.5
<b>Out of Basin Total</b>					<b>15.0</b>			<b>40.4</b>	<b>0.0</b>	<b>-1.5</b>
<b>California Total</b>					<b>188.4</b>			<b>596.9</b>	<b>-5.2</b>	<b>-14.1</b>

## Notes:

- (1) Acre feet of water needed per acre of ski run to achieve complete snow coverage. 2.7 indicates a ski run will require 2.7 acre feet of water per ski run acre per year to achieve snow coverage of ground cover. This number is assumed to be worst case for a ski season.
  - (2) Total acre feet of water required for complete snow coverage of the ski run for a ski season. This number is calculated by multiplying the Snowmaking Acreage by the Acre ft/Acre column.
  - (3) Change from Master Plan (1996) Approved to Master Plan Amendment (2004) Proposed build out.
  - (4) Additional water requirements of Master Plan Amendment (2004) from Master Plan (1996).
- \* All or partially implemented since adoption of the Master Plan in 1996.  
\*\* Approved to be implemented but not yet constructed.

Table 2-22 (cont'd)

## Existing Snowmaking Facilities - September 2004

Master Plan '96 Trail #	Existing '04 Trail #	Trail Name	Length (feet)	Width (feet)	Acreage (acres)	Ability (skill class)	Acre ft. / Acre (1)	Acre ft. (2)	Change from Master Plan '96 Acres (3)	Change from Master Plan '96 Acre ft. (4)
<b>Nevada</b>										
<b>In Basin</b>										
40	Q1	BOULDER (EDGEWOOD) BOWL	3,000	250	17.2	NOV	4	68.9	0	0
44	S1	OLYMPIC DOWNHILL (3/5)	5,190	130	15.5	LOW	2.7	41.8	0	0
65	9	STEVE'S	740	30	0.5	LOW	2.7	1.4	0	0
68	X1	BOULDER SKI SCHOOL	700	175	2.8	BEG	2.7	7.6	0	0
*81	HH1	EASY STREET (1/2)	760	200	3.5	NOV	2.7	9.4	-4.5	-12.2
<b>In Basin Total</b>					<b>39.5</b>			<b>129.1</b>	<b>-4.5</b>	<b>-12.2</b>
<b>Out of Basin</b>										
41	7	LOWER WAY HOME	1,900	120	5.2	BEG	2.7	14.1	0	0
44	S1	OLYMPIC DOWNHILL (2/5)	3,460	130	10.3	LOW	2.7	27.9	0	0
47	8	PEPI'S	3,500	50	4.0	LOW	2.7	10.8	0	0
48	S5	CROSSOVER	4,500	65	6.7	LOW	2.7	18.1	0	0
54	V4	BIG DIPPER (4/5)	4,300	150	14.8	INT	2.7	40.0	0	0
55	V6	ORION'S BELT	580	80	1.1	LOW	2.7	2.9	0	0
58	V8	ORION'S (1/2)	1,820	200	8.4	LOW	2.7	22.6	0	0
59	V9	LOWER ORION'S	1,590	108	2.9	LOW	2.7	7.8	0	0
62	W3	LITTLE DIPPER	2,600	175	10.4	INT	5	52.2	0	0
63	W4	COMET	3,250	190	14.2	LOW	2.7	38.3	0	0
**72	V10	METEOR (1/2)	985	130	2.9	INT	2.7	7.9	0.6	-1.5
*81A	HH3	SILVER SPUR	450	50	0.5	LOW	2.7	1.4	0.5	1.4
<b>Out of Basin Total</b>					<b>81.5</b>			<b>244.1</b>	<b>1.1</b>	<b>-0.1</b>
<b>Nevada Total</b>					<b>121.0</b>			<b>373.2</b>	<b>-3.4</b>	<b>-12.3</b>
<b>Grand Total</b>					<b>309.4</b>			<b>970.1</b>	<b>-8.6</b>	<b>-26.4</b>

## Notes:

- (1) Acre feet of water needed per acre of ski run to achieve complete snow coverage. 2.7 indicates a ski run will require 2.7 acre feet of water per ski run acre per year to achieve snow coverage of ground cover. This number is assumed to be worst case for a ski season.
  - (2) Total acre feet of water required for complete snow coverage of the ski run for a ski season. This number is calculated by multiplying the Snowmaking Acreage by the Acre ft/Acre column.
  - (3) Change from Master Plan (1996) Approved to Master Plan Amendment (2004) Proposed build out.
  - (4) Additional water requirements of Master Plan Amendment (2004) from Master Plan (1996).
- \* All or partially implemented since adoption of the Master Plan in 1996.  
\*\* Approved to be implemented but not yet constructed.

**Table 2-23**

## Existing Snowmaking Classification - September 2004

Ability Level	CA and NV			Percent			Industry Standard
	CA	Acreage NV	Total	CA	NV	Total	
Beginner	7.0	8.0	15.0	4%	7%	5%	2%
Novice	64.0	20.7	84.7	34%	17%	28%	13%
Low Intermediate	61.0	63.6	124.6	32%	53%	41%	20%
Intermediate	18.9	27.5	46.4	10%	23%	15%	35%
Advanced Intermediate	12.4	0.0	12.4	7%	0%	4%	20%
Expert	24.5	0.0	24.5	13%	0%	8%	10%
<b>Totals</b>	<b>187.8</b>	<b>119.8</b>	<b>307.6</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

## In and Out of Basin

Ability Level	Acreage			Percent			Industry Standard
	In	Out	Total	In	Out	Total	
Beginner	9.8	5.2	15.0	5%	5%	5%	2%
Novice	84.7	0.0	84.7	40%	0%	28%	13%
Low Intermediate	68.6	56.0	124.6	32%	59%	41%	20%
Intermediate	12.9	33.5	46.4	6%	35%	15%	35%
Advanced Intermediate	12.4	0.0	12.4	6%	0%	4%	20%
Expert	24.5	0.0	24.5	12%	0%	8%	10%
<b>Totals</b>	<b>212.9</b>	<b>94.7</b>	<b>307.6</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

## 2.8 UTILITIES

### Sewage Treatment

As of September 2004, treatment of sewage on the California side of Heavenly is by connection to the central sewer system of the South Tahoe Public Utility District (STPUD). Heavenly has reserved treatment capacity with the STPUD. A five-inch diameter collection line serves the California side of the mountain. Treatment of sewage on the Nevada side of Heavenly for new facilities will be by connection to the central sewage treatment facilities of the Douglas County Sewer Improvement District (DCSID) using transmission lines operated by the Kingsbury General Improvement District (KGID). Additional treatment capacity has been reserved at the DCSID treatment facility. A six-inch diameter collection line serves the Nevada side of the mountain.

Since approval of the Master Plan in 1996, Heavenly has maintained approved capacity for additional sewage flows and has utilized a portion of the additional on-mountain capacity at the gondola mid-station and top station.

The Master Plan approval of a new year round restaurant at the Gondola Mid Station and a new lodge at the Gondola Top Station was determined to increase the current sewage flows to the South Tahoe Public Utility District (STPUD) treatment facility. Additional capacity is available at their treatment facilities under the terms of Heavenly's existing sewer allocation. Other restaurant modifications on the mountain were not to exceed Heavenly's authorized capacities.

## **Water Service**

Water service to Heavenly on the California side is provided by STPUD and from on-mountain wells. STPUD serves potable water to the California Base Lodge and snowmaking water at a point near the California Base Lodge. Snowmaking water is pumped up the mountain for direct use in snowmaking, or pumped to on-mountain storage reservoirs for later use. Water service on the Nevada side is from connection to KGID facilities where it is pumped to be used for snowmaking, or from wells on the Nevada side where it is used for both potable and snowmaking purposes.

There are also either surface water diversion rights and/or underground pumping water rights both in California and Nevada for snowmaking.

A new potable well and water storage tank was approved in the Master Plan (1996) to be located near the Gondola alignment to serve the Gondola Mid and Top Stations. That system was implemented in 2000.

## **Electricity**

Electric Power is supplied to Heavenly by Sierra Pacific Power (SPP) in both California and Nevada. Service is through a single primary meter in each state. In California, SPP operates under the tariffs and regulations of the California Public Utilities Commission. In Nevada, it operates under the Nevada Public Utilities Commission tariffs and regulations.

Modification and capacity increases to the 1996 existing SPP facilities on the mountain were determined to be required. The modifications include power to all proposed lifts, significant lodge expansions, and the Gondola Mid and Top Stations. The increased size of the snowmaking system would require upgrading the existing overhead and underground power lines. The California Base redevelopment and future on-mountain facilities may require increased service levels from SPP.

Since approval of the Master Plan in 1996, Heavenly and SPP have upgraded the system components to new and expanded facilities as needed.

Heavenly works closely with each utility provider in order to ensure continuity of service as needed in order to implement the Master Plan.

## 2.9 SIGNAGE

No new offsite signage owned by Heavenly was proposed in the Master Plan 1996. Signs are to be addressed on an as needed basis when ski runs or lifts are built and approved under the Special Use Permit, USFS. Existing offsite directional and guide signage shall be replaced with TCORP standard sign face within one year from issuance of the TCORP sign standards. In addition, the offsite signs located on the Summit Village entrance signs near the top of the Kingsbury Grade were to be removed by October 1, 1997.

Since approval of the Master Plan in 1996, Heavenly has removed the overhead entry sign at the California Main Lodge, installed a new monument sign that replaced the non-conforming overhead entry sign at the California Main Lodge, and installed a new monument sign at the base of the gondola in Heavenly Village. TCORP off-site entry sign standards have not been developed or approved for use, therefore no changes have occurred to off-site directional highway signs.

In 2003, Heavenly began implementing a resort-wide program to significantly improve way finding and trail signage. This program was deemed to be very successful from guest service and aesthetic perspectives. Overall, there was very little or no increase in the total number of on-mountain signs. In 2004, the informational and way finding sign replacement program continued with the addition of new communication technology used in way finding and information signs at key locations. Current lift status information was incorporated into electronic message centers as an aid to resort guests. The lift status signs were installed at the base of the gondola, the California Base Lodge, the base of the Sky Express lift and base of Comet and Dipper Express lifts.

## 2.10 ANALYSIS OF COMFORTABLE CARRYING CAPACITY (CCC)

Comfortable Carrying Capacity (CCC) is described as the maximum level of utilization of a ski area (the number of skiers that can be accommodated at any given time) which guarantees a pleasant recreational experience. It is based on a variety of factors, including the uphill loading capacity of the lifts, the downhill capacity of the trail systems, the total vertical rise of the lift system, and the total amount of time spent in the lift waiting line, on the lift itself, and on the ski slopes. It is acceptable within the ski industry to exceed the CCC/SAOT on peak days by a total of 25%. Table 2-24 summarizes the CCC at buildout approved in the Master Plan 1996. Table 2-25 summarizes the existing CCC at Heavenly, as of September 2004.

Density figures take into account all of the skiers distributed throughout the ski area and not just those actually populating the ski trails themselves. Ski industry surveys indicate that between 25% and 35% will be using the trail system while the remaining numbers will be on the lifts, in the waiting lines, and/or in the base buildings and milling area. This means that an “acceptable density” of 35 skiers per acre reflects an actual “trail density” of between 9 and 12 skiers per acre. Table 2-26 summarizes the density analysis at build out of the Master Plan 1996. Table 2-27 summarizes the existing density analysis, as of September 2004.

While the comfortable carrying capacity is used to determine utilization of a ski area and analyze whether the ski resort is balanced, Persons At One Time (PAOT) is used for determining skier allocation in this Heavenly Master Plan. PAOT is a TRPA Regional Plan unit of outdoor recreation which is used in measuring the skier capacity of a ski area, and for which other Regional capacities (e.g., tourist accommodations, commercial floor area,

roadway capacity, sewer and water capacity) must be sufficient. See Appendix 1 for Heavenly's PAOT calculations.

## 2.11 MASTER PLAN IMPLEMENTATION/PHASING

The 1996 Master Plan phasing plan shown on Table 2-28 reflected Heavenly's best judgment based on existing conditions (1992/1993) and was anticipated to be modified in response to changing conditions and circumstances. For example, a project in phase 3 may be implemented before a project in phase 1. Modifications to the phasing plan do not require amendment of the Master Plan. The Cumulative Watershed Effects implementation schedule developed for the Master Plan EIR/EIS/EIS was incorporated into this phasing schedule following certification of the environmental document and prior to adoption of the Master Plan.

## 2.12 LAND COVERAGE

### ***Land Coverage Approved in Master Plan 1996***

As analyzed in the Final EIR/EIS/EIS (Volume 5, pages 8.A-22 through 8.A-39), the Master Plan was approved to add new land coverage within the in-region portion of the Heavenly permit boundary. This new land coverage was approved to consist of the facilities referenced above. The existing land coverage analysis showed that Heavenly has approximately 40,000 square feet of potential land coverage available, assuming a one percent allowable land coverage limit. The Master Plan was approved to add approximately 101,992 square feet of new land coverage (Final EIR/EIS/EIS, Table 4.4-5, page 8.A-29), and would therefore exceed allowable limits by approximately 62,000 square feet.

To allow the addition of this excess land coverage, the Master Plan indicated that Heavenly must remove and restore existing onsite land coverage in accordance with the Code of Ordinances. Land coverage removal could occur from the obliteration of existing onsite roadways. Many roadways have been identified for abandonment/obliteration in the CWE analysis included in the EIR/EIS/EIS. There are 12.01 acres (7.59 acres within watershed CA-1, 2.29 acres within watershed CA-6, and 2.13 acres within watershed NV-3) of onsite roadways identified in the CWE analysis which could be abandoned and obliterated. These roadways are currently assumed to be soft land coverage, as they meet the TRPA definition of soft land coverage (subject to TRPA verification).

### ***Land Coverage Implemented since 1996***

Since approval of the Master Plan in 1996, Heavenly has utilized the remaining 40,000 square feet of potential land coverage on several projects approved by TRPA. In addition, existing land coverage was retired, verified and banked in order to use on additional projects.

Table 2-29 summarizes land coverage by TRPA for Master Plan projects from 1997-2004. Appendix 2 contains a detailed listing of land coverage approved and implemented by project. Included in the additional land coverage line of the summary table is the approved land coverage for the Sky Meadows Lodge (1998) which was not built and will be relocated in the Master Plan Amendment 2004, and a larger approved amount of land coverage than was built for the gondola project. Chapter 3 identifies projects that will utilize additional or relocated land coverage, and potential sources for retirement and relocation.

***Existing Land Coverage as of September 2004***

Existing land coverage within the USDA Forest Service and Heavenly owned portions of the special use permit boundary consists of skier support facilities, parking lots, ski lifts, and paved & unpaved roads. Existing coverage for which Heavenly has the responsibility to disclose under the Bailey Land Capability Classification system include those facilities and roads within the Lake Tahoe Region. TRPA has determined (for purposes of implementing the Master Plan 1996) that Heavenly's project area shall consist of all lands within the In-Region portion of Heavenly's special use permit area that are owned by either Heavenly or the USDA Forest Service (see figure 2-1). Using this project area, Heavenly is within allowable Bailey land coverage limits for the existing condition. Refer to Table 2-29 and Appendix 2. The reader is also referred to section 3.4 of the Heavenly Mountain Resort Master Plan Amendment 2005 Final EIR/ EIS, January 29, 2007.

**Table 2-24****Master Plan (1996) Facilities - Classification of CCC at Buildout**

Lift	Name	Approved Type	Length Feet	Vertical Feet	Hourly Capacity	Loading Efficiency	VTF/HR (000's)	CCC (1)
<b>California / In basin</b>								
A	TRAMWAY	Detach	3,370	1,530	2,000	50%	3,060	420
B	GUNBARREL EXPRESS	Detach	3,390	1,670	2,000	50%	3,340	410
C	WEST BOWL	Remove	0	0	0	0%	0	0
D	WORLD CUP	Double	1,100	320	900	90%	288	160
E	PATSY'S	Quad	1,160	220	1,800	75%	396	260
F	GROOVE	Quad	1,180	300	1,800	75%	540	260
G	WATERFALL	Quad	3,350	920	1,800	90%	1,656	900
G-1	POWDER BOWL	Quad	2,360	810	1,800	50%	1,458	280
H	CANYON	Detach	3,720	1,000	1,800	95%	1,800	1,050
H-1	RIDGE	Double	4,840	1,060	800	95%	848	440
I	SKY EXPRESS	Detach	4,390	1,420	2,400	85%	3,408	1,150
J	VON SCHMIDTS	Quad	3,720	560	1,800	50%	1,008	410
K	PERFECT RIDE	Quad	1,280	250	1,800	90%	450	450
L	CA SKI SCHOOL	J-Bar	800	110	500	90%	55	110
M	ENCHANTED FOREST 2	Quad	400	80	1,200	75%	96	120
M-1	MAGIC CARPET	Belt	80	7	120	90%	1	20
N	PIONEER 1 PLATTER	Quad	640	130	1,000	75%	130	180
O	PIONEER 2 WIRE	J-Bar	380	40	500	90%	20	70
GG	TAMARACK	Quad	2,630	600	2,000	90%	1,200	800
HH	VON SCHMIDTS 1	Quad	1,640	250	1,000	90%	250	380
HH-1	BIG EASY	Quad	2,010	200	1,000	90%	200	350
II	GONDOLA	Gondola	12,010	2,850	3,000	0%	8,550	0
			54,450	14,327	31,020		28,754	8,220
<b>Nevada / In basin</b>								
Q	BOULDER	Quad	2,870	440	1,800	90%	792	850
S	NORTH BOWL	Quad	5,290	1,290	1,400	75%	1,806	810
T	OLYMPIC	Quad	3,380	860	1,800	90%	1,548	1,040
X	BOULDER 2	Wire Rope	490	50	600	90%	30	60
			12,030	2,640	5,600		4,176	2,760
<b>Nevada / Out of basin</b>								
R	STAGECOACH	Quad	2,900	550	2,000	25%	1,100	210
U	GALAXY	Quad	5,440	1,020	1,800	90%	1,836	1,410
V	DIPPER	Detach	4,910	1,140	2,400	95%	2,736	1,560
W	COMET	Detach	3,580	880	2,400	95%	2,112	1,340
Y	STAGECOACH 2	Quad	4,230	1,200	1,800	90%	2,160	1,150
Z	WELLS FARGO	Quad	5,710	1,900	2,400	50%	4,560	720
DD	MOTT CANYON	Quad	2,570	870	1,000	95%	870	170
EE	ALDERMANS	Quad	5,810	1,420	2,200	90%	3,124	560
			35,150	8,980	16,000		18,498	7,120
<b>Grand Total</b>			<b>101,630</b>	<b>25,947</b>	<b>52,620</b>		<b>51,428</b>	<b>18,100</b>

## Notes:

(1) The Comfortable Carrying Capacity (CCC) is calculated using the following formula:

$$\text{CCC} = (\text{Vertical Rise} \times \text{Hourly Capacity} \times \text{Loading Efficiency} \times \text{Hours of Operation}) / \text{Vertical Demand}$$

Using Sky Express as an example:

Vertical Rise = 1,420 feet

Hourly Capacity = 2,400 PPH

Loading efficiency = 85%

Hours of Operation = 6 hours

Vertical demand = 15,115 feet/day (The amount of vertical that the average skier on the lift will ski in one day. This is a product of round trip interval which takes into account the amount of time skiing, waiting in lift line, and riding the lift)

Sky Express CCC = (1,420 X 2,400 X .85 X 6)/15,115

The Sky Express CCC is therefore 1,150

Table 2-25

## Existing Facilities - Classification of CCC - September 2004

Lift	Name	Existing '04 Type	Length Feet	Vertical Feet	Hourly Capacity	Loading Efficiency	VTF/HR (000's)	CCC saot (1)
<b>California / In basin</b>								
A	AERIAL TRAMWAY	AERIAL TRAM	3,660	1,570	650	95%	1,021	189
B	GUNBARREL EXPRESS	DETACHABLE QUAD	3,390	1,591	2,400	95%	3,818	709
C	WEST BOWL	REMOVED	0	0	0	0%	0	0
D	WORLD CUP	FIXED DOUBLE	1,100	320	900	85%	288	215
E	PATSY'S	FIXED TRIPLE	1,160	120	1,800	85%	216	462
F	GROOVE	FIXED TRIPLE	1,180	300	1,800	85%	540	465
G	WATERFALL	REMOVED	3,350	920	0	85%	0	0
G-1	POWDERBOWL EXPRESS	DETACHABLE SIX	2,360	810	3,400	95%	2,754	1,017
H	CANYON EXPRESS	DETACHABLE QUAD	3,800	1,000	2,600	95%	2,600	951
H-1	RIDGE	REMOVED	0	0	0	0%	0	0
I	SKY EXPRESS	DETACHABLE QUAD	4,390	1,420	2,400	95%	3,408	944
*J	VON SCHMIDT'S	APPROVED - UNBUILT	4,450	685	1,800	85%	1,233	638
K	FIRST RIDE	FIXED TRIPLE	970	180	1,800	85%	324	430
L	CA SKI SCHOOL	HANDLE TOW	180	30	500	70%	15	80
L-1	CA SKI SCHOOL II	HANDLE TOW	250	26	500	70%	13	84
M	ENCHANTED FOREST II	TOW	380	60	380	70%	23	69
M-1	MAGIC CARPET	BELT	80	10	120	70%	1	18
N	PIONEER I	HANDLE TOW	380	40	465	70%	19	85
O	PIONEER II	REMOVED	0	0	0	70%	0	0
GG	TAMARACK EXPRESS	DETACHABLE SIX	2,630	571	2,400	95%	1,370	748
HH (1/3)	VON SCHMIDT'S I	HANDLE TOW	520	45	250	70%	11	49
*HH (1/3)	VON SCHMIDT'S II	APPROVED - UNBUILT	450	70	250	70%	18	47
HH (1/3)	VON SCHMIDT'S CARPET	BELT	100	15	450	70%	7	68
HH-1	BIG EASY	FIXED QUAD	960	140	1,400	85%	196	338
II	STATELINE GONDOLA	GONDOLA	12,149	2,847	2,800	0%	0	0
			47,889	12,770	29,065		17,874	7,606
<b>Nevada / In basin</b>								
Q	BOULDER	FIXED TRIPLE	2,600	400	1,800	85%	720	564
S	NORTH BOWL	FIXED DOUBLE	5,290	1,290	1,700	85%	2,193	853
T	OLYMPIC	FIXED DOUBLE	3,380	860	990	85%	851	418
X	BOULDER I	BELT	200	35	750	70%	26	120
X-1	BOULDER II	BELT	60	15	400	70%	6	58
			11,530	2,600	5,640		3,797	2,013
<b>Nevada / Out of basin</b>								
R	STAGECOACH EXPRESS	DETACHABLE QUAD	5,710	1,490	2,400	95%	3,576	1,090
U	GALAXY	FIXED DOUBLE	5,440	1,020	1,200	85%	1,224	613
V	DIPPER EXPRESS	DETACHABLE QUAD	4,910	1,140	2,400	95%	2,736	917
W	COMET EXPRESS	DETACHABLE QUAD	3,580	880	2,400	95%	2,112	854
Y	STAGECOACH II	ELIMINATED	0	0	0	0%	0	0
Z	WELLS FARGO	NOT APPROVED	0	0	0	0%	0	0
DD	MOTT CANYON	FIXED DOUBLE	2,570	870	1,000	90%	870	333
EE	ALDERMANS	NOT APPROVED	0	0	0	0%	0	0
			22,210	5,400	9,400		10,518	3,807
<b>Grand Total</b>			<b>81,629</b>	<b>20,770</b>	<b>44,105</b>		<b>32,189</b>	<b>13,426</b>

**Notes:**

\* Approved to be built but not yet constructed (Lift J: 1,800 pph &amp; Lift HH: 250 pph)

(1) Skiers At One Time (SAOT) is calculated using the following formula:

$$\text{SAOT} = \text{skiers per minute} \times ((\text{lift ride time} + \text{maze wait time}) \times 100\%) + \text{skiing time} \times \text{returning skier utilization}$$

Table 2-26

## Master Plan (1996) Facilities - Density Analysis at Buildout

Lift	Name	Ability Levels	CCC (1)	Delineated Acreage	Tree Skiing	Actual Density	Industry Standard	Comparison (Actual / Accept.)
<b>California / In basin</b>								
A	AERIAL TRAMWAY	Expert	420	27.0	3.0	14	20	70%
B	GUNBARREL EXPRESS	Inter. - Expert	410	22.5	6.0	14	19	74%
D	WORLD CUP	Novice	160	4.7	1.0	28	35	80%
E	PATSY'S	Novice	260	4.3	0.0	60	50	120%
F	GROOVE	Novice - Adv. Inter.	260	7.4	1.5	29	50	58%
G	WATERFALL	Novice - Adv. Inter.	900	18.5	4.0	40	37	108%
G-1	POWDERBOWL EXPRESS	Novice - Adv. Inter.	280	7.1	3.0	28	34	82%
H	CANYON EXPRESS	Novice - Adv. Inter.	1,050	29.2	5.0	31	40	78%
H-1	RIDGE	Novice - Adv. Inter.	440	14.4	3.5	25	34	74%
I	SKY EXPRESS	Novice - Adv. Inter.	1,150	38.9	20.0	20	28	71%
J	VON SCHMIDTS	Novice - Low Inter.	410	5.5	5.0	39	50	78%
K	FIRST RIDE	Novice	450	8.7	1.0	46	50	92%
L	CA SKI SCHOOL	Beginner	110	3.7	0.0	30	60	50%
M	ENCHANTED FOREST II	Beginner	120	0.9	2.5	35	60	58%
M-1	MAGIC CARPET	Beginner	20	0.2	0.0	100	60	167%
N	PIONEER I	Beginner	180	2.4	4.0	28	60	47%
O	PIONEER II	Beginner	70	1.4	0.0	50	60	83%
GG	TAMARACK EXPRESS	Low Inter.	800	22.3	3.0	32	42	76%
HH	VON SCHMIDTS I	Beginner	380	17.9	2.0	19	35	54%
HH-1	BIG EASY	Beginner	350	17.8	1.0	19	35	54%
II	GONDOLA		0	0.0	0.0	0	0	0%
			8,220	254.8	65.5			
<b>Nevada / In basin</b>								
Q	BOULDER	Novice	850	17.2	0.0	49	50	99%
S	NORTH BOWL	Novice - Adv. Inter.	810	25.9	9.0	23	28	83%
T	OLYMPIC	Low Inter.	1,040	25.9	7.0	32	32	99%
X	BOULDER II	Beginner	60	2.8	0.0	21	60	36%
			2,760	71.8	16.0			
<b>Nevada / Out of basin</b>								
R	STAGECOACH EXPRESS	Novice - Low Inter.	210	7.0	2.0	23	31	75%
U	GALAXY	Novice - Low Inter.	1,410	31.1	10.0	34	35	98%
V	DIPPER EXPRESS	Low Inter. - Expert	1,560	58.9	6.0	24	24	100%
W	COMET EXPRESS	Low Inter. - Inter.	1,340	50.3	10.5	22	30	73%
Y	STAGECOACH II	Novice - Inter.	1,150	28.2	6.0	34	33	102%
Z	WELLS FARGO	Adv. Inter. - Expert	720	35.4	8.0	17	32	52%
DD	MOTT CANYON	Adv. Inter. - Expert	170	144.7	0.0	1	17	7%
EE	ALDERMANS	Adv. Inter.	560	70.4	8.0	7	25	29%
			7,120	426.0	50.5			
<b>Grand Total</b>			<b>18,100</b>	<b>752.6</b>	<b>132.0</b>			

## Notes: Definitions of Table 2-26 Headings

CCC=	Comfortable Carrying Capacity of the Lift (see Table 2-24 for discussion of CCC calculation).
Delineated Runs =	Acreage of ski trails serving the Lifts (the acreage of all ski trails is shown on Table 2-6).
Tree Skiing=	Acreage of tree skiing associated with delineated ski trails (includes treed areas frequently used by skiers).
Actual Density =	CCC divided by Delineated Runs plus Tree Skiing (skiers per acre of ski trail)
Industry Standard=	The number of skiers per acre of each Ability Level as determined by industry standards. Beginner trails are 60 skiers per acre while expert trails are 17 per acre. Combinations of different ability levels results in different Industry Standards for each lift system.
Comparison=	Actual Density divided by Acceptable Density (shows whether the trail system is in balance with the Lift CCC).

**Table 2-27****Existing Facilities - Density Analysis - September 2004**

Lift	Name	Lift Capacity skiers	Trail Capacity skiers	Comparison 1 trails/lifts	Total Pod Acreage acres	Average Density skiers per acre	Optimum Density skiers per acre	Comparison 2 average/optimum
<b>California / In basin</b>								
A	AERIAL TRAMWAY	189	201	106%	17.2	11.7	11.5	102%
B	GUNBARREL EXPRESS	709	698	98%	33.6	20.8	15.6	133%
D	WORLD CUP	215	150	70%	6.3	23.8	24.0	99%
E	PATSY'S	462	184	40%	6.1	30.2	30.0	101%
F	GROOVE	465	184	40%	6.1	30.2	30.0	101%
G-1	POWDER BOWL	1,017	660	65%	45.1	14.6	20.9	70%
H	CANYON	951	898	94%	41.8	21.5	21.0	102%
I	SKY EXPRESS	944	831	88%	94.7	8.8	18.8	47%
*J	VON SCHMIDT'S	638	0	transport	0.0	0.0	0.0	transport
K	PERFECT RIDE	430	328	76%	10.9	30.1	30.0	100%
L	CA SKI SCHOOL	80	78	98%	2.6	30.0	30.0	100%
L-1	CA SKI SCHOOL 2	84	32	38%	1.1	29.1	30.0	97%
M	ENCHANTED FOREST 2	69	65	94%	1.3	50.0	30.0	167%
M-1	MAGIC CARPET	18	26	144%	0.9	28.9	30.0	96%
N	PIONEER 1	85	76	89%	2.5	30.4	30.0	101%
GG	TAMARACK	748	661	88%	27.5	24.0	24.0	100%
HH (PORTION)	VON SCHMIDTS I	49	52	106%	2.2	23.6	24.0	98%
*HH (PORTION)	VON SCHMIDTS II	47	52	111%	2.2	23.6	24.0	98%
HH (PORTION)	VON SCHMIDTS CARPET	68	52	76%	2.2	23.6	24.0	98%
HH-1	BIG EASY	338	218	64%	9.1	24.0	24.0	100%
II	GONDOLA	0	0	transport	0.0	0.0	0.0	transport
		<b>7,606</b>			<b>313.4</b>			
<b>Nevada / In basin</b>								
Q	BOULDER	564	542	96%	18.1	29.9	30.0	100%
S	NORTH BOWL	602	596	99%	73.5	8.1	18.0	45%
T	OLYMPIC	418	606	145%	71.0	8.5	19.6	44%
X	BOULDER MC I	120	44	37%	1.5	29.3	30.0	98%
X-1	BOULDER MC II	58	44	76%	1.5	29.3	30.0	98%
		<b>1,762</b>			<b>165.6</b>			
<b>Nevada / Out of basin</b>								
R	STAGECOACH	1,090	822	75%	38.6	21.3	21.6	99%
U	GALAXY	613	595	97%	24.8	24.0	24.0	100%
V	DIPPER	917	953	104%	64.8	14.7	13.0	113%
W	COMET	854	783	92%	33.4	23.4	22.8	103%
DD	MOTT CANYON	333	192	58%	106.4	1.8	3.6	50%
		<b>3,807</b>			<b>268.0</b>			
<b>Grand Total</b>		<b>13,175</b>			<b>747.0</b>			

**Notes: Definitions of Table 2-27 Headings**

- Lift Capacity = The Capacity of the lift (see Table2-25 for a discussion of the Capacity).  
Trail Capacity = The Capacity of the trail (calculated by multiplying the trail acreage by the acceptable skier density for the trail).  
Comparison 1 = Trail Capacity divided by lift capacity (shows whether the trail capacity is in balance with the lift capacity)  
Total Pod Acreage = Total acreage of the lift pod (includes tree skiing acreage that is consistently skiable - calculated at a reduced density)  
Average Density = The trail capacity divided by the total pod acreage (shows the average number of skiers per acre on the trail).  
Optimum Density = The optimum number of skiers per acre for the trail (based on skill class of the trail) as determined by industry standards.  
Comparison 2 = The average density divided by the optimum density (shows whether the number of skiers per acre in that pod are in balance with industry standards).

## Table 2-28

### Master Plan (1996) Facilities - Estimated Project Phasing

#### **Phase One**

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Lift II (Gondola) Construction  
     Gondola Base Station  
     Gondola Mid Station  
     Gondola Top Station  
 Relocate Upper CA Maintenance to Von Schmidts  
 Lift J (Sky Meadow to Gondola Top Station) Construction  
 Lift HH - 1 (Von Schmidts Learn to Ski) Construction  
     Trails 81 (Partial)  
 Lift GG (California) Construction  
     Trails 29a and 82  
 Replace Lift R (Stagecoach 1) with Quad  
 Replace Lift R (Stagecoach 2) with Quad  
     Trail 44B  
 Replace Lift V (Dipper) with Detach Quad  
 Replace Lift A (Tram) with Detach Quad  
     Remove Lift C (West Bowl)

#### **Phase Two**

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Replace East Peak Lodge  
 Replace Sky Meadow Lodge  
 Replace Lift B (Gunbarrel) with Detach Quad  
 Top of Tram Restaurant Remodeling  
 Lift EE (Aldermans) Construction  
     Trails 72,73,75,76, and 77  
 Replace Lift H (Canyon) with Detach Quad  
 Replace Lift N (Pioneer) with Quad  
 Replace Lift S (North Bowl) with Quad

#### **Phase Three**

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Kid's Camp (California Base)  
     Lift K Replacement  
     Trail 30  
     Lift L Replacement  
     Trail 31  
     Lift M Replacement  
     Trail 32  
 Replace Lift T (Olympic) with Quad Construction  
 Relocate Lower California Snowmaking Building  
 Replace Lift U (Galaxy) with Quad  
 Replace California Base Lodge  
     Relocate Lower California Maintenance Off-Site  
 Remodel Boulder Base Lodge  
     Replace Lift X  
     Trail 68  
 Lift Z (Wells Fargo) Construction  
     Trails 86 and 80  
     Trails 87 and 91 Clean-up  
 Lift HH (Von Schmidt's Learn to Ski 2) When Necessary

**Table 2-29**

## Land Coverage Summary (1997 - 2004)

<i>Item</i>	<i>Land Coverage Totals (Sq. Feet)</i>
Existing Land Coverage at Time of Master Plan Adoption (1996)	2,013,854
Remaining Allowable Potential Land Coverage to Add	40,000
Maximum Allowable Land Coverage Available in MP (96)	2,053,854
Land Coverage Approved Since Master Plan Adoption	106,311
Land Coverage Banked*	427,087
Remaining Land Coverage Balance	434,580

*Source: Heavenly Ski Resort TRPA Project Files, 1997 - 2004*

\* - Boulder Parking Lot BMP Installation project includes 4,464 sq. ft., to be recognized following project completion in 2005 (See TRPA File 20051422), and an additional 422,623 sq. ft. of banked land coverage.