

Resort «Topoloviy Ridge» will be perfect for a family vacation!



Ski complex «Topoloviy Ridge»

Topoloviy Ridge is located in a well-known health spa resort Paratunka. The recreation center resort is famous for numerous thermal mineral springs and curative mud. In addition, Zaykin Cape and Babiy Stone, included in Topoloviy Ridge, are named «natural monuments of regional importance».

The resort is located in the northwestern part of the ridge.

The main resort advantages:

- the presence of slopes for skiers of all classes and their proximity to the hotel;
- the possibility of teaching skiing and snowboarding (under the guidance of experienced and qualified trainers);
- the presence of various eating infrastructure and outdoor and indoor activities;
- the infrastructure for children's games (possibility to leave a child under the supervision of experienced animators and trainers).

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5 lifts and base area of the territory is proposed in accordance with the Master Plan. Access to the resort is provided by the road from the northern extremity of Topoloviy Ridge (construction of about 12 km of new roads will be needed).



TOPOLOVIY RIDGE
S K I C O M P L E X

THE MAIN RESORT OBJECTS:

- the service center;
- processing building;
- parking for cars, bus stop;
- 2 hotel complexes;
- heliport;
- 5 lifts;
- lighting and snowmaking system for pistes;
- the lake for snowmaking system;
- objects of engineering infrastructure.

УСЛОВНЫЕ ОБОЗНАЧЕНИЯ /

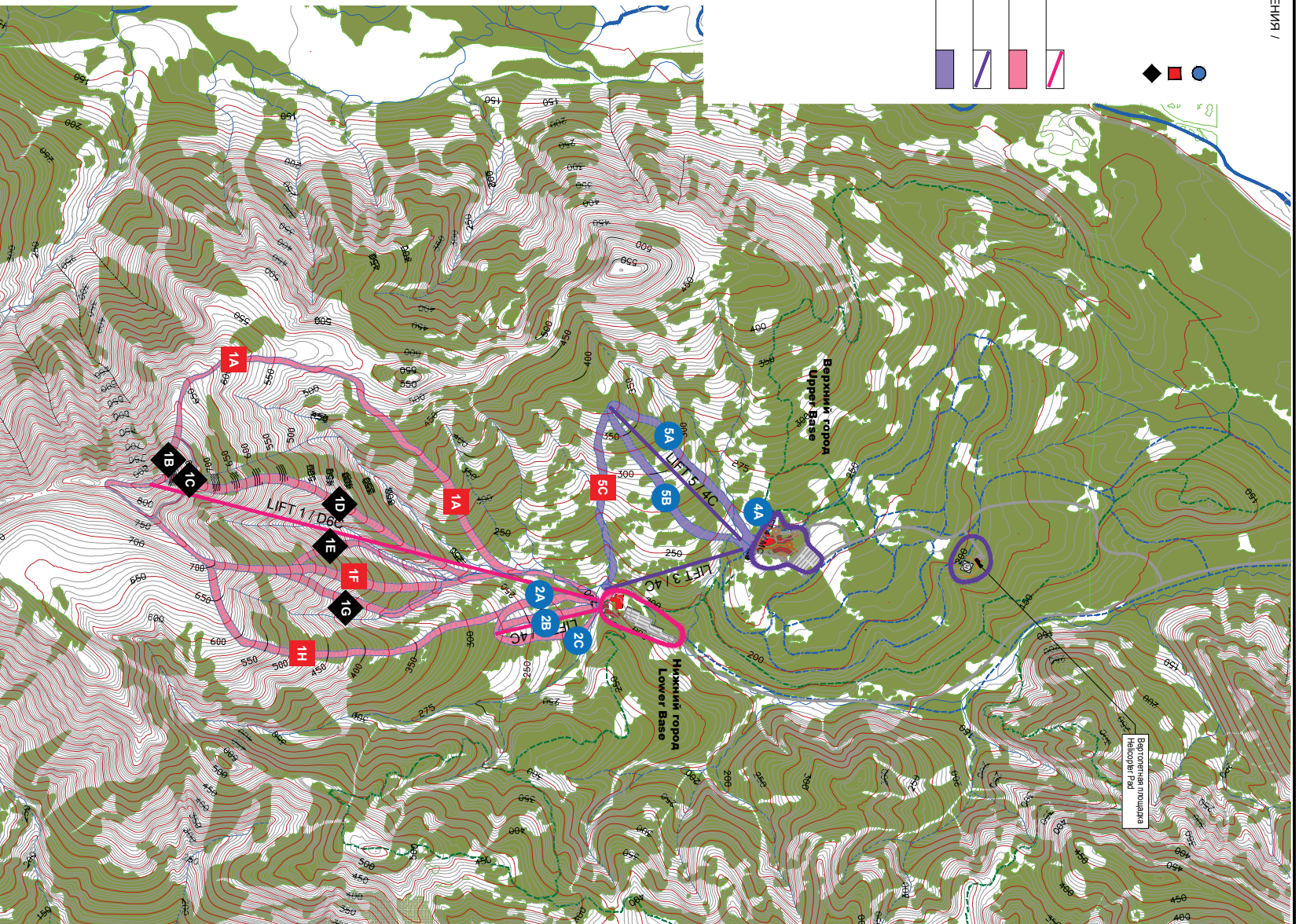
LEGEND

- Уровень трудости трасс / Ski Trail Difficulty Level
- Простые / Easier
- Более трудные / More Difficult
- Самые трудные / Most Difficult
- Лыжные этапы 1 / Phase 1 Lifts
- Лыжные этапы 2 / Phase 2 Lifts
- Трассы этапа 1 / Phase 1 Traces
- Трассы этапа 2 / Phase 2 Traces



ТОПОЛОВИЙ РИДЖ

SKI COMPLEX



Вместимость системы подъемников / Lift System SCC 6 000 лыжников / Skiers
Обозначения подъемников / Lift Designation Legend

- MC - конвейерный подъемник / Magic Carpet
- 4C - подъемник с четырехместными неотделенными креслами / Fixed Grip 4 Passenger Chairlift
- D4C - подъемник с четырехместными отделенными креслами / Detachable 4 Passenger Chairlift
- D6C - подъемник с шестиместными отделенными креслами / Detachable 6 Passenger Chairlift

КАМУЧАТКА



Горнолыжная компания «Чайлит»
Сотрудники: 5 человек
Февраль, 2011 г.
Дата: 02/2011



ЭТАПЫ СТРОИТЕЛЬСТВА - ХРЕБЕТ ТОПОЛОВИЙ / ТОПОЛОВУ РИДЖЕ - DEVELOPMENT PHASING PLAN МР-3-2

PISTES SPECIFICATION

LIFT DESIGNATION LEGEND	No PISTE	SKIERS LEVEL	TOP HEIGHT, M	BOTTOM HEIGHT, M	ELEVATION, M	HORIZON. LENGTH, M	LENGTH ON SLOPE, M	AVERAGE STEEPNESS, %	MAX STEEPNESS, %	AVERAGE WIDTH, M	HORIZON. SQUARE, HE	PISTES SQUARE, HE	SKIERS STRENGTH, PEOPLE/HE	CAPACITY, PEOPLE	
Lift 1		DETACHABLE 6 PASSENGER CHAIRLIFT													
partly	1A	4	845	200	645	4 000	4 052	16%	43%	25	10,16	6,86	60	410	
	1B	6	845	725	120	285	309	42%	56%	31	0,88	0,95	23	20	
	1C	7	820	745	75	130	150	58%	73%	42	0,54	0,62	30	20	
	1D	6	735	250	485	1 485	1 562	33%	59%	41	6,12	6,44	23	140	
	1E	7	530	260	270	815	859	33%	67%	24	1,95	2,05	30	60	
	1F	5	770	230	540	1 860	1 937	29%	45%	38	7,05	7,34	45	330	
	1G	6	550	270	280	825	871	34%	60%	41	3,36	3,55	23	80	
	1H	5	695	275	420	1 755	1 805	24%	47%	36	6,34	6,52	45	290	
partly	2A	5	280	200	80	610	615	13%	20%	34	2,05	1,04	45	50	
Total lift 1	8	(not include 2A)					11 545		(not include 2A)			34,33		1 400	
Lift 2		FIXED GRIP 4 PASSENGER CHAIRLIFT													
partly	2A	2	280	200	80	610	615	13%	20%	34	2,05	1,04	75	80	
	2B	1	275	200	75	470	476	16%	17%	34	1,61	1,63	75	120	
	2C	1	280	200	80	575	581	14%	16%	32	1,86	1,88	75	140	
Total lift 2	3						1 672					4,55		340	
Lift 3		Трасс нет													
Lift 4		FIXED GRIP 4 PASSENGER CHAIRLIFT													
	4A	1	256	247	9	110	110	8%	8%	66	0,73	0,73	75	50	
Total lift 4	1						110					0,73		50	
Lift 5		FIXED GRIP 4 PASSENGER CHAIRLIFT													
partly	5A	2	380	240	140	1 030	1 039	14%	20%	41	4,27	2,16	75	160	
	5B	2	380	240	140	1 043	1 052	13%	26%	41	4,28	4,32	75	320	
partly	5C	3	375	200	175	915	932	19%	31%	35	3,22	1,64	60	100	
Total lift 5	3						3 023					8,12		580	
ALL LIFTS	15						16,35 KM					47,73		2370	

LIFT SPECIFICATION

PHASES	1		2			TOTAL
	1	2	3	4	5	
LIFT DESIGNATION LEGEND	1	2	3	4	5	
Lift type	D6C	4C	4C	MC	4C	
Top elevation, m	849	280	240	256	380	
Bottom elevation, m	198	198	200	247	240	
Total elevation, m	651	82	40	9	140	922
Horizontal Distance, m	2 340	525	725	100	945	
Slope Distance, m	2 429	531	726	100	955	4741
Average Slope, %	28%	16%	6%	9%	15%	15%
Rated capacity, people/hour	2 600	1 200	2 000	1 200	1 800	8800
(V.T.M.) thousand m/hour	1 693	98	80	11	252	2134
Speed, m/s	5,0	2,2	2,2	0,8	2,2	
Time trip, min	8,10	4,03	5,50	2,23	7,24	
Operating, hour/day	7,0	7,0	7,0	7,0	7,0	7,0
(V.T.M.) demand/day	5 039	1 218	940	940	2 242	
Loading eff., %	80%	85%	85%	95%	85%	
Access Reduction, %	0%	0%	100%	0%	0%	
Lift system SCC, people	2 060	410	0	40	710	3220



PISTES TYPES



GIANT-SLALOM

Giant-slalom may be located on the piste 1F (red). Start and finish are located at elevations of 700 and 270 meters respectively, forming a vertical elevation of 430 meters, that corresponds to the FIS requirement for the Olympic Games, the Cup and the World Championship competitions. The piste has an average slope of 37% and the steepest length of 45%. A certain amount of digging will be required to create the finish area to bring this piste to the FIS requirements.



SKI / SNOWBOARD CROSS

Piste 1H (red) has the necessary characteristics for locating on it ski / snowboard cross. The slope has a vertical elevation of 250 meters (between elevations of 600 and 350 meters), that meets the requirements for both ski and snowboard cross. This slope has a length of 895 meters in a straight line with an average fall of 30%. During the construction of the direct piste its approximate length will be about 1074 meters, that exceeds by 20% the length of the slope in a straight line.



Earthworks for the formation of the finish area will be required to meet the FIS requirements fully.

SNOWPARKS

Three places for snowparks with various categories of difficulties are identified. Snowpark for beginners will be located on the piste 2C (blue), medium difficulty snowpark will be located on the piste 5B (blue), and piste 5C (red) well suits for high complexity snowpark.



PISTES TYPES



OTHER TYPES OF WINTER SPORTS AND RECREATION

PISTES FOR FLAT LAND SKIING AND SNOWSHOEING

At the site «Ridge Topoloviy» there is a great opportunity to create an extensive network of sports and recreational pistes for flat land skis and this network may be created and improved with development of the resort along with associated sporting and recreational infrastructure.

Snowshoeing paths are located on the summer tourist paths, creating the opportunity for walks in the forests and on mountains in the northern part of the resort. There is also a good opportunity to reach the top by snowshoes at the height of 530 meters in the southern part of the resort from a parking and then walk along the ridge to the north. Great views of the ridge Topoloviy and surrounding mountains are opened from snowshoeing paths.



TUBING

The slope for tubing with 250 x 80 size is planned. The natural terrain in the area of tubing, a long flat stopping area at the base of the slope will require a small amount of earthworks for construction. Magic Carpet lift in the north side of the slope will be used for transporting skiers up to the start.

RIDING A HORSE DRAWN VEHICLE

At the base site area on Topoloviy ridge there is a possibility to construct facilities for managing horses, which can be widely used both in winter and in summer time. Steep wide slopes can be used in summer to travel on horses, and related equestrian centre may serve as an additional factor in attracting tourists to the resort during the summer. In winter, guests can be offered to travel on horse drawn vehicles. Such visits may be accompanied by dinner at a small local restaurant or outdoors.



OUTDOOR SWIMMING POOLS AND HOT SPRINGS

Valley to the east of Topoloviy ridge is well-known for its hot mineral springs. In this part, hotels and small spas, that attract residents of Kamchatskiy krai, as well as visitors from Russia and foreign countries, are built.

Searching for geothermal springs on the territory of planned mountain resort is needed. Ideally, outdoor pools and jacuzzies, filling by hot water from natural sources will be an excellent complement of resort services.



PLAN OF RESORT SUMMER USING

Flat slopes to the north of the base area of the planned resort on the site Topoloviy ridge have excellent opportunities for different kinds of summer recreational activities. There are four main zones: two zones for mountain biking (downhill and cross), the zone for quad bikes and sport-utility vehicle and horse riding zone. Also, two small areas for summer riding from the mountains and zip-track are identified.

Lift 3 continues to work in summer, bringing cyclists, tourists and sightseers to height point of 575 meters.

Also, the climbing wall, trampoline with shock absorbers, etc. will be built on the resort. It is possible to set the stage for musical performances and the audience can be located on the grassy

slopes or on the square. Restaurants in the resort center of the buildings should have open terraces, where visitors could watch concerts and performances taking place on the square. A flat slope near the Magic Carpet lift and beginners zone can be used for summer toboggan. Forms of entertainment, such as tennis, basketball, mini-golf (2 fields for 9 holes each) are also provided.

Zip-track zone is placed in a narrow valley between two ridges, allowing you to move from one side to another.

A large area for cross-country mountain biking is planned.

Single and double tracks for motocross mountain biking with descents and ascents will be located in this zone.

For reasons of safety, zones for mountain biking, horseback riding and motorized transport are separated.

Flat slopes, surrounding the valley well suit for equestrian paths, and there is a good opportunity to equip an equestrian center in the northern part of the zone near the cross of access roads. Tourist paths can be located in this area, because horses and tourists tours do not interfere with each other.

Left Fast River, flowing on the west side of Topoloviy ridge, offers unique opportunities for sport and recreational fishing.

FINANCIAL-ECONOMIC ACTIVITY OF THE PROJECT SKI RESORT «TOPOLOVIY RIDGE»

Total cost of the project, billion rubles	6,4
Net present value (NPV), million rubles	1347
Internal rate of return (IRR)	23,01 %
Discounted payback period, year	12
Borrowed current assets share in initial investments	10 %
Borrowed current assets share in total investments (including the replacement of basic means)	9,4 %
WACC	17,13 %
Number of employees	187

