
HBH Projekt spol. s r.o.

Kabátníkova 5, 602 00 Brno

PROGRAMOVÝ SYSTÉM R O A D P A C - program RP12

SMĚROVÝ VÝPOČET DO KRUŽNIC

Verze: 2017

Datum zadání: 29.07.2020

Datum výpočtu: 29. 7.2020 5:57: 3

datum a čas kompilace: 02.03.2017 23:07

Projekt:NECHYBA

Trasa: 104.V12 104

Systém úhlů: grady

Údaje o hlavních bodech směrového vedení trasy										
CB IND	STA	YH	XH	sigmah	R	YS	XS			
CV TP	DIF	YP	XP	sigp	A	YT	XT	T1	T2 (VZP)	alfat
1 OT	29.721029	707719.010	1079383.100	280.70968	.000	.000	.000			
0 tečna	16.000	.000	.000	.00000	.000	.000	.000	.000	.000	.00000
2 TK	29.737029	707703.739	1079378.326	280.70967	-200.000	707763.419	1079187.437			
1 kružnice	53.962	.000	.000	.00000	.000	707677.830	1079370.225	27.146	-1.834	-17.17680
3 KT	29.790991	707655.017	1079355.512	263.53288	.000	.000	.000			
0 tečna	13.743	.000	.000	.00000	.000	.000	.000	.000	.000	.00000
4 TK	29.804734	707643.468	1079348.063	263.53288	-300.000	707806.070	1079095.951			
2 kružnice	354.205	.000	.000	.00000	.000	707474.540	1079239.111	201.015	-61.119	-75.16466
5 KP	30.158939	707511.064	1079041.442	188.36822	-300.000	707806.070	1079095.951			
2 klotoida	50.000	707522.861	1078992.870	183.06305	-122.474	707514.094	1079025.042	16.678	33.345	-5.30517
6 PT	30.208939	707522.861	1078992.870	183.06305	.000	.000	.000			
0 tečna	101.594	.000	.000	.00000	.000	.000	.000	.000	.000	.00000
7 TK	30.310534	707549.572	1078894.850	183.06306	600.000	706970.681	1078737.099			
3 kružnice	56.172	.000	.000	.00000	.000	707556.962	1078867.732	28.107	.658	5.96007
8 KK	30.366706	707561.784	1078840.042	189.02312	252.000	707313.521	1078796.806			

3 kružnice	121.638	.000	.000	.00000	.000	707572.426	1078778.934	62.028	7.522	30.72898
9 KK	30.488344	707553.488	1078719.867	219.75210	215.000	707348.754	1078785.509			
3 kružnice	66.328	.000	.000	.00000	.000	707543.282	1078688.034	33.430	2.583	19.63991
10 KK	30.554672	707523.892	1078660.802	239.39202	936.000	706761.432	1079203.713			
3 kružnice	41.868	.000	.000	.00000	.000	707511.748	1078643.749	20.936	.234	2.84767
11 KP	30.596540	707498.852	1078627.251	242.23968	936.000	706761.432	1079203.713			
3 klotoida	21.389	707485.551	1078610.501	242.96708	-141.494	707494.461	1078621.634	7.130	14.260	.72739
12 PT	30.617930	707485.551	1078610.501	242.96708	.000	.000	.000			
0 tečna	107.661	.000	.000	.00000	.000	.000	.000	.000	.000	.00000
13 TK	30.725591	707418.280	1078526.445	242.96708	-900.000	708120.958	1077964.090			
4 kružnice	60.340	.000	.000	.00000	.000	707399.421	1078502.881	30.181	-.506	-4.26818
14 KK	30.785930	707382.184	1078478.106	238.69890	-200.000	707546.356	1078363.880			
4 kružnice	64.223	.000	.000	.00000	.000	707363.685	1078451.518	32.390	-2.606	-20.44290
15 KK	30.850154	707354.523	1078420.450	218.25601	-567.000	707898.369	1078260.074			
4 kružnice	57.351	.000	.000	.00000	.000	707346.405	1078392.922	28.700	-.726	-6.43924
16 KT	30.907504	707341.109	1078364.716	211.81677	.000	.000	.000			
0 tečna	443.229	.000	.000	.00000	.000	.000	.000	.000	.000	.00000
17 TP	31.350734	707259.309	1077929.100	211.81677	.000	.000	.000			
5 klotoida	40.000	707259.309	1077929.100	211.81677	111.355	707254.387	1077902.886	26.672	13.339	4.10722
18 PK	31.390734	707251.085	1077889.962	215.92399	310.000	706950.732	1077966.697			
5 kružnice	328.114	.000	.000	.00000	.000	707206.205	1077714.297	181.308	49.127	67.38185
19 KK	31.718848	707031.096	1077667.295	283.30584	210.000	706976.656	1077870.116			
5 kružnice	51.659	.000	.000	.00000	.000	707006.022	1077660.565	25.961	1.599	15.66068
20 KK	31.770507	706980.065	1077660.144	298.96652	850.000	706966.267	1078510.032			
5 kružnice	99.720	.000	.000	.00000	.000	706930.155	1077659.333	49.917	1.464	7.46863
21 KT	31.870227	706880.492	1077664.370	306.43515	.000	.000	.000			
0 tečna	99.025	.000	.000	.00000	.000	.000	.000	.000	.000	.00000
22 TK	31.969252	706781.972	1077674.363	306.43515	-470.000	706734.544	1077206.762			
6 kružnice	91.896	.000	.000	.00000	.000	706736.112	1077679.015	46.095	-2.255	-12.44747

23 KK	32.061148	706690.223	1077674.668	293.98768	-280.000	706716.627	1077395.916			
6 kružnice	159.589	.000	.000	.00000	.000	706608.561	1077666.933	82.027	-11.768	-36.28486
24 KP	32.220738	706543.982	1077616.356	257.70282	-280.000	706716.627	1077395.916			
6 klotoida	57.086	706501.553	1077578.204	251.21319	-126.428	706528.986	1077604.611	19.047	38.078	-6.48963
25 PT	32.277823	706501.553	1077578.204	251.21319	.000	.000	.000			
0 tečna	21.431	.000	.000	.00000	.000	.000	.000	.000	.000	.00000
26 TK	32.299254	706486.112	1077563.342	251.21319	-10000.000	713421.153	1070358.814			
7 kružnice	96.443	.000	.000	.00000	.000	706451.370	1077529.899	48.223	-.116	-.61398
27 KT	32.395698	706416.953	1077496.123	250.59921	.000	.000	.000			
0 tečna	124.621	.000	.000	.00000	.000	.000	.000	.000	.000	.00000
28 TK	32.520319	706328.007	1077408.836	250.59921	15000.000	695821.707	1088114.800			
8 kružnice	46.853	.000	.000	.00000	.000	706311.288	1077392.429	23.424	.018	.19884
29 KT	32.567172	706294.516	1077376.073	250.79805	.000	.000	.000			
0 tečna	108.915	.000	.000	.00000	.000	.000	.000	.000	.000	.00000
30 TK	32.676087	706216.542	1077300.030	250.79805	1210.000	705371.735	1078166.287			
9 kružnice	23.530	.000	.000	.00000	.000	706208.114	1077291.811	11.772	.057	1.23799
31 KO	32.699617	706199.538	1077283.766	252.03604	1210.000	.000	.000			

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Kabátníkova 5, 602 00 Brno

PROGRAMOVÝ SYSTÉM R O A D P A C - program RP31

NIVELETA ZADANÁ TEČNAMI

Verze: 2017

Datum zadání: 29.07.2020

Datum výpočtu: 18. 9.2020 12:45:54

datum a čas kompilace: chyba v READ

Projekt:PROJEKT

Trasa: 104.V31

P R O T O K O L O N I V E L E T Ě

číslo vrch.	staničení vrcholu	výška vrcholu	typ obl.	poloměr m	tečna m	vzepětí m	spád %	délka m	mezipřímá m
1	29.760000	429.225	0	.000	.000	.000	5.833	260.000	260.000
2	30.020000	444.390	0	.000	.000	.000	5.712	80.000	80.000
3	30.100000	448.960	0	.000	.000	.000	6.125	86.154	66.654
4	30.186154	454.237	2	1250.000	19.500	.152	3.005	53.846	34.346
5	30.240000	455.855	0	.000	.000	.000	2.725	20.000	20.000
6	30.260000	456.400	0	.000	.000	.000	2.143	16.796	16.796
7	30.276796	456.760	0	.000	.000	.000	1.248	20.106	5.707
8	30.296902	457.011	2	2000.000	14.399	.052	-.192	21.403	1.875
9	30.318305	456.970	2	2000.000	5.129	.007	-.704	53.233	37.258
10	30.371538	456.595	2	2000.000	10.846	.029	-1.789	25.935	3.854
11	30.397473	456.131	2	3500.000	11.234	.018	-2.431	66.926	26.624
12	30.464399	454.504	2	5500.000	29.068	.077	-3.488	74.655	10.798
13	30.539054	451.900	2	50000.000	34.789	.012			

14	30.752800	444.147	2	5000.000	22.667	.051	-3.627	213.746	156.289
15	30.858206	439.368	2	2800.000	30.948	.171	-4.534	105.406	51.790
16	30.964189	432.220	2	10000.000	20.555	.021	-6.744	105.983	54.480
17	31.064195	425.064	2	2000.000	75.494	1.425	-7.156	100.006	3.957
18	31.237855	425.748	2	25000.000	35.102	.025	.394	173.660	63.064
19	31.337803	425.861	2	15000.000	30.489	.031	.113	99.948	34.357
20	31.559519	427.013	2	4400.000	87.365	.867	.520	221.716	103.862
21	31.699074	433.280	2	2500.000	15.190	.046	4.491	139.555	37.000
22	31.890507	444.203	2	5000.000	16.027	.026	5.706	191.433	160.216
23	32.029455	453.022	2	15000.000	43.842	.064	6.347	138.948	79.079
24	32.094636	456.778	2	15000.000	16.026	.009	5.762	65.181	5.313
25	32.183306	462.077	2	10000.000	14.792	.011	5.976	88.670	57.852
26	32.228316	464.900	2	10000.000	16.968	.014	6.272	45.010	13.249
27	32.358445	472.620	2	8000.000	17.236	.019	5.933	130.129	95.925
28	32.405976	475.235	2	2500.000	27.451	.151	5.502	47.531	2.844
29	32.462789	477.113	2	5000.000	16.205	.026	3.306	56.813	13.157
30	32.539782	479.159	2	4500.000	41.998	.196	2.657	76.993	18.790
31	32.626025	479.841	2	4000.000	24.023	.072	.791	86.243	20.221
32	32.699617	479.539	0	.000	.000	.000	-.410	73.592	49.569

	odstranění pokladních vrstev vozovek		výkop ostatní		vrstva ŠD		vrstva RS PMH	
km	plocha	kubatura	plocha	kubatura	plocha	kubatura	plocha	kubatura
	m2	m3	m2	m3	m2	m3	m2	m3
29.760000	0		0.64		0		0	
29.780000	0	0	0.90	15.4	0	0	0	0
29.800 00	0	0	0	9	0	0	0	0
29.820000	0	0	0	0	0	0	0	0
29.840000	0	0	0	0	0	0	0	0
29.860000	0	0	0	0	0	0	0	0
29.880000	0	0	0	0	0	0	0	0
29.900 00	0	0	0	0	0	0	0	0
29.920000	0	0	0.17	1.7	0	0	0	0
29.940000	0	0	0	1.7	0	0	0	0
29.960000	0	0	0	0	0	0	0	0
29.980000	0	0	0.07	0.7	0	0	0	0
30.000000	0	0	0.19	2.6	0	0	0	0
30.020000	0	0	0.08	2.7	0	0	0	0
30.040000	0	0	0	0.8	0	0	0	0
30.060000	0	0	0	0	0	0	0	0
30.080000	0	0	0	0	0	0	0	0
30.100 00	0	0	0	0	0	0	0	0
30.120000	0	0	0.63	6.3	0	0	0	0
30.140000	0	0	0.55	11.8	0	0	0	0
30.160000	0	0	0.61	11.6	0	0	0	0
30.180000	0	0	0	6.1	0	0	0	0
30.200 00	0	0	0	0	0	0	0	0
30.220000	0.66	6.6	0.11	1.1	0.63	6.3	0.32	3.2
30.240000	0	6.6	0.82	9.3	0	6.3	0	3.2
30.260000	0	0	0.81	16.3	0	0	0	0
30.280000	0	0	1.01	18.2	0	0	0	0
30.300 00	0	0	1.41	24.2	0	0	0	0

30.320000	0	0	1.22	26.3	0	0	0	0
30.340000	0	0	0.51	17.3	0	0	0	0
30.360000	0	0	0	5.1	0	0	0	0
30.380000	0	0	0	0	0	0	0	0
30.400 00	0	0	0	0	0	0	0	0
30.420000	0	0	0.16	1.6	0	0	0	0
30.440000	0	0	0.09	2.5	0	0	0	0
30.460000	0.53	5.3	0.78	8.7	0.77	7.7	0.33	3.3
30.480000	0.53	10.6	0.70	14.8	0.76	15.3	0.35	6.8
30.500 00	0.53	10.6	0.47	11.7	0.64	14	0.36	7.1
30.520000	0.56	10.9	1.48	19.5	0.62	12.6	0.31	6.7
30.540000	0.55	11.1	1.34	28.2	0.61	12.3	0.31	6.2
30.560000	0.49	10.4	1.45	27.9	0.48	10.9	0.22	5.3
30.580000	1.36	18.5	2.56	40.1	1.16	16.4	0.53	7.5
30.600 00	0.76	21.2	1.64	42	0.59	17.5	0.29	8.2
30.620000	0	7.6	1.29	29.3	0	5.9	0	2.9
30.640000	0	0	0.58	18.7	0	0	0	0
30.660000	0	0	0.60	11.8	0	0	0	0
30.680000	0.55	5.5	0.84	14.4	0.62	6.2	0.28	2.8
30.700 00	0.62	11.7	0.71	15.5	0.66	12.8	0.28	5.6
30.720000	0.54	11.6	1.56	22.7	0.60	12.6	0.26	5.4
30.740000	0.55	10.9	0.86	24.2	0.52	11.2	0.37	6.3
30.760000	0	5.5	0.63	14.9	0	5.2	0	3.7
30.780000	0	0	0.48	11.1	0	0	0	0
30.800 00	0	0	0.34	8.2	0	0	0	0
30.820000	0	0	0.43	7.7	0	0	0	0
30.840000	0	0	1.14	15.7	0	0	0	0
30.860000	0	0	0.49	16.3	0	0	0	0
30.880000	0	0	0.77	12.6	0	0	0	0
30.900 00	0	0	0.63	14	0	0	0	0
30.920000	0	0	0.40	10.3	0	0	0	0
30.940000	0.68	6.8	0.75	11.5	0.65	6.5	0.30	3
30.960000	0.58	12.6	0.57	13.2	0.64	12.9	0.29	5.9

30.980000	0	5.8	0.36	9.3	0	6.4	0	2.9
31.000 00	0	0	0.00	3.6	0	0	0	0
31.020000	0	0	0.36	3.6	0	0	0	0
31.040000	0	0	0.22	5.8	0	0	0	0
31.060000	0	0	0.41	6.3	0	0	0	0
31.080000	0	0	0.31	7.2	0	0	0	0
31.100 00	0	0	0.66	9.7	0	0	0	0
31.120000	0	0	0.12	7.8	0	0	0	0
31.140000	0.54	5.4	0.02	1.4	0.75	7.5	0.34	3.4
31.160000	0	5.4	0.17	1.9	0	7.5	0	3.4
31.180000	0	0	0	1.7	0	0	0	0
31.200 00	0	0	0.19	1.9	0	0	0	0
31.220000	0	0	0	1.9	0	0	0	0
31.240000	0	0	0.02	0.2	0	0	0	0
31.260000	0.55	5.5	0.39	4.1	0.63	6.3	0.31	3.1
31.280000	0	5.5	0.58	9.7	0	6.3	0	3.1
31.300 00	0	0	0.51	10.9	0	0	0	0
31.320000	0	0	0.15	6.6	0	0	0	0
31.340000	0	0	0.25	4	0	0	0	0
31.360000	0	0	0.83	10.8	0	0	0	0
31.380000	0	0	0	8.3	0	0	0	0

211.6

774

226.6

109

Sanace podle příčných řezů SO 103

Vlevo				Vpravo			
Úsek	od [km]	do [km]	Délka [m]	Poznámka	od [km]	do [km]	Délka [m]
103	30.005	30.015	10		30.450	30.590	140
	30.215	30.225	10		31.135	31.145	10
	30.580	30.600	20		31.265	31.275	10
	30.680	30.750	70				
	30.930	30.960	30				

Propustek km 30.460
Vtokový objekt



Propustek km 31.129
Vtokový objekt



Propustek km 31.129
Výtokový objekt

