


ZP	ZO	KO	KP	V100 [km/h]	V130 [km/h]	R [m]	D [mm]	Lk1 [m]	Lk2 [m]	alfa [°]	Li [m]	Lo [m]	I100 [mm]	I130 [mm]	n1	n2
0,205347	0,315347	0,767952	0,877952	80	85	380	100	110,000	110,000	84,84703	672,605	452,605	99	125	13,75*V	13,75*V
1,173255	1,258255	1,763972	1,848972	80	85	373	110	85,000	85,000	90,75963	675,717	505,717	93	119	9,659*V	9,659*V
1,922844	2,037844	2,495953	2,610953	85	90	365	135	115,000	115,000	89,98450	688,109	458,109	99	127	10,022*V	10,022*V
2,695202	2,810202	3,179971	3,294971	85	90	365	135	115,000	115,000	76,11343	599,769	369,769	99	127	10,022*V	10,022*V
3,338250	3,418250	3,610679	3,662679	85	90	460	86	80,000	52,000	32,19263	324,429	192,429	100	122	10,944*V	7,114*V
3,682828	3,771828	3,877247	3,966247	85	90	345	148	89,000	89,000	32,29367	283,419	105,419	100	130	7,075*V	7,075*V
4,032596	4,152596	4,338835	4,458835	100	100	555	120	120,000	120,000	31,61779	426,239	186,239	93	93	10*V	10*V
4,872474	4,992474	5,378763	5,498763	100	100	555	120	120,000	120,000	52,27246	626,289	386,289	93	93	10*V	10*V
5,662992	5,792992	5,877551	6,007551	85	90	350	150	130,000	130,000	35,13845	344,559	84,559	94	124	10,196*V	10,196*V
6,456860	6,586860	6,661149	6,791149	90	95	400	140	130,000	130,000	29,26330	334,289	74,289	99	127	10,317*V	10,317*V
6,826138	6,901138	6,978627	7,053627	90	95	600	80	75,000	75,000	14,56219	227,489	77,489	80	98	10,417*V	10,417*V
7,186086	7,271086	7,647915	7,707915	80	85	370	105	85,000	60,000	69,59640	521,829	376,829	100	126	10,119*V	7,143*V
8,117014	8,177014	8,558973	8,643973	80	85	370	105	60,000	85,000	70,39127	526,959	381,959	100	126	7,143*V	10,119*V
8,736042	8,856042	8,898961	9,018961	100	100	550	120	120,000	120,000	16,97287	282,919	42,919	95	95	10*V	10*V
9,051340	9,151340	9,179559	9,279559	100	100	550	120	100,000	100,000	13,35693	228,219	28,219	95	95	8,333*V	8,333*V
9,563650	9,613650	9,655939	9,705939	100	100	1000	60	50,000	50,000	5,28714	142,289	42,289	58	58	8,333*V	8,333*V
9,737648	9,817648	10,637347	10,717347	85	90	377	130	80,000	80,000	136,76837	979,699	819,699	97	124	7,24*V	7,24*V
10,760466	10,840466	11,381035	11,461035	85	90	372	130	80,000	80,000	95,60289	700,569	540,569	100	127	7,24*V	7,24*V
11,942224	11,992224	12,064803	12,114803	85	90	1000	55	50,000	50,000	7,02369	172,579	72,579	31	41	10,695*V	10,695*V
12,224912	12,349912	12,581121	12,706121	85	90	355	145	125,000	125,000	57,50070	481,209	231,209	96	125	10,142*V	10,142*V
12,788490	12,898490	13,219879	13,294679	70	75	275	135	110,000	74,800	86,62017	506,189	321,389	76	107	11,64*V	7,915*V
13,294679	13,369479	13,545018	13,623468	70	75	275	135	74,800	78,450	52,18025	328,789	175,539	76	107	7,915*V	8,302*V
13,657457	13,772457	13,823396	13,938396	70	75	265	150	115,000	115,000	35,88275	280,939	50,939	69	101	10,952*V	10,952*V
13,983555	14,048555	14,247144	14,312144	70	75	290	100	65,000	65,000	52,09458	328,589	198,589	100	129	9,286*V	9,286*V
14,333483	14,358483	14,707052	14,732052	85	90	770	30	25,000	25,000	27,79932	398,569	348,569	81	95	9,804*V	9,804*V
14,758410	14,853410	15,114980	15,209980	85	90	375	130	95,000	95,000	54,47855	451,570	261,570	98	125	8,597*V	8,597*V
15,514709	15,614709	15,703138	15,803138	85	90	400	135	100,000	100,000	26,99416	288,429	88,429	79	104	8,715*V	8,715*V
15,826947	15,939447	16,083496	16,195996	75	80	270	150	112,500	112,500	54,45547	369,049	144,049	96	130	10*V	10*V
16,220405	16,260405	16,649744	16,689744	65	70	280	80	40,000	40,000	87,89451	469,339	389,339	99	127	7,692*V	7,692*V
16,951701	17,041701	17,503692	17,593692	70	75	335	100	90,000	90,000	94,43351	641,991	461,991	73	99	12,857*V	12,857*V
17,747773	17,817793	18,526114	18,579804	70	75	284	107	70,020	53,690	155,44733	832,031	708,321	97	127	9,348*V	7,168*V
18,579804	18,633494	19,168745	19,222645	70	75	281	107	53,690	53,900	120,15787	642,841	535,251	99	130	7,168*V	7,196*V
19,286056	19,358056	19,379169	19,451129	70	75	270	116	72,000	71,960	19,75705	165,073	21,113	99	130	8,867*V	8,862*V
19,451129	19,523089	19,580908	19,652908	70	75	270	116	71,960	72,000	27,54986	201,779	57,819	99	130	8,862*V	8,867*V
19,890701	19,972821	20,058822	20,140942	75	80	300	125	82,120	82,120	32,11642	250,241	86,001	97	127	8,759*V	8,759*V
20,140942	20,223062	20,246234	20,328354	75	80	300	125	82,120	82,120	20,10894	187,412	23,172	97	127	8,759*V	8,759*V
20,390614	20,466114	20,702487	20,777837	75	80	280	142	75,500	75,350	63,82644	387,223	236,373	96	128	7,089*V	7,075*V
20,777837	20,853187	20,901466	20,976966	75	80	280	142	75,350	75,500	25,31678	199,129	48,279	96	128	7,075*V	7,089*V
21,071605	21,147105	21,249611	21,325111	75	80	280	142	75,500	75,500	36,43592	253,506	102,506	96	128	7,089*V	7,089*V
21,421792	21,496792	21,712843	21,787843	75	80	290	135	75,000	75,000	57,52243	366,051	216,051	94	126	7,407*V	7,407*V
21,813308	21,888308	22,468925	22,543925	75	80	281,5	140	75,000	75,000	133,49906	730,617	580,617	96	129	7,143*V	7,143*V
22,670981	22,735981	23,093692	23,158692	75	80	305	120	65,000	65,000	79,43389	487,711	357,711	98	128	7,222*V	7,222*V
23,196412	23,301412	23,326623	23,431623	100	100	475	150	105,000	105,000	15,70711	235,211	25,211	99	99	7*V	7*V
23,633897	23,733897	23,806695	23,906695	100	100	500	140	100,000	100,000	19,80269	272,798	72,798	96	96	7,143*V	7,143*V
23,941714	23,996714	24,045803	24,100803	85	90	480	90	55,000	55,000	12,42475	159,089	49,089	88	110	7,19*V	7,19*V
24,124420	24,171620	24,268742	24,330032	70	75	300	96	47,200	61,290	28,91532	205,612	97,122	97	126	7,024*V	9,121*V
24,330032	24,391322	24,935514	-	70	75	295,05	96	61,290	-	111,63861	605,482	544,192	100	129	9,121*V	-

OBOR	KATEDRA	JMÉNO STUDENTA
DS	K612 Ústav dopravních systémů	Bc. JIŘÍ ČÍŽEK
ROČNÍK	VEDOUcí PRÁCE	
22/23	Ing. Martin Jacura, Ph.D.	
AKCE		
Zvýšení traťové rychlosti v úseku		
Česká Lípa - Jedlová		
FORMÁT	A4	
MĚŘITKO	-	
DATUM	13. 5. 2023	
OBSAH	Č. VÝKRESU	4.1
Detailní přehled paramterů oblouků - varianta A		



i	ZP	ZO	KO	KP	V100 [km/h]	V130 [km/h]	R [m]	D [mm]	Lk1 [m]	Lk2 [m]	alfa [°]	Li [m]	Lo [m]	I100 [mm]	I130 [mm]	n1	n2
1	0,169394	0,269394	0,735907	0,835907	90	95	400	140	100,000	100,000	81,16305	666,513	466,513	99	127	7,937*V	7,937*V
2	1,137451	1,237451	1,719267	1,819267	90	95	400	140	100,000	100,000	83,35437	681,816	481,816	99	127	7,937*V	7,937*V
3	1,877499	1,977499	2,455270	2,555270	90	95	400	140	100,000	100,000	82,77789	677,771	477,771	99	127	7,937*V	7,937*V
4	2,640898	2,740898	3,071133	3,171133	90	95	400	140	100,000	100,000	61,63918	530,235	330,235	99	127	7,937*V	7,937*V
5	3,965816	4,065816	4,298541	4,398541	100	100	1000	70	100,000	100,000	19,06427	432,725	232,725	48	48	14,286*V	14,286*V
6	4,784980	4,934980	5,214555	5,364555	100	100	500	145	150,000	150,000	49,23031	579,575	279,575	91	91	10,345*V	10,345*V
7	5,515980	5,615980	5,836371	5,936371	100	100	550	130	100,000	100,000	33,38484	420,391	220,391	85	85	7,692*V	7,692*V
8	6,412864	6,512864	6,846328	6,946328	100	100	1000	70	100,000	100,000	24,83597	533,464	333,464	48	48	14,286*V	14,286*V
9	7,093881	7,163881	7,562149	7,632149	85	90	450	110	70,000	70,000	59,62992	538,268	398,268	80	103	7,487*V	7,487*V
10	8,036113	8,096113	8,490941	8,550941	80	85	370	105	60,000	60,000	70,44827	514,828	394,828	100	126	7,143*V	7,143*V
11	9,591514	9,671514	10,637518	10,717518	90	95	450	125	80,000	80,000	133,20399	1126,004	966,004	88	112	7,111*V	7,111*V
12	10,782356	10,862356	11,370645	11,450645	85	90	360	137	80,000	80,000	93,65272	668,289	508,289	100	129	6,87*V	6,87*V
13	11,939483	11,989483	12,063482	12,113482	85	90	1000	55	50,000	50,000	7,10502	173,999	73,999	31	41	10,695*V	10,695*V
14	12,233784	12,333784	12,578880	12,678880	85	90	350	145	100,000	100,000	56,49212	445,096	245,096	99	129	8,114*V	8,114*V
15	12,720139	12,820139	13,220693	13,320693	95	100	450	150	100,000	100,000	63,74340	600,554	400,554	87	113	7,018*V	7,018*V
16	13,796381	13,896381	14,464937	14,564937	100	100	550	135	100,000	100,000	69,65311	768,556	568,556	80	80	7,407*V	7,407*V
17	14,637428	14,737428	15,113006	15,213006	100	100	550	135	100,000	100,000	49,54824	575,578	375,578	80	80	7,407*V	7,407*V
18	15,478205	15,578205	15,633264	15,733264	100	100	550	135	100,000	100,000	16,15373	255,059	55,059	80	80	7,407*V	7,407*V
19	15,808822	15,868822	15,999263	16,059263	70	75	310	110	60,000	60,000	35,20616	250,441	130,441	77	105	7,792*V	7,792*V
20	16,123096	16,183096	16,553987	16,613987	65	70	310	80	60,000	60,000	79,66436	490,891	370,891	81	107	11,538*V	11,538*V
21	16,874842	16,934842	17,454546	17,514546	70	75	350	90	60,000	60,000	94,92274	639,704	519,704	76	100	9,524*V	9,524*V
22	17,631008	17,691008	18,228772	18,288772	70	75	300	115	60,000	60,000	125,67240	657,764	537,764	78	107	7,453*V	7,453*V
23	18,428862	18,528862	18,990580	19,090580	85	90	350	150	100,000	100,000	91,97741	661,718	461,718	94	124	7,843*V	7,843*V
24	19,548303	19,598303	19,862744	19,912744	100	100	1000	45	50,000	50,000	18,01665	364,441	264,441	73	73	11,111*V	11,111*V
25	20,009420	20,059420	20,487728	20,537728	100	100	750	70	50,000	50,000	36,54203	528,308	428,308	88	88	7,143*V	7,143*V
26	21,230760	21,330760	21,980060	22,080060	100	100	550	140	100,000	100,000	78,06599	849,300	649,300	75	75	7,143*V	7,143*V
27	22,103909	22,203909	22,560356	22,660356	100	100	550	140	100,000	100,000	47,55428	556,447	356,447	75	75	7,143*V	7,143*V
28	22,777121	22,877121	23,299707	23,399707	100	100	1000	70	100,000	100,000	29,94225	622,586	422,586	48	48	14,286*V	14,286*V
29	23,757918	23,907918	24,339841	-	70	75	300	115	150,000	-	96,85116	581,923	431,923	78	107	18,634*V	-

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22/23	Ing. Martin Jacura, Ph.D.			
AKCE			FORMÁT	A4
Zvýšení trat'ové rychlosti v úseku			MĚŘÍTKO	-
Česká Lípa - Jedlová			DATUM	13. 5. 2023
OBSAH			Č. VÝKRESU	4.2
Detailní přehled paramterů oblouků - varianta B				