



Transports
Québec



Direction de la Côte-Nord

PROGRAMME D'AMÉLIORATION DE LA ROUTE 389
PROJET A

ÉTUDE DES BESOINS (RAPPORT FINAL)
VOLUME 2 - ANNEXES 1 DE 4

Dossier MTQ No : 6703-11-GA04
N/Dossier : 55317-100

En collaboration avec :

Consortium



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30 Novembre 2013

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En collaboration avec :



Annexe 2.1

**Analyse de conformité des
caractéristiques géométriques de la
route 389
Chaînages -2+262,000 à 24+000,000**

ANALYSE DES COURBES HORIZONTALES				
TYPE ou P.K.	CHAÎNAGE T.C.	LONG. (m)	RAYON (m)	SENS
Tangente	-2+151,195	110,774	0	-
Courbe	-2+092,867	92,553	60	DROITE
Tangente	1+962,262	96,38	0	-
Courbe	-1+938,335	47,818	500	GAUCHE
Tangente	1+885,308	29,136	0	-
Courbe	-1+697,351	369,960	850	GAUCHE
Tangente	1+163,473	351,874	0	-
Courbe	-1+054,824	217,204	3000	GAUCHE
Tangente	-0+816,974	129,295	0	-
Courbe	-0+577,614	460,795	690	GAUCHE
Km480	-0+372,000			
Tangente	0+000,000	356,179	0	-
Tangente	0+100,189	100,189	0	-
Courbe	0+132,007	59,178	65	GAUCHE
Tangente	0+198,417	39,049	0	-
Courbe	0+234,582	71,327	175	GAUCHE
Tangente	0+357,229	87,485	0	-
Courbe	0+411,463	108,045	500	GAUCHE
Tangente	0+518,041	52,767	0	-
Courbe	0+592,918	142,919	194	GAUCHE
Tangente	0+727,875	66,915	0	-
Courbe	0+802,073	142,099	200	DROITE
Tangente	1+036,769	166,794	0	-
Courbe	1+097,167	120,355	575	GAUCHE
Tangente	1+184,840	27,716	0	-
Courbe	1+257,131	142,461	340	DROITE
Tangente	1+373,333	46,033	0	-
Courbe	1+427,546	108,295	900	GAUCHE
Km 482	1+480,000			
Tangente	1+532,249	50,621	0	-
Courbe	1+534,653	4,809	3500	GAUCHE
Tangente	1+560,130	23,073	0	-
Courbe	1+563,775	7,290	399,966	DROITE
Tangente	1+578,604	11,183	0	-
Courbe	1+641,615	125,948	1500	GAUCHE
Tangente	1+740,310	35,758	0	-
Tangente	1+805,605	65,295	0	-
Tangente	1+869,245	63,64	0	-
Tangente	1+947,843	78,598	0	-
Tangente	1+979,397	31,554	0	-
Tangente	2+011,394	31,997	0	-
Tangente	2+043,657	32,263	0	-
Tangente	2+059,703	16,046	0	-
Courbe	2+067,475	15,512	100	DROITE
Tangente	2+077,259	2,044	0	-
Courbe	2+108,279	61,651	225	GAUCHE
Tangente	2+179,662	40,751	0	-
Courbe	2+273,992	176,286	200	DROITE
Tangente	2+363,200	7,253	0	-
Courbe	2+401,151	74,806	180	GAUCHE
Tangente	2+513,714	75,707	0	-
Courbe	2+638,989	222,705	195	DROITE
Tangente	2+832,695	96,276	0	-
Courbe	2+835,425	5,459	100	GAUCHE
Tangente	2+906,386	68,232	0	-
Courbe	2+979,866	146,338	650	GAUCHE
Tangente	3+137,123	84,399	0	-
Tangente	3+157,499	20,375	0	-
Courbe	3+209,009	102,575	450	GAUCHE
Tangente	3+286,619	26,546	0	-
Courbe	3+347,396	119,239	250	GAUCHE
Tangente	3+429,517	23,658	0	-
Courbe	3+483,686	100,288	107	DROITE
Km 484	3+606,000			
Tangente	3+675,697	145,892	0	-
Courbe	3+696,898	42,397	1000	DROITE
Tangente	3+785,104	67,011	0	-
Courbe	3+818,516	66,725	500	GAUCHE
Tangente	4+019,619	167,789	0	-
Courbe	4+075,309	110,905	490	DROITE
Tangente	4+207,268	76,744	0	-
Tangente	4+252,423	45,155	0	-
Courbe	4+327,973	147,585	280	GAUCHE
Tangente	4+447,272	47,264	0	-
Courbe	4+507,414	107,234	95	GAUCHE
Tangente	4+591,406	36,9	0	-
Tangente	4+617,690	26,284	0	-
Courbe	4+631,666	27,893	175	GAUCHE
Tangente	4+718,957	73,374	0	-
Courbe	4+768,140	96,453	200	DROITE
Tangente	4+850,906	35,496	0	-
Courbe	4+906,282	109,291	275	GAUCHE
Tangente	5+008,785	48,587	0	-

LÉGENDE	
RAYON DES COURBES HORIZONTALES	
	VITESSE < 50 km/h (R < 90 m)
	50 <= VITESSE < 60 km/h (90 <= R < 135 m)
	60 <= VITESSE < 70 km/h (135 <= R < 185 m)
	70 <= VITESSE < 80 km/h (185 <= R < 255 m)
	80 <= VITESSE < 90 km/h (255 <= R < 340 m)
	90 <= VITESSE < 100 km/h (340 <= R < 440 m)
	100 km/h <= VITESSE (440 m <= R)

LÉGENDE	
LONGUEUR DES COURBES HORIZONTALES	
	$L_{min} = 3 * VITESSE$ en km/h
	VITESSE < 50 km/h (L < 150 m)
	50 <= VITESSE < 60 km/h (150 <= L < 180 m)
	60 <= VITESSE < 70 km/h (180 <= L < 210 m)
	70 <= VITESSE < 80 km/h (210 <= L < 240 m)
	80 <= VITESSE < 90 km/h (240 <= L < 270 m)
	90 <= VITESSE < 100 km/h (270 <= L < 300 m)
	100 km/h <= VITESSE (300 <= L)

ANALYSE DES COURBES HORIZONTALES				
TYPE ou P.K.	CHAÎNAGE T.C.	LONG. (m)	RAYON (m)	SENS
Tangente	5+131,847	123,063	0	-
Courbe	5+196,794	128,204	325	DROITE
Tangente	5+367,437	107,385	0	-
Courbe	5+420,966	106,579	460	GAUCHE
Km 486	5+485,000			
Tangente	5+531,205	57,189	0	-
Tangente	5+611,656	80,452	0	-
Courbe	5+662,208	100,596	410	DROITE
Tangente	5+762,445	50,193	0	-
Courbe	5+835,170	143,954	410	GAUCHE
Tangente	6+026,556	120,157	0	-
Courbe	6+086,352	119,529	1500	GAUCHE
Tangente	6+240,247	94,161	0	-
Tangente	6+285,739	45,492	0	-
Courbe	6+334,032	71,819	42	GAUCHE
Tangente	6+387,358	29,801	0	-
Courbe	6+421,329	67,059	170	DROITE
Tangente	6+496,195	41,778	0	-
Courbe	6+551,180	109,402	440	DROITE
Tangente	6+616,990	11,393	0	-
Courbe	6+655,097	75,497	225	DROITE
Tangente	6+692,653	0,166	0	-
Courbe	6+746,687	102,420	130	DROITE
Tangente	6+834,051	38,978	0	-
Courbe	6+866,373	64,186	220	GAUCHE
Tangente	6+926,707	28,471	0	-
Courbe	6+991,956	129,017	350	DROITE
Tangente	7+085,415	29,692	0	-
Tangente	7+126,590	41,174	0	-
Courbe	7+171,845	90,327	580	DROITE
Tangente	7+217,019	0,103	0	-
Courbe	7+330,639	213,582	253	DROITE
Tangente	7+493,947	63,346	0	-
Km 488	7+500,000			
Courbe	7+539,396	82,663	80	GAUCHE
Tangente	7+581,283	4,672	0	-
Courbe	7+616,042	68,832	200	GAUCHE
Tangente	7+735,083	84,968	0	-
Courbe	7+818,865	163,401	300	DROITE
Tangente	7+931,826	33,342	0	-
Courbe	7+950,141	36,613	500	GAUCHE
Tangente	8+010,459	42,02	0	-
Tangente	8+058,806	48,347	0	-
Tangente	8+232,478	173,672	0	-
Tangente	8+464,997	232,519	0	-
Tangente	8+570,932	105,935	0	-
Tangente	8+638,305	67,373	0	-
Tangente	8+714,960	76,655	0	-
Courbe	8+796,168	161,163	530	DROITE
Tangente	8+971,966	95,844	0	-
Tangente	9+091,614	119,647	0	-
Courbe	9+154,275	124,964	675	GAUCHE
Tangente	9+250,421	33,843	0	-
Courbe	9+287,001	71,173	125	DROITE
Tangente	9+324,060	2,466	0	-
Courbe	9+348,979	47,771	68	GAUCHE
Tangente	9+414,013	42,182	0	-
Courbe	9+454,111	79,930	400	DROITE
Km 490	9+469,000			
Tangente	9+568,772	74,829	0	-
Courbe	9+631,739	125,878	1700	GAUCHE
Tangente	9+694,747	0,098	0	-
Courbe	9+727,570	65,238	239,332	DROITE
Tangente	9+778,702	18,717	0	-
Courbe	9+814,719	71,689	300	GAUCHE
Tangente	9+918,664	68,272	0	-
Courbe	9+963,830	89,836	350	DROITE
Tangente	10+257,573	249,074	0	-
Courbe	10+332,590	149,837	1200	GAUCHE
Tangente	10+635,896	228,485	0	-
Courbe	10+706,614	139,447	340	GAUCHE
Tangente	10+907,402	132,059	0	-
Courbe	10+981,027	146,010	460	DROITE
Tangente	11+105,345	51,932	0	-
Courbe	11+193,832	175,161	500	GAUCHE
Tangente	11+342,630	62,125	0	-
Courbe	11+405,356	124,531	420	DROITE
Km 492	11+467,000			
Tangente	11+509,608	42,447	0	-
Courbe	11+562,298	104,316	300	GAUCHE
Tangente	11+694,296	80,372	0	-
Courbe	11+771,601	145,587	175	DROITE

LÉGENDE	
RAYON DES COURBES HORIZONTALES	
	VITESSE < 50 km/h (R < 90 m)
	50 <= VITESSE < 60 km/h (90 <= R < 135 m)
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	100 km/h <= VITESSE (300 <= L)

ANALYSE DES COURBES HORIZONTALES				
TYPE ou P.K.	CHAÎNAGE T.C.	LONG. (m)	RAYON (m)	SENS
Tangente	12+009,427	169,544	0	-
Courbe	12+065,035	107,270	165	DROITE
Tangente	12+138,376	21,679	0	-
Courbe	12+188,892	98,499	180	GAUCHE
Tangente	12+313,715	76,84	0	-
Tangente	12+379,869	66,155	0	-
Courbe	12+442,108	121,307	220	GAUCHE
Tangente	12+501,438	0,262	0	-
Courbe	12+578,615	152,866	450	GAUCHE
Tangente	12+686,103	31,799	0	-
Courbe	12+713,956	55,616	400	DROITE
Tangente	12+755,971	14,252	0	-
Courbe	12+786,461	60,862	400	GAUCHE
Tangente	12+885,634	68,8	0	-
Courbe	12+911,153	50,970	400	GAUCHE
Tangente	12+957,230	20,626	0	-
Courbe	13+016,209	113,013	160	DROITE
Tangente	13+098,905	28,662	0	-
Courbe	13+136,941	75,774	350	GAUCHE
Tangente	13+191,559	16,879	0	-
Courbe	13+208,017	32,884	300	DROITE
Km 494	13+415,000			
Tangente	13+506,716	282,273	0	-
Tangente	13+563,905	57,19	0	-
Courbe	13+603,350	77,662	180	GAUCHE
Tangente	13+664,655	23,088	0	-
Courbe	13+712,941	95,931	340	DROITE
Tangente	13+854,637	94,051	0	-
Tangente	13+869,636	14,999	0	-
Courbe	13+903,167	67,037	1000	DROITE
Tangente	13+994,648	57,974	0	-
Courbe	14+044,149	96,615	180	GAUCHE
Tangente	14+097,525	6,263	0	-
Courbe	14+124,058	51,604	90	DROITE
Tangente	14+244,488	95,359	0	-
Tangente	14+519,606	275,118	0	-
Tangente	14+638,894	119,288	0	-
Tangente	14+706,815	67,921	0	-
Courbe	14+757,104	98,535	200	GAUCHE
Tangente	14+851,403	46,053	0	-
Courbe	14+931,289	158,911	625	DROITE
Tangente	15+071,758	61,444	0	-
Tangente	15+168,645	96,887	0	-
Courbe	15+207,075	76,822	1000	GAUCHE
Tangente	15+263,586	18,119	0	-
Courbe	15+312,526	97,496	450	DROITE
Km 496	15+423,000			
Tangente	15+441,872	80,79	0	-
Tangente	15+509,584	67,712	0	-
Courbe	15+553,038	86,673	480	GAUCHE
Tangente	15+641,985	45,728	0	-
Tangente	15+712,839	70,854	0	-
Tangente	15+773,468	60,629	0	-
Courbe	15+790,805	34,671	1000	GAUCHE
Tangente	15+839,469	31,33	0	-
Courbe	15+859,549	40,158	1500	DROITE
Tangente	15+944,338	64,712	0	-
Tangente	16+017,439	73,101	0	-
Courbe	16+040,414	45,910	450	DROITE
Tangente	16+081,280	17,931	0	-
Courbe	16+124,037	85,307	500	GAUCHE
Tangente	16+279,674	113,087	0	-
Tangente	16+598,189	318,515	0	-
Tangente	16+707,651	109,462	0	-
Tangente	16+810,031	102,38	0	-
Tangente	16+874,312	64,281	0	-
Courbe	16+960,829	169,980	370	DROITE
Tangente	17+059,142	14,849	0	-
Courbe	17+100,095	81,020	225	GAUCHE
Tangente	17+165,597	25,436	0	-
Courbe	17+181,215	31,227	500	DROITE
Tangente	17+277,706	80,882	0	-
Tangente	17+355,759	78,053	0	-
Km 498	17+393,000			
Tangente	17+403,267	47,508	0	-
Courbe	17+471,053	133,656	325	DROITE
Tangente	17+609,072	72,149	0	-
Tangente	17+652,601	43,53	0	-
Tangente	17+722,163	69,561	0	-
Courbe	17+755,505	65,167	125	DROITE
Tangente	17+989,333	202,003	0	-

LÉGENDE	
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	100 km/h <= VITESSE (300 <= L)

ANALYSE DES COURBES HORIZONTALES				
TYPE ou P.K.	CHAÎNAGE T.C.	LONG. (m)	RAYON (m)	SENS
Courbe	18+066,406	149,694	255	GAUCHE
Tangente	18+221,118	82,092	0	-
Tangente	18+355,524	134,406	0	-
Courbe	18+428,692	144,259	350	DROITE
Tangente	18+537,308	37,525	0	-
Courbe	18+604,127	128,243	185	GAUCHE
Tangente	18+786,141	120,59	0	-
Tangente	18+833,807	47,666	0	-
Courbe	18+881,990	94,563	200	DROITE
Tangente	18+944,073	15,702	0	-
Courbe	18+976,481	64,725	500	GAUCHE
Tangente	19+023,808	15,009	0	-
Courbe	19+051,290	54,811	300	DROITE
Tangente	19+123,318	44,699	0	-
Courbe	19+216,700	183,842	425	GAUCHE
Tangente	19+313,660	6,5	0	-
Km 500	19+350,000			
Courbe	19+412,902	193,119	340	DROITE
Tangente	19+510,540	3,761	0	-
Courbe	19+597,832	171,448	370	GAUCHE
Tangente	19+755,874	73,885	0	-
Courbe	19+793,659	75,555	1500	GAUCHE
Tangente	19+900,903	69,474	0	-
Courbe	19+949,619	96,227	250	GAUCHE
Tangente	20+011,132	14,002	0	-
Courbe	20+172,626	292,969	280	DROITE
Tangente	20+314,800	10,699	0	-
Courbe	20+441,866	240,387	300	GAUCHE
Tangente	20+613,562	58,375	0	-
Courbe	20+679,906	118,336	105	DROITE
Tangente	20+772,363	40,465	0	-
Courbe	20+846,305	137,397	150	GAUCHE
Tangente	20+961,744	51,984	0	-
Courbe	20+988,838	53,423	130	DROITE
Tangente	21+072,647	57,48	0	-
Courbe	21+157,606	165,292	290	GAUCHE
Tangente	21+297,818	59,879	0	-
Km 502	21+362,000			
Courbe	21+363,198	124,831	170	DROITE
Tangente	21+482,493	59,844	0	-
Courbe	21+533,133	101,195	1000	GAUCHE
Tangente	21+719,464	135,776	0	-
Tangente	21+754,752	35,289	0	-
Courbe	21+823,597	129,576	155	GAUCHE
Tangente	21+966,506	82,178	0	-
Courbe	22+014,652	88,419	90	DROITE
Tangente	22+072,605	17,68	0	-
Courbe	22+112,173	76,641	125	GAUCHE
Tangente	22+192,929	43,683	0	-
Courbe	22+238,618	91,125	500	DROITE
Tangente	22+342,534	58,48	0	-
Courbe	22+376,338	67,200	250	DROITE
Tangente	22+441,744	32,01	0	-
Courbe	22+482,427	80,534	230	GAUCHE
Tangente	22+551,328	29,05	0	-
Courbe	22+613,992	125,166	1000	DROITE
Tangente	22+847,736	171,242	0	-
Tangente	22+906,060	58,325	0	-
Courbe	22+920,526	28,931	1500	DROITE
Tangente	22+950,405	15,414	0	-
Tangente	22+990,639	40,233	0	-
Courbe	23+047,065	112,769	1200	GAUCHE
Tangente	23+187,520	84,112	0	-
Tangente	23+253,415	65,895	0	-
Courbe	23+327,185	145,411	350	DROITE
Km 504	23+350,000			
Tangente	23+447,273	48,447	0	-
Courbe	23+499,104	102,647	300	GAUCHE
Tangente	23+602,236	52,316	0	-
Courbe	23+639,787	74,316	210	DROITE
Tangente	23+702,045	25,492	0	-
Courbe	23+768,325	128,405	210	GAUCHE
Tangente	23+876,020	45,57	0	-
Tangente	23+955,569	79,548	0	-
Courbe	24+014,925	118,031	450	DROITE
Tangente	24+125,964	52,364	0	-
Courbe	24+174,386	96,473	450	GAUCHE
Tangente	24+379,541	157,105	0	-
Courbe	24+439,666	117,384	220	DROITE
Tangente	24+590,250	93,325	0	-
Tangente	24+642,650	52,399	0	-

LÉGENDE	
RAYON DES COURBES HORIZONTALES	
	VITESSE < 50 km/h (R < 90 m)
	50 <= VITESSE < 60 km/h (90 <= R < 135 m)
	60 <= VITESSE < 70 km/h (135 <= R < 185 m)
	70 <= VITESSE < 80 km/h (185 <= R < 255 m)
	80 <= VITESSE < 90 km/h (255 <= R < 340 m)
	90 <= VITESSE < 100 km/h (340 <= R < 440 m)
	100 km/h <= VITESSE (440 m <= R)

LÉGENDE	
LONGUEUR DES COURBES HORIZONTALES	
	$L_{min} = 3 * VITESSE$ en km/h
	VITESSE < 50 km/h (L < 150 m)
	50 <= VITESSE < 60 km/h (150 <= L < 180 m)
	60 <= VITESSE < 70 km/h (180 <= L < 210 m)
	70 <= VITESSE < 80 km/h (210 <= L < 240 m)
	80 <= VITESSE < 90 km/h (240 <= L < 270 m)
	90 <= VITESSE < 100 km/h (270 <= L < 300 m)
	100 km/h <= VITESSE (300 <= L)

ANALYSE DES COURBES HORIZONTALES				
TYPE ou P.K.	CHAÎNAGE T.C.	LONG. (m)	RAYON (m)	SENS
Tangente	24+669,116	26,466	0	-
Courbe	24+768,073	197,628	1500	GAUCHE
Tangente	24+902,191	35,447	0	-
Tangente	25+085,870	183,679	0	-
Tangente	25+167,029	81,159	0	-
Courbe	25+248,379	153,284	185	GAUCHE
Tangente	25+326,879	6,566	0	-
Km 506	25+332,000			
Courbe	25+389,484	124,492	475	GAUCHE
Tangente	25+471,469	20,098	0	-
Courbe	25+504,057	61,891	80	DROITE
Tangente	25+580,320	46,959	0	-
Courbe	25+611,353	61,575	200	DROITE
Tangente	25+668,206	26,311	0	-
Courbe	25+706,966	76,355	180	GAUCHE
Tangente	25+772,890	28,329	0	-
Courbe	25+889,883	215,773	225	DROITE
Tangente	26+030,838	42,175	0	-
Courbe	26+064,765	66,730	150	GAUCHE
Tangente	26+164,941	67,372	0	-
Courbe	26+188,398	46,375	125	GAUCHE
Tangente	26+228,765	17,448	0	-
Courbe	26+250,769	43,563	125	DROITE
Tangente	26+314,174	41,847	0	-
Courbe	26+371,177	113,788	750	GAUCHE
Tangente	26+566,670	138,71	0	-
Tangente	26+595,180	28,51	0	-
Courbe	26+628,980	67,548	700	DROITE
Tangente	26+744,100	81,373	0	-
Courbe	26+785,744	82,897	350	GAUCHE
Tangente	26+909,387	82,389	0	-
Courbe	26+945,325	71,117	200	GAUCHE
Tangente	27+026,633	46,129	0	-
Courbe	27+076,785	98,617	220	DROITE
Tangente	27+209,889	84,639	0	-
Courbe	27+253,883	87,456	325	GAUCHE
Km 508	27+323,000			
Tangente	27+365,156	67,81	0	-
Courbe	27+404,288	77,066	180	DROITE
Tangente	27+479,492	37,27	0	-
Courbe	27+511,299	63,481	400	GAUCHE
Tangente	27+570,157	27,184	0	-
Courbe	27+603,900	66,669	175	DROITE
Tangente	27+673,704	36,878	0	-
Courbe	27+708,362	63,681	65	GAUCHE
Tangente	27+750,742	13,357	0	-
Courbe	27+784,200	65,259	120	DROITE
Tangente	27+846,047	30,046	0	-
Courbe	27+870,655	48,970	200	GAUCHE
Tangente	27+926,234	31,218	0	-
Courbe	27+958,428	62,906	120	DROITE
Tangente	28+112,376	123,236	0	-
Courbe	28+161,945	98,045	270	GAUCHE
Tangente	28+253,401	42,979	0	-
Courbe	28+295,981	84,678	325	GAUCHE
Tangente	28+372,942	34,862	0	-
Courbe	28+409,772	73,293	300	DROITE
Tangente	28+457,795	11,56	0	-
Courbe	28+510,027	104,201	600	GAUCHE
Tangente	28+634,746	72,751	0	-
Tangente	28+701,279	66,533	0	-
Courbe	28+757,192	111,363	500	GAUCHE
Tangente	28+820,725	8,083	0	-
Courbe	28+854,980	68,456	700	DROITE
Tangente	28+952,923	63,742	0	-
Courbe	29+015,628	125,356	1750	GAUCHE
Tangente	29+136,454	58,174	0	-
Courbe	29+172,400	71,007	185	DROITE
Tangente	29+209,353	1,893	0	-
Courbe	29+259,207	99,196	400	GAUCHE
Km 510	29+329,000			
Tangente	29+329,091	20,541	0	-
Courbe	29+377,181	95,251	280	GAUCHE
Tangente	29+515,155	90,814	0	-
Courbe	29+581,213	126,327	175	DROITE
Tangente	29+693,362	51,879	0	-
Tangente	29+740,429	47,067	0	-
Courbe	29+828,663	148,728	110	DROITE
Tangente	29+931,780	42,622	0	-
Courbe	29+981,260	82,349	59	GAUCHE
Tangente	30+068,553	54,425	0	-

LÉGENDE	
RAYON DES COURBES HORIZONTALES	
	VITESSE < 50 km/h (R < 90 m)
	50 <= VITESSE < 60 km/h (90 <= R < 135 m)
	60 <= VITESSE < 70 km/h (135 <= R < 185 m)
	70 <= VITESSE < 80 km/h (185 <= R < 255 m)
	80 <= VITESSE < 90 km/h (255 <= R < 340 m)
	90 <= VITESSE < 100 km/h (340 <= R < 440 m)
	100 km/h <= VITESSE (440 m <= R)

LÉGENDE	
LONGUEUR DES COURBES HORIZONTALES	
$L_{min} = 3 * VITESSE \text{ en km/h}$	
	VITESSE < 50 km/h (L < 150 m)
	50 <= VITESSE < 60 km/h (150 <= L < 180 m)
	60 <= VITESSE < 70 km/h (180 <= L < 210 m)
	70 <= VITESSE < 80 km/h (210 <= L < 240 m)
	80 <= VITESSE < 90 km/h (240 <= L < 270 m)
	90 <= VITESSE < 100 km/h (270 <= L < 300 m)
	100 km/h <= VITESSE (300 <= L)

ANALYSE DES COURBES HORIZONTALES				
TYPE ou P.K.	CHAÎNAGE T.C.	LONG. (m)	RAYON (m)	SENS
Tangente	30+090,764	22,211	0	-
Tangente	30+146,120	55,356	0	-
Tangente	30+166,864	20,744	0	-
Courbe	30+184,578	32,797	35	DROITE
Tangente	30+212,514	12,853	0	-
Courbe	30+226,873	26,068	25	GAUCHE
Tangente	30+239,900	1,319	0	-
Courbe	30+254,263	28,703	300	GAUCHE
Tangente	30+280,360	11,756	0	-
Courbe	30+290,482	20,201	125	DROITE
Tangente	30+323,340	22,779	0	-
Courbe	30+334,473	22,242	200	GAUCHE
Tangente	30+396,395	50,812	0	-
Courbe	30+432,240	68,551	95	DROITE
Tangente	30+505,679	40,733	0	-
Courbe	30+563,417	107,629	120	GAUCHE
Tangente	30+720,371	107,063	0	-
Courbe	30+775,947	109,905	300	DROITE
Tangente	30+837,297	7,02	0	-
Courbe	30+866,684	57,641	120	GAUCHE
Tangente	30+930,649	35,712	0	-
Courbe	30+963,398	64,485	150	DROITE
Tangente	31+011,194	16,06	0	-
Courbe	31+056,853	90,806	350	DROITE
Tangente	31+143,257	41,257	0	-
Tangente	31+241,695	98,439	0	-
Tangente	31+316,950	75,254	0	-
Km 512	31+320,000			
Tangente	31+352,545	35,595	0	-
Courbe	31+401,032	88,949	90	GAUCHE
Tangente	31+483,822	42,328	0	-
Courbe	31+522,448	72,973	90	DROITE
Tangente	31+613,028	56,234	0	-
Courbe	31+661,182	95,229	260	DROITE
Tangente	31+819,305	111,048	0	-
Courbe	31+893,863	134,454	125	GAUCHE
Tangente	32+025,891	72,133	0	-
Courbe	32+072,842	92,514	220	DROITE
Tangente	32+152,306	33,9	0	-
Courbe	32+221,219	137,086	540	GAUCHE
Tangente	32+338,529	49,137	0	-
Courbe	32+389,518	101,073	310	GAUCHE
Tangente	32+460,359	20,757	0	-
Courbe	32+525,866	130,632	700	DROITE
Tangente	32+633,863	42,871	0	-
Tangente	32+664,270	30,408	0	-
Courbe	32+721,164	107,688	135	DROITE
Tangente	32+803,683	31,725	0	-
Courbe	32+832,502	57,614	800	DROITE
Tangente	32+883,540	22,244	0	-
Tangente	32+960,083	76,543	0	-
Courbe	32+979,199	38,180	300	DROITE
Tangente	33+031,169	32,906	0	-
Courbe	33+076,796	86,873	115	GAUCHE
Tangente	33+165,288	47,246	0	-
Courbe	33+225,477	120,312	1500	GAUCHE
Km 514	33+290,000			
Tangente	33+296,790	11,189	0	-
Courbe	33+335,161	76,509	400	DROITE
Tangente	33+425,412	52,113	0	-
Tangente	33+455,954	30,543	0	-
Courbe	33+503,538	87,542	90	DROITE
Tangente	33+571,786	28,289	0	-
Courbe	33+633,431	121,597	300	DROITE
Tangente	33+744,415	51,031	0	-
Courbe	33+810,312	129,735	300	DROITE
Tangente	33+936,763	62,614	0	-
Courbe	33+994,998	110,374	140	GAUCHE
Tangente	34+143,230	96,092	0	-
Courbe	34+184,285	79,711	135	GAUCHE
Tangente	34+250,431	27,49	0	-
Courbe	34+297,853	93,921	275	GAUCHE
Tangente	34+390,619	46,266	0	-
Courbe	34+444,085	105,345	250	DROITE
Tangente	34+560,450	64,487	0	-
Courbe	34+627,066	126,978	170	GAUCHE
Tangente	34+707,542	20,114	0	-
Courbe	34+780,561	135,908	150	DROITE
Tangente	34+910,421	66,971	0	-
Courbe	34+953,570	85,965	400	DROITE
Tangente	35+023,577	27,191	0	-

LÉGENDE	
RAYON DES COURBES HORIZONTALES	
	VITESSE < 50 km/h (R < 90 m)
	50 <= VITESSE < 60 km/h (90 <= R < 135 m)
	60 <= VITESSE < 70 km/h (135 <= R < 185 m)
	70 <= VITESSE < 80 km/h (185 <= R < 255 m)
	80 <= VITESSE < 90 km/h (255 <= R < 340 m)
	90 <= VITESSE < 100 km/h (340 <= R < 440 m)
	100 km/h <= VITESSE (440 m <= R)

LÉGENDE	
LONGUEUR DES COURBES HORIZONTALES	
	$L_{min} = 3 * VITESSE \text{ en km/h}$
	VITESSE < 50 km/h (L < 150 m)
	50 <= VITESSE < 60 km/h (150 <= L < 180 m)
	60 <= VITESSE < 70 km/h (180 <= L < 210 m)
	70 <= VITESSE < 80 km/h (210 <= L < 240 m)
	80 <= VITESSE < 90 km/h (240 <= L < 270 m)
	90 <= VITESSE < 100 km/h (270 <= L < 300 m)
	100 km/h <= VITESSE (300 <= L)

ANALYSE DES COURBES HORIZONTALES				
TYPE ou P.K.	CHAÎNAGE T.C.	LONG. (m)	RAYON (m)	SENS
Courbe	35+081,287	110,184	150	GAUCHE
Tangente	35+236,178	102,418	0	-
Km 516	35+310,000			
Courbe	35+360,919	248,587	1200	GAUCHE
Tangente	35+491,264	6,498	0	-
Tangente	35+589,560	98,296	0	-
Tangente	35+660,121	70,561	0	-
Courbe	35+855,434	384,662	900	GAUCHE
Tangente	36+192,969	148,187	0	-
Tangente	36+235,596	42,626	0	-
Courbe	36+301,925	131,104	350	GAUCHE
Tangente	36+612,610	245,91	0	-
Courbe	36+663,029	98,178	175	DROITE
Tangente	36+771,570	60,781	0	-
Tangente	36+851,869	80,299	0	-
Tangente	36+902,049	50,18	0	-
Tangente	36+927,480	25,432	0	-
Courbe	36+964,832	74,565	500	GAUCHE
Tangente	37+039,691	37,645	0	-
Courbe	37+081,774	83,384	250	DROITE
Tangente	37+159,503	36,428	0	-
Tangente	37+197,367	37,864	0	-
Courbe	37+269,322	136,904	180	GAUCHE
Km 518	37+290,000			
Tangente	37+366,267	31,996	0	-
Courbe	37+453,700	172,715	450	DROITE
Tangente	37+608,955	69,974	0	-
Courbe	37+698,477	170,745	230	DROITE
Tangente	37+802,467	22,767	0	-
Courbe	37+845,920	85,084	170	GAUCHE
Tangente	37+914,729	27,178	0	-
Courbe	37+978,435	117,835	125	DROITE
Tangente	38+040,429	7,866	0	-
Courbe	38+096,670	110,952	275	DROITE
Tangente	38+181,134	29,753	0	-
Courbe	38+222,462	81,509	200	DROITE
Tangente	38+287,876	25,234	0	-
Courbe	38+325,521	72,761	115	GAUCHE
Tangente	38+396,413	35,776	0	-
Courbe	38+423,621	54,391	750	GAUCHE
Tangente	38+501,268	50,463	0	-
Courbe	38+540,271	77,876	550	DROITE
Tangente	38+584,863	5,719	0	-
Tangente	38+640,822	55,959	0	-
Tangente	38+698,844	58,022	0	-
Courbe	38+708,022	18,344	200	DROITE
Tangente	38+737,201	20,014	0	-
Courbe	38+749,552	24,577	100	DROITE
Tangente	38+775,815	14,036	0	-
Courbe	38+804,752	51,432	45	GAUCHE
Tangente	38+828,723	1,476	0	-
Courbe	38+871,052	84,628	1250	GAUCHE
Tangente	38+948,478	35,129	0	-
Courbe	39+032,703	165,307	350	DROITE
Tangente	39+274,809	161,024	0	-
Km 520	39+296,000			
Courbe	39+377,806	205,671	1500	DROITE
Tangente	39+668,932	188,452	0	-
Tangente	39+732,035	63,103	0	-
Tangente	39+803,997	71,962	0	-
Courbe	39+858,221	106,795	250	DROITE
Tangente	40+003,982	93,19	0	-
Tangente	40+080,723	76,741	0	-
Courbe	40+140,789	108,571	102	GAUCHE
Tangente	40+233,827	44,534	0	-
Courbe	40+268,520	64,988	75	DROITE
Tangente	40+737,444	438,629	0	-
Courbe	40+737,627	0,366	30	DROITE
Tangente	41+053,802	315,992	0	-
Tangente	41+136,764	82,962	0	-
Tangente	41+209,049	72,285	0	-
Km 522	41+271,000			
Tangente	41+318,296	109,247	0	-
Tangente	41+353,428	35,132	0	-
Courbe	41+404,963	102,885	700	GAUCHE
Tangente	41+474,708	18,395	0	-
Courbe	41+498,801	48,038	250	DROITE
Tangente	41+531,975	9,229	0	-
Courbe	41+578,642	93,326	2750	GAUCHE
Tangente	41+625,996	0,696	0	-
Tangente	41+662,534	36,539	0	-

LÉGENDE	
RAYON DES COURBES HORIZONTALES	
	VITESSE < 50 km/h (R < 90 m)
	50 <= VITESSE < 60 km/h (90 <= R < 135 m)
	60 <= VITESSE < 70 km/h (135 <= R < 185 m)
	70 <= VITESSE < 80 km/h (185 <= R < 255 m)
	80 <= VITESSE < 90 km/h (255 <= R < 340 m)
	90 <= VITESSE < 100 km/h (340 <= R < 440 m)
	100 km/h <= VITESSE (440 m <= R)

LÉGENDE	
LONGUEUR DES COURBES HORIZONTALES	
	$L_{min} = 3 * VITESSE$ en km/h
	VITESSE < 50 km/h (L < 150 m)
	50 <= VITESSE < 60 km/h (150 <= L < 180 m)
	60 <= VITESSE < 70 km/h (180 <= L < 210 m)
	70 <= VITESSE < 80 km/h (210 <= L < 240 m)
	80 <= VITESSE < 90 km/h (240 <= L < 270 m)
	90 <= VITESSE < 100 km/h (270 <= L < 300 m)
	100 km/h <= VITESSE (300 <= L)

ANALYSE DES COURBES HORIZONTALES				
TYPE ou P.K.	CHAÎNAGE T.C.	LONG. (m)	RAYON (m)	SENS
Courbe	41+681,104	37,123	500	GAUCHE
Tangente	41+768,054	68,397	0	-
Tangente	41+995,109	227,055	0	-
Tangente	42+044,199	49,09	0	-
Courbe	42+070,680	52,886	400	DROITE
Tangente	42+125,323	28,238	0	-
Courbe	42+146,489	42,281	350	GAUCHE
Tangente	42+187,305	19,701	0	-
Courbe	42+211,065	47,512	1000	DROITE
Tangente	42+266,529	31,712	0	-
Tangente	42+294,256	27,726	0	-
Courbe	42+324,765	60,810	300	GAUCHE
Tangente	42+385,293	30,227	0	-
Courbe	42+419,675	68,655	500	DROITE
Tangente	42+589,089	135,14	0	-
Tangente	42+733,853	144,764	0	-
Tangente	42+797,121	63,268	0	-
Tangente	42+851,863	54,742	0	-
Courbe	42+869,627	34,365	55	GAUCHE
Tangente	42+886,713	0,486	0	-
Courbe	42+959,162	142,342	310	DROITE
Tangente	43+110,924	81,869	0	-
Courbe	43+167,721	112,265	300	DROITE
Tangente	43+261,018	37,829	0	-
Km 524	43+282,000			
Courbe	43+293,909	65,758	1000	GAUCHE
Tangente	43+347,886	21,11	0	-
Courbe	43+423,423	130,961	105	GAUCHE
Tangente	43+538,310	59,463	0	-
Tangente	43+592,399	54,089	0	-
Tangente	43+626,005	33,606	0	-
Courbe	43+681,378	106,365	155	GAUCHE
Tangente	43+783,020	50,65	0	-
Courbe	43+882,604	150,463	90	DROITE
Tangente	43+958,146	24,663	0	-
Courbe	44+038,014	159,136	750	DROITE
Tangente	44+166,505	49,223	0	-
Courbe	44+229,653	126,089	900	GAUCHE
Tangente	44+345,375	52,781	0	-
Courbe	44+370,205	49,526	275	DROITE
Tangente	44+418,429	23,528	0	-
Courbe	44+451,000	64,889	300	GAUCHE
Tangente	44+483,716	0,399	0	-
Courbe	44+499,940	32,014	80	GAUCHE
Tangente	44+542,493	26,763	0	-
Courbe	44+588,032	87,048	120	DROITE
Tangente	44+632,197	2,656	0	-
Courbe	44+682,939	99,740	220	DROITE
Tangente	44+867,454	135,517	0	-
Courbe	45+006,452	264,969	355	GAUCHE
Tangente	45+140,907	8,484	0	-
Courbe	45+245,163	194,146	215	GAUCHE
Km 526	45+275,000			
Tangente	45+343,547	8,494	0	-
Courbe	45+374,540	61,965	1000	GAUCHE
Tangente	45+427,385	21,873	0	-
Courbe	45+444,943	35,112	1000	DROITE
Tangente	45+557,772	95,275	0	-
Tangente	45+573,640	15,867	0	-
Courbe	45+612,299	76,711	250	GAUCHE
Tangente	45+695,832	45,481	0	-
Courbe	45+751,660	108,885	200	DROITE
Tangente	45+840,654	35,937	0	-
Courbe	45+937,697	187,712	300	DROITE
Tangente	46+108,170	79,804	0	-
Courbe	46+142,790	69,103	450	GAUCHE
Tangente	46+310,683	133,409	0	-
Courbe	46+372,241	121,798	340	GAUCHE
Tangente	46+508,562	76,081	0	-
Courbe	46+562,488	107,562	600	DROITE
Tangente	46+641,846	25,721	0	-
Courbe	46+687,333	86,959	120	GAUCHE
Tangente	46+772,777	43,972	0	-
Courbe	46+802,829	59,555	180	GAUCHE
Tangente	46+854,877	22,545	0	-
Courbe	46+892,901	75,645	300	DROITE
Tangente	46+958,055	27,534	0	-
Courbe	47+005,460	94,799	2500	DROITE
Tangente	47+084,090	31,236	0	-
Courbe	47+147,651	123,752	220	DROITE
Tangente	47+241,241	33,399	0	-

LÉGENDE	
RAYON DES COURBES HORIZONTALES	
	VITESSE < 50 km/h (R < 90 m)
	50 <= VITESSE < 60 km/h (90 <= R < 135 m)
	60 <= VITESSE < 70 km/h (135 <= R < 185 m)
	70 <= VITESSE < 80 km/h (185 <= R < 255 m)
	80 <= VITESSE < 90 km/h (255 <= R < 340 m)
	90 <= VITESSE < 100 km/h (340 <= R < 440 m)
	100 km/h <= VITESSE (440 m <= R)

LÉGENDE	
LONGUEUR DES COURBES HORIZONTALES	
	$L_{min} = 3 * VITESSE$ en km/h
	VITESSE < 50 km/h (L < 150 m)
	50 <= VITESSE < 60 km/h (150 <= L < 180 m)
	60 <= VITESSE < 70 km/h (180 <= L < 210 m)
	70 <= VITESSE < 80 km/h (210 <= L < 240 m)
	80 <= VITESSE < 90 km/h (240 <= L < 270 m)
	90 <= VITESSE < 100 km/h (270 <= L < 300 m)
	100 km/h <= VITESSE (300 <= L)

ANALYSE DES COURBES HORIZONTALES				
TYPE ou P.K.	CHAÎNAGE T.C.	LONG. (m)	RAYON (m)	SENS
Km 528	47+270,000			
Courbe	47+307,418	127,106	185	GAUCHE
Tangente	47+451,908	83,561	0	-
Courbe	47+535,720	157,389	185	DROITE
Tangente	47+655,880	46,583	0	-
Courbe	47+722,064	130,824	350	GAUCHE
Tangente	47+812,161	25,457	0	-
Courbe	47+855,076	85,541	425	DROITE
Tangente	47+933,664	35,962	0	-
Courbe	47+988,832	109,723	425	GAUCHE
Tangente	48+135,443	92,057	0	-
Courbe	48+201,765	131,387	390	GAUCHE
Tangente	48+328,720	61,889	0	-
Courbe	48+377,352	97,246	2000	DROITE
Tangente	48+462,117	36,151	0	-
Courbe	48+503,150	81,750	380	GAUCHE
Tangente	48+600,139	56,272	0	-
Courbe	48+672,439	143,906	600	GAUCHE
Tangente	48+770,510	26,465	0	-
Courbe	48+864,946	188,732	2000	DROITE
Tangente	48+999,239	39,997	0	-
Courbe	49+059,510	120,519	2500	DROITE
Tangente	49+137,543	17,785	0	-
Courbe	49+212,739	150,159	1100	DROITE
Km 530	49+248,000			
Tangente	49+370,837	83,135	0	-
Courbe	49+415,028	88,228	610	GAUCHE
Tangente	49+482,156	23,091	0	-
Courbe	49+514,298	64,274	1500	DROITE
Tangente	49+579,540	33,11	0	-
Courbe	49+641,410	123,671	1500	GAUCHE
Tangente	49+723,364	20,153	0	-
Courbe	49+756,208	63,834	110	DROITE
Tangente	49+787,856	0,659	0	-
Courbe	49+816,360	51,444	48	DROITE
Tangente	49+855,566	16,266	0	-
Courbe	49+895,140	78,272	215	GAUCHE
Tangente	49+958,143	24,305	0	-
Courbe	50+022,008	127,556	1000	DROITE
Tangente	50+150,195	64,496	0	-
Courbe	50+199,013	97,421	600	GAUCHE
Tangente	50+333,960	86,344	0	-
Tangente	50+400,100	66,14	0	-
Courbe	50+472,390	134,728	150	DROITE
Tangente	50+574,789	39,961	0	-
Courbe	50+625,561	100,801	340	GAUCHE
Tangente	50+723,932	48,343	0	-
Courbe	50+840,082	150,691	76	GAUCHE
Tangente	51+023,853	149,23	0	-
Tangente	51+069,249	45,397	0	-
Courbe	51+140,460	131,751	140	DROITE
Km 532	51+203,000			
Tangente	51+296,620	95,62	0	-
Courbe	51+351,659	99,769	95	GAUCHE
Tangente	51+415,624	19,234	0	-
Courbe	51+433,590	35,928	1000	GAUCHE
Tangente	51+530,578	79,027	0	-
Courbe	51+581,039	94,079	105	DROITE
Tangente	51+649,811	25,155	0	-
Courbe	51+700,912	102,139	1200	DROITE
Tangente	51+800,391	48,441	0	-
Tangente	51+932,557	132,166	0	-
Courbe	52+010,209	149,297	220	GAUCHE
Tangente	52+199,921	118,067	0	-
Tangente	52+412,614	212,693	0	-
Tangente	52+492,016	79,402	0	-
Courbe	52+530,779	76,773	225	DROITE
Tangente	52+570,917	2,128	0	-
Courbe	52+602,580	61,506	105	DROITE
Tangente	52+637,670	5,247	0	-
Courbe	52+699,803	123,282	400	DROITE
Tangente	52+845,826	84,874	0	-
Courbe	52+893,620	95,569	2000	GAUCHE
Tangente	52+997,424	56,029	0	-
Courbe	53+008,567	22,221	120	DROITE
Tangente	53+112,064	92,419	0	-
Km 534	53+160,000			
Courbe	53+185,875	145,159	325	GAUCHE
Tangente	53+264,066	6,843	0	-
Courbe	53+316,662	104,315	330	GAUCHE
Tangente	53+422,804	54,423	0	-
Tangente	53+529,998	107,194	0	-
Courbe	53+605,245	149,993	750	DROITE
Tangente	53+721,363	41,373	0	-

LÉGENDE	
RAYON DES COURBES HORIZONTALES	
	VITESSE < 50 km/h (R < 90 m)
	50 <= VITESSE < 60 km/h (90 <= R < 135 m)
	60 <= VITESSE < 70 km/h (135 <= R < 185 m)
	70 <= VITESSE < 80 km/h (185 <= R < 255 m)
	80 <= VITESSE < 90 km/h (255 <= R < 340 m)
	90 <= VITESSE < 100 km/h (340 <= R < 440 m)
	100 km/h <= VITESSE (440 m <= R)

LÉGENDE	
LONGUEUR DES COURBES HORIZONTALES	
$L_{min} = 3 * VITESSE$ en km/h	
	VITESSE < 50 km/h (L < 150 m)
	50 <= VITESSE < 60 km/h (150 <= L < 180 m)
	60 <= VITESSE < 70 km/h (180 <= L < 210 m)
	70 <= VITESSE < 80 km/h (210 <= L < 240 m)
	80 <= VITESSE < 90 km/h (240 <= L < 270 m)
	90 <= VITESSE < 100 km/h (270 <= L < 300 m)
	100 km/h <= VITESSE (300 <= L)

ANALYSE DES COURBES HORIZONTALES				
TYPE ou P.K.	CHAÎNAGE T.C.	LONG. (m)	RAYON (m)	SENS
Courbe	53+767,344	91,252	300	GAUCHE
Tangente	53+843,679	31,064	0	-
Courbe	53+866,738	45,760	150	DROITE
Tangente	53+914,564	25,125	0	-
Courbe	53+952,015	64,913	52	GAUCHE
Tangente	53+982,482	3,004	0	-
Courbe	54+016,332	67,197	225	GAUCHE
Tangente	54+055,790	6,111	0	-
Courbe	54+093,988	76,294	600	GAUCHE
Tangente	54+164,047	31,964	0	-
Courbe	54+195,669	63,112	400	DROITE
Tangente	54+253,547	26,388	0	-
Courbe	54+285,851	64,555	650	GAUCHE
Tangente	54+345,934	27,832	0	-
Courbe	54+387,681	82,962	300	DROITE
Tangente	54+503,443	74,547	0	-
Courbe	54+553,681	99,340	270	GAUCHE
Tangente	54+624,967	22,185	0	-
Courbe	54+636,656	23,365	300	GAUCHE
Tangente	54+727,702	79,37	0	-
Courbe	54+808,147	154,517	225	DROITE
Tangente	54+902,308	20,089	0	-
Courbe	54+933,271	61,873	600	DROITE
Tangente	54+978,662	14,482	0	-
Courbe	54+998,433	39,541	1500	GAUCHE
Tangente	55+037,659	19,456	0	-
Courbe	55+117,491	157,123	360	DROITE
Km 536	55+152,000			
Tangente	55+285,948	91,166	0	-
Courbe	55+352,406	132,791	1250	GAUCHE
Tangente	55+502,335	83,597	0	-
Tangente	55+610,908	108,573	0	-
Tangente	55+645,958	35,05	0	-
Courbe	55+688,806	73,807	58	DROITE
Tangente	55+787,811	68,046	0	-
Courbe	55+810,282	44,940	2000	GAUCHE
Tangente	55+911,093	78,342	0	-
Courbe	55+950,999	74,033	80	DROITE
Tangente	55+994,472	9,346	0	-
Courbe	56+047,654	106,035	550	GAUCHE
Tangente	56+148,859	48,352	0	-
Courbe	56+244,635	191,350	1700	DROITE
Tangente	56+455,938	115,729	0	-
Courbe	56+535,080	154,260	280	GAUCHE
Tangente	56+649,415	39,217	0	-
Courbe	56+707,572	115,951	600	DROITE
Tangente	56+917,358	151,991	0	-
Courbe	56+959,830	84,913	1250	GAUCHE
Km 538	57+055,000			
Tangente	57+214,395	212,125	0	-
Courbe	57+274,417	119,472	500	DROITE
Tangente	57+385,683	51,815	0	-
Courbe	57+425,759	80,085	800	GAUCHE
Tangente	57+566,213	100,445	0	-
Courbe	57+635,166	137,809	1500	GAUCHE
Tangente	57+743,815	39,793	0	-
Courbe	57+778,642	69,575	600	DROITE
Tangente	57+841,665	28,274	0	-
Courbe	57+918,770	154,157	2400	GAUCHE
Tangente	58+017,120	21,298	0	-
Courbe	58+028,736	23,232	1500	DROITE
Tangente	58+083,615	43,263	0	-
Courbe	58+093,766	20,300	800	DROITE
Tangente	58+136,250	32,335	0	-
Courbe	58+155,270	38,037	1250	GAUCHE
Tangente	58+231,469	57,182	0	-
Courbe	58+281,079	97,946	250	GAUCHE
Tangente	58+368,408	38,992	0	-
Courbe	58+451,688	166,177	1000	GAUCHE
Tangente	58+619,916	85,331	0	-
Courbe	58+699,891	159,866	2000	DROITE
Tangente	58+852,460	72,678	0	-
Tangente	58+951,469	99,009	0	-
Km 540	59+044,000			
Tangente	59+103,174	151,705	0	-
Courbe	59+116,975	27,601	2000	GAUCHE
Tangente	59+186,666	55,891	0	-
Tangente	59+244,478	57,813	0	-
Courbe	59+297,025	104,269	340	DROITE
Tangente	59+442,413	93,666	0	-
Tangente	59+504,997	62,585	0	-
Courbe	59+569,229	126,672	310	GAUCHE
Tangente	59+670,188	38,519	0	-
Courbe	59+706,511	72,606	900	DROITE
Tangente	59+807,737	64,943	0	-

LÉGENDE	
RAYON DES COURBES HORIZONTALES	
	VITESSE < 50 km/h (R < 90 m)
	50 <= VITESSE < 60 km/h (90 <= R < 135 m)
	60 <= VITESSE < 70 km/h (135 <= R < 185 m)
	70 <= VITESSE < 80 km/h (185 <= R < 255 m)
	80 <= VITESSE < 90 km/h (255 <= R < 340 m)
	90 <= VITESSE < 100 km/h (340 <= R < 440 m)
	100 km/h <= VITESSE (440 m <= R)

LÉGENDE	
LONGUEUR DES COURBES HORIZONTALES	
	$L_{min} = 3 * VITESSE$ en km/h
	VITESSE < 50 km/h (L < 150 m)
	50 <= VITESSE < 60 km/h (150 <= L < 180 m)
	60 <= VITESSE < 70 km/h (180 <= L < 210 m)
	70 <= VITESSE < 80 km/h (210 <= L < 240 m)
	80 <= VITESSE < 90 km/h (240 <= L < 270 m)
	90 <= VITESSE < 100 km/h (270 <= L < 300 m)
	100 km/h <= VITESSE (300 <= L)

ANALYSE DES COURBES HORIZONTALES				
TYPE ou P.K.	CHAÎNAGE T.C.	LONG. (m)	RAYON (m)	SENS
Courbe	59+878,822	142,064	1500	GAUCHE
Tangente	59+961,472	11,671	0	-
Courbe	60+035,936	145,317	270	DROITE
Tangente	60+143,674	36,886	0	-
Courbe	60+200,761	113,954	750	DROITE
Tangente	60+280,306	22,678	0	-
Courbe	60+418,198	275,215	1750	GAUCHE
Tangente	60+840,800	285,279	0	-
Courbe	60+908,103	130,263	210	DROITE
Tangente	60+994,958	23,895	0	-
Courbe	61+010,340	30,719	230	DROITE
Tangente	61+050,073	24,397	0	-
Km 542	61+056,000			
Courbe	61+101,779	102,218	275	DROITE
Tangente	61+216,074	63,782	0	-
Tangente	61+307,898	91,824	0	-
Tangente	61+378,094	70,196	0	-
Courbe	61+445,134	133,880	1000	GAUCHE
Tangente	61+555,338	43,364	0	-
Courbe	61+702,478	290,820	775	DROITE
Tangente	61+959,474	113,316	0	-
Courbe	62+070,717	218,921	500	GAUCHE
Tangente	62+237,946	59,551	0	-
Courbe	62+334,188	191,994	1100	DROITE
Tangente	62+517,944	88,004	0	-
Tangente	62+688,708	170,764	0	-
Tangente	62+811,264	122,556	0	-
Km 544	62+830,000			
Tangente	62+932,034	120,769	0	-
Tangente	63+155,254	223,22	0	-
Tangente	63+578,506	423,251	0	-
Tangente	63+811,973	233,468	0	-
Courbe	63+938,801	248,417	500	DROITE
Tangente	64+094,326	33,936	0	-
Courbe	64+178,034	166,808	800	GAUCHE
Tangente	64+353,696	92,562	0	-
Courbe	64+398,504	87,377	160	GAUCHE
Tangente	64+523,319	82,246	0	-
Courbe	64+596,819	142,972	250	DROITE
Km 546	64+713,000			
Tangente	64+833,382	167,092	0	-
Courbe	64+881,323	94,405	220	GAUCHE
Tangente	64+959,771	31,984	0	-
Courbe	64+996,248	72,796	450	DROITE
Tangente	65+061,369	28,802	0	-
Courbe	65+110,899	98,934	800	GAUCHE
Tangente	65+167,335	7,032	0	-
Courbe	65+220,093	103,167	200	DROITE
Tangente	65+308,627	38,125	0	-
Courbe	65+387,018	155,223	450	GAUCHE
Tangente	65+554,508	90,657	0	-
Courbe	65+659,641	210,143	2500	DROITE
Tangente	65+840,770	76,119	0	-
Courbe	65+896,785	112,016	3000	GAUCHE
Tangente	66+055,814	103,028	0	-
Tangente	66+120,555	64,741	0	-
Courbe	66+174,893	105,544	180	DROITE
Tangente	66+289,594	63,496	0	-
Courbe	66+333,628	78,612	70	GAUCHE
Km 548	66+590,000			
Tangente	66+891,361	523,155	0	-
Tangente	66+921,932	30,571	0	-
Courbe	67+117,994	378,136	580	GAUCHE
Tangente	67+569,382	269,314	0	-
Tangente	68+102,143	532,76	0	-
Tangente	68+407,824	305,681	0	-
Km 550	68+586,000			
Tangente	68+989,448	581,624	0	-
Tangente	69+518,637	529,189	0	-
Tangente	69+739,979	221,342	0	-
Tangente	69+854,347	114,369	0	-
Courbe	70+020,437	323,662	585	DROITE
Tangente	70+242,567	64,557	0	-
Km 552	70+575,000			
Tangente	70+851,049	608,482	0	-
Tangente	70+895,047	43,998	0	-
Courbe	71+129,016	437,126	495	GAUCHE
Tangente	71+340,357	8,185	0	-
Courbe	71+356,220	31,722	1000	GAUCHE
Tangente	72+004,920	632,84	0	-
Courbe	72+165,418	320,692	3000	DROITE
Tangente	72+429,014	103,402	0	-
Km 554	72+590,000			
Tangente	72+746,833	317,819	0	-
Tangente	72+871,919	125,086	0	-

LÉGENDE	
RAYON DES COURBES HORIZONTALES	
	VITESSE < 50 km/h (R < 90 m)
	50 <= VITESSE < 60 km/h (90 <= R < 135 m)
	60 <= VITESSE < 70 km/h (135 <= R < 185 m)
	70 <= VITESSE < 80 km/h (185 <= R < 255 m)
	80 <= VITESSE < 90 km/h (255 <= R < 340 m)
	90 <= VITESSE < 100 km/h (340 <= R < 440 m)
	100 km/h <= VITESSE (440 m <= R)

LÉGENDE	
LONGUEUR DES COURBES HORIZONTALES	
$L_{min} = 3 * VITESSE$ en km/h	
	VITESSE < 50 km/h (L < 150 m)
	50 <= VITESSE < 60 km/h (150 <= L < 180 m)
	60 <= VITESSE < 70 km/h (180 <= L < 210 m)
	70 <= VITESSE < 80 km/h (210 <= L < 240 m)
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	90 <= VITESSE < 100 km/h (270 <= L < 300 m)
	100 km/h <= VITESSE (300 <= L)

ANALYSE DES COURBES HORIZONTALES				
TYPE ou P.K.	CHAÎNAGE T.C.	LONG. (m)	RAYON (m)	SENS
Tangente	73+099,632	227,714	0	-
Tangente	73+678,538	578,906	0	-
Tangente	73+816,838	138,299	0	-
Courbe	74+049,552	455,013	880	DROITE
Tangente	74+460,796	188,946	0	-
Km 556	74+585,000			
Tangente	75+228,022	767,226	0	-
Tangente	76+019,848	791,826	0	-
Km 558	76+585,000			
Tangente	77+032,419	1012,571	0	-
Courbe	77+299,718	486,076	470	DROITE
Tangente	78+401,131	882,636	0	-
Km 560	78+536,000			
Tangente	79+633,602	1232,47	0	-
Courbe	79+903,881	489,103	462	GAUCHE
Km 562	80+595,000			
Tangente	80+775,262	652,558	0	-
Tangente	82+188,900	1413,638	0	-
Tangente	82+489,771	300,871	0	-
Km 564	82+696,000			
Tangente	83+040,145	550,374	0	-
Tangente	83+555,172	515,027	0	-
Courbe	83+583,828	57,296	1000	GAUCHE
Tangente	83+622,039	9,571	0	-
Courbe	83+732,807	214,364	345	GAUCHE
Tangente	83+847,886	11,483	0	-
Courbe	83+960,797	218,638	355	GAUCHE
Tangente	84+111,558	45,034	0	-
Tangente	84+267,076	155,519	0	-
Tangente	84+364,308	97,232	0	-
Km 566	84+596,000			
Courbe	84+657,842	583,911	2300	DROITE
Tangente		90,509	0	-

LÉGENDE	
RAYON DES COURBES HORIZONTALES	
	VITESSE < 50 km/h (R < 90 m)
	50 <= VITESSE < 60 km/h (90 <= R < 135 m)
	60 <= VITESSE < 70 km/h (135 <= R < 185 m)
	70 <= VITESSE < 80 km/h (185 <= R < 255 m)
	80 <= VITESSE < 90 km/h (255 <= R < 340 m)
	90 <= VITESSE < 100 km/h (340 <= R < 440 m)
	100 km/h <= VITESSE (440 m <= R)

LÉGENDE	
LONGUEUR DES COURBES HORIZONTALES	
$L_{min} = 3 * VITESSE$ en km/h	
	VITESSE < 50 km/h (L < 150 m)
	50 <= VITESSE < 60 km/h (150 <= L < 180 m)
	60 <= VITESSE < 70 km/h (180 <= L < 210 m)
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	90 <= VITESSE < 100 km/h (270 <= L < 300 m)
	100 km/h <= VITESSE (300 <= L)

ANALYSE DES COURBES VERTICALES				
CHAÎNAGE DU P.I.	LONG. COURBE	FACTEUR K	PENTE	TYPE
-2+108,429			1,37%	
-2+075,166	40	21,438	-0,49%	CONVEXE
-1+975,354	40	60,415	-1,15%	CONVEXE
-1+806,899	120	43,877	1,58%	CONCAVE
-1+624,215	60	36,312	-0,07%	CONVEXE
-1+337,478	50	138,611	-0,43%	CONVEXE
-1+258,351	70	124,58	0,13%	CONCAVE
-1+142,677	75	51,028	-1,34%	CONVEXE
-1+035,448	40	42,596	-0,40%	CONCAVE
-0+932,971	60	89,613	0,27%	CONCAVE
-0+800,000	40	94,677	0,69%	CONCAVE
-0+733,717	80	68,471	-0,48%	CONVEXE
-0+535,980	140	68,61	-2,52%	CONVEXE
-0+383,513	90	20,742	1,82%	CONCAVE
KM-480 -0+372				
-0+261,326	40	32,876	3,04%	CONCAVE
-0+204,475	40	34,515	1,88%	CONVEXE
-0+111,116	80	26,694	4,88%	CONCAVE
-0+007,582	40	44,014	5,78%	CONCAVE
0+071,699	30	15,443	3,84%	CONVEXE
0+133,987	30	6,876	-0,52%	CONVEXE
0+181,546	30	18,283	-2,16%	CONVEXE
0+219,468	20	4,523	-6,58%	CONVEXE
0+264,668	50	11,665	-2,30%	CONCAVE
0+339,131	40	11,597	1,15%	CONCAVE
0+397,412	60	25,451	-1,21%	CONVEXE
0+470,453	20	26,801	-0,46%	CONCAVE
0+517,200	40	13,541	-3,41%	CONVEXE
0+565,297	40	23,821	-1,73%	CONCAVE
0+611,702	30	7,084	2,50%	CONCAVE
0+668,943	50	6,576	-5,10%	CONVEXE
0+749,974	70	14,2	-0,17%	CONCAVE
0+818,019	30	11,512	2,43%	CONCAVE
0+844,163	20	15,275	1,12%	CONVEXE
0+883,155	30	6,085	-3,81%	CONVEXE
0+942,231	40	12,962	-0,72%	CONCAVE
0+996,319	30	17,264	1,02%	CONCAVE
1+036,353	20	15,155	-0,30%	CONVEXE
1+062,418	30	17,159	1,45%	CONCAVE
1+111,338	40	18,122	-0,76%	CONVEXE
1+173,273	20	49,949	-0,36%	CONCAVE
1+212,535	30	39,517	-1,12%	CONVEXE
1+276,059	60	42,382	0,29%	CONCAVE
1+339,482	30	11,765	-2,26%	CONVEXE
1+389,193	30	10,875	0,50%	CONCAVE
1+452,335	40	12,494	3,71%	CONCAVE
KM-482 1+480				
1+516,084	54	12,855	-0,50%	CONVEXE
1+595,797	40	10,303	-4,38%	CONVEXE
1+673,186	60	17,719	-0,99%	CONCAVE
1+726,934	30	32,312	-0,06%	CONCAVE
1+802,867	30	8,668	3,32%	CONCAVE
1+883,118	60	25	0,92%	CONVEXE
1+967,072	50	11,057	-3,60%	CONVEXE
2+020,427	30	6,156	1,27%	CONCAVE
2+072,522	60	34,892	-0,45%	CONVEXE
2+196,612	120	19,477	5,71%	CONCAVE
2+630,774	120	44,497	3,02%	CONVEXE
2+835,840	60	6,788	-5,82%	CONVEXE
2+874,082	16	4,303	-9,54%	CONVEXE
2+931,070	50	7,388	-2,77%	CONCAVE
2+993,169	50	14,96	-6,12%	CONVEXE
3+043,489	50	15,056	-2,80%	CONCAVE
3+103,432	30	5,492	-8,26%	CONVEXE
3+163,541	40	4,849	-0,01%	CONCAVE
3+214,740	50	22,169	2,25%	CONCAVE
3+247,916	16	14,817	1,17%	CONVEXE
3+300,844	40	5,805	8,06%	CONCAVE
3+396,322	48	3,092	-7,47%	CONVEXE
3+430,352	18	3,261	-12,99%	CONVEXE
3+476,209	65	4,107	2,84%	CONCAVE
3+527,378	30	15,015	0,84%	CONVEXE
3+567,092	40	10,612	-2,93%	CONVEXE
KM-484 3+606				
3+613,373	40	20,295	-4,90%	CONVEXE
3+662,592	56	10,995	0,20%	CONCAVE
3+716,493	30	30,718	1,17%	CONCAVE
3+746,494	30	14,139	-0,95%	CONVEXE
3+831,787	40	44,555	-0,05%	CONCAVE
3+871,209	30	15,598	1,87%	CONCAVE
3+905,119	30	12,41	-0,54%	CONVEXE
3+944,947	44	11,655	3,23%	CONCAVE
3+994,108	46	11,858	-0,65%	CONVEXE
4+076,100	40	5,145	7,13%	CONCAVE
4+106,453	20	7,832	9,68%	CONCAVE

LÉGENDE	
FACTEUR K DES COURBES VERTICALES	
	VITESSE < 50 km/h (K < 8 (convexe) ; K < 12 (concave)
	50 <= VITESSE < 60 km/h (8 <= K < 13 (convexe) ; 12 <= K < 17 (concave)
	60 <= VITESSE < 70 km/h (13 <= K < 22 (convexe) ; 17 <= K < 24 (concave)
	70 <= VITESSE < 80 km/h (22 <= K < 36 (convexe) ; 24 <= K < 32 (concave)
	80 <= VITESSE < 90 km/h (36 <= K < 54 (convexe) ; 32 <= K < 40 (concave)
	90 <= VITESSE < 100 km/h (54 <= K < 74 (convexe) ; 40 <= K < 49 (concave)
	100 km/h <= VITESSE (74 <= K (convexe) ; 49 <= K (concave)

LÉGENDE	
LONGUEUR DES COURBES VERTICALES	
L _{min} (en m) = VITESSE (en km/h)	
	VITESSE < 50 km/h (L < 50 m)
	50 <= VITESSE < 60 km/h (50 <= L < 60 m)
	60 <= VITESSE < 70 km/h (60 <= L < 70 m)
	70 <= VITESSE < 80 km/h (70 <= L < 80 m)
	80 <= VITESSE < 90 km/h (80 <= L < 90 m)
	90 <= VITESSE < 100 km/h (90 <= L < 90 m)
	100 km/h <= VITESSE (100 m <= L)

ANALYSE DES COURBES VERTICALES				
CHAÎNAGE DU P.I.	LONG. COURBE	FACTEUR K	PENTE	TYPE
4+160,286	55	4,797	-1,79%	CONVEXE
4+239,205	60	183,314	-2,11%	CONVEXE
4+351,412	70	50,936	-0,74%	CONCAVE
4+410,221	40	27,408	-2,20%	CONVEXE
4+465,744	40	26,833	-3,69%	CONVEXE
4+505,286	36	4,309	4,66%	CONCAVE
4+555,373	40	112,701	5,02%	CONCAVE
4+594,984	36	9,735	8,72%	CONCAVE
4+651,967	54	3,221	-8,05%	CONVEXE
4+689,208	20	5,574	-11,64%	CONVEXE
4+719,178	35	12,843	-8,91%	CONCAVE
4+764,627	40	5,775	-1,99%	CONCAVE
4+804,445	30	25,72	-0,82%	CONCAVE
4+831,391	20	10,275	-2,77%	CONVEXE
4+881,054	40	3,062	10,30%	CONCAVE
4+930,997	35	6,33	4,77%	CONVEXE
4+994,939	66	7,46	-4,08%	CONVEXE
5+066,617	50	22,755	-1,88%	CONCAVE
5+109,942	30	57,332	-2,41%	CONVEXE
5+176,631	30	12,54	-4,80%	CONVEXE
5+227,162	40	11,222	-1,23%	CONCAVE
5+273,736	35	17,489	-3,24%	CONVEXE
5+316,940	30	4,289	3,76%	CONCAVE
5+365,221	40	17,134	1,42%	CONVEXE
5+428,532	30	9,297	-1,80%	CONVEXE
5+466,047	30	11,094	0,90%	CONCAVE
KM-486 5+485				
5+506,610	40	24,438	-0,73%	CONVEXE
5+547,726	40	28,548	0,67%	CONCAVE
5+595,878	30	21,179	2,08%	CONCAVE
5+632,937	30	6,768	-2,35%	CONVEXE
5+675,207	40	33,812	-1,17%	CONCAVE
5+708,222	20	9,587	-3,25%	CONVEXE
5+738,846	40	23,493	-1,55%	CONCAVE
5+778,402	30	20,938	-0,12%	CONCAVE
5+865,683	40	70,706	-0,68%	CONVEXE
5+923,258	60	67,069	0,21%	CONCAVE
5+981,744	50	69,19	-0,51%	CONVEXE
6+071,632	40	41,504	0,45%	CONCAVE
6+133,647	60	149,157	0,05%	CONVEXE
6+281,117	40	13,863	2,94%	CONCAVE
6+352,124	20	4,328	-1,68%	CONVEXE
6+400,336	30	79,684	-1,31%	CONCAVE
6+467,933	60	272,596	-1,53%	CONVEXE
6+524,090	50	43,883	-0,39%	CONCAVE
6+568,110	30	36,636	0,43%	CONCAVE
6+606,677	40	75,969	-0,10%	CONVEXE
6+687,829	45	36,39	-1,33%	CONVEXE
6+729,173	30	15,922	0,55%	CONCAVE
6+797,906	50	40,187	-0,69%	CONVEXE
6+835,147	20	24,193	0,13%	CONCAVE
6+927,004	40	29,534	1,49%	CONCAVE
6+983,782	40	20,872	-0,43%	CONVEXE
7+029,086	40	39,33	0,59%	CONCAVE
7+076,809	55	44,939	-0,64%	CONVEXE
7+184,672	30	66,837	-0,19%	CONCAVE
7+276,506	40	50,487	0,61%	CONCAVE
7+350,259	70	68,691	-0,41%	CONVEXE
7+430,650	60	51,749	0,75%	CONCAVE
7+487,049	50	34,605	-0,70%	CONVEXE
KM-488 7+500				
7+536,018	30	40,232	0,05%	CONCAVE
7+584,665	30	14,137	2,17%	CONCAVE
7+644,127	80	32,135	-0,32%	CONVEXE
7+766,612	80	24,976	2,88%	CONCAVE
7+960,401	80	31,968	0,38%	CONVEXE
8+053,956	80	40,477	2,36%	CONCAVE
8+122,095	30	13,342	0,11%	CONVEXE
8+229,070	36	4,382	-8,11%	CONVEXE
8+313,573	50	5,659	0,73%	CONCAVE
8+389,730	50	46,735	-0,34%	CONVEXE
8+438,688	40	9,385	3,92%	CONCAVE
8+492,555	40	16,85	1,55%	CONVEXE
8+521,840	15	13,916	2,62%	CONCAVE
8+626,041	45	8,456	-2,70%	CONVEXE
8+736,505	60	13,81	1,65%	CONCAVE
8+814,178	80	45,742	-0,10%	CONVEXE
8+996,328	60	20,24	-3,07%	CONVEXE
9+060,919	50	15,218	-6,35%	CONVEXE
9+107,903	40	5,945	0,38%	CONCAVE

LÉGENDE	
FACTEUR K DES COURBES VERTICALES	
VITESSE < 50 km/h (K < 8 (convexe) ; K < 12 (concave)	
50 <= VITESSE < 60 km/h (8 <= K < 13 (convexe) ; 12 <= K < 17 (concave)	
60 <= VITESSE < 70 km/h (13 <= K < 22 (convexe) ; 17 <= K < 24 (concave)	
70 <= VITESSE < 80 km/h (22 <= K < 36 (convexe) ; 24 <= K < 32 (concave)	
80 <= VITESSE < 90 km/h (36 <= K < 54 (convexe) ; 32 <= K < 40 (concave)	
90 <= VITESSE < 100 km/h (54 <= K < 74 (convexe) ; 40 <= K < 49 (concave)	
100 km/h <= VITESSE (74 <= K (convexe) ; 49 <= K (concave)	

LÉGENDE	
LONGUEUR DES COURBES VERTICALES	
L _{min} (en m) = VITESSE (en km/h)	
VITESSE < 50 km/h (L < 50 m)	
50 <= VITESSE < 60 km/h (50 <= L < 60 m)	
60 <= VITESSE < 70 km/h (60 <= L < 70 m)	
70 <= VITESSE < 80 km/h (70 <= L < 80 m)	
80 <= VITESSE < 90 km/h (80 <= L < 90 m)	
90 <= VITESSE < 100 km/h (90 <= L < 90 m)	
100 km/h <= VITESSE (100 m <= L)	

ANALYSE DES COURBES VERTICALES				
CHAÎNAGE DU P.I.	LONG. COURBE	FACTEUR K	PENTE	TYPE
9+223,573	30	13,694	2,57%	CONCAVE
9+265,621	30	13,564	0,36%	CONVEXE
9+294,204	20	5,729	3,85%	CONCAVE
9+324,532	30	3,814	-4,02%	CONVEXE
9+361,544	30	18,445	-2,39%	CONCAVE
9+412,273	30	27,542	-1,30%	CONCAVE
9+454,057	50	29,694	0,38%	CONCAVE
KM-490 9+469				
9+555,912	70	89,4	-0,40%	CONVEXE
9+610,764	38	42,154	0,50%	CONCAVE
9+669,319	50	39,107	-0,78%	CONVEXE
9+722,779	40	11,817	2,61%	CONCAVE
9+779,591	60	14,102	-1,65%	CONVEXE
9+829,895	40	23,828	0,03%	CONCAVE
9+868,986	30	13,087	2,32%	CONCAVE
9+962,009	147,38	56,387	-0,29%	CONVEXE
10+080,026	48	66,628	0,43%	CONCAVE
10+436,488	70,35	54,142	-0,87%	CONVEXE
10+580,237	78,02	40,034	1,08%	CONCAVE
10+679,379	93,51	55,035	-0,62%	CONVEXE
10+865,231	87,36	66,704	0,69%	CONCAVE
11+001,644	86,41	90,056	-0,27%	CONVEXE
11+149,960	101,25	89,62	0,86%	CONCAVE
11+331,339	42	38,185	-0,24%	CONVEXE
11+400,558	50	50,576	0,75%	CONCAVE
11+453,443	50	79,083	0,12%	CONVEXE
KM-492 11+467				
11+586,430	80	42,424	-1,77%	CONVEXE
11+662,398	50	21,802	0,52%	CONCAVE
11+740,609	40	24,929	2,13%	CONCAVE
11+778,848	30	17,47	0,41%	CONVEXE
11+823,808	25	20,53	-0,81%	CONVEXE
11+848,613	24	6,432	2,92%	CONCAVE
11+891,693	40	11,039	-0,70%	CONVEXE
11+971,265	60	55,883	0,37%	CONCAVE
12+081,686	30	7,695	-3,52%	CONVEXE
12+130,608	40	6,366	2,76%	CONCAVE
12+207,648	70	14,949	-1,92%	CONVEXE
12+269,797	50	29,21	-0,21%	CONCAVE
12+322,381	45	12,142	-3,92%	CONVEXE
12+360,469	30	15,906	-2,03%	CONCAVE
12+399,510	40	20,673	-3,97%	CONVEXE
12+447,745	50	18,484	-1,26%	CONCAVE
12+505,000	40	31,72	0,00%	CONCAVE
12+559,777	30	17,502	1,71%	CONCAVE
12+595,890	42	17,618	-0,67%	CONVEXE
12+655,148	50	7,098	6,37%	CONCAVE
12+717,899	50	13,798	2,75%	CONVEXE
12+792,027	60	18,306	-0,53%	CONVEXE
12+905,303	40	15,079	2,13%	CONCAVE
12+951,217	40	6,989	-3,60%	CONVEXE
13+009,838	40	9,689	0,53%	CONCAVE
13+055,062	40	32,235	-0,71%	CONVEXE
13+116,312	40	14,373	2,07%	CONCAVE
13+167,693	30	13,259	-0,19%	CONVEXE
13+214,548	60	35,798	1,49%	CONCAVE
13+275,176	40	15,951	-1,02%	CONVEXE
13+336,648	60	79,401	-0,27%	CONCAVE
13+412,804	50	55,75	0,63%	CONCAVE
KM-494 13+415				
13+470,298	40	8,79	-3,92%	CONVEXE
13+537,371	58	6,422	5,11%	CONCAVE
13+593,671	30	5,106	-0,76%	CONVEXE
13+648,795	40	6,949	-6,52%	CONVEXE
13+705,578	40	5,26	1,09%	CONCAVE
13+757,257	40	37,475	0,02%	CONVEXE
13+806,802	50	9,278	5,41%	CONCAVE
13+862,248	40	22,358	3,62%	CONVEXE
13+897,571	30	8,216	-0,03%	CONVEXE
13+936,538	44	26,127	1,65%	CONCAVE
13+994,693	70	38,537	-0,17%	CONVEXE
14+061,078	40	19,295	1,91%	CONCAVE
14+115,290	30	5,33	-3,72%	CONVEXE
14+161,078	40	31,345	-2,45%	CONCAVE
14+218,862	40	15,844	0,08%	CONCAVE
14+304,668	70	29,073	2,49%	CONCAVE
14+401,010	90	24,089	-1,25%	CONVEXE
14+502,198	40	28,499	0,15%	CONCAVE
14+568,269	60	111,646	-0,38%	CONVEXE
14+617,873	30	93,82	-0,06%	CONCAVE
14+779,080	80	14,926	5,30%	CONCAVE
14+844,142	30	8,074	1,58%	CONVEXE
14+885,260	40	39,012	0,56%	CONVEXE
14+944,485	40	10,955	-3,10%	CONVEXE
14+991,808	40	9,055	1,32%	CONCAVE

LÉGENDE	
FACTEUR K DES COURBES VERTICALES	
	VITESSE < 50 km/h (K < 8 (convexe) ; K < 12 (concave)
	50 <= VITESSE < 60 km/h (8 <= K < 13 (convexe) ; 12 <= K < 17 (concave)
	60 <= VITESSE < 70 km/h (13 <= K < 22 (convexe) ; 17 <= K < 24 (concave)
	70 <= VITESSE < 80 km/h (22 <= K < 36 (convexe) ; 24 <= K < 32 (concave)
	80 <= VITESSE < 90 km/h (36 <= K < 54 (convexe) ; 32 <= K < 40 (concave)
	90 <= VITESSE < 100 km/h (54 <= K < 74 (convexe) ; 40 <= K < 49 (concave)
	100 km/h <= VITESSE (74 <= K (convexe) ; 49 <= K (concave)

LÉGENDE	
LONGUEUR DES COURBES VERTICALES	
L _{min} (en m) = VITESSE (en km/h)	
	VITESSE < 50 km/h (L < 50 m)
	50 <= VITESSE < 60 km/h (50 <= L < 60 m)
	60 <= VITESSE < 70 km/h (60 <= L < 70 m)
	70 <= VITESSE < 80 km/h (70 <= L < 80 m)
	80 <= VITESSE < 90 km/h (80 <= L < 90 m)
	90 <= VITESSE < 100 km/h (90 <= L < 90 m)
	100 km/h <= VITESSE (100 m <= L)

ANALYSE DES COURBES VERTICALES				
CHAÎNAGE DU P.I.	LONG. COURBE	FACTEUR K	PENTE	TYPE
15+041,062	50	40,06	0,07%	CONVEXE
15+110,350	40	9,802	-4,01%	CONVEXE
15+161,008	40	7,549	1,29%	CONCAVE
15+207,455	45	5,692	-6,61%	CONVEXE
15+298,946	50	7,366	0,17%	CONCAVE
15+357,643	60	95,468	-0,45%	CONVEXE
15+405,366	34	35,472	-1,41%	CONVEXE
KM-496 15+423				
15+443,577	40	12,303	1,84%	CONCAVE
15+482,693	36	18,134	-0,15%	CONVEXE
15+543,177	40	9,439	4,09%	CONCAVE
15+593,093	40	6,396	-2,16%	CONVEXE
15+645,003	40	20,978	-0,26%	CONCAVE
15+724,115	60	8,718	6,63%	CONCAVE
15+784,983	40	11,854	3,25%	CONVEXE
15+817,830	25	2,859	-5,49%	CONVEXE
15+862,328	30	3,351	3,46%	CONCAVE
15+897,470	30	3,409	-5,34%	CONVEXE
15+943,947	59	7,48	2,55%	CONCAVE
16+001,695	30	85,72	2,20%	CONVEXE
16+043,246	36	6,97	7,36%	CONCAVE
16+082,173	30	4,3	0,39%	CONVEXE
16+122,127	20	7,866	2,93%	CONCAVE
16+145,486	20	3,112	-3,50%	CONVEXE
16+172,604	25	8,397	-0,52%	CONCAVE
16+255,900	40	6,048	6,09%	CONCAVE
16+310,923	40	4,048	-3,79%	CONVEXE
16+355,450	30	3,947	3,81%	CONCAVE
16+424,780	30	9,055	0,50%	CONVEXE
16+460,636	30	7,816	4,34%	CONCAVE
16+500,958	40	9,771	0,24%	CONVEXE
16+568,694	50	43,301	1,40%	CONCAVE
16+626,263	40	34,316	0,23%	CONVEXE
16+741,871	50	38,12	-1,08%	CONVEXE
16+849,567	80	62,206	0,21%	CONCAVE
16+923,448	45	24,424	-1,64%	CONVEXE
16+969,678	40	8,806	2,91%	CONCAVE
17+010,474	40	14,176	0,09%	CONVEXE
17+077,119	80	46,643	1,80%	CONCAVE
17+145,094	40	13,821	-1,09%	CONVEXE
17+199,963	40	60,392	-1,76%	CONVEXE
17+254,865	55	16,591	1,56%	CONCAVE
17+312,846	30	6,2	-3,28%	CONVEXE
17+375,753	70	6,994	6,73%	CONCAVE
KM-498 17+393				
17+446,768	40	7,238	1,20%	CONCAVE
17+533,111	40	20,335	-0,76%	CONVEXE
17+578,941	40	31,003	0,53%	CONCAVE
17+620,157	40	34,155	-0,64%	CONVEXE
17+691,669	50	29,695	1,04%	CONCAVE
17+740,749	30	23,222	-0,25%	CONVEXE
17+795,742	50	4,884	9,98%	CONCAVE
17+855,827	50	6,01	1,66%	CONVEXE
17+895,778	29	22,53	0,38%	CONVEXE
17+937,915	40	20,578	2,32%	CONCAVE
18+005,898	40	23,997	0,65%	CONVEXE
18+093,171	80	42,71	2,53%	CONCAVE
18+215,037	40	25,084	0,93%	CONVEXE
18+267,570	40	14,415	3,71%	CONCAVE
18+316,066	40	12,078	0,40%	CONVEXE
18+390,367	40	5,593	7,55%	CONCAVE
18+428,819	30	2,887	-2,84%	CONVEXE
18+460,760	20	3,344	3,14%	CONCAVE
18+487,851	20	3,399	-2,75%	CONVEXE
18+537,105	45	6,589	4,08%	CONCAVE
18+578,794	30	18,607	5,69%	CONCAVE
18+606,521	14	10,212	4,32%	CONVEXE
18+642,900	55	6,923	-3,62%	CONVEXE
18+739,193	25	4,919	-8,70%	CONVEXE
18+783,377	35	3,972	0,11%	CONCAVE
18+852,595	40	22,616	-1,66%	CONVEXE
18+899,935	54	16,027	1,71%	CONCAVE
19+009,418	26	20,273	0,43%	CONVEXE
19+041,077	20	7,905	2,96%	CONCAVE
19+102,568	40	4,232	12,41%	CONCAVE
19+141,699	35	2,866	0,20%	CONVEXE
19+177,986	35	19,106	2,03%	CONCAVE
19+251,080	51	7,379	-4,88%	CONVEXE
19+316,148	28	7,119	-8,81%	CONVEXE
KM-500 19+350				
19+361,043	55	5,396	1,38%	CONCAVE
19+422,951	40	14,301	-1,42%	CONVEXE
19+480,627	20	4,849	2,71%	CONCAVE
19+551,768	69,617	33,76	4,77%	CONCAVE
19+722,355	266,503	39,451	-1,99%	CONVEXE

LÉGENDE	
FACTEUR K DES COURBES VERTICALES	
VITESSE < 50 km/h (K < 8 (convexe) ; K < 12 (concave)	
50 <= VITESSE < 60 km/h (8 <= K < 13 (convexe) ; 12 <= K < 17 (concave)	
60 <= VITESSE < 70 km/h (13 <= K < 22 (convexe) ; 17 <= K < 24 (concave)	
70 <= VITESSE < 80 km/h (22 <= K < 36 (convexe) ; 24 <= K < 32 (concave)	
80 <= VITESSE < 90 km/h (36 <= K < 54 (convexe) ; 32 <= K < 40 (concave)	
90 <= VITESSE < 100 km/h (54 <= K < 74 (convexe) ; 40 <= K < 49 (concave)	
100 km/h <= VITESSE (74 <= K (convexe) ; 49 <= K (concave)	

LÉGENDE	
LONGUEUR DES COURBES VERTICALES	
L _{min} (en m) = VITESSE (en km/h)	
VITESSE < 50 km/h (L < 50 m)	
50 <= VITESSE < 60 km/h (50 <= L < 60 m)	
60 <= VITESSE < 70 km/h (60 <= L < 70 m)	
70 <= VITESSE < 80 km/h (70 <= L < 80 m)	
80 <= VITESSE < 90 km/h (80 <= L < 90 m)	
90 <= VITESSE < 100 km/h (90 <= L < 90 m)	
100 km/h <= VITESSE (100 m <= L)	

ANALYSE DES COURBES VERTICALES				
CHAÎNAGE DU P.I.	LONG. COURBE	FACTEUR K	PENTE	TYPE
19+941,683	166,562	38,274	2,36%	CONCAVE
20+090,485	110,855	48,916	0,10%	CONVEXE
20+428,788	50	9,797	5,20%	CONCAVE
20+474,000	30	5,844	0,07%	CONVEXE
20+514,609	30	19,719	1,59%	CONCAVE
20+540,716	20	11,211	-0,19%	CONVEXE
20+578,792	55	31,517	1,55%	CONCAVE
20+650,822	60	36,06	3,21%	CONCAVE
20+703,207	40	19,724	5,24%	CONCAVE
20+768,727	50	8,203	-0,85%	CONVEXE
20+876,772	60	14,487	3,29%	CONCAVE
20+959,316	80	20,466	-0,62%	CONVEXE
21+030,634	40	9,283	3,69%	CONCAVE
21+074,761	30	5,899	-1,40%	CONVEXE
21+115,304	50	6,985	5,76%	CONCAVE
21+237,543	56,81	3,49	-10,52%	CONVEXE
21+308,782	52	4,354	1,43%	CONCAVE
KM-502 21+362				
21+374,212	30	3,124	-8,18%	CONVEXE
21+455,020	130	9,54	5,45%	CONCAVE
21+576,474	70	22,627	2,35%	CONVEXE
21+713,193	60	10,86	7,88%	CONCAVE
21+801,909	81	5,947	-5,74%	CONVEXE
21+893,271	40	17,894	-7,98%	CONVEXE
21+974,801	104	7,246	6,38%	CONCAVE
22+054,988	50	5,827	-2,21%	CONVEXE
22+134,235	60	9,694	3,98%	CONCAVE
22+216,042	35,6	3,609	-5,88%	CONVEXE
22+273,386	30	5,921	-0,81%	CONCAVE
22+351,286	30	8,825	2,59%	CONCAVE
22+387,486	25	3,643	-4,28%	CONVEXE
22+482,790	120	17,412	2,61%	CONCAVE
22+596,946	30	6,754	7,06%	CONCAVE
22+649,109	56	3,8	-7,68%	CONVEXE
22+723,752	50	3,642	6,05%	CONCAVE
22+786,056	60	5,936	-4,06%	CONVEXE
22+857,202	40	6,816	1,81%	CONCAVE
22+904,451	40	22,39	0,02%	CONVEXE
22+956,396	56	8,865	6,34%	CONCAVE
23+077,609	40	4,707	-2,16%	CONVEXE
23+136,854	40	10,39	1,69%	CONCAVE
23+190,259	40	14,831	-1,00%	CONVEXE
23+245,921	20	10,478	0,90%	CONCAVE
23+274,777	36	8,464	-3,35%	CONVEXE
23+324,855	28	8,104	0,11%	CONCAVE
KM-504 23+350				
23+377,539	42	5	-8,29%	CONVEXE
23+439,532	40	4,33	0,94%	CONCAVE
23+494,822	50	11,855	-3,27%	CONVEXE
23+564,261	40	11,795	0,12%	CONCAVE
23+737,951	50	44,634	1,24%	CONCAVE
23+779,541	30	29,601	0,22%	CONVEXE
23+881,421	50	46,33	1,30%	CONCAVE
23+932,802	50	26,414	-0,59%	CONVEXE
24+071,866	40	30,29	0,73%	CONCAVE
24+115,056	46	24,857	-1,12%	CONVEXE
24+159,921	40	29,778	0,22%	CONCAVE
24+400,630	70	160,078	-0,21%	CONVEXE
24+493,610	44	8,704	4,84%	CONCAVE
24+631,354	80	8,949	-4,10%	CONVEXE
24+705,385	30	8,439	-0,54%	CONCAVE
24+807,210	50	17,576	2,30%	CONCAVE
24+861,104	50	16,512	-0,73%	CONVEXE
24+965,449	50	62,768	0,07%	CONCAVE
25+044,196	50	33,499	1,56%	CONCAVE
25+240,017	50	14,132	-1,97%	CONVEXE
25+298,867	60	8,671	4,95%	CONCAVE
KM-506 25+332				
25+378,763	50	6,507	-2,74%	CONVEXE
25+456,538	35	14,035	-5,23%	CONVEXE
25+487,078	25	3,921	1,14%	CONCAVE
25+654,811	40	17,519	-1,14%	CONVEXE
25+718,983	40	7,067	4,52%	CONCAVE
25+788,588	50	8,54	-1,33%	CONVEXE
25+842,650	40	36,104	-0,23%	CONCAVE
25+941,875	79	8,233	9,37%	CONCAVE
26+018,201	40	4,869	1,16%	CONVEXE
26+118,171	40	4,029	-8,77%	CONVEXE

LÉGENDE FACTEUR K DES COURBES VERTICALES	
VITESSE < 50 km/h (K < 8 (convexe) ; K < 12 (concave)	
50 <= VITESSE < 60 km/h (8 <= K < 13 (convexe) ; 12 <= K < 17 (concave)	
60 <= VITESSE < 70 km/h (13 <= K < 22 (convexe) ; 17 <= K < 24 (concave)	
70 <= VITESSE < 80 km/h (22 <= K < 36 (convexe) ; 24 <= K < 32 (concave)	
80 <= VITESSE < 90 km/h (36 <= K < 54 (convexe) ; 32 <= K < 40 (concave)	
90 <= VITESSE < 100 km/h (54 <= K < 74 (convexe) ; 40 <= K < 49 (concave)	
100 km/h <= VITESSE (74 <= K (convexe) ; 49 <= K (concave)	

LÉGENDE LONGUEUR DES COURBES VERTICALES	
L _{min} (en m) = VITESSE (en km/h)	
VITESSE < 50 km/h (L < 50 m)	
50 <= VITESSE < 60 km/h (50 <= L < 60 m)	
60 <= VITESSE < 70 km/h (60 <= L < 70 m)	
70 <= VITESSE < 80 km/h (70 <= L < 80 m)	
80 <= VITESSE < 90 km/h (80 <= L < 90 m)	
90 <= VITESSE < 100 km/h (90 <= L < 90 m)	
100 km/h <= VITESSE (100 m <= L)	

ANALYSE DES COURBES VERTICALES				
CHAÎNAGE DU P.I.	LONG. COURBE	FACTEUR K	PENTE	TYPE
26+159,881	30	1,914	6,90%	CONCAVE
26+217,914	45	3,252	-6,93%	CONVEXE
26+265,704	20	10,045	-8,93%	CONVEXE
26+290,902	30	3,349	0,03%	CONCAVE
26+404,862	30	20,053	1,53%	CONCAVE
26+445,073	35	13,843	-1,00%	CONVEXE
26+545,788	40	29,603	-2,35%	CONVEXE
26+594,935	58	10,346	3,26%	CONCAVE
26+664,746	30	11,666	0,68%	CONVEXE
26+724,504	88	83,495	-0,37%	CONVEXE
26+810,017	65	9,393	-7,29%	CONVEXE
26+917,016	116	6,937	9,43%	CONCAVE
27+022,821	40	5,708	2,42%	CONVEXE
27+086,198	40	23,966	0,75%	CONVEXE
27+173,000	50	14,625	-2,66%	CONVEXE
27+241,649	30	7,991	-6,42%	CONVEXE
27+283,277	40	3,352	5,51%	CONCAVE
KM-508 27+323				
27+338,258	40	9,079	1,11%	CONCAVE
27+415,143	60	19,17	-2,02%	CONVEXE
27+509,408	40	12,218	1,25%	CONCAVE
27+545,866	30	9,983	-1,75%	CONVEXE
27+597,621	50	18,714	0,92%	CONCAVE
27+737,355	50	19,108	-1,70%	CONVEXE
27+777,315	28	5,74	3,18%	CONCAVE
27+825,568	60	18,072	-0,14%	CONVEXE
27+932,631	40	10,698	-3,88%	CONVEXE
27+974,099	42	5,137	4,30%	CONCAVE
28+022,101	45	9,904	-0,25%	CONVEXE
28+143,992	60	95,011	-0,88%	CONVEXE
28+195,512	40	10,327	-4,75%	CONVEXE
28+230,965	28	2,744	5,45%	CONCAVE
28+273,421	40	25,149	3,86%	CONVEXE
28+322,931	35	6,486	-1,54%	CONVEXE
28+386,766	30	8,446	-5,09%	CONVEXE
28+415,418	26	7,252	-1,50%	CONCAVE
28+443,816	30	9,848	-4,55%	CONVEXE
28+482,519	30	3,539	3,93%	CONCAVE
28+531,960	45	5,085	-4,92%	CONVEXE
28+596,204	30	5,781	0,27%	CONCAVE
28+635,012	30	18,787	-1,33%	CONVEXE
28+676,776	44	5,353	6,89%	CONCAVE
28+769,276	43	5,53	-0,88%	CONVEXE
28+824,352	40	8,874	3,62%	CONCAVE
28+870,329	30	6,531	-0,97%	CONVEXE
28+973,517	60	10,342	-6,77%	CONVEXE
29+034,580	40	10,164	-2,84%	CONCAVE
29+093,035	43,49	6,203	4,17%	CONCAVE
29+167,483	72	16,164	-0,28%	CONVEXE
29+227,189	25	14,94	1,39%	CONCAVE
29+277,132	48	6,896	-5,57%	CONVEXE
KM-510 29+329				
29+363,333	50	4,23	6,25%	CONCAVE
29+425,708	40	6,433	0,03%	CONVEXE
29+534,800	48	10,54	-4,52%	CONVEXE
29+598,281	40	13,323	-7,52%	CONVEXE
29+648,694	60	61,229	-8,50%	CONVEXE
29+691,885	26	6,81	-12,32%	CONVEXE
29+768,869	78	3,833	8,03%	CONCAVE
29+858,537	50	3,066	-8,28%	CONVEXE
29+947,074	55	6,85	-0,25%	CONCAVE
29+998,982	30	8,388	-3,82%	CONVEXE
30+035,469	36	11,825	-0,78%	CONCAVE
30+108,903	50	6,708	6,68%	CONCAVE
30+182,908	30	4,286	-0,32%	CONVEXE
30+221,801	30	6,612	4,21%	CONCAVE
30+266,707	30	2,142	-9,79%	CONVEXE
30+369,609	70	7,898	-0,93%	CONCAVE
30+443,223	40	30,706	0,37%	CONCAVE
30+481,253	35	21,807	-1,23%	CONVEXE
30+519,089	40	29,37	0,13%	CONCAVE
30+615,408	24	14,703	1,76%	CONCAVE
30+653,646	50	17,436	-1,11%	CONVEXE
30+693,279	28	22,022	0,16%	CONCAVE
30+767,149	30	13,532	-2,05%	CONVEXE
30+801,778	35	9,771	1,53%	CONCAVE
30+830,948	22	12,1	-0,29%	CONVEXE
30+866,214	40	29,52	1,07%	CONCAVE

LÉGENDE FACTEUR K DES COURBES VERTICALES	
VITESSE < 50 km/h (K < 8 (convexe) ; K < 12 (concave)	
50 <= VITESSE < 60 km/h (8 <= K < 13 (convexe) ; 12 <= K < 17 (concave)	
60 <= VITESSE < 70 km/h (13 <= K < 22 (convexe) ; 17 <= K < 24 (concave)	
70 <= VITESSE < 80 km/h (22 <= K < 36 (convexe) ; 24 <= K < 32 (concave)	
80 <= VITESSE < 90 km/h (36 <= K < 54 (convexe) ; 32 <= K < 40 (concave)	
90 <= VITESSE < 100 km/h (54 <= K < 74 (convexe) ; 40 <= K < 49 (concave)	
100 km/h <= VITESSE (74 <= K (convexe) ; 49 <= K (concave)	

LÉGENDE LONGUEUR DES COURBES VERTICALES L _{min} (en m) = VITESSE (en km/h)	
VITESSE < 50 km/h (L < 50 m)	
50 <= VITESSE < 60 km/h (50 <= L < 60 m)	
60 <= VITESSE < 70 km/h (60 <= L < 70 m)	
70 <= VITESSE < 80 km/h (70 <= L < 80 m)	
80 <= VITESSE < 90 km/h (80 <= L < 90 m)	
90 <= VITESSE < 100 km/h (90 <= L < 90 m)	
100 km/h <= VITESSE (100 m <= L)	

ANALYSE DES COURBES VERTICALES				
CHAÎNAGE DU P.I.	LONG. COURBE	FACTEUR K	PENTE	TYPE
30+912,282	35	16,693	3,16%	CONCAVE
30+981,436	50	6,864	-4,12%	CONVEXE
31+076,637	40	9,469	0,10%	CONCAVE
31+253,017	40	37,252	1,18%	CONCAVE
31+302,066	35	11,771	-1,80%	CONVEXE
KM-512 31+320				
31+342,463	35	21,462	-0,17%	CONVEXE
31+409,804	54	7,876	6,69%	CONCAVE
31+467,398	20	24,574	5,88%	CONVEXE
31+497,113	30	7,178	1,70%	CONVEXE
31+539,795	30	9,536	4,84%	CONCAVE
31+588,699	40	9,823	0,77%	CONVEXE
31+696,862	30	13,71	-1,42%	CONVEXE
31+730,922	30	13	0,89%	CONCAVE
31+777,456	46	11,323	-3,17%	CONVEXE
31+838,316	30	7,793	-7,02%	CONVEXE
31+871,211	35	5,564	-0,73%	CONCAVE
31+933,634	80	14,191	4,91%	CONCAVE
32+004,173	40	6,087	-1,67%	CONVEXE
32+066,519	30	12,461	0,74%	CONCAVE
32+111,867	60	53,048	-0,39%	CONVEXE
32+174,156	40	34,395	-1,55%	CONVEXE
32+236,613	50	34,684	-0,11%	CONCAVE
32+430,397	30	18,638	1,50%	CONCAVE
32+516,103	60	38,378	3,06%	CONCAVE
32+576,203	50	19,534	0,50%	CONVEXE
32+632,592	58	22,458	-2,08%	CONVEXE
32+694,636	30	32,518	-3,00%	CONVEXE
32+731,129	40	10,227	0,91%	CONCAVE
32+774,969	45	17,943	-1,60%	CONVEXE
32+839,964	65	9,363	5,34%	CONCAVE
32+902,563	50	12,019	1,18%	CONVEXE
32+947,998	40	6,695	-4,79%	CONVEXE
33+013,598	45	9,735	-0,17%	CONCAVE
33+057,083	24	11,01	2,01%	CONCAVE
33+095,101	34	6,137	-3,53%	CONVEXE
33+154,518	30	10,545	-0,69%	CONCAVE
KM-514 33+290				
33+293,292	50	7,694	-7,18%	CONVEXE
33+347,463	30	3,886	0,54%	CONCAVE
33+407,716	30	15,461	-1,40%	CONVEXE
33+461,267	30	5,353	-7,01%	CONVEXE
33+499,778	40	6,079	-0,43%	CONCAVE
33+585,059	60	19,547	2,64%	CONCAVE
33+654,980	40	20,463	0,69%	CONVEXE
33+740,745	40	16,21	3,15%	CONCAVE
33+889,902	60	18,475	-0,09%	CONVEXE
33+975,778	40	25,903	1,45%	CONCAVE
34+016,369	40	13	-1,63%	CONVEXE
34+054,996	35	20,025	0,12%	CONCAVE
34+103,349	50	6,976	-7,05%	CONVEXE
34+166,751	35	13,12	-4,38%	CONCAVE
34+234,250	30	7,039	-0,12%	CONCAVE
34+267,937	36	13,795	-2,73%	CONVEXE
34+312,333	46	6,99	3,86%	CONCAVE
34+355,027	38	23,313	5,49%	CONCAVE
34+390,066	32	11,833	2,78%	CONVEXE
34+421,386	20	6,265	-0,41%	CONVEXE
34+449,104	30	7,498	-4,41%	CONVEXE
34+479,088	25	9,017	-1,64%	CONCAVE
34+507,266	20	4,671	-5,92%	CONVEXE
34+536,819	30	2,382	6,67%	CONCAVE
34+583,348	35	2,767	-5,98%	CONVEXE
34+627,850	35	3,819	3,19%	CONCAVE
34+679,400	46	6,414	-3,99%	CONVEXE
34+747,814	82	8,693	5,45%	CONCAVE
34+902,397	54	9,06	-0,51%	CONVEXE
34+996,928	54	15,779	2,91%	CONCAVE
35+044,432	40	8,79	-1,64%	CONVEXE
35+112,311	30	11,958	0,87%	CONCAVE
35+167,284	50	12,178	-3,24%	CONVEXE
35+264,506	30	14,601	-5,29%	CONVEXE
35+304,278	36	12,243	-2,35%	CONCAVE
KM-516 35+310				
35+449,978	50	10,089	2,60%	CONCAVE
35+532,786	80	9,091	-6,20%	CONVEXE
35+590,712	34	12,833	-3,55%	CONCAVE
35+638,844	34	13,893	-1,10%	CONCAVE
35+685,512	58	12,873	3,41%	CONCAVE
35+770,707	40	12,438	6,62%	CONCAVE
35+830,641	68	7,166	-2,87%	CONVEXE

LÉGENDE FACTEUR K DES COURBES VERTICALES	
	VITESSE < 50 km/h (K < 8 (convexe) ; K < 12 (concave)
	50 <= VITESSE < 60 km/h (8 <= K < 13 (convexe) ; 12 <= K < 17 (concave)
	60 <= VITESSE < 70 km/h (13 <= K < 22 (convexe) ; 17 <= K < 24 (concave)
	70 <= VITESSE < 80 km/h (22 <= K < 36 (convexe) ; 24 <= K < 32 (concave)
	80 <= VITESSE < 90 km/h (36 <= K < 54 (convexe) ; 32 <= K < 40 (concave)
	90 <= VITESSE < 100 km/h (54 <= K < 74 (convexe) ; 40 <= K < 49 (concave)
	100 km/h <= VITESSE (74 <= K (convexe) ; 49 <= K (concave)

LÉGENDE LONGUEUR DES COURBES VERTICALES	
L _{min} (en m) = VITESSE (en km/h)	
	VITESSE < 50 km/h (L < 50 m)
	50 <= VITESSE < 60 km/h (50 <= L < 60 m)
	60 <= VITESSE < 70 km/h (60 <= L < 70 m)
	70 <= VITESSE < 80 km/h (70 <= L < 80 m)
	80 <= VITESSE < 90 km/h (80 <= L < 90 m)
	90 <= VITESSE < 100 km/h (90 <= L < 90 m)
	100 km/h <= VITESSE (100 m <= L)

ANALYSE DES COURBES VERTICALES				
CHAÎNAGE DU P.I.	LONG. COURBE	FACTEUR K	PENTE	TYPE
35+888,654	46	19,409	-0,50%	CONCAVE
35+926,515	28	11,565	-2,92%	CONVEXE
36+012,268	40	8,262	-7,76%	CONVEXE
36+066,140	60	7,904	-0,17%	CONCAVE
36+219,924	65	10,71	5,90%	CONCAVE
36+297,138	80	18,613	1,60%	CONVEXE
36+520,000	120	28,518	5,81%	CONCAVE
36+700,000	100	10,942	-3,33%	CONVEXE
36+799,561	80	25,295	-0,17%	CONCAVE
36+934,717	60	34,997	1,55%	CONCAVE
37+064,118	50	22,583	-0,67%	CONVEXE
37+123,179	50	17,812	-3,47%	CONVEXE
37+174,669	45	15,647	-0,60%	CONCAVE
37+224,615	50	30,401	1,05%	CONCAVE
KM-518 37+290				
37+320,891	90	99,223	0,14%	CONCAVE
37+475,515	40	15,046	2,80%	CONCAVE
37+582,281	40	8,402	-1,96%	CONVEXE
37+632,204	45	31,027	-0,51%	CONCAVE
37+696,826	40	28,242	-1,93%	CONVEXE
37+730,765	27	14,633	-0,08%	CONCAVE
37+817,557	40	58,522	0,60%	CONCAVE
37+867,582	40	21,573	2,46%	CONCAVE
37+935,991	60	11,61	-2,71%	CONVEXE
38+022,419	60	21,536	0,07%	CONCAVE
38+106,217	30	6,14	-4,81%	CONVEXE
38+146,057	35	14,508	-2,40%	CONCAVE
38+276,973	30	18,795	-0,80%	CONCAVE
38+328,525	46	8,933	-5,95%	CONVEXE
38+434,953	35	4,596	-13,57%	CONVEXE
38+548,343	70	4,889	0,75%	CONCAVE
38+683,245	50	11,878	4,96%	CONCAVE
38+748,876	30	7,091	0,73%	CONVEXE
38+872,111	50	22,941	-1,45%	CONVEXE
38+969,543	35	21,649	-3,07%	CONVEXE
39+002,421	30	15,498	-1,13%	CONCAVE
39+078,161	40	4,823	7,16%	CONCAVE
39+144,037	50	6,792	-0,20%	CONVEXE
39+212,820	35	6,596	-5,50%	CONVEXE
KM-520 39+296				
39+329,223	35	7,681	-10,06%	CONVEXE
39+361,217	28	3,431	-1,90%	CONCAVE
39+431,924	60	17,477	-5,33%	CONVEXE
39+519,776	30	6,708	-0,86%	CONCAVE
39+655,356	30	12,539	-3,25%	CONVEXE
39+698,841	30	9,17	0,02%	CONCAVE
39+783,794	30	6,091	4,94%	CONCAVE
39+844,953	56	6,53	-3,63%	CONVEXE
39+928,672	30	10,271	-0,71%	CONCAVE
40+061,917	40	23,366	1,00%	CONCAVE
40+106,100	48	36,306	-0,32%	CONVEXE
40+154,595	30	18,204	-1,97%	CONVEXE
40+188,763	36	7,231	3,01%	CONCAVE
40+230,675	35	11,692	6,00%	CONCAVE
40+277,258	35	6,688	0,77%	CONVEXE
40+352,397	40	23,889	-0,91%	CONVEXE
40+389,518	30	14,674	1,14%	CONCAVE
40+457,807	30	13,139	-1,14%	CONVEXE
40+499,417	30	16,846	0,64%	CONCAVE
40+566,459	60	25,516	-1,71%	CONVEXE
40+625,893	40	18,389	0,46%	CONCAVE
40+690,786	40	44,195	-0,44%	CONVEXE
40+811,643	60	65,942	-1,35%	CONVEXE
40+908,968	20	23,999	-0,52%	CONCAVE
40+937,959	30	39,297	-1,28%	CONVEXE
40+984,911	30	37,374	-0,48%	CONCAVE
41+036,201	20	8,889	-2,73%	CONVEXE
41+078,887	40	20,517	-0,78%	CONCAVE
41+139,249	50	31,292	-2,38%	CONVEXE

LÉGENDE FACTEUR K DES COURBES VERTICALES	
	VITESSE < 50 km/h (K < 8 (convexe) ; K < 12 (concave)
	50 <= VITESSE < 60 km/h (8 <= K < 13 (convexe) ; 12 <= K < 17 (concave)
	60 <= VITESSE < 70 km/h (13 <= K < 22 (convexe) ; 17 <= K < 24 (concave)
	70 <= VITESSE < 80 km/h (22 <= K < 36 (convexe) ; 24 <= K < 32 (concave)
	80 <= VITESSE < 90 km/h (36 <= K < 54 (convexe) ; 32 <= K < 40 (concave)
	90 <= VITESSE < 100 km/h (54 <= K < 74 (convexe) ; 40 <= K < 49 (concave)
	100 km/h <= VITESSE (74 <= K (convexe) ; 49 <= K (concave)








LÉGENDE LONGUEUR DES COURBES VERTICALES	
	L_{min} (en m) = VITESSE (en km/h)
	VITESSE < 50 km/h (L < 50 m)
	50 <= VITESSE < 60 km/h (50 <= L < 60 m)
	60 <= VITESSE < 70 km/h (60 <= L < 70 m)
	70 <= VITESSE < 80 km/h (70 <= L < 80 m)
	80 <= VITESSE < 90 km/h (80 <= L < 90 m)
	90 <= VITESSE < 100 km/h (90 <= L < 90 m)
	100 km/h <= VITESSE (100 m <= L)





ANALYSE DES COURBES VERTICALES				
CHAÎNAGE DU P.I.	LONG. COURBE	FACTEUR K	PENTE	TYPE
41+206,945	40	13,499	0,58%	CONCAVE
41+243,794	20	29,887	-0,09%	CONVEXE
KM-522 41+271				
41+284,624	30	36,049	0,75%	CONCAVE
41+323,741	30	15,391	-1,20%	CONVEXE
41+368,391	30	28,094	-0,13%	CONCAVE
41+436,610	50	10,812	4,49%	CONCAVE
41+502,695	30	4,253	-2,56%	CONVEXE
41+573,525	50	26,15	-0,65%	CONCAVE
41+664,653	80	35,01	1,63%	CONCAVE
41+750,861	35	14,549	-0,77%	CONVEXE
41+820,389	40	23,735	0,91%	CONCAVE
41+905,830	40	21,485	-0,95%	CONVEXE
41+981,181	20	21,077	0,00%	CONVEXE
42+012,968	20	18,872	-1,06%	CONVEXE
42+100,250	50	11,103	-5,56%	CONVEXE
42+168,160	65	16,417	-1,60%	CONCAVE
42+213,857	20	7,788	0,96%	CONCAVE
42+277,749	80	71,138	-0,16%	CONVEXE
42+367,502	80	48,481	1,49%	CONCAVE
42+422,614	30	18,588	-0,12%	CONVEXE
42+470,901	20	25,278	0,67%	CONCAVE
42+504,187	20	20,581	-0,30%	CONVEXE
42+529,774	20	24,259	0,52%	CONCAVE
42+585,971	40	22,075	-1,29%	CONVEXE
42+639,823	50	15,493	1,93%	CONCAVE
42+701,377	20	11,586	0,21%	CONVEXE
42+789,579	40	6,586	6,28%	CONCAVE
42+869,652	60	9,872	0,20%	CONVEXE
42+912,771	20	3,114	-6,22%	CONVEXE
42+954,423	45	5,434	2,06%	CONCAVE
43+025,252	80	22,125	-1,55%	CONVEXE
43+102,389	70	25,835	1,16%	CONCAVE
43+233,831	60	9,136	-5,41%	CONVEXE
KM-524 43+282				
43+290,403	30	9,077	-2,11%	CONVEXE
43+325,686	20	13,594	-3,58%	CONVEXE
43+352,132	20	26,748	-2,83%	CONCAVE
43+422,325	30	22,724	-4,15%	CONVEXE
43+467,486	30	7,352	-0,07%	CONCAVE
43+502,214	20	21,332	-1,01%	CONVEXE
43+532,711	40	7,745	4,16%	CONCAVE
43+644,078	60	34,827	2,44%	CONVEXE
43+696,553	30	40,791	3,17%	CONCAVE
43+856,916	135	23,335	-2,61%	CONVEXE
43+949,364	20	31,632	-1,98%	CONCAVE
43+983,519	20	13,73	-3,44%	CONVEXE
44+010,505	20	32,304	-2,82%	CONCAVE
44+096,012	70	21,873	0,38%	CONCAVE
44+236,332	20	9,16	2,56%	CONCAVE
44+275,568	30	14,124	0,44%	CONVEXE
44+332,171	30	23,498	1,72%	CONCAVE
44+395,494	70	9,681	-5,51%	CONVEXE
44+446,853	25	2,081	6,50%	CONCAVE
44+500,063	40	8,522	1,81%	CONVEXE
44+571,680	35	7,112	-3,11%	CONVEXE
44+614,581	20	22,624	-2,23%	CONCAVE
44+647,539	30	16,366	-4,06%	CONVEXE
44+683,939	30	21,194	-2,65%	CONCAVE
44+728,317	40	25,569	-1,08%	CONCAVE
44+830,133	60	40,241	-2,57%	CONVEXE
44+872,474	20	31,471	-1,94%	CONCAVE
44+912,498	40	5,36	-9,40%	CONVEXE
44+988,766	40	7,328	-3,94%	CONCAVE
45+038,910	20	14,835	-5,29%	CONVEXE
45+104,099	45	16,18	-2,51%	CONCAVE
45+185,309	30	13,639	-0,31%	CONCAVE
45+226,934	50	47,182	-1,37%	CONVEXE
KM-526 45+275				
45+297,974	55	17,773	-4,46%	CONVEXE
45+377,676	40	15,533	-1,89%	CONCAVE
45+424,419	35	25,592	-0,52%	CONCAVE
45+474,668	40	28,945	0,86%	CONCAVE
45+511,970	20	19,949	-0,14%	CONVEXE
45+577,445	80	38,039	1,96%	CONCAVE
45+640,217	25	7,498	-1,37%	CONVEXE
45+688,788	60	13,476	3,08%	CONCAVE
45+744,910	20	25,648	3,86%	CONCAVE
45+794,355	60	10,351	-1,94%	CONVEXE
45+840,488	20	9,826	0,10%	CONCAVE
45+927,623	60	13,802	-4,25%	CONVEXE
46+007,558	40	14,422	-1,48%	CONCAVE
46+034,250	10	8,982	-0,36%	CONCAVE
46+050,235	10	14,729	-1,04%	CONVEXE
46+084,888	30	19,667	0,48%	CONCAVE

LÉGENDE FACTEUR K DES COURBES VERTICALES	
VITESSE < 50 km/h (K < 8 (convexe) ; K < 12 (concave)	
50 <= VITESSE < 60 km/h (8 <= K < 13 (convexe) ; 12 <= K < 17 (concave)	
60 <= VITESSE < 70 km/h (13 <= K < 22 (convexe) ; 17 <= K < 24 (concave)	
70 <= VITESSE < 80 km/h (22 <= K < 36 (convexe) ; 24 <= K < 32 (concave)	
80 <= VITESSE < 90 km/h (36 <= K < 54 (convexe) ; 32 <= K < 40 (concave)	
90 <= VITESSE < 100 km/h (54 <= K < 74 (convexe) ; 40 <= K < 49 (concave)	
100 km/h <= VITESSE (74 <= K (convexe) ; 49 <= K (concave)	

LÉGENDE LONGUEUR DES COURBES VERTICALES L _{min} (en m) = VITESSE (en km/h)	
VITESSE < 50 km/h (L < 50 m)	
50 <= VITESSE < 60 km/h (50 <= L < 60 m)	
60 <= VITESSE < 70 km/h (60 <= L < 70 m)	
70 <= VITESSE < 80 km/h (70 <= L < 80 m)	
80 <= VITESSE < 90 km/h (80 <= L < 90 m)	
90 <= VITESSE < 100 km/h (90 <= L < 90 m)	
100 km/h <= VITESSE (100 m <= L)	

ANALYSE DES COURBES VERTICALES				
CHAÎNAGE DU P.I.	LONG. COURBE	FACTEUR K	PENTE	TYPE
46+122,725	30	31,911	-0,46%	CONVEXE
46+158,433	20	9,356	1,68%	CONCAVE
46+210,538	35	9,015	-2,20%	CONVEXE
46+301,043	60	33,85	-0,43%	CONCAVE
46+372,694	40	93,357	0,00%	CONCAVE
46+431,799	40	30,21	1,32%	CONCAVE
46+528,699	50	13,075	-2,50%	CONVEXE
46+580,818	30	10,277	0,42%	CONCAVE
46+653,814	30	3,796	8,32%	CONCAVE
46+713,815	40	3,251	-3,98%	CONVEXE
46+764,237	30	7,026	0,29%	CONCAVE
46+801,132	20	11,441	-1,46%	CONVEXE
46+842,615	25	37,149	-0,79%	CONCAVE
46+873,840	25	15,09	-2,44%	CONVEXE
46+933,482	30	23,063	-3,75%	CONVEXE
46+980,287	60	11,463	1,49%	CONCAVE
47+066,942	20	19,467	0,46%	CONVEXE
47+120,272	20	6,612	-2,56%	CONVEXE
47+156,954	30	8,187	1,10%	CONCAVE
47+199,414	30	5,153	-4,72%	CONVEXE
47+237,031	40	8,692	-0,12%	CONCAVE
KM 528 47+270				
47+288,884	40	29,974	1,21%	CONCAVE
47+342,879	30	13,552	-1,00%	CONVEXE
47+399,252	40	56,422	-0,29%	CONCAVE
47+477,591	15	7,39	1,74%	CONCAVE
47+494,028	15	9,127	0,10%	CONVEXE
47+555,129	40	19,723	2,12%	CONCAVE
47+617,539	60	20,465	-0,81%	CONVEXE
47+678,246	40	22,21	0,99%	CONCAVE
47+781,481	20	8,573	3,33%	CONCAVE
47+830,870	40	11,772	-0,07%	CONVEXE
47+886,937	60	16,838	3,49%	CONCAVE
47+939,114	20	5,892	6,89%	CONCAVE
48+005,797	80	6,679	-5,09%	CONVEXE
48+123,014	60	10,226	0,78%	CONCAVE
48+184,736	30	32,351	-0,15%	CONVEXE
48+272,000	50	18,574	2,54%	
48+307,069	20	13,416	1,05%	CONVEXE
48+336,118	20	40,675	1,54%	CONCAVE
48+369,199	40	15,36	-1,06%	CONVEXE
48+447,500	50	11,757	3,19%	CONCAVE
48+483,203	20	11,784	4,89%	CONCAVE
48+541,395	42	4,788	-3,88%	CONVEXE
48+605,341	50	9,03	1,65%	CONCAVE
48+681,287	35	23,524	3,14%	CONCAVE
48+746,088	90	7,135	-9,47%	CONVEXE
48+843,502	35	5,012	-2,49%	CONCAVE
48+883,217	40	11,209	1,08%	CONCAVE
48+922,164	10	6,236	-0,53%	CONVEXE
48+948,439	25	8,23	2,51%	CONCAVE
48+988,401	40	10,744	-1,21%	CONVEXE
49+059,685	40	8,163	3,69%	CONCAVE
49+118,528	50	6,688	-3,79%	CONVEXE
49+178,208	30	7,431	0,25%	CONCAVE
KM 530 49+248				
49+258,167	20	20,779	1,21%	CONCAVE
49+297,585	30	12,666	-1,16%	CONVEXE
49+380,384	20	12,006	0,51%	CONCAVE
49+415,085	40	31,867	-0,75%	CONVEXE
49+455,481	40	14,273	2,06%	CONCAVE
49+582,681	60	50,958	0,88%	CONVEXE
49+685,301	30	32,937	1,79%	CONCAVE
49+746,504	45	9,508	-2,94%	CONVEXE
49+788,140	30	8,515	-6,47%	CONVEXE
49+840,992	40	5,584	0,70%	CONCAVE
49+918,403	30	12,931	3,02%	CONCAVE
49+967,546	30	10,901	0,27%	CONVEXE
50+007,463	10	24,135	-0,15%	CONVEXE
50+026,954	10	7,688	1,15%	CONCAVE
50+041,798	10	3,094	-2,08%	CONVEXE
50+078,046	38	11,768	1,15%	CONCAVE
50+155,940	45	12,248	4,82%	CONCAVE
50+218,699	65	10,85	-1,17%	CONVEXE
50+320,344	45	8,9	3,89%	CONCAVE
50+367,873	20	17,646	2,75%	CONVEXE
50+419,131	20	15,79	1,49%	CONVEXE
50+453,672	20	17,34	2,64%	CONCAVE
50+534,688	40	10,318	-1,24%	CONVEXE
50+594,032	30	30,687	-0,26%	CONCAVE
50+638,295	40	13,532	-3,21%	CONVEXE
50+717,210	50	19,652	-0,67%	CONCAVE
50+759,942	30	13,293	1,59%	CONCAVE
50+810,522	40	14,241	-1,22%	CONVEXE
50+853,186	30	149,996	-1,02%	CONCAVE

LÉGENDE	
FACTEUR K DES COURBES VERTICALES	
	VITESSE < 50 km/h (K < 8 (convexe) ; K < 12 (concave)
	50 <= VITESSE < 60 km/h (8 <= K < 13 (convexe) ; 12 <= K < 17 (concave)
	60 <= VITESSE < 70 km/h (13 <= K < 22 (convexe) ; 17 <= K < 24 (concave)
	70 <= VITESSE < 80 km/h (22 <= K < 36 (convexe) ; 24 <= K < 32 (concave)
	80 <= VITESSE < 90 km/h (36 <= K < 54 (convexe) ; 32 <= K < 40 (concave)
	90 <= VITESSE < 100 km/h (54 <= K < 74 (convexe) ; 40 <= K < 49 (concave)
	100 km/h <= VITESSE (74 <= K (convexe) ; 49 <= K (concave)

LÉGENDE	
LONGUEUR DES COURBES VERTICALES	
L _{min} (en m) = VITESSE (en km/h)	
	VITESSE < 50 km/h (L < 50 m)
	50 <= VITESSE < 60 km/h (50 <= L < 60 m)
	60 <= VITESSE < 70 km/h (60 <= L < 70 m)
	70 <= VITESSE < 80 km/h (70 <= L < 80 m)
	80 <= VITESSE < 90 km/h (80 <= L < 90 m)
	90 <= VITESSE < 100 km/h (90 <= L < 90 m)
	100 km/h <= VITESSE (100 m <= L)

ANALYSE DES COURBES VERTICALES				
CHAÎNAGE DU P.I.	LONG. COURBE	FACTEUR K	PENTE	TYPE
50+900,680	30	46,826	-0,38%	CONCAVE
50+933,006	30	25,637	-1,55%	CONVEXE
50+971,827	30	17,12	0,20%	CONCAVE
51+025,898	40	6,671	6,20%	CONCAVE
51+071,333	20	6,847	3,28%	CONVEXE
51+130,108	30	8,91	-0,09%	CONVEXE
51+161,146	10	5,636	-1,86%	CONVEXE
51+191,341	30	12,816	0,48%	CONCAVE
KM 532 51+203				
51+212,969	10	7,94	1,74%	CONCAVE
51+229,447	20	11,138	-0,06%	CONVEXE
51+246,143	10	16,238	0,56%	CONCAVE
51+291,653	30	9,305	3,78%	CONCAVE
51+334,668	30	23,018	2,48%	CONVEXE
51+370,319	15	3,719	-1,56%	CONVEXE
51+385,163	5	1,882	1,10%	CONCAVE
51+405,162	30	5,456	-4,40%	CONVEXE
51+491,266	40	9,136	-0,02%	CONCAVE
51+521,285	20	16,346	1,20%	CONCAVE
51+545,795	25	9,577	-1,41%	CONVEXE
51+579,558	40	6,128	5,12%	CONCAVE
51+624,147	25	12,576	3,13%	CONVEXE
51+672,099	20	12,606	1,55%	CONVEXE
51+713,180	30	20,939	2,98%	CONCAVE
51+758,806	30	15,911	4,86%	CONCAVE
51+793,202	35	14,071	2,38%	CONVEXE
51+935,808	80	27,719	-0,51%	CONVEXE
52+077,863	30	5,124	-6,36%	CONVEXE
52+195,369	75	6,892	4,52%	CONCAVE
52+317,373	30	51,722	5,10%	CONCAVE
52+423,635	125	10,617	-6,68%	CONVEXE
52+571,828	85	11,963	0,43%	CONCAVE
52+675,014	55	13,164	4,61%	CONCAVE
52+734,232	35	7,273	-0,20%	CONVEXE
52+789,234	30	12,379	-2,63%	CONVEXE
52+829,660	30	29,02	-1,59%	CONCAVE
52+867,884	30	12,403	-4,01%	CONVEXE
52+913,621	40	12,78	-0,88%	CONCAVE
52+964,977	30	71,344	-1,30%	CONVEXE
53+030,309	80	74,061	-0,22%	CONCAVE
KM 534 53+160				
53+203,080	80	23,558	3,17%	CONCAVE
53+265,416	40	22,756	1,42%	CONVEXE
53+315,426	40	18,232	-0,78%	CONVEXE
53+360,786	30	10,532	2,07%	CONCAVE
53+445,892	40	51,885	2,84%	CONCAVE
53+516,986	60	24,892	0,43%	CONVEXE
53+592,640	30	24,894	-0,77%	CONVEXE
53+618,602	20	34,149	-0,19%	CONCAVE
53+694,452	30	37,565	0,61%	CONCAVE
53+742,642	40	28,07	-0,81%	CONVEXE
53+851,362	40	22,644	0,95%	CONCAVE
53+914,525	40	11,611	-2,49%	CONVEXE
53+965,336	40	28,094	-3,92%	CONVEXE
54+030,303	40	12,407	-0,69%	CONCAVE
54+086,540	40	6,301	5,65%	CONCAVE
54+154,983	45	6,557	-1,21%	CONVEXE
54+205,532	10	5,716	0,54%	CONCAVE
54+228,646	25	21,676	-0,61%	CONVEXE
54+262,765	40	10,899	-4,28%	CONVEXE
54+344,348	55	17,81	-1,19%	CONCAVE
54+421,275	55	7,634	6,01%	CONCAVE
54+515,414	40	5,511	-1,25%	CONVEXE
54+552,372	20	3,931	-6,33%	CONVEXE
54+614,566	45	5,152	2,40%	CONCAVE
54+671,963	30	4,48	-4,30%	CONVEXE
54+722,877	25	8,921	-1,49%	CONCAVE
54+761,073	25	15,691	-3,09%	CONVEXE
54+801,615	40	26,637	-1,59%	CONCAVE
54+849,329	30	11,769	0,96%	CONCAVE
54+889,536	30	7,382	-3,10%	CONVEXE
54+949,572	25	3,9	3,31%	CONCAVE
54+967,099	10	3,691	6,02%	CONCAVE
55+001,974	35	3,775	-3,25%	CONVEXE
55+031,803	20	2,841	-10,29%	CONVEXE
55+083,266	50	3,925	2,45%	CONCAVE
55+151,030	30	13,007	0,14%	CONVEXE
KM 536 55+152				
55+191,962	30	34,373	1,01%	CONCAVE
55+226,955	20	31,554	0,38%	CONVEXE
55+285,803	40	298,058	0,51%	CONCAVE
55+348,735	40	8,939	-3,96%	CONVEXE

LÉGENDE FACTEUR K DES COURBES VERTICALES	
VITESSE < 50 km/h (K < 8 (convexe) ; K < 12 (concave)	
50 <= VITESSE < 60 km/h (8 <= K < 13 (convexe) ; 12 <= K < 17 (concave)	
60 <= VITESSE < 70 km/h (13 <= K < 22 (convexe) ; 17 <= K < 24 (concave)	
70 <= VITESSE < 80 km/h (22 <= K < 36 (convexe) ; 24 <= K < 32 (concave)	
80 <= VITESSE < 90 km/h (36 <= K < 54 (convexe) ; 32 <= K < 40 (concave)	
90 <= VITESSE < 100 km/h (54 <= K < 74 (convexe) ; 40 <= K < 49 (concave)	
100 km/h <= VITESSE (74 <= K (convexe) ; 49 <= K (concave)	

LÉGENDE LONGUEUR DES COURBES VERTICALES L _{min} (en m) = VITESSE (en km/h)	
VITESSE < 50 km/h (L < 50 m)	
50 <= VITESSE < 60 km/h (50 <= L < 60 m)	
60 <= VITESSE < 70 km/h (60 <= L < 70 m)	
70 <= VITESSE < 80 km/h (70 <= L < 80 m)	
80 <= VITESSE < 90 km/h (80 <= L < 90 m)	
90 <= VITESSE < 100 km/h (90 <= L < 90 m)	
100 km/h <= VITESSE (100 m <= L)	

ANALYSE DES COURBES VERTICALES				
CHAÎNAGE DU P.I.	LONG. COURBE	FACTEUR K	PENTE	TYPE
55+407,803	40	11,534	-0,49%	CONCAVE
55+479,596	50	35,343	0,92%	CONCAVE
55+528,132	20	32,365	0,31%	CONVEXE
55+632,042	30	65,72	0,76%	CONCAVE
55+698,090	40	197,065	0,96%	CONCAVE
55+804,463	45	12,694	4,51%	CONCAVE
55+853,801	20	7,842	1,96%	CONVEXE
55+894,276	20	4,458	6,45%	CONCAVE
55+950,356	45	6,12	-0,91%	CONVEXE
56+006,026	20	8,478	1,45%	CONCAVE
56+048,522	40	12,058	-1,87%	CONVEXE
56+100,412	40	18,053	0,35%	CONCAVE
56+146,102	20	32,118	0,97%	CONCAVE
56+206,951	20	17,401	-0,18%	CONVEXE
56+240,947	45	18,995	2,19%	CONCAVE
56+291,572	20	19,827	1,18%	CONVEXE
56+331,104	25	80,909	0,87%	CONVEXE
56+355,793	20	24,929	1,68%	CONCAVE
56+396,696	50	32,203	3,23%	CONCAVE
56+520,079	100	22,702	-1,18%	CONVEXE
56+628,572	80	34,258	1,16%	CONCAVE
56+698,226	50	13,469	-2,55%	CONVEXE
56+745,442	30	18,693	-0,95%	CONCAVE
56+783,026	30	9,097	-4,24%	CONVEXE
56+838,669	70	15,734	0,20%	CONCAVE
56+900,940	20	7,23	-2,56%	CONVEXE
57+032,972	80	35,602	-0,32%	CONCAVE
KM 538 57+055				
57+092,930	20	17,119	-1,48%	CONVEXE
57+122,926	30	15,151	0,50%	CONCAVE
57+220,411	30	22,223	-0,85%	CONVEXE
57+246,071	20	14,842	0,49%	CONCAVE
57+356,586	20	40,482	0,00%	CONCAVE
57+394,262	45	8,449	5,33%	CONCAVE
57+473,567	40	12,769	2,19%	CONVEXE
57+553,025	60	17,302	5,66%	CONCAVE
57+644,148	100	206,721	5,18%	CONVEXE
57+755,798	90	19,387	0,54%	CONVEXE
57+833,839	30	17,887	2,21%	CONCAVE
57+896,790	15	15,052	1,22%	CONVEXE
57+952,125	60	20,829	4,10%	CONCAVE
58+014,417	10	9,618	3,06%	CONVEXE
58+122,232	50	7,151	10,05%	CONCAVE
58+172,694	20	2,818	2,95%	CONVEXE
58+227,562	50	7,601	9,53%	CONCAVE
58+291,108	50	6,056	1,27%	CONVEXE
58+381,300	50	5,525	-7,78%	CONVEXE
58+445,049	50	6,993	-0,63%	CONCAVE
58+518,095	35	5,697	-6,77%	CONVEXE
58+555,297	30	13,416	-4,53%	CONCAVE
58+618,385	45	18,985	-6,91%	CONVEXE
58+692,820	55	7,333	0,60%	CONCAVE
58+740,171	20	19,91	-0,41%	CONVEXE
58+784,184	20	15,572	0,88%	CONCAVE
58+810,458	30	30,084	-0,12%	CONVEXE
58+859,705	40	82,061	0,37%	CONCAVE
58+903,194	30	82,055	0,00%	CONCAVE
58+942,241	40	32,403	1,23%	CONCAVE
59+024,626	45	18,984	-1,14%	CONVEXE
KM 540 59+044				
59+083,341	65	10,889	4,83%	CONCAVE
59+139,738	25	9,18	2,11%	CONVEXE
59+198,021	50	8,072	8,30%	CONCAVE
59+281,168	30	3,239	-0,96%	CONVEXE
59+332,603	45	6,147	6,36%	CONCAVE
59+406,959	40	11,466	2,87%	CONVEXE
59+483,330	40	7,38	-2,55%	CONVEXE
59+548,146	55	14,159	1,34%	CONCAVE
59+612,161	32	3,215	-8,62%	CONVEXE
59+661,093	65	6,726	1,05%	CONCAVE
59+749,995	40	6,1	7,60%	CONCAVE
59+806,173	20	19,092	6,56%	CONVEXE
59+869,161	50	10,661	1,87%	CONVEXE
59+953,965	40	19,168	-0,22%	CONVEXE
59+991,211	30	18,218	1,43%	CONCAVE
60+079,187	10	29,575	1,09%	CONVEXE
60+131,557	30	22,655	2,41%	CONCAVE
60+167,369	35	21,403	0,78%	CONVEXE
60+215,868	30	38,594	0,00%	CONCAVE
60+252,237	30	35,918	0,84%	CONCAVE

LÉGENDE FACTEUR K DES COURBES VERTICALES	
VITESSE < 50 km/h (K < 8 (convexe) ; K < 12 (concave)	
50 <= VITESSE < 60 km/h (8 <= K < 13 (convexe) ; 12 <= K < 17 (concave)	
60 <= VITESSE < 70 km/h (13 <= K < 22 (convexe) ; 17 <= K < 24 (concave)	
70 <= VITESSE < 80 km/h (22 <= K < 36 (convexe) ; 24 <= K < 32 (concave)	
80 <= VITESSE < 90 km/h (36 <= K < 54 (convexe) ; 32 <= K < 40 (concave)	
90 <= VITESSE < 100 km/h (54 <= K < 74 (convexe) ; 40 <= K < 49 (concave)	
100 km/h <= VITESSE (74 <= K (convexe) ; 49 <= K (concave)	

LÉGENDE LONGUEUR DES COURBES VERTICALES	
L _{min} (en m) = VITESSE (en km/h)	
VITESSE < 50 km/h (L < 50 m)	
50 <= VITESSE < 60 km/h (50 <= L < 60 m)	
60 <= VITESSE < 70 km/h (60 <= L < 70 m)	
70 <= VITESSE < 80 km/h (70 <= L < 80 m)	
80 <= VITESSE < 90 km/h (80 <= L < 90 m)	
90 <= VITESSE < 100 km/h (90 <= L < 90 m)	
100 km/h <= VITESSE (100 m <= L)	

ANALYSE DES COURBES VERTICALES				
CHAÎNAGE DU P.I.	LONG. COURBE	FACTEUR K	PENTE	TYPE
60+285,761	35	32,623	-0,24%	CONVEXE
60+367,397	100	57,982	-1,96%	CONVEXE
60+477,623	100	157,47	-1,33%	CONCAVE
60+561,028	20	22,282	-2,22%	CONVEXE
60+597,434	40	21,68	-0,38%	CONVEXE
60+667,722	20	17,88	0,74%	CONCAVE
60+780,895	40	23,203	2,46%	CONCAVE
60+818,253	30	19,733	0,94%	CONVEXE
60+876,619	40	16,473	3,37%	CONCAVE
60+932,367	20	20,378	2,39%	CONVEXE
60+984,438	40	51,309	1,61%	CONVEXE
KM 542 61+056				
61+074,219	35	10,68	-1,67%	CONVEXE
61+110,076	20	36,533	-1,12%	CONCAVE
61+145,512	20	13,937	-2,56%	CONVEXE
61+177,249	30	16,089	-4,42%	CONVEXE
61+254,058	90	19,464	0,20%	CONCAVE
61+324,717	50	20,755	2,61%	CONCAVE
61+373,629	25	22,158	1,48%	CONVEXE
61+462,676	30	17,932	-0,19%	CONVEXE
61+514,153	50	22,955	1,99%	CONCAVE
61+554,862	20	22,543	1,10%	CONVEXE
61+582,343	20	13,006	-0,44%	CONVEXE
61+627,608	40	20,44	1,52%	CONCAVE
61+681,297	35	11,694	-1,47%	CONVEXE
61+744,034	45	23,096	0,48%	CONCAVE
61+802,501	25	15,568	-1,13%	CONVEXE
61+860,093	35	24,505	0,30%	CONCAVE
61+901,140	10	14,333	-0,40%	CONVEXE
61+960,932	40	26,784	-1,89%	CONVEXE
62+051,072	40	30,345	-0,57%	CONCAVE
62+100,609	20	22,193	-1,47%	CONVEXE
62+138,317	10	5,722	0,27%	CONCAVE
62+218,819	50	134,996	-0,10%	CONVEXE
62+267,224	30	64,482	0,37%	CONCAVE
62+300,634	20	41,912	-0,11%	CONVEXE
62+326,313	20	27,023	0,63%	CONCAVE
62+344,219	10	15,846	0,00%	CONVEXE
62+409,441	10	15,354	-0,65%	CONVEXE
62+443,067	40	42,286	0,29%	CONCAVE
62+480,058	15	10,376	-1,15%	CONVEXE
62+519,587	40	18,695	0,99%	CONCAVE
62+566,121	20	29,142	0,30%	CONVEXE
62+657,108	70	64,155	1,39%	CONCAVE
62+711,151	35	11,555	-1,64%	CONVEXE
62+759,018	20	15,949	-0,38%	CONCAVE
62+800,408	20	24,67	0,43%	CONCAVE
KM 544 62+830				
62+872,908	30	69,936	0,00%	CONVEXE
62+920,989	30	35,837	-0,84%	CONVEXE
62+973,788	20	11,782	0,86%	CONCAVE
63+003,428	30	64,604	0,40%	CONVEXE
63+059,745	20	33,528	-0,20%	CONVEXE
63+142,019	10	11,357	-1,08%	CONVEXE
63+154,414	10	5,094	0,88%	CONCAVE
63+187,637	10	7,179	-0,51%	CONVEXE
63+203,096	10	10,08	0,48%	CONCAVE
63+250,704	30	27,528	-0,61%	CONVEXE
63+275,672	15	10,623	0,80%	CONCAVE
63+359,082	10	9,96	-0,20%	CONVEXE
63+376,517	20	19,138	0,84%	CONCAVE
63+415,485	25	40,007	0,22%	CONVEXE
63+444,202	20	25,859	0,99%	CONCAVE
63+501,615	10	12,807	0,21%	CONVEXE
63+517,651	10	11,474	1,08%	CONCAVE
63+565,550	20	26,349	0,32%	CONVEXE
63+627,188	10	59,665	0,16%	CONVEXE
63+645,675	20	31,158	0,80%	CONCAVE
63+668,085	20	56,231	0,44%	CONVEXE
63+787,251	10	14,18	1,15%	CONCAVE
63+805,451	10	14,053	0,44%	CONVEXE
63+851,015	60	78,017	1,21%	CONCAVE
63+898,949	20	26,09	0,44%	CONVEXE
63+934,922	50	38,423	1,74%	CONCAVE
63+986,630	40	55,421	1,02%	CONVEXE
64+039,733	30	29,447	0,00%	CONVEXE
64+070,230	20	20,515	0,97%	CONCAVE
64+108,491	30	21,462	-0,42%	CONVEXE
64+154,123	35	38,825	0,48%	CONCAVE
64+277,836	20	46,077	0,91%	CONCAVE
64+314,984	20	40,547	0,42%	CONVEXE
64+342,886	20	25,538	1,20%	CONCAVE
64+376,982	10	25,518	0,81%	CONVEXE
64+420,408	40	11,866	4,18%	CONCAVE
64+517,429	30	23,874	5,44%	CONCAVE

LÉGENDE FACTEUR K DES COURBES VERTICALES	
VITESSE < 50 km/h (K < 8 (convexe) ; K < 12 (concave)	
50 <= VITESSE < 60 km/h (8 <= K < 13 (convexe) ; 12 <= K < 17 (concave)	
60 <= VITESSE < 70 km/h (13 <= K < 22 (convexe) ; 17 <= K < 24 (concave)	
70 <= VITESSE < 80 km/h (22 <= K < 36 (convexe) ; 24 <= K < 32 (concave)	
80 <= VITESSE < 90 km/h (36 <= K < 54 (convexe) ; 32 <= K < 40 (concave)	
90 <= VITESSE < 100 km/h (54 <= K < 74 (convexe) ; 40 <= K < 49 (concave)	
100 km/h <= VITESSE (74 <= K (convexe) ; 49 <= K (concave)	

LÉGENDE LONGUEUR DES COURBES VERTICALES L _{min} (en m) = VITESSE (en km/h)	
VITESSE < 50 km/h (L < 50 m)	
50 <= VITESSE < 60 km/h (50 <= L < 60 m)	
60 <= VITESSE < 70 km/h (60 <= L < 70 m)	
70 <= VITESSE < 80 km/h (70 <= L < 80 m)	
80 <= VITESSE < 90 km/h (80 <= L < 90 m)	
90 <= VITESSE < 100 km/h (90 <= L < 90 m)	
100 km/h <= VITESSE (100 m <= L)	

ANALYSE DES COURBES VERTICALES				
CHAÎNAGE DU P.I.	LONG. COURBE	FACTEUR K	PENTE	TYPE
64+563,732	20	12,453	3,83%	CONVEXE
64+644,655	70	16,723	-0,35%	CONVEXE
64+706,270	20	33,792	0,24%	CONCAVE
KM 546 64+713				
64+783,568	60	18,953	3,40%	CONCAVE
64+830,693	20	8,987	1,18%	CONVEXE
64+887,386	40	5,547	8,39%	CONCAVE
64+938,069	30	5,172	2,59%	CONVEXE
65+007,973	70	15,882	7,00%	CONCAVE
65+071,603	50	14,965	10,34%	CONCAVE
65+117,067	30	12,981	12,65%	CONCAVE
65+142,406	20	3,374	6,72%	CONVEXE
65+212,038	45	7,098	0,38%	CONVEXE
65+313,264	20	23,484	-0,47%	CONVEXE
65+342,180	30	16,891	1,31%	CONCAVE
65+367,912	15	16,698	0,41%	CONVEXE
65+396,625	40	14,44	3,18%	CONCAVE
65+444,837	40	10,468	7,00%	CONCAVE
65+497,988	50	10,945	2,43%	CONVEXE
65+574,344	50	17,75	-0,39%	CONVEXE
65+627,953	40	4,119	9,32%	CONCAVE
65+675,817	45	4,274	-1,20%	CONVEXE
65+718,075	20	6,17	-4,45%	CONVEXE
65+756,628	30	6,412	0,23%	CONCAVE
65+796,568	10	8,068	1,47%	CONCAVE
65+813,955	20	19,939	0,47%	CONVEXE
65+875,112	70	28,021	-2,03%	CONVEXE
66+011,345	20	15,156	-0,71%	CONCAVE
66+040,954	15	14,854	-1,72%	CONVEXE
66+065,967	25	10,8	0,60%	CONCAVE
66+100,716	40	21,893	-1,23%	CONVEXE
66+144,081	35	25,113	-2,63%	CONVEXE
66+226,935	30	15,938	-4,51%	CONVEXE
66+277,808	40	18,321	-6,69%	CONVEXE
66+322,288	15	2,294	-0,15%	CONCAVE
66+351,728	7	4,254	1,49%	CONCAVE
66+359,231	7	6,212	0,37%	CONVEXE
66+443,701	60	27,342	2,56%	CONCAVE
66+497,953	40	23,271	4,28%	CONCAVE
66+561,027	45	15,934	1,46%	CONVEXE
KM 548 66+590				
66+618,757	50	29,476	-0,24%	CONVEXE
66+685,499	80	36,457	-2,44%	CONVEXE
66+881,756	80	50,335	-0,85%	CONCAVE
66+983,031	115	35,197	2,42%	CONCAVE
67+107,148	40	29,329	1,06%	CONVEXE
67+191,895	40	44,082	1,96%	CONCAVE
67+304,025	150	44,48	5,34%	CONCAVE
67+588,473	200	67,308	2,37%	CONVEXE
67+952,354	160	33,584	-2,40%	CONVEXE
68+142,592	120	37,129	0,83%	CONCAVE
68+473,644	20	56,198	1,19%	CONCAVE
68+511,482	40	90,295	0,75%	CONVEXE
KM 550 68+586				
68+635,294	80	39,433	2,78%	CONCAVE
68+753,743	150	39,897	-0,98%	CONVEXE
68+958,988	200	58,914	-4,38%	CONVEXE
69+160,085	150	34,608	-0,05%	CONCAVE
69+454,154	40	62,275	0,60%	CONCAVE
69+609,073	150	91,904	2,23%	CONCAVE
69+720,188	20	43,007	2,69%	CONCAVE
69+816,504	160	33,282	-2,11%	CONVEXE
69+932,969	30	51,337	-2,70%	CONVEXE
70+103,870	270	46,323	3,13%	CONCAVE
70+392,362	165	32,663	-2,45%	CONVEXE
70+530,183	60	48,425	-1,21%	CONCAVE
KM 552 70+575				
70+593,251	60	140,432	-1,64%	CONVEXE
70+667,959	80	63,358	-0,37%	CONCAVE
70+804,991	100	84,536	-1,56%	CONVEXE
70+886,542	60	68,605	-0,68%	CONCAVE
70+984,386	60	109,677	-0,14%	CONCAVE
71+119,279	70	180,731	0,25%	CONCAVE
71+198,753	80	200,845	-0,15%	CONVEXE
71+313,302	130	69,256	1,73%	CONCAVE
71+443,501	125	54,514	4,02%	CONCAVE
71+590,813	120	32,936	0,38%	CONVEXE
71+706,617	100	53,519	-1,49%	CONVEXE
71+836,945	80	49,019	0,14%	CONCAVE
71+963,101	130	56,35	2,45%	CONCAVE
72+149,513	175	35,959	-2,42%	CONVEXE
72+475,853	310	57,602	2,97%	CONCAVE
KM 554 72+590				
73+129,084	100	188,864	3,50%	CONCAVE
73+239,497	100	43,935	1,22%	CONVEXE
73+397,744	140	39,674	4,75%	CONCAVE
73+573,091	200	39,352	-0,33%	CONVEXE
73+789,779	120	60,743	-2,31%	CONVEXE
73+935,485	160	38,66	1,83%	CONCAVE
74+211,550	210	29,522	-5,28%	CONVEXE
74+382,002	90	39,353	-3,00%	CONCAVE

LÉGENDE FACTEUR K DES COURBES VERTICALES	
VITESSE < 50 km/h (K < 8 (convexe) ; K < 12 (concave)	
50 <= VITESSE < 60 km/h (8 <= K < 13 (convexe) ; 12 <= K < 17 (concave)	
60 <= VITESSE < 70 km/h (13 <= K < 22 (convexe) ; 17 <= K < 24 (concave)	
70 <= VITESSE < 80 km/h (22 <= K < 36 (convexe) ; 24 <= K < 32 (concave)	
80 <= VITESSE < 90 km/h (36 <= K < 54 (convexe) ; 32 <= K < 40 (concave)	
90 <= VITESSE < 100 km/h (54 <= K < 74 (convexe) ; 40 <= K < 49 (concave)	
100 km/h <= VITESSE (74 <= K (convexe) ; 49 <= K (concave)	

LÉGENDE LONGUEUR DES COURBES VERTICALES L _{min} (en m) = VITESSE (en km/h)	
VITESSE < 50 km/h (L < 50 m)	
50 <= VITESSE < 60 km/h (50 <= L < 60 m)	
60 <= VITESSE < 70 km/h (60 <= L < 70 m)	
70 <= VITESSE < 80 km/h (70 <= L < 80 m)	
80 <= VITESSE < 90 km/h (80 <= L < 90 m)	
90 <= VITESSE < 100 km/h (90 <= L < 90 m)	
100 km/h <= VITESSE (100 m <= L)	

ANALYSE DES COURBES VERTICALES				
CHAÎNAGE DU P.I.	LONG. COURBE	FACTEUR K	PENTE	TYPE
74+543,266	40	42,915	-2,07%	CONCAVE
KM 556 74+585				
74+690,373	230	59,035	1,83%	CONCAVE
75+008,901	120	78,386	0,30%	CONVEXE
75+130,136	20	108,074	0,48%	CONCAVE
75+253,156	110	39,895	-2,27%	CONVEXE
75+400,597	110	45,093	-4,71%	CONVEXE
75+585,649	150	45,475	-1,41%	CONCAVE
75+790,932	230	43,818	3,84%	CONCAVE
76+069,294	110	35,255	0,72%	CONVEXE
76+191,229	40	45,411	-0,17%	CONVEXE
76+258,213	90	48,48	1,69%	CONCAVE
76+350,599	50	47,99	2,73%	CONCAVE
76+431,729	60	50,662	1,55%	CONVEXE
76+517,989	100	53,416	-0,32%	CONVEXE
KM 558 76+585				
76+620,423	100	70,904	-1,73%	CONVEXE
76+763,028	130	22,924	-7,41%	CONVEXE
76+911,654	140	24,936	-1,79%	CONCAVE
77+109,880	140	92,945	-0,28%	CONCAVE
77+328,414	20	25,379	-1,07%	CONVEXE
77+419,775	20	41,134	-1,56%	CONVEXE
77+524,722	80	116,873	-0,87%	CONCAVE
77+839,346	200	380,551	-0,35%	CONCAVE
78+070,121	240	327,957	0,38%	CONCAVE
78+469,622	110	107,125	1,41%	CONCAVE
KM 560 78+536				
78+579,353	100	50,987	-0,55%	CONVEXE
78+792,236	140	188,727	0,19%	CONCAVE
79+150,554	225	32,195	7,18%	CONCAVE
79+480,800	120	26,315	2,62%	CONVEXE
79+563,055	20	17,011	1,44%	CONVEXE
79+667,908	185	27,665	-5,24%	CONVEXE
79+936,984	130	46,179	-2,43%	CONCAVE
80+033,274	40	67,545	-3,02%	CONVEXE
80+157,987	40	63,806	-3,65%	CONVEXE
80+215,121	60	83,107	-2,93%	CONCAVE
80+516,460	120	40,904	-5,86%	CONVEXE
KM 562 80+595				
80+844,175	140	38,013	-2,18%	CONVEXE
81+155,144	130	72,797	-0,39%	CONCAVE
81+426,813	240	449,556	-0,93%	CONVEXE
81+666,559	110	125,865	-0,05%	CONCAVE
81+742,744	30	63,275	-0,53%	CONVEXE
81+797,188	50	95,181	0,00%	CONCAVE
81+854,590	40	106,363	-0,38%	CONVEXE
81+963,878	50	111,813	-0,82%	CONVEXE
82+148,149	100	73,946	-2,18%	CONVEXE
82+289,261	160	35,229	-6,72%	CONVEXE
82+590,244	250	48,77	-1,59%	CONCAVE
82+782,604	80	54,708	-0,13%	CONCAVE
82+914,405	135	26,221	5,02%	CONCAVE
KM 564 82+969				
83+004,511	20	20,306	6,00%	CONCAVE
83+188,221	160	35,386	1,48%	CONVEXE
83+515,126	235	40,261	-4,35%	CONVEXE
83+885,645	125	41,004	-1,31%	CONCAVE
84+193,895	90	102,971	-0,43%	CONCAVE
84+335,292	50	78,293	0,21%	CONCAVE
84+383,551	40	57,028	-0,49%	CONVEXE
84+489,177	30	63,514	-0,02%	CONCAVE
84+521,207	20	34,236	-0,61%	CONVEXE
84+553,878	40	35,371	0,52%	CONCAVE
KM 566 84+596				
84+631,426	110	52,387	2,62%	CONCAVE
84+698,522	20	63,378	2,94%	CONCAVE
84+772,158	80	102,982	2,16%	CONVEXE
84+822,959	20	38,14	2,69%	CONCAVE
84+993,662	20	14,935	1,35%	CONVEXE

LÉGENDE	
FACTEUR K DES COURBES VERTICALES	
VITESSE < 50 km/h (K < 8 (convexe) ; K < 12 (concave)	
50 <= VITESSE < 60 km/h (8 <= K < 13 (convexe) ; 12 <= K < 17 (concave)	
60 <= VITESSE < 70 km/h (13 <= K < 22 (convexe) ; 17 <= K < 24 (concave)	
70 <= VITESSE < 80 km/h (22 <= K < 36 (convexe) ; 24 <= K < 32 (concave)	
80 <= VITESSE < 90 km/h (36 <= K < 54 (convexe) ; 32 <= K < 40 (concave)	
90 <= VITESSE < 100 km/h (54 <= K < 74 (convexe) ; 40 <= K < 49 (concave)	
100 km/h <= VITESSE (74 <= K (convexe) ; 49 <= K (concave)	

LÉGENDE	
LONGUEUR DES COURBES VERTICALES	
L _{min} (en m) = VITESSE (en km/h)	
VITESSE < 50 km/h (L < 50 m)	
50 <= VITESSE < 60 km/h (50 <= L < 60 m)	
60 <= VITESSE < 70 km/h (60 <= L < 70 m)	
70 <= VITESSE < 80 km/h (70 <= L < 80 m)	
80 <= VITESSE < 90 km/h (80 <= L < 90 m)	
90 <= VITESSE < 100 km/h (90 <= L < 90 m)	
100 km/h <= VITESSE (100 m <= L)	