

 Durdákova 5, 613 00 Brno Tel: +420 542 219 165, 739 556 045 E-mail: hpconsult@seznam.cz www.bim-tzb.cz	PROJEKTANT VODOHOSPODÁŘSKÝCH OBJEKTŮ (SO řady 300) A OBJEKTŮ TRUBNÍCH VEDENÍ (SO řady 500)	
	ZODPOVĚDNÝ PROJEKTANT	Ing. Ladislav Pilař 
	VEDOUcí PROJEKTANT	Ing. Ladislav Pilař
	VYPRACOVAL	Ing. Ladislav Pilař

Výškový systém: B.p.v.
Souřadnicový systém: JTSK

 Atelier DPK, s.r.o. Žižkova 5 602 00 Brno tel./fax: 541240616 atelier@atelier-dpk.cz	GENERÁLNÍ PROJEKTANT	
	HLAVNÍ INŽENÝR PROJEKTU	Ing. Petr Soldán
	ZODPOVĚDNÝ PROJEKTANT	Ing. Kateřina Mičová Polesná
	VEDOUcí PROJEKTANT	Ing. Petr Soldán
	VYPRACOVAL	Ing. Lukáš Konečný

INVESTOR STATUTÁRNÍ MĚSTO BRNO - MĚSTSKÁ ČÁST BRNO - ŽEBĚTÍN se sídlem Brno, Křivánkovo nám. 35, zastoupený Ing. Vítem Beranem, starostou MČ Brno-Žebětín	DATUM	08/2024
	ČÍSLO ZAKÁZKY ZPRACOVATELE	16_02_115
	ČÍSLO ZAKÁZKY OBJEDNATELE	-
NÁZEV ZAKÁZKY KANALIZACE V ULICI POD BOROVNÍKEM, ŽEBĚTÍN	MĚŘÍTKO	-
STUPEŇ PROJEKTOVÉ DOKUMENTACE Dokumentace pro provedení stavby	FORMÁT	-
OBJEKT SO 101 Komunikace a zpevněné plochy	PARÉ	-
ČÁST -	ČÍSLO VÝKRESU / REVIZE	101.05
DOKUMENT (VÝKRES) Vytyčovací hodnoty		

MÍSTNÍ KOMUNIKACE - horizontální

	STATION	NORTHING	EASTING
Element: Linear			
ZU ()	0+000,000	-1159066,245	-606538,147
TK ()	0+005,773	-1159062,677	-606533,609
Tangent Direction:	N51,8^ E		
Tangent Length:	5,773		
Element: Circular			
TK ()	0+005,773	-1159062,677	-606533,609
V ()	0+012,285	-1159058,652	-606528,490
S ()		-1159046,955	-606545,972
KT ()	0+018,364	-1159052,384	-606526,723
Radius:	20,000		
Delta:	36,1^	Left	
Degree of Curvature(Arc):	286,5^		
Length:	12,591		
Tangent:	6,512		
Chord:	12,384		
Middle Ordinate:	0,983		
External:	1,033		
Tangent Direction:	N51,8^ E		
Radial Direction:	S38,2^ E		
Chord Direction:	N33,8^ E		
Radial Direction:	S74,3^ E		
Tangent Direction:	N15,7^ E		
Element: Linear			
KT ()	0+018,364	-1159052,384	-606526,723
TK ()	0+022,055	-1159048,832	-606525,721
Tangent Direction:	N15,7^ E		
Tangent Length:	3,691		
Element: Circular			
TK ()	0+022,055	-1159048,832	-606525,721
V ()	0+029,793	-1159041,384	-606523,620
S ()		-1159062,403	-606477,598
KT ()	0+037,410	-1159034,919	-606519,367
Radius:	50,000		
Delta:	17,6^	Right	
Degree of Curvature(Arc):	114,6^		
Length:	15,355		
Tangent:	7,738		
Chord:	15,294		
Middle Ordinate:	0,588		
External:	0,595		
Tangent Direction:	N15,7^ E		
Radial Direction:	S74,3^ E		
Chord Direction:	N24,5^ E		
Radial Direction:	S56,7^ E		
Tangent Direction:	N33,3^ E		
Element: Linear			
KT ()	0+037,410	-1159034,919	-606519,367
TK ()	0+065,511	-1159011,444	-606503,921
Tangent Direction:	N33,3^ E		
Tangent Length:	28,101		
Element: Circular			

TK ()	0+065,511	-1159011,444	-606503,921
V ()	0+083,733	-1158996,222	-606493,905
S ()		-1158988,358	-606539,007
KT ()	0+099,896	-1158978,508	-606498,178
Radius:	42,000		
Delta:	46,9^	Left	
Degree of Curvature(Arc):	136,4^		
Length:	34,385		
Tangent:	18,222		
Chord:	33,433		
Middle Ordinate:	3,470		
External:	3,783		
Tangent Direction:	N33,3^ E		
Radial Direction:	S56,7^ E		
Chord Direction:	N9,9^ E		
Radial Direction:	N76,4^ E		
Tangent Direction:	N13,6^ W		
Element: Linear			
KT ()	0+099,896	-1158978,508	-606498,178
TK ()	0+106,692	-1158971,901	-606499,772
Tangent Direction:	N13,6^ W		
Tangent Length:	6,796		
Element: Circular			
TK ()	0+106,692	-1158971,901	-606499,772
V ()	0+131,150	-1158948,126	-606505,508
S ()		-1158943,758	-606383,119
KT ()	0+154,947	-1158924,002	-606501,482
Radius:	120,000		
Delta:	23,0^	Right	
Degree of Curvature(Arc):	47,7^		
Length:	48,254		
Tangent:	24,458		
Chord:	47,930		
Middle Ordinate:	2,417		
External:	2,467		
Tangent Direction:	N13,6^ W		
Radial Direction:	N76,4^ E		
Chord Direction:	N2,0^ W		
Radial Direction:	S80,5^ E		
Tangent Direction:	N9,5^ E		
Element: Linear			
KT ()	0+154,947	-1158924,002	-606501,482
TK ()	0+163,009	-1158916,050	-606500,154
Tangent Direction:	N9,5^ E		
Tangent Length:	8,063		
Element: Circular			
TK ()	0+163,009	-1158916,050	-606500,154
V ()	0+170,308	-1158908,851	-606498,953
S ()		-1158922,635	-606460,700
KT ()	0+177,448	-1158902,540	-606495,286
Radius:	40,000		
Delta:	20,7^	Right	
Degree of Curvature(Arc):	143,2^		
Length:	14,438		
Tangent:	7,299		
Chord:	14,360		
Middle Ordinate:	0,650		

External:	0,660		
Tangent Direction:	N9,5^ E		
Radial Direction:	S80,5^ E		
Chord Direction:	N19,8^ E		
Radial Direction:	S59,8^ E		
Tangent Direction:	N30,2^ E		
Element: Linear			
KT ()	0+177,448	-1158902,540	-606495,286
TK ()	0+181,392	-1158899,129	-606493,304
Tangent Direction:	N30,2^ E		
Tangent Length:	3,944		
Element: Circular			
TK ()	0+181,392	-1158899,129	-606493,304
V ()	0+186,779	-1158894,471	-606490,598
S ()		-1158848,892	-606579,769
KT ()	0+192,156	-1158889,550	-606488,408
Radius:	100,000		
Delta:	6,2^	Left	
Degree of Curvature(Arc):	57,3^		
Length:	10,764		
Tangent:	5,387		
Chord:	10,758		
Middle Ordinate:	0,145		
External:	0,145		
Tangent Direction:	N30,2^ E		
Radial Direction:	S59,8^ E		
Chord Direction:	N27,1^ E		
Radial Direction:	S66,0^ E		
Tangent Direction:	N24,0^ E		
Element: Linear			
KT ()	0+192,156	-1158889,550	-606488,408
TK ()	0+211,361	-1158872,004	-606480,600
Tangent Direction:	N24,0^ E		
Tangent Length:	19,205		
Element: Circular			
TK ()	0+211,361	-1158872,004	-606480,600
V ()	0+218,121	-1158865,827	-606477,851
S ()		-1158878,103	-606466,895
KT ()	0+224,064	-1158863,796	-606471,403
Radius:	15,000		
Delta:	48,5^	Right	
Degree of Curvature(Arc):	382,0^		
Length:	12,703		
Tangent:	6,761		
Chord:	12,327		
Middle Ordinate:	1,325		
External:	1,453		
Tangent Direction:	N24,0^ E		
Radial Direction:	S66,0^ E		
Chord Direction:	N48,3^ E		
Radial Direction:	S17,5^ E		
Tangent Direction:	N72,5^ E		
Element: Linear			
KT ()	0+224,064	-1158863,796	-606471,403
TK ()	0+238,751	-1158859,383	-606457,394
Tangent Direction:	N72,5^ E		

Tangent Length:	14,687		
Element: Circular			
TK ()	0+238,751	-1158859,383	-606457,394
V ()	0+243,826	-1158857,858	-606452,554
S ()		-1158845,076	-606461,901
KT ()	0+248,538	-1158853,707	-606449,634
Radius:	15,000		
Delta:	37,4^	Left	
Degree of Curvature(Arc):	382,0^		
Length:	9,787		
Tangent:	5,075		
Chord:	9,614		
Middle Ordinate:	0,791		
External:	0,835		
Tangent Direction:	N72,5^ E		
Radial Direction:	S17,5^ E		
Chord Direction:	N53,8^ E		
Radial Direction:	S54,9^ E		
Tangent Direction:	N35,1^ E		
Element: Linear			
KT ()	0+248,538	-1158853,707	-606449,634
TK ()	0+256,779	-1158846,967	-606444,891
Tangent Direction:	N35,1^ E		
Tangent Length:	8,241		
Element: Circular			
TK ()	0+256,779	-1158846,967	-606444,891
V ()	0+266,937	-1158838,659	-606439,046
S ()		-1158921,774	-606338,571
KT ()	0+277,054	-1158831,361	-606431,981
Radius:	130,000		
Delta:	8,9^	Right	
Degree of Curvature(Arc):	44,1^		
Length:	20,275		
Tangent:	10,158		
Chord:	20,254		
Middle Ordinate:	0,395		
External:	0,396		
Tangent Direction:	N35,1^ E		
Radial Direction:	S54,9^ E		
Chord Direction:	N39,6^ E		
Radial Direction:	S45,9^ E		
Tangent Direction:	N44,1^ E		
Element: Linear			
KT ()	0+277,054	-1158831,361	-606431,981
TK ()	0+280,256	-1158829,060	-606429,755
Tangent Direction:	N44,1^ E		
Tangent Length:	3,201		
Element: Circular			
TK ()	0+280,256	-1158829,060	-606429,755
V ()	0+288,746	-1158822,959	-606423,850
S ()		-1158856,880	-606401,013
KT ()	0+296,988	-1158819,784	-606415,975
Radius:	40,000		
Delta:	24,0^	Right	
Degree of Curvature(Arc):	143,2^		
Length:	16,733		

Tangent:	8,490
Chord:	16,611
Middle Ordinate:	0,872
External:	0,891
Tangent Direction:	N44,1^ E
Radial Direction:	S45,9^ E
Chord Direction:	N56,0^ E
Radial Direction:	S22,0^ E
Tangent Direction:	N68,0^ E

Element: Linear

KT ()	0+296,988	-1158819,784	-606415,975
TK ()	0+318,297	-1158811,813	-606396,213
Tangent Direction:	N68,0^ E		
Tangent Length:	21,309		

Element: Circular

TK ()	0+318,297	-1158811,813	-606396,213
V ()	0+333,780	-1158806,021	-606381,855
S ()		-1157884,408	-606770,272
KT ()	0+349,260	-1158799,788	-606367,682
Radius:	1000,000		
Delta:	1,8^	Left	
Degree of Curvature(Arc):	5,7^		
Length:	30,963		
Tangent:	15,483		
Chord:	30,962		
Middle Ordinate:	0,120		
External:	0,120		
Tangent Direction:	N68,0^ E		
Radial Direction:	S22,0^ E		
Chord Direction:	N67,1^ E		
Radial Direction:	S23,7^ E		
Tangent Direction:	N66,3^ E		

Element: Linear

KT ()	0+349,260	-1158799,788	-606367,682
TK ()	0+354,303	-1158797,758	-606363,066
Tangent Direction:	N66,3^ E		
Tangent Length:	5,043		

Element: Circular

TK ()	0+354,303	-1158797,758	-606363,066
V ()	0+363,715	-1158793,969	-606354,451
S ()		-1158813,319	-606356,222
KT ()	0+371,495	-1158799,259	-606346,666
Radius:	17,000		
Delta:	57,9^	Right	
Degree of Curvature(Arc):	337,0^		
Length:	17,192		
Tangent:	9,412		
Chord:	16,468		
Middle Ordinate:	2,127		
External:	2,432		
Tangent Direction:	N66,3^ E		
Radial Direction:	S23,7^ E		
Chord Direction:	S84,8^ E		
Radial Direction:	S34,2^ W		
Tangent Direction:	S55,8^ E		

Element: Linear

KT ()	0+371,495	-1158799,259	-606346,666
KU ()	0+372,485	-1158799,816	-606345,847
Tangent Direction:	S55,8^ E		
Tangent Length:	0,991		

MÍSTNÍ KOMUNIKACE - vertikální

	STATION	ELEVATION
Element: Linear		
ZU	0+000,000	320,402
ZZ	0+005,695	320,288
Tangent Grade:	-2,000	
Tangent Length:	5,695	
Element: Parabola		
ZZ	0+005,695	320,288
V	0+006,395	320,274
KZ	0+007,095	320,211
Length:	1,400	
Entrance Grade:	-2,000	
Exit Grade:	-9,000	
$r = (g_2 - g_1) / L$:	-500,000	
$K = 1 / (g_2 - g_1)$:	0,200	
Middle Ordinate:	-0,012	
Element: Linear		
KZ	0+007,095	320,211
ZZ	0+011,338	319,829
Tangent Grade:	-9,000	
Tangent Length:	4,243	
Element: Parabola		
ZZ	0+011,338	319,829
V	0+014,238	319,568
KZ	0+017,138	319,475
Length:	5,800	
Entrance Grade:	-9,000	
Exit Grade:	-3,200	
$r = (g_2 - g_1) / L$:	100,000	
$K = 1 / (g_2 - g_1)$:	1,000	
Middle Ordinate:	0,042	
Element: Linear		
KZ	0+017,138	319,475
ZZ	0+039,096	318,773
Tangent Grade:	-3,200	
Tangent Length:	21,958	
Element: Parabola		
ZZ	0+039,096	318,773
V	0+057,096	318,197
KZ	0+075,096	317,297
Length:	36,000	
Entrance Grade:	-3,200	
Exit Grade:	-5,000	
$r = (g_2 - g_1) / L$:	-5,000	
$K = 1 / (g_2 - g_1)$:	20,000	
Middle Ordinate:	-0,081	
Element: Linear		
KZ	0+075,096	317,297
ZZ	0+105,940	315,754
Tangent Grade:	-5,000	
Tangent Length:	30,844	
Element: Parabola		

ZZ	0+105,940	315,754
V	0+141,940	313,954
KZ	0+177,940	313,018
Length:	72,000	
Entrance Grade:	-5,000	
Exit Grade:	-2,600	
$r = (g_2 - g_1) / L$:	3,333	
$K = 1 / (g_2 - g_1)$:	30,000	
Middle Ordinate:	0,216	
Element: Linear		
KZ	0+177,940	313,018
ZZ	0+302,208	309,787
Tangent Grade:	-2,600	
Tangent Length:	124,268	
Element: Parabola		
ZZ	0+302,208	309,787
V	0+321,708	309,280
KZ	0+341,208	309,534
MIN	0+328,208	309,449
Length:	39,000	
Headlight Sight Distance:	63,279	
Entrance Grade:	-2,600	
Exit Grade:	1,300	
$r = (g_2 - g_1) / L$:	10,000	
$K = 1 / (g_2 - g_1)$:	10,000	
Middle Ordinate:	0,190	
Element: Linear		
KZ	0+341,208	309,534
ZZ	0+351,721	309,671
Tangent Grade:	1,300	
Tangent Length:	10,513	
Element: Parabola		
ZZ	0+351,721	309,671
V	0+360,421	309,784
KZ	0+369,121	310,654
Length:	17,400	
Entrance Grade:	1,300	
Exit Grade:	10,000	
$r = (g_2 - g_1) / L$:	50,000	
$K = 1 / (g_2 - g_1)$:	2,000	
Middle Ordinate:	0,189	
Element: Linear		
KZ	0+369,121	310,654
KU	0+372,485	310,990
Tangent Grade:	10,000	
Tangent Length:	3,364	

STAVENIŠTNÍ KOMUNIKACE - horizontální

	STATION	NORTHING	EASTING
Element: Linear			
ZU ()	0+000,000	-1158795,222	-606352,383
TK ()	0+013,777	-1158784,833	-606343,336
Tangent Direction:	N41,1^ E		
Tangent Length:	13,777		
Element: Circular			
TK ()	0+013,777	-1158784,833	-606343,336
V ()	0+021,673	-1158778,877	-606338,150
S ()		-1158751,996	-606381,042
KT ()	0+029,441	-1158771,614	-606335,051
Radius:	50,000		
Delta:	17,9^	Left	
Degree of Curvature(Arc):	114,6^		
Length:	15,664		
Tangent:	7,897		
Chord:	15,600		
Middle Ordinate:	0,612		
External:	0,620		
Tangent Direction:	N41,1^ E		
Radial Direction:	S48,9^ E		
Chord Direction:	N32,1^ E		
Radial Direction:	S66,9^ E		
Tangent Direction:	N23,1^ E		
Element: Linear			
KT ()	0+029,441	-1158771,614	-606335,051
TK ()	0+038,922	-1158762,893	-606331,331
Tangent Direction:	N23,1^ E		
Tangent Length:	9,481		
Element: Circular			
TK ()	0+038,922	-1158762,893	-606331,331
V ()	0+047,248	-1158755,235	-606328,065
S ()		-1158782,510	-606285,341
KT ()	0+055,422	-1158749,048	-606322,493
Radius:	50,000		
Delta:	18,9^	Right	
Degree of Curvature(Arc):	114,6^		
Length:	16,500		
Tangent:	8,326		
Chord:	16,426		
Middle Ordinate:	0,679		
External:	0,688		
Tangent Direction:	N23,1^ E		
Radial Direction:	S66,9^ E		
Chord Direction:	N32,6^ E		
Radial Direction:	S48,0^ E		
Tangent Direction:	N42,0^ E		
Element: Linear			
KT ()	0+055,422	-1158749,048	-606322,493
TK ()	0+078,150	-1158732,161	-606307,282
Tangent Direction:	N42,0^ E		
Tangent Length:	22,728		
Element: Circular			
TK ()	0+078,150	-1158732,161	-606307,282

V ()	0+082,037	-1158729,272	-606304,681
S ()		-1158765,623	-606270,130
KT ()	0+085,909	-1158726,821	-606301,664
Radius:	50,000		
Delta:	8,9^	Right	
Degree of Curvature(Arc):	114,6^		
Length:	7,759		
Tangent:	3,887		
Chord:	7,751		
Middle Ordinate:	0,150		
External:	0,151		
Tangent Direction:	N42,0^ E		
Radial Direction:	S48,0^ E		
Chord Direction:	N46,5^ E		
Radial Direction:	S39,1^ E		
Tangent Direction:	N50,9^ E		
Element: Linear			
KT ()	0+085,909	-1158726,821	-606301,664
TK ()	0+122,421	-1158703,793	-606273,329
Tangent Direction:	N50,9^ E		
Tangent Length:	36,512		
Element: Circular			
TK ()	0+122,421	-1158703,793	-606273,329
V ()	0+127,626	-1158700,511	-606269,290
S ()		-1158664,991	-606304,863
KT ()	0+132,794	-1158696,466	-606266,013
Radius:	50,000		
Delta:	11,9^	Left	
Degree of Curvature(Arc):	114,6^		
Length:	10,373		
Tangent:	5,205		
Chord:	10,355		
Middle Ordinate:	0,269		
External:	0,270		
Tangent Direction:	N50,9^ E		
Radial Direction:	S39,1^ E		
Chord Direction:	N45,0^ E		
Radial Direction:	S51,0^ E		
Tangent Direction:	N39,0^ E		
Element: Linear			
KT ()	0+132,794	-1158696,466	-606266,013
KU ()	0+222,793	-1158626,536	-606209,360
Tangent Direction:	N39,0^ E		
Tangent Length:	89,999		

STAVENIŠTNÍ KOMUNIKACE - horizontální

	STATION	ELEVATION
Element: Linear		
ZU	0+000,000	310,216
ZZ	0+000,830	310,175
Tangent Grade:	-5,000	
Tangent Length:	0,830	
Element: Parabola		
ZZ	0+000,830	310,175
V	0+005,830	309,925
KZ	0+010,830	309,175
Length:	10,000	
Entrance Grade:	-5,000	
Exit Grade:	-15,000	
$r = (g_2 - g_1) / L$:	-100,000	
$K = 1 / (g_2 - g_1)$:	1,000	
Middle Ordinate:	-0,125	
Element: Linear		
KZ	0+010,830	309,175
ZZ	0+014,849	308,572
Tangent Grade:	-15,000	
Tangent Length:	4,019	
Element: Parabola		
ZZ	0+014,849	308,572
V	0+027,149	306,727
KZ	0+039,449	306,395
Length:	24,600	
Entrance Grade:	-15,000	
Exit Grade:	-2,700	
$r = (g_2 - g_1) / L$:	50,000	
$K = 1 / (g_2 - g_1)$:	2,000	
Middle Ordinate:	0,378	
Element: Linear		
KZ	0+039,449	306,395
ZZ	0+148,244	303,457
Tangent Grade:	-2,700	
Tangent Length:	108,795	
Element: Parabola		
ZZ	0+148,244	303,457
V	0+157,744	303,201
KZ	0+167,244	303,125
Length:	19,000	
Entrance Grade:	-2,700	
Exit Grade:	-0,800	
$r = (g_2 - g_1) / L$:	10,000	
$K = 1 / (g_2 - g_1)$:	10,000	
Middle Ordinate:	0,045	
Element: Linear		
KZ	0+167,244	303,125
ZZ	0+203,523	302,834
Tangent Grade:	-0,800	
Tangent Length:	36,279	
Element: Parabola		

ZZ	0+203,523	302,834
V	0+210,273	302,780
KZ	0+217,023	302,544
Length:	13,500	
Entrance Grade:	-0,800	
Exit Grade:	-3,500	
$r = (g_2 - g_1) / L$:	-20,000	
$K = 1 / (g_2 - g_1)$:	5,000	
Middle Ordinate:	-0,046	
Element: Linear		
KZ	0+217,023	302,544
KU	0+222,793	302,342
Tangent Grade:	-3,500	
Tangent Length:	5,770	