

## 中 心 線 ( 幅 杭 ) 座 標 計 算 簿

路線名 : 測量計算システムの開発

測 点 ( STA )	単距離 ( L )	追加距離 ( TD )	座 標 値		接線方向角 ( A )
			( X )	( Y )	
NO. 0 (BP )	0. 0000	0. 0000	-60481. 2480	-70842. 5940	102- 0-12. 82
		(L) 24. 5000	-60457. 2837	-70837. 4987	
		(R) 13. 9000	-60494. 8441	-70845. 4848	
NO. 1	20. 0000	20. 0000	-60485. 4074	-70823. 0313	102- 0-12. 82
		(L) 12. 5000	-60473. 1808	-70820. 4317	
		(R) 25. 8800	-60510. 7216	-70828. 4136	
NO. 2	20. 0000	40. 0000	-60489. 5669	-70803. 4686	102- 0-12. 82
		(L) 33. 3000	-60456. 9950	-70796. 5431	
		(R) 26. 4000	-60515. 3897	-70808. 9591	
+ 5. 0000	5. 0000	45. 0000	-60490. 6068	-70798. 5779	102- 0-12. 82
		(L) 29. 0000	-60462. 2409	-70792. 5467	
NO. 3	15. 0000	60. 0000	-60493. 7263	-70783. 9059	102- 0-12. 82
+ 8. 8782	8. 8782	68. 8782	-60495. 5728	-70775. 2218	102- 0-12. 82
IP. 1 IA= 54-19-31. 48					
	X= -60506. 2440	R= 100. 0000	TL= 51. 3108		
	Y= -70725. 0330	CL= 94. 8157	SL= 12. 3957		
+ 8. 8782 (BC1 )	8. 8782	68. 8782	-60495. 5728	-70775. 2218	102- 0-12. 82
+10. 0000	1. 1218	70. 0000	-60495. 8122	-70774. 1259	102-38-46. 68
		(L) 13. 4500	-60482. 6885	-70771. 1813	
		(R) 32. 2000	-60527. 2311	-70781. 1755	
+15. 0000	5. 0000	75. 0000	-60497. 0284	-70769. 2766	105-30-39. 93
		(L) 15. 2200	-60482. 3627	-70765. 2064	
		(R) 24. 7800	-60520. 9058	-70775. 9034	
NO. 4	5. 0000	80. 0000	-60498. 4854	-70764. 4941	108-22-33. 17
		(L) 36. 4000	-60463. 9414	-70753. 0190	
		(L) 26. 9000	-60472. 9570	-70756. 0139	
		(R) 54. 1000	-60549. 8267	-70781. 5491	
		(R) 24. 0000	-60521. 2616	-70772. 0601	
NO. 5	20. 0000	100. 0000	-60506. 6401	-70746. 2686	119-50- 6. 13
		(R) 52. 5000	-60552. 1818	-70772. 3876	
+16. 2861 (SP1 )	16. 2861	116. 2861	-60515. 8546	-70732. 8618	129- 9-58. 56
+16. 2861	0. 0000	116. 2861	-60515. 8546	-70732. 8618	129- 9-58. 62
		(L) 50. 5500	-60476. 6624	-70700. 9357	
		(R) 50. 7000	-60555. 1631	-70764. 8825	
NO. 6	3. 7139	120. 0000	-60518. 2531	-70730. 0265	131-17-39. 09
		(L) 42. 1000	-60486. 6221	-70702. 2437	
		(R) 26. 1000	-60537. 8629	-70747. 2506	
NO. 7	20. 0000	140. 0000	-60532. 8615	-70716. 4154	142-45-12. 05
NO. 8	20. 0000	160. 0000	-60549. 8828	-70705. 9777	154-12-45. 01
+ 3. 6939 (EC1 )	3. 6939	163. 6939	-60553. 2378	-70704. 4325	156-19-44. 30

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			( X )	( Y )	
+ 3.6939	3.6939	163.6939	-60553.2378	-70704.4325	156-19-44.30
+ 3.6939	0.0000	163.6939	-60553.2378	-70704.4325	156-19-44.30
		(L) 33.5000	-60539.7880	-70673.7510	
		(R) 11.8000	-60557.9753	-70715.2397	
NO.9	16.3061	180.0000	-60568.1719	-70697.8859	156-19-44.30
NO.10	20.0000	200.0000	-60586.4892	-70689.8562	156-19-44.30
+13.9603	13.9603	213.9603	-60599.2750	-70684.2513	156-19-44.30
IP.2	IA= 65-47-32.90	L1= 45.0000	L2= 45.0000	y1= 4.1950	y2= 4.1950
	X= -60667.8440	dR1= 1.0517	dR2= 1.0517	Tc1= 74.8680	Tc2= 74.8680
	Y= -70654.1930	Xm1= 22.4408	Xm2= 22.4408	S01= 44.8420	S02= 44.8420
		x1= 44.6453	x2= 44.6453	W= 52.4272	
	R= 80.0000	Lc= 46.8636	CL= 136.8636	A1= 60.0000	A2= 60.0000
+13.9603 (KA2-1 )	13.9603	213.9603	-60599.2750	-70684.2513	156-19-44.30
NO.11	6.0397	220.0000	-60604.8106	-70681.8358	156-37- 9.32
NO.12	20.0000	240.0000	-60623.4307	-70674.5543	161-43-29.47
+18.9603 (KE2-1 )	18.9603	258.9603	-60641.8484	-70670.1689	172-26-36.28
NO.13	1.0397	260.0000	-60642.8799	-70670.0389	173-11-16.96
NO.14	20.0000	280.0000	-60662.8275	-70670.1608	187-30-43.16
NO.15	20.0000	300.0000	-60682.1248	-70675.2140	201-50- 9.37
+ 5.8239 (KE2-2 )	5.8239	305.8239	-60687.4473	-70677.5750	206- 0-25.23
NO.16	14.1761	320.0000	-60699.6441	-70684.7739	214-33-38.45
NO.17	20.0000	340.0000	-60715.3079	-70697.1914	221-11-20.90
+10.8239 (KA2-2 )	10.8239	350.8239	-60723.3754	-70704.4073	222- 7-17.21
+10.8239	10.8239	350.8239	-60723.3754	-70704.4073	222- 7-17.21
NO.18	9.1761	360.0000	-60730.1816	-70710.5617	222- 7-17.21
+ 2.2287	2.2287	362.2287	-60731.8347	-70712.0565	222- 7-17.21
IP.3	IA= 90-39-26.85	L1= 81.7624	L2= 81.7624	y1= 20.6168	y2= 20.6168
	X= -60804.2610	dR1= 5.2715	dR2= 5.2715	Tc1= 97.6458	Tc2= 97.6458
	Y= -70777.5480	Xm1= 40.0430	Xm2= 40.0430	S01= 79.5105	S02= 79.5105
		x1= 76.7911	x2= 76.7911	W= 57.6028	
	R= 51.6741	Lc= 0.0000	CL= 163.5249	A1= 65.0000	A2= 65.0000

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+ 2.2287 (KA3-1 )	2.2287	362.2287	-60731.8347	-70712.0565	222- 7-17.21
NO.19	17.7713	380.0000	-60745.1627	-70723.8099	219-58-48.09
NO.20	20.0000	400.0000	-60761.1936	-70735.7443	212-26-52.20
NO.21	20.0000	420.0000	-60779.0662	-70744.6248	199-29-28.28
NO.22	20.0000	440.0000	-60798.6307	-70748.3405	181- 6-36.33
+ 3.9912 (KEE3 )	3.9912	443.9912	-60802.6203	-70748.2687	176-47-33.78
NO.23	16.0088	460.0000	-60818.2565	-70745.0865	160-46-48.07
NO.24	20.0000	480.0000	-60835.9878	-70735.9607	145-39-30.16
NO.25	20.0000	500.0000	-60851.3702	-70723.2161	135-57-40.28
NO.26	20.0000	520.0000	-60865.1017	-70708.6816	131-41-18.43
+ 5.7536 (KA3-2 )	5.7536	525.7536	-60868.9171	-70704.3750	131-27-50.36
+ 5.7536	5.7536	525.7536	-60868.9171	-70704.3750	131-27-50.36
NO.27	14.2464	540.0000	-60878.3503	-70693.6991	131-27-50.36
+18.9169	18.9169	558.9169	-60890.8762	-70679.5233	131-27-50.36
IP.4	IA= 74-18-32.74	L1= 40.8333	L2= 67.5000	y1= 2.3110	y2= 6.2925
	X= -60965.5720	dR1= 0.5783	dR2= 1.5776	Tc1= 112.8082	Tc2= 124.7538
	Y= -70594.9880	Xm1= 20.3970	Xm2= 33.6612	S01= 40.7808	S02= 67.2630
		x1= 40.7153	x2= 66.9680	W= 92.1305	
	R= 120.0000	Lc= 101.4659	CL= 209.7993	A1= 70.0000	A2= 90.0000
+18.9169 (KA4-1 )	18.9169	558.9169	-60890.8762	-70679.5233	131-27-50.36
NO.28	1.0831	560.0000	-60891.5933	-70678.7116	131-27-25.67
NO.29	20.0000	580.0000	-60904.5946	-70663.5164	128-51-54.88
+19.7503 (KE4-1 )	19.7503	599.7503	-60916.1040	-70647.4822	121-42-56.69
NO.30	0.2497	600.0000	-60916.2350	-70647.2696	121-35-47.45
NO.31	20.0000	620.0000	-60925.2490	-70629.4420	112- 2-49.99
NO.32	20.0000	640.0000	-60931.1804	-70610.3660	102-29-52.52
NO.33	20.0000	660.0000	-60933.8651	-70590.5704	92-56-55.05
NO.34	20.0000	680.0000	-60933.2285	-70570.6036	83-23-57.58
NO.35	20.0000	700.0000	-60929.2884	-70551.0192	73-51- 0.12
+ 1.2162 (KE4-2 )	1.2162	701.2162	-60928.9442	-70549.8527	73-16- 9.59
NO.36	18.7838	720.0000	-60922.2793	-70532.3063	65-32-55.03
NO.37	20.0000	740.0000	-60913.0708	-70514.5610	60- 4-17.02
NO.38	20.0000	760.0000	-60902.6253	-70497.5076	57-25-24.93
+ 8.7162 (KA4-2 )	8.7162	768.7162	-60897.9093	-70490.1774	57- 9-17.62

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			( X )	( Y )	
+ 8.7162	8.7162	768.7162	-60897.9093	-70490.1774	57- 9-17.62
NO.39	11.2838	780.0000	-60891.7893	-70480.6974	57- 9-17.62
NO.40	20.0000	800.0000	-60880.9419	-70463.8946	57- 9-17.62
+ 1.8792	1.8792	801.8792	-60879.9227	-70462.3159	57- 9-17.62
IP.5	IA= 68- 5-48.54	L1= 22.8571	L2= 143.5348	y1= 1.2416	y2= 45.4909
	X= -60841.2370	dR1= 0.3107	dR2= 11.8130	Tc1= 71.3272	Tc2= 112.2120
	Y= -70402.3910	Xm1= 11.4184	Xm2= 69.3250	S01= 22.8301	S02= 136.9407
		x1= 22.7963	x2= 129.1640	W= 0.0000	
	R= 70.0000	Lc= 0.0000	CL= 166.3919	A1= 40.0000	A2= 100.2369
+ 1.8792 (KA5-1 )	1.8792	801.8792	-60879.9227	-70462.3159	57- 9-17.62
NO.41	18.1208	820.0000	-60870.6252	-70446.7719	63- 2- 3.29
+ 4.7363 (KEE5 )	4.7363	824.7363	-60868.6018	-70442.4904	66-30-33.50
NO.42	15.2637	840.0000	-60864.0289	-70427.9562	78-20-18.70
NO.43	20.0000	860.0000	-60862.3846	-70408.0703	91-49-38.68
NO.44	20.0000	880.0000	-60865.0330	-70388.2786	103- 2- 7.02
NO.45	20.0000	900.0000	-60871.1038	-70369.2434	111-57-43.71
NO.46	20.0000	920.0000	-60879.7013	-70351.1982	118-36-28.77
NO.47	20.0000	940.0000	-60889.9938	-70334.0555	122-58-22.18
NO.48	20.0000	960.0000	-60901.2362	-70317.5157	125- 3-23.96
+ 8.2711 (KA5-2 )	8.2711	968.2711	-60906.0023	-70310.7560	125-15- 6.16
+ 8.2711	8.2711	968.2711	-60906.0023	-70310.7560	125-15- 6.16
NO.49	11.7289	980.0000	-60912.7719	-70301.1778	125-15- 6.16
NO.50	20.0000	1000.0000	-60924.3153	-70284.8454	125-15- 6.16
+ 5.0000	5.0000	1005.0000	-60927.2012	-70280.7622	125-15- 6.16
NO.51	15.0000	1020.0000	-60935.8587	-70268.5129	125-15- 6.16
NO.52	20.0000	1040.0000	-60947.4021	-70252.1804	125-15- 6.16
+13.2195	13.2195	1053.2195	-60955.0320	-70241.3850	125-15- 6.16
IP.6	IA= 91-49- 1.62	折れ点			
	X= -60955.0320				
	Y= -70241.3850				

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測点 ( STA )	単距離 ( L )	追加距離 ( TD )	座標値 ( X ) ( Y )		接線方向角 ( A )
+13.2195 (IP.6)	13.2195	1053.2195	-60955.0320	-70241.3850	79-20-35.35
+13.2195	0.0000	1053.2195	-60955.0320	-70241.3850	33-26- 4.54
+15.0000	1.7805	1055.0000	-60953.5462	-70240.4040	33-26- 4.54
		(L) 12.3000	-60946.7691	-70250.6685	
		(R) 33.3400	-60971.9160	-70212.5812	
NO.53	5.0000	1060.0000	-60949.3736	-70237.6491	33-26- 4.54
		(L) 12.3450	-60942.5717	-70247.9512	
		(R) 33.3330	-60967.7396	-70209.8322	
NO.54	20.0000	1080.0000	-60932.6833	-70226.6294	33-26- 4.54
NO.55	20.0000	1100.0000	-60915.9930	-70215.6097	33-26- 4.54
+ 4.0000	4.0000	1104.0000	-60912.6549	-70213.4057	33-26- 4.54
NO.56	16.0000	1120.0000	-60899.3027	-70204.5900	33-26- 4.54
+12.9315	12.9315	1132.9315	-60888.5111	-70197.4649	33-26- 4.54
IP.7	IA= 65-25-11.35	L1= 49.2308	L2= 49.2308	y1= 3.0993	y2= 3.0993
	X= -60797.9040	dR1= 0.7758	dR2= 0.7758	Tc1= 108.5745	Tc2= 108.5745
	Y= -70137.6420	Xm1= 24.5860	Xm2= 24.5860	S01= 49.1524	S02= 49.1524
		x1= 49.0546	x2= 49.0546	W= 83.9885	
	R= 130.0000	Lc= 99.2021	CL= 197.6636	A1= 80.0000	A2= 80.0000
+12.9315 (KA7-1)	12.9315	1132.9315	-60888.5111	-70197.4649	33-26- 4.54
NO.57	7.0685	1140.0000	-60882.6073	-70193.5780	33-12-39.41
NO.58	20.0000	1160.0000	-60865.6449	-70182.9864	30- 9-17.45
NO.59	20.0000	1180.0000	-60847.8562	-70173.8698	23-31- 3.95
+ 2.1623 (KE7-1)	2.1623	1182.1623	-60845.8667	-70173.0230	22-35- 8.48
NO.60	17.8377	1200.0000	-60828.9793	-70167.3218	14-43-26.25
NO.61	20.0000	1220.0000	-60809.3221	-70163.7436	5-54-33.20
NO.62	20.0000	1240.0000	-60789.3487	-70163.2199	357- 5-40.15
NO.63	20.0000	1260.0000	-60769.5309	-70165.7632	348-16-47.10
NO.64	20.0000	1280.0000	-60750.3369	-70171.3133	339-27-54.06
+ 1.3644 (KE7-2)	1.3644	1281.3644	-60749.0618	-70171.7986	338-51-49.25
NO.65	18.6356	1300.0000	-60732.1441	-70179.5887	332-12-17.33
NO.66	20.0000	1320.0000	-60714.8157	-70189.5680	328-31- 2.15
+10.5952 (KA7-2)	10.5952	1330.5952	-60705.8127	-70195.1540	328- 0-53.19

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+10.5952	10.5952	1330.5952	-60705.8127	-70195.1540	328- 0-53.19
NO.67	9.4048	1340.0000	-60697.8357	-70200.1357	328- 0-53.19
NO.68	20.0000	1360.0000	-60680.8720	-70210.7297	328- 0-53.19
NO.69	20.0000	1380.0000	-60663.9083	-70221.3238	328- 0-53.19
NO.70	20.0000	1400.0000	-60646.9446	-70231.9178	328- 0-53.19
NO.71	20.0000	1420.0000	-60629.9809	-70242.5118	328- 0-53.19
+ 3.2834 (EP )	3.2834	1423.2834	-60627.1960	-70244.2510	328- 0-53.19