

# RAPORT GEODEZYJNY

Rodzaj pomiarów:

**GPS RTK/RTN**

Nr drogi/obiektu: DK9- Obwodnica m. Kolbuszowa	Przedsięwzięcie: Budowa Obwodnicy m. Kolbuszowa	Załącznik nr: 15.1
Typ wykorzystanych poprawek: RTN_VRS_3_1	Inwestor: Skarb Państwa - GDDKiA Oddz. w Rzeszowie	Wykonawca pomiarów: Pracownia Geologiczna GEO-MI M. Małuszyński
Układ/strefa: 2000/21	Projektant: PROMOST Consulting	Dokumentator: inż. Przemysław Tomaszewski

## Raport z pomiaru GPS RTK/RTN "Kolbuszowa EII"

Producent, model odbiornika i numer seryjny odbiornika:	Trimble, SPS785, 5911550006	Producent i model anteny	Trimble SPS785 Internal,
Wykorzystany system stacji referencyjnych:	ASG-EUPOS	Nazwa użytkownika w systemie:	uzytkownik
Wykorzystany strumień poprawek w systemie:	NAWGEO_VRS_3_1	Format danych korekcyjnych:	RTCM 3.1
Adres IP:, Port IP:	http://91.198.76.2: 8080	Typ rozwiązania:	Sieć
Maska elewacji odbiornika ruchomego:	10	Maska PDOP odbiornika ruchomego:	6
Rodzaj oprogramowania wewnętrznego:	Trimble General Survey	Wersja oprogramowania:	20.00

### Parametry odwzorowania:

Kraj	Polska/CS2000
Układ/strefa	2000/21
Elipsoida odniesienia	WGS-84
Duża półka elipsoidy	6378137
Splaszczanie elipsoidy	0.00335281066475
Typ odwzorowania	Gausa-Kruger
Równoleżnik osiowy	0
Południk osiowy	21
Punkt główny X	0
Punkt główny Y	7500000
Skala w punkcie głównym	0.999923
Azymut	Na północ
Orientacja siatki	Rosnąca północ-wschód
Transformacja wysokościowa	Geoida
Model Geoidy	PL-geoid-2011 (Poland)

### Tabela wektorów GPS:

Nr	Kod	Rozwiązanie	Wys.anteny	B	L	PD OP	Satellity	e	X	Y	h	mp	mh
1	0+000(9)/O/W	RTN Fix	2.000	50.28514	21.74909	1.4	18	10	5572403.46	7553383.92	204.248	0.01	0.02
2	0+200(9)/O/W	RTN Fix	2.000	50.28411	21.74640	1.2	22	10	5572286.95	7553193.02	203.154	0.01	0.02
3	0+400(9)/O/W	RTN Fix	2.000	50.28311	21.74407	1.4	19	10	5572173.85	7553028.20	201.793	0.02	0.02
4	0+600(9)/O/W	RTN Fix	2.000	50.28215	21.74169	1.1	23	10	5572065.42	7552860.12	200.874	0.02	0.02
5	0+825(9)/O/W	RTN Fix	2.000	50.28113	21.73936	1.0	23	10	5571949.96	7552695.10	198.726	0.02	0.03
6	1+150(9)/O/W	RTN Fix	2.000	50.27941	21.73570	1.1	23	10	5571756.43	7552435.80	198.311	0.02	0.03
7	1+270(9)/9B-PMZ1/W	RTN Fix	2.000	50.27874	21.73437	1.1	22	10	5571680.84	7552341.73	198.399	0.01	0.02
8	1+575(9)/9B-WG2/W	RTN Fix	2.000	50.27702	21.73104	1.1	19	10	5571486.88	7552106.75	201.878	0.02	0.02
9	1+775(9)/O/W	RTN Fix	2.000	50.27592	21.72882	1.6	16	10	5571362.75	7551949.56	203.549	0.01	0.02
10	1+995(9)/O/W	RTN Fix	2.000	50.27475	21.72656	1.4	14	10	5571231.52	7551789.33	204.377	0.01	0.02
11	2+121(9)/9B-WD3/W	RTN Fix	2.000	50.27400	21.72508	1.5	16	10	5571146.80	7551684.81	205.326	0.02	0.02
12	2+600(9)/O/W	RTN Fix	2.000	50.27129	21.71978	1.3	18	10	5570842.17	7551310.08	206.494	0.01	0.02
13	2+800(9)/O/W	RTN Fix	2.000	50.27017	21.71758	1.3	17	10	5570715.92	7551154.33	207.649	0.01	0.02
14	2+980(9)/9B-WG5/W	RTN Fix	2.000	50.26917	21.71564	1.3	18	10	5570603.79	7551017.20	207.089	0.01	0.02
15	3+200(9)/O/W	RTN Fix	2.000	50.26793	21.71326	1.6	16	10	5570463.47	7550848.82	207.344	0.01	0.02
16	3+400(9)/O/W	RTN Fix	2.000	50.26657	21.71131	1.4	16	10	5570311.51	7550711.26	207.108	0.01	0.02
17	3+600(9)/O/W	RTN Fix	2.000	50.26506	21.70987	1.4	15	10	5570142.38	7550610.42	207.102	0.01	0.02
18	3+800(9)/O/W	RTN Fix	2.000	50.26337	21.70893	1.3	18	10	5569953.65	7550544.89	206.965	0.01	0.02
19	3+930(9)/9B-WD6/W	RTN Fix	2.000	50.26221	21.70859	1.1	18	10	5569824.54	7550521.63	206.236	0.01	0.02
20	4+115(9)/O/W	RTN Fix	2.000	50.26067	21.70852	1.3	20	10	5569652.68	7550518.26	204.945	0.01	0.02
21	4+315(9)/O/W	RTN Fix	2.000	50.25890	21.70896	1.6	19	10	5569456.58	7550551.58	201.078	0.01	0.02
22	4+517(9)/9B-PZM7/W	RTN Fix	2.000	50.25710	21.71002	1.6	18	10	5569257.25	7550629.28	200.533	0.01	0.02

23	4+625(9)/O/W	RTN Fix	2.000	50.25625	21.71072	1.6	19	10	5569162.65	7550680.32	199.917	0.01	0.02
24	5+450(9)/O/W	RTN Fix	2.000	50.24925	21.71374	1.3	19	10	5568386.66	7550902.72	205.907	0.01	0.02
25	5+300(9)/O/W	RTN Fix	2.000	50.25059	21.71380	1.3	18	10	5568536.07	7550905.70	203.113	0.01	0.02
26	5+100(9)/O/W	RTN Fix	2.000	50.25238	21.71346	1.5	20	10	5568734.56	7550879.28	202.007	0.01	0.02
27	4+929(9)/9B-PZM9/W	RTN Fix	2.000	50.25386	21.71275	1.1	22	10	5568898.08	7550827.49	199.671	0.02	0.03
28	4+787(9)/9B-MG8/W	RTN Fix	2.000	50.25497	21.71183	1.1	21	10	5569021.65	7550760.68	199.314	0.02	0.03
29	5+700(9)/O/W	RTN Fix	2.000	50.24701	21.71356	1.1	21	10	5568137.42	7550892.41	206.120	0.02	0.03
30	5+870(9)/O/W	RTN Fix	2.000	50.24547	21.71343	1.1	20	10	5567965.34	7550885.04	206.736	0.01	0.02
31	6+015(9)/9B-WD10(9A-WG9)/W	RTN Fix	2.000	50.24408	21.71332	1.0	22	10	5567810.62	7550878.17	206.800	0.02	0.02
32	6+275(9)/O/W	RTN Fix	2.000	50.24182	21.71320	1.2	20	10	5567560.13	7550872.51	210.970	0.02	0.02
33	6+500(9)/O/W	RTN Fix	2.000	50.23986	21.71361	1.2	21	10	5567341.66	7550903.68	213.064	0.02	0.02
34	6+630(9)/O/W	RTN Fix	2.000	50.23874	21.71426	1.2	22	10	5567217.87	7550951.22	215.548	0.01	0.02
35	6+800(9)/O/W	RTN Fix	2.000	50.23737	21.71525	1.3	20	10	5567065.73	7551023.43	218.130	0.01	0.01
36	7+100(9)/O/W	RTN Fix	2.000	50.23514	21.71760	1.5	16	10	5566819.39	7551193.61	224.861	0.01	0.02
37	7+250(9)/O/W	RTN Fix	2.000	50.23403	21.71879	1.4	17	10	5566697.07	7551279.71	227.338	0.01	0.02
38	7+400(9)/O/W	RTN Fix	2.000	50.23287	21.71991	1.6	14	10	5566568.86	7551360.33	228.893	0.01	0.02
39	7+570(9)/9B-WD11/W	RTN Fix	2.000	50.23169	21.72146	1.3	23	10	5566439.13	7551472.38	228.237	0.02	0.02
40	7+700(9)/O/W	RTN Fix	2.000	50.23069	21.72240	1.2	22	10	5566328.02	7551540.76	226.016	0.02	0.03
41	7+850(9)/O/W	RTN Fix	2.000	50.22959	21.72360	1.2	23	10	5566206.56	7551627.40	223.461	0.02	0.03
42	8+150(9)/O/W	RTN Fix	2.000	50.22737	21.72599	1.1	21	10	5565961.60	7551800.20	217.429	0.01	0.02
43	8+350(9)/O/W	RTN Fix	2.000	50.22590	21.72757	1.1	23	10	5565799.50	7551914.93	215.360	0.01	0.01
44	8+500(9)/O/W	RTN Fix	2.000	50.22477	21.72878	1.3	21	10	5565674.18	7552002.44	214.243	0.01	0.01
45	8+650(9)/O/W	RTN Fix	2.000	50.22361	21.72986	1.2	22	10	5565545.84	7552080.62	213.343	0.01	0.02
46	9+350(9)/O/W	RTN Fix	2.000	50.21768	21.73288	1.5	22	10	5564888.80	7552302.54	221.271	0.01	0.02
47	9+135(9)/O/W	RTN Fix	2.000	50.21957	21.73218	1.1	22	10	5565098.37	7552250.77	218.627	0.02	0.02
48	9+560(9)/O/W	RTN Fix	2.000	50.21599	21.73422	1.2	23	10	5564700.90	7552400.14	223.553	0.02	0.02
49	9+700(9)/O/W	RTN Fix	2.000	50.21485	21.73509	1.2	23	10	5564574.66	7552463.32	225.383	0.01	0.02
50	9+900(9)/O/W	RTN Fix	2.000	50.21359	21.73676	1.4	18	10	5564436.71	7552583.70	227.112	0.01	0.02
51	10+115(9)/9B-WG13/W	RTN Fix	2.000	50.21244	21.73939	1.3	19	10	5564309.64	7552772.55	228.845	0.02	0.02
52	10+315(9)/O/W	RTN Fix	2.000	50.21162	21.74187	1.2	20	10	5564220.26	7552950.43	228.973	0.02	0.03
53	10+490(9)/O/W	RTN Fix	2.000	50.21124	21.74428	1.3	17	10	5564179.99	7553123.44	225.572	0.02	0.03
54	10+700(9)/O/W	RTN Fix	2.000	50.21111	21.74721	1.3	19	10	5564168.29	7553332.16	221.072	0.01	0.02
55	10+900(9)/O/W	RTN Fix	2.000	50.21112	21.74998	1.3	19	10	5564170.45	7553530.41	216.783	0.01	0.02
56	11+100(9)/O/W	RTN Fix	2.000	50.21112	21.75277	1.2	20	10	5564172.74	7553729.32	214.785	0.01	0.02
57	11+300(9)/O/W	RTN Fix	2.000	50.21113	21.75557	1.3	17	10	5564175.79	7553929.00	213.710	0.01	0.02
58	12+285(9)/O/W	RTN Fix	2.000	50.21102	21.76939	1.2	19	10	5564174.35	7554915.80	231.299	0.01	0.02
59	12+600(9)/O/W	RTN Fix	2.000	50.21018	21.77359	1.4	16	10	5564083.48	7555216.68	233.429	0.02	0.03
60	12+125(9)/O/W	RTN Fix	2.000	50.21104	21.76721	1.3	18	10	5564174.77	7554759.94	227.448	0.02	0.03
61	11+825(9)/O/W	RTN Fix	2.000	50.21114	21.76368	1.3	17	10	5564182.61	7554507.77	223.014	0.02	0.03
62	11+650(9)/O/W	RTN Fix	2.000	50.21113	21.76047	1.3	18	10	5564179.62	7554279.04	218.160	0.02	0.03
63	12+778(9)/9B-EG15/W	RTN Fix	2.000	50.20942	21.77581	1.2	19	10	5564001.00	7555375.53	231.142	0.01	0.02
64	14+600(9)/9A-WD15/W	RTN Fix	2.000	50.20428	21.79945	1.0	26	10	5563446.94	7557068.97	232.773	0.01	0.02
65	14+780(9)/O/W	RTN Fix	2.000	50.20442	21.80191	1.0	25	10	5563464.19	7557244.73	236.194	0.01	0.02
66	14+950(9)/O/W	RTN Fix	2.000	50.20454	21.80431	1.2	24	10	5563478.98	7557416.02	238.241	0.02	0.03
67	15+124(9)/9B-PZM19/W	RTN Fix	2.000	50.20468	21.80675	1.2	23	10	5563496.93	7557590.14	239.563	0.02	0.03
68	15+325(9)/O/W	RTN Fix	2.000	50.20483	21.80954	1.6	18	10	5563515.23	7557789.09	240.343	0.02	0.03
69	15+680(9)/O/W	RTN Fix	2.000	50.20510	21.81450	1.4	22	10	5563549.68	7558142.28	242.481	0.02	0.03
70	15+880(9)/O/W	RTN Fix	2.000	50.20525	21.81728	1.2	24	10	5563568.13	7558340.54	244.674	0.02	0.03
71	16+060(9)/O/W	RTN Fix	2.000	50.20538	21.81978	1.3	23	10	5563585.12	7558519.29	245.849	0.02	0.03
72	16+240(9)/O/W	RTN Fix	2.000	50.20553	21.82228	1.3	21	10	5563603.12	7558697.73	245.090	0.01	0.02
73	16+558(9)/O/W	RTN Fix	2.000	50.20578	21.82718	1.2	24	10	5563634.84	7559046.71	246.196	0.01	0.02
74	16+773(9)/O/W	RTN Fix	2.000	50.20593	21.82978	1.3	23	10	5563654.46	7559231.92	245.986	0.01	0.02
75	14+350(9)/O/W	RTN Fix	2.000	50.20416	21.79592	1.3	20	10	5563430.52	7556817.41	229.886	0.01	0.01
76	14+155(9)/O/W	RTN Fix	2.000	50.20429	21.79319	1.3	19	10	5563442.99	7556622.43	228.215	0.02	0.02
77	13+974(9)/9B-PZM17/W	RTN Fix	2.000	50.20463	21.79068	1.3	20	10	5563479.21	7556442.51	227.946	0.01	0.02
78	13+815(9)/O/W	RTN Fix	2.000	50.20504	21.78862	1.3	19	10	5563523.25	7556295.04	229.559	0.01	0.02

79	13+675(9)/O/W	RTN Fix	2.000	50.20555	21.78680	1.5	15	10	5563577.97	7556164.38	231.014	0.01	0.02
80	13+350(9)/O/W	RTN Fix	2.000	50.20693	21.78282	1.3	19	10	5563729.20	7555878.67	228.006	0.01	0.02
81	13+246(9)/9B-PZM16/W	RTN Fix	2.000	50.20738	21.78142	1.4	18	10	5563778.25	7555778.36	226.967	0.01	0.02
82	12+950(9)/O/W	RTN Fix	2.000	50.20866	21.77791	1.5	17	10	5563917.64	7555526.20	230.443	0.01	0.02
83	0+040(4)/O/w	RTN Fix	2.000	50.28352	21.75006	1.3	19	10	5572223.43	7553455.11	202.301	0.01	0.02
84	0+190(4)/O/w	RTN Fix	2.000	50.28220	21.75052	1.3	19	10	5572076.97	7553489.20	199.280	0.01	0.02
85	0+360(4)/O/w	RTN Fix	2.000	50.28084	21.75164	1.2	21	10	5571927.02	7553570.54	197.185	0.01	0.01
86	0+460(4)/O/w	RTN Fix	2.000	50.28014	21.75255	1.5	18	10	5571848.97	7553635.81	196.599	0.01	0.01
87	0+580(4)/4b-wg1/w	RTN Fix	2.000	50.27949	21.75404	1.3	19	10	5571778.40	7553742.63	195.966	0.01	0.01
88	0+728(4)/O/w	RTN Fix	2.000	50.27911	21.75605	1.1	22	10	5571737.35	7553886.70	195.696	0.01	0.02
89	0+270(2)/O/w	RTN Fix	2.000	50.27890	21.75388	1.6	15	10	5571712.12	7553732.52	197.365	0.01	0.01
90	0+450(2)/O/w	RTN Fix	2.000	50.27763	21.75538	1.2	21	10	5571572.15	7553840.90	196.601	0.01	0.01
91	0+555(2)/2b-wg1/w	RTN Fix	2.000	50.27702	21.75655	1.2	20	10	5571505.07	7553924.81	195.393	0.01	0.01
92	0+800(2)/2b-cg2/w	RTN Fix	2.000	50.27618	21.75972	1.3	18	10	5571414.56	7554151.34	194.609	0.01	0.02
93	1+100(2)/O/w	RTN Fix	2.000	50.27542	21.76376	1.3	17	10	5571332.23	7554440.35	197.261	0.01	0.01
94	1+262(2)/O/w	RTN Fix	2.000	50.27500	21.76593	1.3	17	10	5571287.20	7554595.71	197.600	0.01	0.01
95	1+528(2)/O/w	RTN Fix	2.000	50.27432	21.76955	1.4	16	10	5571214.66	7554854.56	198.340	0.02	0.03
96	1+638(2)/2b-pzm3/w	RTN Fix	2.000	50.27403	21.77102	1.4	15	10	5571183.34	7554959.52	197.791	0.01	0.02
97	2+225(4)/O/w	RTN Fix	2.000	50.27632	21.77598	1.2	17	10	5571442.08	7555310.57	197.586	0.01	0.01
98	2+075(4)/O/w	RTN Fix	2.000	50.27701	21.77414	1.2	17	10	5571516.80	7555178.64	196.847	0.01	0.01
99	1+913(4)/O/w	RTN Fix	2.000	50.27776	21.77220	1.2	17	10	5571598.60	7555038.95	195.277	0.01	0.02
100	1+773(4)/O/w	RTN Fix	2.000	50.27836	21.77049	1.6	13	10	5571664.96	7554916.55	195.384	0.01	0.02
101	1+077(4)/O/w	RTN Fix	2.000	50.27920	21.76096	1.1	24	10	5571751.28	7554236.35	193.960	0.01	0.02
102	1+276(4)/O/w	RTN Fix	2.000	50.27930	21.76375	1.2	21	10	5571764.51	7554435.43	193.956	0.01	0.01
103	1+423(4)/4b-mg3/w	RTN Fix	2.000	50.27919	21.76579	1.2	21	10	5571753.80	7554580.94	193.673	0.01	0.02
104	1+528(4)/4b-mg3/w	RTN Fix	2.000	50.27904	21.76725	1.2	21	10	5571737.92	7554684.93	193.719	0.01	0.02
105	2+550(2)/O/w	RTN Fix	2.000	50.27168	21.78325	1.1	25	10	5570931.26	7555834.33	203.137	0.01	0.02
106	2+400(2)/O/w	RTN Fix	2.000	50.27207	21.78124	1.1	26	10	5570972.60	7555690.40	204.386	0.01	0.01
107	2+200(2)/O/w	RTN Fix	2.000	50.27259	21.77856	1.1	26	10	5571028.47	7555498.69	203.101	0.01	0.01
108	2+000(2)/O/w	RTN Fix	2.000	50.27310	21.77585	1.1	26	10	5571083.02	7555305.10	200.804	0.01	0.02
109	2+543(4)/O/w	RTN Fix	2.000	50.27483	21.77978	1.1	26	10	5571279.06	7555582.75	201.087	0.01	0.02
110	2+740(4)/O/w	RTN Fix	2.000	50.27394	21.78216	1.1	26	10	5571181.90	7555753.45	201.683	0.01	0.01
111	2+925(4)/O/w	RTN Fix	2.000	50.27307	21.78439	1.1	26	10	5571086.98	7555913.59	202.905	0.01	0.02
112	3+180(4)/O/w	RTN Fix	2.000	50.27186	21.78741	1.1	27	10	5570953.86	7556130.09	200.848	0.01	0.02
113	3+290(4)/4b-pzm5/w	RTN Fix	2.000	50.27137	21.78876	1.2	26	10	5570900.82	7556227.32	200.322	0.01	0.02
114	3+425(4)/O/w	RTN Fix	2.000	50.27066	21.79032	1.2	26	10	5570822.81	7556339.40	201.667	0.01	0.02
115	3+562(4)/O/w	RTN Fix	2.000	50.26933	21.79202	1.3	24	10	5570675.74	7556462.20	203.389	0.01	0.02
116	3+772(4.1.a)/O/w	RTN Fix	2.000	50.26798	21.79406	1.2	25	10	5570527.20	7556609.00	203.344	0.01	0.01
117	3+918(4.1.)/4.1.b-pzm4a/w	RTN Fix	2.000	50.26691	21.79525	1.2	25	10	5570409.79	7556694.76	204.470	0.01	0.02
118	4+226(4.1.)/O/w	RTN Fix	2.000	50.26452	21.79739	1.1	27	10	5570145.20	7556850.69	206.730	0.01	0.01
119	3+724(2)/O/w	RTN Fix	2.000	50.26447	21.79193	1.0	26	10	5570135.75	7556461.49	210.976	0.01	0.02
120	3+992(4)/4b-pzm6/w	RTN Fix	2.000	50.26602	21.79267	1.0	27	10	5570308.12	7556512.34	208.192	0.01	0.01
121	3+400(2)/O/w	RTN Fix	2.000	50.26735	21.79220	1.1	23	10	5570455.69	7556477.19	205.360	0.01	0.02
122	3+819(4)/O/w	RTN Fix	2.000	50.26758	21.79288	1.1	24	10	5570482.43	7556525.32	204.572	0.01	0.02
123	3+200(2)/O/w	RTN Fix	2.000	50.26898	21.79109	1.1	21	10	5570636.62	7556395.81	204.240	0.01	0.02
124	3+050(2)/O/w	RTN Fix	2.000	50.26998	21.78972	1.0	26	10	5570746.74	7556296.92	202.545	0.01	0.02
125	2+918(2)/2b-pzm5/w	RTN Fix	2.000	50.27068	21.78816	1.0	24	10	5570823.82	7556185.14	202.151	0.01	0.02
126	2+800(2)/O/w	RTN Fix	2.000	50.27104	21.78662	1.2	22	10	5570862.34	7556074.77	201.718	0.01	0.02
127	5+386(2)/2a-p7.1/w	RTN Fix	2.000	50.25079	21.79826	1.3	19	10	5568618.36	7556929.12	226.500	0.01	0.02
128	5+230(2)/2b-wg10/w	RTN Fix	2.000	50.25195	21.79707	1.2	21	10	5568746.62	7556842.54	228.692	0.01	0.02
129	5+086(2)/O/w	RTN Fix	2.000	50.25317	21.79642	1.1	17	10	5568882.25	7556794.55	228.694	0.01	0.02
130	4+970(2)/O/w	RTN Fix	2.000	50.25412	21.79575	1.1	23	10	5568987.67	7556745.74	228.424	0.01	0.01
131	4+800(2)/O/w	RTN Fix	2.000	50.25551	21.79473	1.3	19	10	5569141.04	7556671.49	226.799	0.01	0.02
132	5+155(4)/4b-pzm9/w	RTN Fix	2.000	50.25622	21.79402	1.2	22	10	5569219.64	7556620.31	223.408	0.01	0.01
133	2+820(3)/3b-pzm5/w	RTN Fix	2.000	50.25666	21.79300	1.4	20	10	5569267.40	7556546.99	224.498	0.01	0.02
134	2+685(3)/O/w	RTN Fix	2.000	50.25744	21.79158	1.4	17	10	5569353.12	7556444.52	225.019	0.01	0.02
135	4+875(4)/4b-pzm8/w	RTN Fix	2.000	50.25847	21.79200	1.2	23	10	5569468.38	7556473.12	221.733	0.01	0.01

136	4+680(4)/O/w	RTN Fix	2.000	50.26000	21.79092	1.3	23	10	5569637.15	7556394.47	223.537	0.01	0.02
137	4+500(4)/O/w	RTN Fix	2.000	50.26162	21.79078	1.2	22	10	5569818.09	7556382.52	220.490	0.01	0.01
138	4+300(4)/4b-wg7/w	RTN Fix	2.000	50.26334	21.79150	1.0	26	10	5570009.26	7556431.68	215.522	0.01	0.01
139	4+374(4.1.)/O/w	RTN Fix	2.000	50.26330	21.79822	1.0	26	10	5570009.87	7556910.94	207.554	0.01	0.02
140	4+574(4.1.)/O/w	RTN Fix	2.000	50.26158	21.79909	1.1	26	10	5569819.94	7556975.09	208.418	0.01	0.01
141	4+773(4.1.a)/4.1.b-pzm7/w	RTN Fix	2.000	50.25983	21.79969	1.2	22	10	5569625.18	7557020.04	209.240	0.01	0.02
142	4+974(4.1.)/4.1.b-pzm7a/w	RTN Fix	2.000	50.25804	21.80001	1.2	21	10	5569427.16	7557044.94	213.146	0.01	0.01
143	5+171(4.1.)/4.1.b-pzm8/w	RTN Fix	2.000	50.25625	21.80009	1.4	25	10	5569227.55	7557052.73	216.887	0.01	0.02
144	5+373(4.1.)/4.1.b-pzm8a/w	RTN Fix	2.000	50.25445	21.80009	1.3	19	10	5569027.29	7557055.27	220.242	0.01	0.01
145	5+585(4.1.)/4.1.b-wg9/w	RTN Fix	2.000	50.25254	21.80014	1.5	20	10	5568814.75	7557060.74	223.610	0.01	0.02
146	5+727(4.1.)/4.1.a-p7.1/w/w	RTN Fix	2.000	50.25126	21.80015	1.3	19	10	5568673.18	7557063.40	221.410	0.01	0.01
147	5+974(4.1.)/O/w	RTN Fix	2.000	50.24907	21.80059	1.2	22	10	5568429.48	7557097.35	227.998	0.01	0.01
148	5+780(2)/O/w	RTN Fix	2.000	50.24767	21.80093	1.2	23	10	5568274.37	7557123.04	235.366	0.01	0.01
149	6+427(4)/O/w	RTN Fix	2.000	50.24613	21.80235	1.2	24	10	5568103.80	7557226.47	235.460	0.01	0.01
150	6+627(4)/O/w	RTN Fix	2.000	50.24459	21.80380	1.1	24	10	5567933.78	7557331.62	233.700	0.01	0.02
151	6+777(4)/O/w	RTN Fix	2.000	50.24344	21.80489	1.1	25	10	5567806.20	7557410.53	231.072	0.02	0.03
152	6+879(4)/4b-pzdd11/w	RTN Fix	2.000	50.24265	21.80562	1.3	20	10	5567719.40	7557463.45	226.590	0.01	0.01
153	5+871(4)/4b-p10.1/w	RTN Fix	2.000	50.25056	21.79851	1.3	19	10	5568593.92	7556946.73	226.800	0.01	0.01
154	3+645(3)/O/w	RTN Fix	2.000	50.25034	21.79896	1.4	20	10	5568569.48	7556979.47	227.701	0.01	0.01
155	2+200(3)/3b-wd4/w	RTN Fix	2.000	50.25989	21.78596	1.1	21	10	5569621.29	7556041.08	224.603	0.01	0.02
156	2+035(3)/O/w	RTN Fix	2.000	50.26047	21.78385	1.1	21	10	5569684.92	7555890.02	219.258	0.01	0.01
157	1+885(3)/O/w	RTN Fix	2.000	50.26089	21.78185	1.3	20	10	5569729.31	7555746.81	216.099	0.02	0.03
158	1+730(3)/O/w	RTN Fix	2.000	50.26128	21.77980	1.3	20	10	5569772.08	7555599.94	214.370	0.01	0.02
159	2+435(3)/O/w	RTN Fix	2.000	50.25880	21.78878	1.2	21	10	5569502.42	7556243.40	223.799	0.01	0.02
160	1+388(3)/O/w	RTN Fix	2.000	50.26184	21.77503	1.1	24	10	5569830.30	7555259.51	210.689	0.01	0.01
161	1+235(3)/O/w	RTN Fix	2.000	50.26183	21.77289	1.2	22	10	5569827.78	7555107.09	209.972	0.01	0.01
162	0+861(3)/3b-wg1/w	RTN Fix	2.000	50.26178	21.76766	1.2	23	10	5569817.83	7554734.13	209.677	0.01	0.01
163	0+740(3)/O/w	RTN Fix	2.000	50.26176	21.76587	1.3	19	10	5569814.46	7554606.26	207.031	0.01	0.02
164	0+540(3)/O/w	RTN Fix	2.000	50.26186	21.76308	1.4	18	10	5569823.33	7554407.44	206.376	0.01	0.02
165	0+340(3)/O/w	RTN Fix	2.000	50.26253	21.76050	1.4	18	10	5569896.82	7554222.76	204.770	0.01	0.01
166	0+140(3)/O/w	RTN Fix	2.000	50.26383	21.75859	1.2	19	10	5570039.88	7554084.99	204.282	0.01	0.01
167	9+400(4)/O/w	RTN Fix	2.000	50.22690	21.83037	1.1	27	10	5565986.58	7559248.26	223.960	0.01	0.01
168	9+278(4)/4b-pzm16/w	RTN Fix	2.000	50.22749	21.82898	1.2	26	10	5566051.43	7559148.28	222.713	0.01	0.01
169	9+175(4)/O/w	RTN Fix	2.000	50.22805	21.82780	1.5	24	10	5566112.47	7559063.77	222.119	0.01	0.01
170	8+886(4)/O/w	RTN Fix	2.000	50.22949	21.82444	1.2	25	10	5566270.41	7558821.92	218.679	0.01	0.01
171	8+746(4)/4b/4b-pzm15/w	RTN Fix	2.000	50.23024	21.82289	1.2	25	10	5566351.93	7558710.84	218.300	0.01	0.02
172	8+526(4)/O/w	RTN Fix	2.000	50.23142	21.82039	1.1	25	10	5566481.46	7558530.98	219.251	0.02	0.02
173	8+337(4)/4b-wg14/w	RTN Fix	2.000	50.23252	21.81837	1.1	25	10	5566602.20	7558385.40	220.975	0.02	0.02
174	8+167(4)/4b-pzm13/w	RTN Fix	2.000	50.23352	21.81656	1.1	25	10	5566712.38	7558255.29	224.352	0.01	0.01
175	7+480(2)/O/w	RTN Fix	2.000	50.23499	21.81409	1.3	20	10	5566873.79	7558077.06	231.534	0.01	0.01
176	5+412(3)/3b-pzm8/w	RTN Fix	2.000	50.23659	21.81134	1.4	21	10	5567049.53	7557879.11	230.476	0.01	0.02
177	7+633(4)/4b-pzm12/w	RTN Fix	2.000	50.23697	21.81141	1.2	21	10	5567092.02	7557883.24	231.310	0.02	0.03
178	7+527(4)/O/w	RTN Fix	2.000	50.23771	21.81041	1.3	21	10	5567172.95	7557811.37	233.503	0.01	0.02
179	7+327(4)/O/w	RTN Fix	2.000	50.23920	21.80885	1.2	25	10	5567338.11	7557698.08	237.979	0.01	0.01
180	7+127(4)/O/w	RTN Fix	2.000	50.24074	21.80742	1.0	28	10	5567508.16	7557594.23	237.103	0.01	0.02
181	5+892(3)/O/w	RTN Fix	2.000	50.23300	21.81512	1.0	27	10	5566653.36	7558153.18	221.479	0.02	0.02
182	6+009(3)/3b-pzm9/w	RTN Fix	2.000	50.23215	21.81603	1.1	25	10	5566559.18	7558218.54	219.347	0.01	0.01
183	6+146(3)/O/w	RTN Fix	2.000	50.23112	21.81709	1.1	27	10	5566445.18	7558295.56	217.293	0.01	0.01
184	6+346(3)/O/w	RTN Fix	2.000	50.22963	21.81865	1.1	25	10	5566280.71	7558409.12	215.186	0.01	0.02
185	6+435(3)/3b-pzm10/w	RTN Fix	2.000	50.22895	21.81934	1.1	25	10	5566206.48	7558458.92	215.708	0.01	0.02
186	6+747(3)/O/w	RTN Fix	2.000	50.22662	21.82176	1.3	21	10	5565948.32	7558634.20	218.606	0.01	0.02
187	6+947(3)/O/w	RTN Fix	2.000	50.22500	21.82297	1.2	20	10	5565769.62	7558723.05	223.210	0.01	0.02
188	7+107(3)/3b-pzm12/w	RTN Fix	2.000	50.22362	21.82356	1.0	24	10	5565616.07	7558766.82	224.002	0.01	0.02
189	7+500(3)/O/w	RTN Fix	2.000	50.22012	21.82373	1.1	25	10	5565227.22	7558782.87	237.404	0.01	0.01
190	7+646(3)/O/w	RTN Fix	2.000	50.21878	21.82369	1.0	26	10	5565078.31	7558781.57	231.502	0.02	0.02
191	7+900(3)/O/w	RTN Fix	2.000	50.21653	21.82348	1.0	26	10	5564828.24	7558769.78	221.374	0.02	0.02
192	8+395(3)/3b-p17/w	RTN Fix	2.000	50.21208	21.82322	1.0	24	10	5564332.51	7558756.23	224.227	0.01	0.02

193	8+246(3)/O/w	RTN Fix	2.000	50.21340	21.82305	1.0	25	10	5564479.12	7558742.72	220.848	0.02	0.02
194	8+546(3)/O/w	RTN Fix	2.000	50.21080	21.82393	1.1	23	10	5564191.48	7558808.49	227.979	0.01	0.02
195	8+740(3)/O/w	RTN Fix	2.000	50.20943	21.82559	1.1	23	10	5564039.71	7558928.64	231.174	0.01	0.02
196	10+565(4)/O/w	RTN Fix	2.000	50.21969	21.84206	1.0	25	10	5565194.00	7560091.31	245.969	0.01	0.02
197	9+980(2)/O/w	RTN Fix	2.000	50.22038	21.84020	1.0	25	10	5565269.29	7559957.60	244.478	0.01	0.02
198	10+313(4)/O/w	RTN Fix	2.000	50.22143	21.83976	1.0	25	10	5565385.63	7559925.53	244.480	0.01	0.02
199	10+127(4)/O/w	RTN Fix	2.000	50.22275	21.83819	1.1	22	10	5565531.49	7559811.90	241.921	0.01	0.02
200	9+480(2)/O/w	RTN Fix	2.000	50.22410	21.83634	1.2	22	10	5565679.93	7559677.75	234.820	0.01	0.02
201	9+280(2)/O/w	RTN Fix	2.000	50.22521	21.83417	1.2	22	10	5565801.58	7559521.58	235.139	0.01	0.02
202	9+100(2)/O/w	RTN Fix	2.000	50.22614	21.83210	1.2	22	10	5565903.31	7559372.53	227.740	0.01	0.02
203	10+380(2)/O/w	RTN Fix	2.000	50.21715	21.84252	1.0	23	10	5564912.44	7560127.46	245.270	0.01	0.02
204	10+550(2)/O/w	RTN Fix	2.000	50.21588	21.84399	1.2	24	10	5564772.43	7560234.02	245.220	0.01	0.02
205	10+780(2)/O/w	RTN Fix	2.000	50.21450	21.84635	1.1	22	10	5564620.59	7560403.92	245.601	0.01	0.02
206	10+980(2)/O/w	RTN Fix	2.000	50.21360	21.84878	1.3	23	10	5564522.80	7560578.76	246.919	0.01	0.02
207	11+542(4)/O/w	RTN Fix	2.000	50.21313	21.85085	1.2	22	10	5564471.71	7560727.45	248.432	0.01	0.02
208	11+654(4)/O/w	RTN Fix	2.000	50.21215	21.85107	1.2	23	10	5564362.87	7560744.07	247.581	0.02	0.02
209	11+460(2)/O/w	RTN Fix	2.000	50.21184	21.85495	1.4	21	10	5564331.65	7561021.74	248.418	0.01	0.02
210	11+665(2)/O/w	RTN Fix	2.000	50.21111	21.85755	1.3	22	10	5564253.09	7561208.11	247.488	0.01	0.02
211	11+865(2)/O/w	RTN Fix	2.000	50.21039	21.86015	1.3	22	10	5564175.06	7561394.07	245.873	0.01	0.02
212	12+080(2)/O/w	RTN Fix	2.000	50.20961	21.86288	1.3	17	10	5564090.64	7561590.00	242.864	0.01	0.02
213	11+315(4)/O/w	RTN Fix	2.000	50.21489	21.84951	1.1	22	10	5564666.15	7560628.94	247.422	0.01	0.01
214	11+115(4)/O/w	RTN Fix	2.000	50.21639	21.84779	1.2	22	10	5564831.75	7560504.49	247.359	0.02	0.02
215	10+915(4)/4b-wg17/w	RTN Fix	2.000	50.21756	21.84566	1.3	17	10	5564960.36	7560351.50	247.683	0.02	0.02
216	13+113(2)/O/w	RTN Fix	2.000	50.20585	21.87610	1.2	20	10	5563682.45	7562538.64	235.558	0.01	0.02
217	12+916(2)/O/w	RTN Fix	2.000	50.20660	21.87362	1.3	20	10	5563763.93	7562361.07	235.310	0.01	0.02
218	12+700(2)/2b-pzm18/w	RTN Fix	2.000	50.20737	21.87083	1.5	17	10	5563847.30	7562160.54	234.216	0.01	0.02
219	12+500(2)/O/w	RTN Fix	2.000	50.20809	21.86830	1.4	19	10	5563925.21	7561979.10	239.029	0.01	0.02
220	12+565(4)/4b-pzm19/w	RTN Fix	2.000	50.20395	21.85047	1.1	21	10	5563450.62	7560711.77	248.557	0.02	0.02
221	12+664(4)/O/w	RTN Fix	2.000	50.20308	21.85064	1.4	16	10	5563353.41	7560724.64	248.619	0.01	0.02
222	12+364(4)/O/w	RTN Fix	2.000	50.20577	21.85070	1.1	21	10	5563653.48	7560725.46	249.326	0.01	0.02
223	12+163(4)/O/w	RTN Fix	2.000	50.20757	21.85075	1.3	17	10	5563853.78	7560727.31	250.318	0.01	0.02
224	11+960(4)/O/w	RTN Fix	2.000	50.20939	21.85096	1.6	15	10	5564056.00	7560739.81	250.293	0.01	0.01
225	0+000(4.1)/O/w	RTN Fix	2.000	50.27854	21.74660	1.1	24	10	5571667.37	7553213.44	198.620	0.01	0.01
226	0+170(4.1)/O/w	RTN Fix	2.000	50.27865	21.74901	1.3	22	10	5571680.60	7553385.63	198.010	0.02	0.02
227	0+345(4.1)/O/w	RTN Fix	2.000	50.27876	21.75149	1.2	23	10	5571695.59	7553561.75	197.030	0.01	0.02
228	0+020(3)/O/w	RTN Fix	2.000	50.26473	21.75765	1.2	22	10	5570139.13	7554016.82	204.030	0.02	0.02
229	4+085(4.1)/4.1b-pzm5+wg6/w	RTN Fix	2.000	50.26563	21.79646	1.4	23	10	5570268.58	7556782.75	205.500	0.02	0.02
230	5+798(4.1)/4.1b-p9.1/w	RTN Fix	2.000	50.25062	21.80022	1.3	21	10	5568601.23	7557068.86	225.290	0.01	0.02

#### Oznaczenia:

1. Pkt bazowy - w przypadku rozwiązania sieciowego (RTN Fix) - najbliższy fizyczny punkt bazowy. Odbiorniki firmy Trimble nie wykazują pomiaru do stacji wirtualnej (VRS). Współrzędne stacji wirtualnej (VRS) są jedynie elementem pomocniczym do obliczenia danych korekcyjnych.
2. RTK/RTK Fix - pomiar różnicowy do pojedynczej stacji referencyjnej
3. RTN/RTN Fix - pomiar różnicowy do sieci stacji referencyjnych
4. e - liczba pozycji RTK/RTN zmierzonych na punkcie
5. Satelity - minimalna liczba śledzonych satelitów, na podstawie których została wyznaczona pozycja
6. PDOP- parametr rozmieszczenia geometrycznego satelitów
7. B, L - współrzędne geograficzne punktu
8. mp - błąd wyznaczenia współrzędnych szczegółów sytuacyjnych względem istniejących punktów bazowych
9. mh - błąd wyznaczenia wysokości szczegółów sytuacyjnych względem istniejących punktów bazowych

**GEODETA UPRAWNIONY**

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